

FINAL REMEDIAL ACTION REPORT

for

Debris Removal and Containerized
Hazardous Waste and Toxic Waste Removal
Gambell, Alaska

Delivery Order No. 0004
Contract. No. DACA85-97-D-0010

November 5, 2001

Oil Spill Consultants, Inc.
209 East 51st Avenue
Anchorage, Alaska 99503
Telephone: (907) 562-7169
Fax: (907) 562-7225

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"Oil Spill Consultants - A Commitment to Environmental Excellence"

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LIST OF ACRONYMS

AAC	Alaska Administrative Code
ADEC	Alaska Department of Environmental Conservation
ARARs	Applicable or Relevant and Appropriate Requirements
ATVs	All-Terrain Vehicles
CFR	Code of Federal Regulations
COC	Chain of Custody
CQC	Contractor Quality Control
C. T. & E.	C. T. & E. Environmental Services
CWMN	Chemical Waste Management of the Northwest
DOT	Department of Transportation (U.S.)
DOT&PF	Department of Transportation and Public Facilities (State of Alaska)
DQCR	Daily Quality Control Reports
DQO	Data Quality Objectives
DRO	Diesel Range Organics
EPA	Environmental Protection Agency
FAA	Federal Aviation Administration
GRO	Gasoline Range Organics
HAZMAT	Hazardous Materials
HDPE	High-Density Polyethylene
HTW	Hazardous and Toxic Waste
mg/kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
ml	Milliliter
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NAO	Northern Area Office
OSCI	Oil Spill Consultants, Inc.
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PES	Philip Environmental Services
PPE	Personal Protective Equipment
ppt	Parts Per Trillion
PQL	Practical Quantitation Limit
PWD	Public Works Department
QAR	Quality Assurance Representative
RCRA	Resource Conservation and Recovery Act
RRO	Residual Range Organics
SL	Sample Matrix for Soil
SVOA	Semi-Volatile Organic Analysis
SVOC	Semi-Volatile Organic Compounds
TCDD	Tetrachlordibenzodioxin
TCLP	Toxic Characteristic Leaching Procedure
TSCA	Toxic Substance Control Act
U	Undetected
USAEDA	U.S. Army Engineer District, Alaska
VOA	Volatile Organic Analyses
VOC	Volatile Organic Compounds

1.0 EXECUTIVE SUMMARY

On June 30, 1998, the U.S. Army Engineer District, Alaska (USAEDA) contracted Oil Spill Consultants, Inc. (OSCI) to remove and dispose of metal debris, containerized hazardous and toxic waste (HTW) and contaminated soil located at Gambell, Alaska.

In accordance with contract requirements, the following items were removed from the project site and shipped to the Lower-48 states for disposal:

- HTW Removal. Approximately, 26.8 tons of HTW (battery, parts, dried paint, drums and transformer carcasses) were collected from five locations at the project site.
- Metal Debris. Based on field weights, 142,234 pounds of metal debris consisting of runway matting, cable, fuel tanks and equipment parts were removed from sites identified by USAEDA.
- Contaminated Soil. Workers using picks and shovels excavated 52 tons of contaminated soil from Sevuokuk Mountain.
- Stained Soil. A total of 20 tons of petroleum-stained soil were excavated from several sites at Gambell.

Twenty-seven connex containers and one 20-foot flat loaded with project waste departed Gambell, Alaska, on August 26, 1999, and arrived at the designated disposal facilities during mid-November 1999. Metal items (including empty drums) and petroleum contaminated soil were shipped to Rabanco Recycling in Seattle, Washington. Contaminated soil and HTW were shipped to Chemical Waste Management in Arlington, Oregon, and Burlington Environmental, Inc. in Seattle, Washington, respectively.

Fifty-two tons of contaminated soil were removed from Site 4/Area 4B. Samples from the excavated area revealed that the residual diesel range organics (DRO) level ranged from 24.8 to 13,900 milligrams per kilogram (mg/kg). By comparison, the State of Alaska cleanup level for DRO under Alaska Department of Environmental Conservation (ADEC) Method 2 is 250 mg/kg for the project site. Other analytes detected in the samples from Site 4/Area 4B were below regulatory thresholds established by the State of Alaska and the U.S. Environmental Protection Agency (EPA). Residual dioxin levels in the excavation at this site ranged from non-detect to 1,250 parts per trillion.

Several soil stains were removed from Site 4/Area 4A and Site 12. Confirmation samples show that the residual DRO levels in these areas are 1,310 mg/kg and 463 mg/kg, respectively. The residual total chromium level for Site 4/Area 4A was 422 mg/kg. Residual total lead for Site 12 was 562 mg/kg. ADEC Method 2 cleanup levels for chromium and lead are 26 mg/kg and 400 mg/kg, respectively.

From start to finish, 45 days were required to complete all site work. Despite difficult environmental conditions (wet tundra, large boulders restricting access to work sites on Sevuokuk Mountain, and reduced visibility due to fog and low ceilings), there were no accidents or spills. This is particularly noteworthy since most of the project labor was provided

by local residents. (Prior to project startup, local Gambell residents experienced three serious accidents. However, daily safety meetings and adherence to established safety protocol prevented problems while work was in progress.)

A photo summary of project activities is provided in Appendix A. Scale tickets showing debris and soil weights are provided in Appendix B. Waste manifests and certificates of disposal are in Appendix C. Daily quality control reports are provided in Appendix D. Laboratory data for project samples is summarized in Appendix E. Chain of custody forms for project samples and laboratory data reports are in Appendix F. Data deliverables for project samples are in Appendix G. The Safety and Health Phase-Out Report for this report is in Appendix H. A chemical data quality review is provided in Appendix I.

2.0 BACKGROUND INFORMATION

2.1 Site Location and Ownership

As shown in Figure 1, Gambell, Alaska, is located on the northwest cape of St. Lawrence Island, 200 miles southwest of Nome, Alaska at 63° 47' N Latitude, 171° 45' W Longitude (Section 03,T020S,R067W, Kateel River Meridian).

St. Lawrence Island has two villages, Gambell and Savoonga. Under the 1971 Alaska Native Claims Settlement Act, Gambell residents established Sivuqaq Incorporated. Residents in Savoonga established Savoonga Incorporated. Following this, the federal government awarded a joint title to all land on St. Lawrence Island to these corporations.

Points of contact for this project are:

Point of Contact	USAEDA (NAO)	USAEDA (Alaska District)	Federal Aviation Administration	Sivuqaq Inc.	State of Alaska Department of Transportation & Public Facilities (DOT&PF)
Name	Paul Schneider	Susan Beachamp	Patricia Owen	Job Koonooka	Patty Miller
Title	Resident Engineer	Project Manager	Northern Region Project Manager	President	Head of Aviation Design
Address	U.S. Army Engineer District, Northern Alaska Area Office P.O. Box 355066 Ft. Wainwright, Alaska 99703-0066	U.S. Army Engineer District P.O. Box 898 Anchorage, Alaska 99506-0898	222 W. 7 th Avenue, #14 Anchorage, Alaska 99513	Sivuqaq Inc. P.O. Box 101 Gambell, Alaska 99742	State of Alaska DOT & PF 2301 Peger Road Fairbanks, Alaska 99709
Phone Number	(907) 353-7850	(907) 451-2275	(907) 271-5445	(907) 985-5826	(907) 451-2275

2.2 Site History

From 1948 through the late 1950s, the U. S. Air Force, Army and Navy conducted limited military activities sites in Gambell, Alaska. Based on previous investigations performed for the government by Ecology and Environment under Contract No. DACA85-91-D-003, the military established the following sites at Gambell:

- Site 2 - Former Housing and Operations Center. A military housing and operations center was located at this site. It included 12 Quonset huts, a dining hall, a utility building and a small power plant. These structures were demolished by the military prior to demobilizing from Gambell. The ground at this site contains about 1,600 pounds of metal debris (weasel tracks, metal boxes and wire), one drum and several soil stains that resulted from previous military activities.

Figure 1: Project Location

- Site 3 - Former Communications Facility. A 75 ft. by 45 ft. communications facility was located at this site. It included an electrical power plant, fuel storage tanks and two Jamesway huts for equipment and personnel shelter. Surface debris at this site include a fuel storage tank, weasel tracks, aircraft landing mat and drums. The weight for this debris is estimated at 1,800 pounds.
- Site 4 - Former Air Force Radar Station. This site is located on the top of Sevuokuk Mountain (600 ft. above sea level). It contained a 375 ft. by 500 ft. radar station which was used to monitor Russian ships in the Bering Sea. Site 4 also had two Quonset huts for personnel shelter and several transformers which were part of the system that delivered electrical power from other locations to the radar station. A tram at Site 5 and a trail through Site 10 were used to access to Site 4. (Overland access to Site 4 is limited by large boulders on Sevuokuk Mountain and wet tundra in Site 10.)

Site 4 contains about 7,300 pounds of metal debris which consists of siding and frames from Quonset huts, drums and wire. It also contains 4,370 pounds of HTW (drums, transformers, engine blocks and generators). Along with this, Site 4 has a surface stain that may contain up to 52 tons of contaminated soil.

- Site 5 - Former Tramway Site. Site 5 is on the northwest face of Sevuokuk Mountain and served as the location for a tram which transported personnel and equipment to Site 4. This site also served as the corridor for sonar and electrical cables. It contains approximately 370 pounds of scattered metal debris.
- Site 6 - Former Military Landfill. A 275 ft. by 135 ft. landfill was constructed at this site. Along with metal drums filled with human waste, materials from a power plant and communications facility may be buried in the landfill. (The landfill is covered with gravel.) Surface debris from previous government activities at this site is limited to 350 pounds of metal (drum remnants, landing mat, wire and weasel tracks).
- Site 7 - Former Military Power Facility. Based on previous investigations, a military power plant was located at this site. The ground at this site contains about 150 pounds of miscellaneous metal debris.
- Site 8 - West Beach. This 3-mile long area is located on the west site of Troutman Lake. It begins near the northwest end of Gambell and extends southward to Nayvaghaq Lake. The military placed metal landing mats in this area to support aircraft operation. At several locations in Site 8, storms have removed the gravel and exposed the landing matting. It is estimated that this site contains at least 115,000 pounds of landing mat and several drums filled with asphalt.

Site 8 also contains a 4,500 ft. paved runway. Energized electrical cables for the runway lights are buried in the gravel next to the runway.

- Site 10 - Sevuokuk Mountain Trail System. As shown in Figure 1, these trails start near the south end of Troutman Lake and provide access to a former radar station located at Site 4 on the top of Sevuokuk Mountain. Military personnel placed over 150 metal drums at 200 ft. intervals to mark the trails. Site 10 also has about 1,300 pounds of weasel tracks. (Due to the presence of wet tundra in Site 10, track-mounted vehicles should be considered for using the trail system during the summer months.)

- Site 12 - Nayvaghaq Lake Disposal Area. This site is located between Nayvaghaq Lake and Troutman Lake. Along with several stains, it has 66 drums and 10 lead-acid batteries on the ground.
- Site 13 - Former Radar Power Station. This site is located near the south end of Troutman Lake and previously contained three wooden buildings and several 150-ft. towers. About 300 pounds of metal pipe and wire from the radar power station remain on the ground at Site 13.

Prior to demobilizing, the military demolished most of the buildings that were constructed to support its operations in Gambell, Alaska. Reports prepared by Ecology and Environment and Montgomery Watson for the USAEDA Contract Numbers DACA85-91-D-0003 and DACA85-93-D-0011 state that the demolition debris and most of the military equipment were buried on site.

2.3 Project Scope of Work

Under Delivery Order No. 0004 for Contract No. DACA85-97-D-0010 issued on June 30, 1998, USAEDA requested OSCI to remove the following items from Gambell, Alaska:

- Hazardous and Toxic Waste (HTW). A total of 8.5 tons of hazardous and toxic waste were identified for shipment to government-approved disposal facilities in the Lower-48 states. This waste included lead-acid batteries, transformers, asphalt, generators, engine blocks, storage tanks, empty drums, and stained soil in locations containing HTW.
- Metal Debris. The delivery order required removal and disposal of 64 tons of metal debris from various sites at Gambell, Alaska. This debris consisted of metal runway matting near the Gambell airport landing strip, abandoned communication cable and cable spools, sheet metal, metal frames, pipes and parts from track-mounted vehicles.
- Contaminated Soil. Area 4/4B on Sevuokuk Mountain had a soil stain which resulted from a previous spill. The scope of work required the contractor to remove and ship 52 tons of soil from the stained area to government-approved disposal facilities in the Lower-48 states.
- Stained Soil. Several sites identified in the project scope of work contained petroleum-stained soil. The delivery order required the contractor to remove and provide offsite disposal for 20 tons of stained soil from these sites.

Work at the project site began on July 5, 1999, and was completed on August 18, 1999.

2.4 Project Planning

The following project plans were prepared by OSCI and approved by USAEDA to support this project:

- Work Plan. This document includes the project schedule and identifies the scope of work on a site-by-site basis. Along with this, it delineates responsibilities for project

personnel, discusses mobilization, and identifies the sources for project resources. The work plan also addresses steps used to remove, segregate, and quantify the waste by contract line items and track waste movement from the project site to Lower-48 disposal facilities.

- Site Safety and Health Plan. This plan identifies site safety requirements, discusses accident prevention, and outlines the steps for complying with EM 385-1-1. It includes a hazard analysis for each work feature, lists precautionary measures for handling HTW, and describes procedures for identifying and resolving safety problems at the project site.
- Contractor's Quality Control Plan (QCP). This plan outlines OSCI's provisions for assuring the scope of work is completed in accordance with contract specifications. It describes the company's quality control (QC) program and lists responsibilities for OSCI's QC personnel. The QCP also identifies potential QC problems for each work feature and describes corrective actions. This plan also discusses OSCI's procedures for weighing the HTW, debris, and contaminated soil removed from each project site.
- Sampling and Analysis Plan. This plan identifies: 1) data quality objectives for meeting U.S. EPA and Department of Transportation (DOT) waste identification and shipping requirements, 2) the number of samples that would be collected at the project site, and 3) analytical methods for each sample. It also discusses OSCI's field screening and sample handling procedures.
- Waste Management Plan. This plan lists the project waste streams and discusses OSCI's procedures for waste identification, tracking, weighing, packaging, and storage at the project site. It also includes the steps for waste labeling, land ban restriction notifications, and manifest preparation. In addition, the waste management plan lists companies identified for waste transportation and disposal.
- Environmental Protection Plan. This plan outlines steps for protecting and restoring areas accessed by OSCI for HTW removal. As part of this plan, track-mounted vehicles were used to transport personnel, HTW, contaminated soil, and debris across wet tundra. It also explains how trails through the wet tundra will be seeded and fertilized to minimize the potential for soil erosion; how plastic liners will be used to protect the ground in areas used for equipment and HTW storage; and how graders will be used to restore smooth surfaces on gravel beaches.

2.5 Land Access Fees

Sivuqaq Incorporated levies a \$100.00 access fee for each person who crosses its land. Under arrangements made by USAEDA, neither OSCI nor its subcontractors had to pay this fee while performing project activities on the corporation's land. However, this fee was required if OSCI's personnel used the corporation's land for recreation or other activities.

2.6 Applicable Regulations

Hazardous and toxic waste included identified in the project scope of work was handled, transported and disposed of in accordance with the following regulations:

- 29 CFR 1910.120. Under this section of the Code of Federal Regulations (CFR), persons handling or working in areas containing hazardous or toxic materials were required to complete a 40-hour HAZWOPER or an 8-hour HAZWOPER refresher (if the one-year certification for the 40-hour HAZWOPER had expired) course prior beginning work. These courses familiarized the worker with the procedures for wearing and caring for personal protective equipment, material safety data sheets, and steps for personnel decontamination.
- 40 CFR 261. This regulation provides the criteria for determining if a substance is a hazardous waste. It also provides EPA codes that must be placed on hazardous waste labels and manifests. Additionally, it provides criteria for determining if a substance meets the EPA definition for hazardous waste under toxicity characteristic leaching procedure (TCLP).
- 40 CFR 263. EPA requirements for hazardous waste manifests, record keeping and spill cleanup are cited in this regulation.
- 40 CFR 761. EPA requirements for handling, labeling and storing PCB contaminated wastes are defined in this regulation. This regulation also establishes regulatory thresholds for liquids containing PCBs and PCB contaminated waste.
- 49 CFR 172. U.S. DOT requirements for waste shipping names, packaging materials, and hazard class identification are provided in this section of CFR.
- 18 AAC75.341, Method 2. This section of the Alaska Administrative Code defines soil cleanup levels for petroleum, chemical, PCB, and metal contamination.

2.7 Delivery Order Modifications

The following modifications were issued for Delivery Order 0004:

- Full-Time Archeologist. The delivery order included 10 days for an Archeologist at the project site. Due to the possibility of encountering items that may have cultural or archeological significance, the delivery order was modified to include: 1) a full-time Archeologist for the project duration, 2) a separate vehicle for the Archeologist, and 3) additional report writing for the Archeologist if significant findings were discovered.
- Corporation Meeting Attendance. Sivuqaq Incorporated requested USAEDA and OSCI representatives to attend a March 25, 1999 public meeting in Gambell, Alaska, to discuss Delivery Order 0004. A modification was issued to cover OSCI's cost for meeting attendance.
- Increase HTW Removal. The original delivery order identified 8.5 tons of HTW for removal and disposal. A modification was issued to increase the HTW quantity to 24 tons.
- Road Access at Project Site. The negotiated delivery order included one truck and four 4-wheel all-terrain vehicles (ATVs) with trailers for hauling metal debris and contaminated soil at Gambell. During April 1999, a USAEDA representative advised OSCI that these vehicles were not suitable for the steep terrain on Sevuokuk Mountain.

He recommended replacing the ATVs with a Nodwell and several Argos. In response to this, OSCI requested and USAEDA issued a modification which allowed three of the 4-wheel ATVs to be replaced with one track-mounted Nodwell and two track-mounted Argos.

- Revised Unit Cost for Contaminated Soil Removal. Drawings provided by USAEDA showed well-defined trails to the contaminated soil removal area on Sevuokuk Mountain. On arriving at the project site, OSCI discovered that there were no trails to Site 4, Areas 4A, 4B, and 4D on Sevuokuk Mountain. Instead, this area was surrounded by large boulders which prevented access by trucks, excavation equipment, and large track-mounted vehicles such as the Nodwell. In view of this, a modification was issued for revising the unit cost for removing contaminated soil from Site 4, Area 4B using shovels, sand bags and Argos.
- Delete Debris Removal Near Buried Power Line. The delivery order required OSCI to remove 64 tons of metal matting near the Gambell airport runway. While performing this work, an energized cable for the runway lights was discovered near a portion of the metal matting. A modification from USAEDA deleted the requirement to remove the metal matting near the energized cable.
- Increase Quantity for Metal Debris Removal. The debris quantity was increased from 64 to 71 tons. This included an additional 410 linear feet of metal matting, 2.2 miles of Navy sonar cable, cable reels and one metal cargo sled.
- Additional Sampling and Analyses. The delivery order included one sample to satisfy waste disposal facility acceptance criteria for soil excavated from Site 4, Area 4B. A modification was issued to collect four post excavation confirmation samples from this site. (This modification also included one quality control and one quality assurance sample.)
- Confirmation Samples. A modification expanded the scope of work to include 10 confirmation samples from areas that appear to have contamination. These samples were to be tested for GRO by AK101, DRO by AK102, RRO by AK103, VOC by EPA Method 8260, VOA by EPA Method 8270, PCBs by EPA Method 8082 and Pesticides by EPA Method 8081.

3.0 COMMUNITY RELATIONS

3.1 Population and Lifestyle

Gambell, Alaska, is a small community which has about 525 full-time residents (Photo 1). Most residents are Yup'ik Eskimos who depend on birds, fish, marine mammals and reindeer for subsistence.

3.2 Services

Two commuter airlines provide four flights per day from Nome, Alaska, to Gambell, Alaska. There is no airport terminal in Gambell. The village is approximately ½ mile from the landing strip. Since there are no taxis or public transportation in the village, persons traveling to Gambell must make advance arrangements for someone to meet them at the runway.

The village normally receives one cargo barge per year (Photo 2) and up to two fuel barges per year. During the summer months, several small cruise ships visit the village.

Sivuqaq Incorporated operates a 15-room lodge in Gambell (Photos 3 through 6). It has a full kitchen which prepares fast food for the community. Persons staying in the lodge can order from the menu or use the kitchen to prepare their own meals.

3.3 Economy

Commercial activities in Gambell are limited to a small Native store which caters to the local community and Sivuqaq Lodge which caters to bird watchers during the summer months. Jobs are limited to a few positions offered by the school, post office, power plant, city government, tribal council, the local store and local Native corporation (which owns the lodge).

The village corporations (Sivuqaq, Inc. and Savoonga, Inc.) own all land and mineral rights on St. Lawrence Island. As a result, they generate revenue by selling gravel to the State of Alaska for airport runway construction and maintenance. These corporations also charge fees to persons and organizations that use their land for recreation or bird watching.

When jobs are not available, Gambell residents depend on state assistance. Some residents make and sell ivory carvings to tourists who visit the island.

3.4 Community Benefits from Project

Under USAEDA specifications for this project, all site workers were required to meet Occupational Safety and Health Administration (OSHA) hazardous materials (HAZMAT) requirements (29 CFR 1910.120) for handling contaminated soil and hazardous waste. Since there were only six persons in Gambell who met this requirement, the following steps were taken to maximize employment opportunities for local residents:

- Tasks Restricted to HAZMAT Workers. Work such as contaminated soil excavation, drum handling, transformer packaging and battery handling was limited to residents who had met the OSHA HAZMAT requirements. This work was supervised by Philip Services Corporation.

- Tasks Set-Aside for Non-HAZMAT Workers. The project scope of work required OSCI to remove 115,000 pounds of metal landing matting from Site 8. Since this debris was not contaminated or in areas containing HTW, persons handling it were not required to meet the OSHA HAZMAT requirements cited in 29 CFR 1910.120. After obtaining government approval, OSCI hired local workers who did not have HAZMAT training to remove, cut and package metal landing. They were also used to remove wire and other metal debris from areas that did not contain HTW.

Local residents provided 61 percent of the total project labor hours and received \$86,302 in wages.

To support the local community, OSCI purchased meals and lodging from the Sivuqaq Lodge at a cost of \$33,715. Along with this, OSCI spent \$4,839 for food and fuel at the community store. In summary, this project contributed \$124,856 to Gambell's economy.

OSCI shipped \$3,000 worth of canned goods and dry food to Gambell for crew meals. Less than 50 percent of this was consumed by the project personnel. Excess food was given to local residents and several Siberian Eskimos who were visiting Gambell. OSCI also gave a computer and printer to a local family. The company sold a full-size refrigerator, microwave oven, VCR and television to various residents for less than 10 percent of the purchase cost.

3.5 Meetings Between Community Leaders and Project Manager

The Gambell Mayor and Sivuqaq Board of Directors requested several meetings with OSCI's project manager. During each meeting, they questioned the steps OSCI was taking to hire more local workers. Although local workers received 61 percent of the man-hours devoted to project labor, the mayor and board of directors encouraged OSCI to provide training so Gambell residents could fill all labor and equipment operator positions during future environmental remediation projects on St. Lawrence Island.

4.0 WORK DESCRIPTION AND EQUIPMENT

4.1 Weather Conditions

Gambell, Alaska, has a maritime climate with average summer temperatures ranging from 34 to 48 °F. Average winter temperatures range from -2 to 10 °F.

Project work began on July 6, 1999, and was completed on August 17, 1999. During this period, temperatures ranged from a low of 39 °F to a high of 55 °F. Based on data from a weather station at the Gambell airport runway, wind speeds ranged from 0 to 35 knots during this project.

This delivery order required OSCI to remove 170 tons of debris, HTW and contaminated soil from Gambell. Approximately, 40 percent of this material was located on the top of Sevuokuk Mountain (600 ft. above sea level.) Each day, low ceilings covered this area with dense fog. Surveyor's stakes with colored tape were used to mark routes on the mountain top and wet tundra in Site 10. This made it possible for personnel to navigate during reduced visibility.

No significant project delays were caused by weather. Due to blowing rain and dense fog, no work was performed on August 4, 1999. No accidents or spills resulted from weather conditions at the project site.

4.2 Physical Conditions

The following conditions were observed when OSCI arrived at the project site on July 5, 1999:

- Loose Gravel on North Beach. Project equipment and connex containers for waste shipment were mobilized to Gambell, Alaska, by Northland Services. Due to wind and sea conditions, the barge offloaded these items on the north beach (Figure 2). This beach has loose gravel and could not provide a stable working surface for personnel or equipment. While walking on this beach, personnel would sink 3 to 6 inches with each step. The company's 4-wheel drive truck was frequently stuck in the beach gravel. Small trailers loaded with debris bottomed out in the gravel.
- Hard Packed Gravel on South Beach. In view of poor conditions on the north beach, OSCI set up an equipment staging area on the south beach where the gravel was hard packed and would support both equipment and personnel. At this location, metal debris, soil, and HTW were weighed with an electronic scale and placed in connex containers.
- Limited Road System. As shown in Figure 2 and Photo 37, a hard-packed gravel road is located on the east, west and south side of Troutman Lake. This road starts at the rock quarry near the east side of the lake. It ends near the Gambell School. There were no roads through the housing area or trails through Site 4 or Site 10.
- Wet Tundra. Site 10 consisted of wet tundra that could not be crossed by trucks or heavy equipment. As shown in Photo 38, 4-wheel ATVs were frequently stuck while crossing the tundra. As noted in Photo 39, a track-mounted Nodwell was able to

Figure 2: Terrain Features - Northwest Cape, Saint Lawrence Island

cross the tundra. However, initial testing showed that the tracks on this vehicle caused extensive tundra damage (Photo 40). In view of this, Nodwell use was restricted to gravel surfaces at the project site.

- Boulder Field on Mountain Top. Site 4 is located on top of Sevuokuk Mountain. Large boulders on the mountain (Photos 24 and 52) prevented site access by trucks or heavy equipment.
- Low Ceilings Reduce Visibility on Mountain. The top of Sevuokuk Mountain is approximately 600 ft. above sea level. At least 85 percent of the time, low ceilings reduced visibility on the mountain top to 50 ft. or less.
- High Water Table. Site 12 (Photo 45) contained dried paint, batteries and several large surface stains that may have resulted from leaking drums. Due to its proximity to Troutman Lake, Nayvagag Lake and the Bering Sea, this site has a high water table. During calm weather, the water table was 6 to 8 inches below grade. When low winds occurred, about 20 percent of this site was under water.

4.3 Findings at Project Sites

The scope of work identified nine sites at Gambell, Alaska, that contained soil, metal debris or HTW designated for removal under Delivery Order 0004. The following items were found at each site:

- Site 2 - Petroleum Contaminated Soil. Site 2 (Photo 7) is at the base of Sevuokuk Mountain, about 3/4 miles northeast of the Gambell school and 150 yards from the Bering Sea shoreline. Based on pictures provided in the scope of work, this site was identified by small cable reels surrounding a large rock. All of the soil within 49 feet of this rock contained heavy petroleum stains. At the base of the rock, the stain was 2 ft. deep. At 49 ft. from the rock, it was 3 inches deep. Laboratory analyses revealed that the stained soil contained gasoline range organics (GRO) at 309 mg/kg, diesel range organics (DRO) at 6,440 mg/kg and residual range organics (RRO) at 388 mg/kg. No metals, pesticides or PCBs were detected in this soil.
- Site 3 - Tanks and Metal Debris. Site 3 (Photos 10 through 12) was on the southwest slope of Sevuokuk Mountain. It started at ground level and ascended to approximately 400 ft above grade. Three empty fuel tanks and several sheets of metal siding were found at this site.
- Site 4 - Contaminated Soil, Metal Debris, and Transformers. As shown in Figure 2, Site 4 is on the top of Sevuokuk Mountain. Pictures provided by the government made it possible to identify Areas 4A, 4B and 4D. A generator was located near Area 4B. Additionally, Area 4B contained a large area of contaminated soil identified for excavation during this project. Area 4D included metal debris from two Quonset huts (Photo 13) and three empty transformers (Photo 14).

Together, Areas 4A, 4B and 4C were at least 300 ft. long by 300 ft. wide. Wind blown metal debris was lodged between the boulders throughout these areas. Skeletal remains and burial boxes were found near Area 4D. (These items were handled by OSCI's Archeologist and local residents from Gambell.)

As discussed in Section 2.6, there were no trails to the project areas on Sevuokuk Mountain. It was necessary to cross 1.6 miles of wet tundra (Photo 41) to reach these areas.

- Site 5 - Metal Debris. This site was on the southwest slope of Sevuokuk Mountain. It started at ground level and ended at the mountain top. Due to a steep slope containing jagged rocks, it was impossible to inspect this site at elevations above 450 ft. The locations which were inspected contained small pieces of metal debris.
- Site 6 - HTW. Site 6 was near the Gambell school. It contained a stack of empty drums (Photos 25 and 26). Local residents said these drums were excavated from the site where the school was constructed.
- Site 8 - Metal Debris. This site included all of the area west of Troutman Lake between the contractor's main staging area on the south beach and the container staging area on the north beach. As shown in Photo 27, this site contained an unknown quantity of metal runway matting. In some areas, the matting was fully exposed. In other areas it was covered with up to 1 ft of gravel. (Based on comments from Gambell residents, the metal runway matting presents a safety hazard for persons operating 4-wheel ATVs during reduced visibility resulting from fog or blowing snow.)

Site 8 also included a large metal sled (Photo 33), drums containing asphalt and a small steam boiler.

- Site 10 - HTW. Hundreds of empty 55-gallon drums were located in this site (Photo 41). Based on comments from local workers, Gambell residents strategically placed many of the drums so they would serve as trail markers for persons traveling to remote camps. The terrain throughout most of Site 10 consisted of wet tundra that could not be crossed with trucks or heavy equipment.
- Site 12 - HTW. This site was on the road system at the south end of Troutman Lake. It included dozens of drums, batteries, dried paint and miscellaneous metal debris (Photos 43 through 48). Most of the drums were punctured. This along with large soil stains suggests that some of the drums were allowed to drain at Site 12.
- Site 13 - HTW. Site 13 was also on the road system at the south end of Troutman Lake. It contained a few drums and several small pieces of metal debris.

4.4 Project Equipment

The following equipment was mobilized from other areas to Gambell, Alaska, for project support:

- Crew Transportation. Two 4-wheel ATVs, two track-mounted Argos and one crew cab 4-wheel drive Ford pickup truck were shipped from Anchorage to Gambell by barge for crew transportation. Four additional Argos were shipped to the project site by air freight. Two additional 4-wheel ATVs were transported to the island by barge from Nome, Alaska.

- Soil and Debris Hauling. One Nodwell track-mounted vehicle along with the pickup truck was mobilized for hauling soil, HTW and debris at the project site.
- Heavy Equipment. A backhoe was leased from the Gambell Public Works Department (PWD) for excavating soil and loading items into connex containers. A 966 front-end loader was leased from a local construction company for moving empty connex containers and placing metal on the Nodwell. A 973 dozer with forks was leased from the Gambell PWD for moving connex containers filled with metal debris, soil or HTW to a location where they could be placed on a barge for demobilization.
- Fuel for Equipment. Gasoline and diesel fuel were purchased from the Gambell Native Store. Once during this project, the store ran out of fuel. The fuel barge to Gambell was delayed for a week by high winds. (It was possible to continue project activities because several drums of fuel were included with the equipment mobilized from Anchorage.)
- Miscellaneous Equipment. A pressure washer, drum crusher, demolition saws, cutting torches, pumps, scales, plastic fencing, hand tools, personal protective equipment, plastic liners, first aid equipment and sorbent materials were mobilized from Anchorage. Field screening and sampling equipment were also shipped from Anchorage.

4.5 Clearing and Grubbing

No clearing or grubbing was required for this project.

4.6 Metal Debris Removal

Table 1 summarizes the metal debris removed from Gambell, Alaska, under Delivery Order No. 0004. This debris was characterized as follows:

- Metal Runway Matting. About 67 percent of the debris (95,290 pounds) consisted of metal runway matting from Site 8. Prior to removing this material from the ground, workers used demolition saws and propane torches to cut it into sections that could be lifted with a 966 front-end loader. Following this, the loader placed the sections on a Nodwell which hauled them to a lay down area (Photos 28 through 30). At this location, the matting was cut into smaller sections (if required), weighed by an electronic scale and placed in connex shipping containers.

While work was in progress, energized electrical power cables were discovered on the east side of the Gambell airport runway (Photo 32). To avoid problems, the government instructed OSCI to leave the matting in place (1,820 linear feet) near the cable. Based on visual observation, less than 50 percent of the metal matting in Site 8 was removed during this project.

- Metal Sled. A 12,800 pound sled was removed from Site 8. It was cut into pieces, weighed and placed on a shipping flat for transportation from Gambell to Seattle, Washington.

Table 1

Summary of Metal Debris Quantities Removed from Gambell, Alaska
Delivery Order No. 0004, Contract No. DACA85-97-D-0010

Project Site	Debris Quantity Estimated by Delivery Order (Pounds)	Actual Quantity of Debris Removed (Pounds)
2	1,600	0
3	770	1,880
4/Area 4A	5,410	12,348
4/Area 4B	905	1,052
4/Area 4D	1,000	6,968
5	315	6,268
Between 5 and 3	55	1,441
6	350	1,748
7	150	0
8	115,000	108,090
10	1,300	1,388
12	10	798
13	300	343
Total	127,255	142,324

Notes:

1. Scale tickets showing field weights for metal debris are provided in Appendix B.
2. Metal debris was shipped from Gambell, Alaska, to Rabanco Recycling in Seattle, Washington for disposal. Manifests are provided in Appendix C.

- Cable, Wire and Weasel Tracks. A total of 13,866 pounds of miscellaneous metal debris consisting of wire, cable, cable spools, weasel tracks and a steam boiler were collected from Sites 3, 5, 6, 10, 12 and 13. These items were placed in trailers pulled by ATVs and hauled to a lay down area for weighing, cutting and placement in connex containers.
- Quonset Hut Debris and Metal Siding. Debris from Site 4 (Areas 4A, 4B and 4D) included 20,368 pounds of metal framing and siding from Quonset huts on Sevuokuk Mountain. This material was manually removed from the ground and placed in trailers. Afterward, the trailers were pulled down the mountain by Argos (Photos 15 through 17). When the Argos reached the access road around Troutman Lake, the debris was transferred to a pickup truck and transported to a lay down area for weighing, cutting and placement in connex containers (Photos 18, 34 and 36).

4.7 Hazardous and Toxic Waste (HTW) Removal

Table 2 lists the HTW quantities removed from each site at Gambell. For this project, HTW included fuel tanks, generators, engine blocks, asphalt, batteries, paint and empty drums previously containing unidentified materials.

Under the original scope of work, OSCI was required to remove 16,140 pounds of HTW from Gambell. A modification issued by USAEDA, increased the HTW quantity to 53,738 pounds. This material was transported from the project site under the following U.S. DOT approved shipping names:

- Hazardous Waste, Solid, N.O.S. 9, NA3077, PG III, (D008). Shovels were used to remove stained soil (601 pounds) from areas at Site 12 that previously contained batteries. This soil was placed in a 55-gallon drum. Based on laboratory results which identified high lead levels, it was shipped to Burlington Environmental Services in Seattle, Washington as Line Item 11.a. on Manifest GAM02.
- Waste Tars, Liquid, 3, UN 1999, PG II, (D001). Nine drums of asphalt were removed from Site 8. Each drum was placed in an 85-gallon overpack container and shipped to Burlington Environmental Services in Seattle, Washington for disposal. The total weight for these drums (4,458 pounds) was noted in Line Item 11. b. on Manifest No. GAM02.
- Hazardous Waste, Solid, N.O.S. 9, NA3077, PG III, (D008). Five 5-gallon cans of dried paint (378 pounds) were found in Site 12. They were placed in an 85-gallon overpack and shipped to Burlington Environmental Services as Line Item 11.c. on Manifest GAM02.
- Environmentally Hazardous Substances, Solid, N.O.S. 9, UN3077, PG III (D008). Several deteriorated lead acid batteries were found at Site 12. Personnel wearing Level "C" personal protective equipment (PPE) packaged the batteries (619 pounds) in a plastic fish tote. Following this, the batteries were shipped to Burlington Environmental Services as Line Item 11.d. on Manifest GAM02.

Table 2

Summary of HTW Quantities Removed from Gambell, Alaska
Delivery Order No. 0004, Contract No. DACA85-97-D-0010

Project Site	Debris Quantity Estimated by Delivery Order (Pounds)	Actual Quantity of Debris Removed (Pounds)
2	20	0
3	600	1,150
4/Area 4A	2,140	2,424
4/Area 4B	2,230	1,764
4/Area 4D	0	6,008
5	0	470
Between 5 and 3	100	0
6	0	7,897
7	0	0
8	6,200	12,807
10	2,300	12,516
12	2,550	8,702
13	0	0
Total	16,140	53,738

Notes:

1. Scale tickets showing field weights for metal debris are provided in Appendix B.
2. Metal debris was shipped from Gambell, Alaska, to Burlington Environmental in Seattle, Washington for disposal. Manifests are provided in Appendix C.

- Non-RCRA Waste Solid. About 450 drums (including drum parts) were collected from Sites 3, 4A, 4D, 6, 8, 10 and 12. Prior to being moved, each drum was inspected by experienced HAZMAT personnel to discern which ones contained compatible materials or required special handling to prevent spills.

Most of the drums were previously punctured (by an unknown party) or contained openings caused by natural deterioration. As a result, all of the drums were either empty or contained only a few ounces of rainwater. For all sites except Sites 4 and 10, the drums were placed on the back of a pickup truck (Photo 46) and transported to a staging area where they were placed on a liner, cleaned, crushed and weighed (Photo 34). Following this, they were placed in a connex shipping container.

Drums in Sites 4 and 10 were placed in trailers towed by ATVs. Once the drivers reached the road system, the drums were transferred to a pickup truck and transported to a staging area for cleaning, crushing, weighing and packaging.

All drums were shipped to Rabanco Recycling in Seattle, Washington, on Manifests GAM01, GAM12, GAM13, GAM14 and GAM15. Empty transformers, engine blocks and generators were also shipped to Rabanco Recycling as Non-RCRA Waste Solid on Manifest No. GAM12. (Laboratory testing revealed that the transformers did not contain PCBs. The engine blocks and generators did not contain fuel, fluid or lubricating oil.)

4.8 Stained Soil Removal

Based on visual inspections, stained soil was identified at the following locations:

Site	Soil Removed (Pounds)
2	24,982
4/Area 4A	1,877
4/Area 4D	463
8	4,790
10	540
12	7,237

At Site 2, dark stains were limited to an area surrounding a large boulder (Photos 7 through 9). Heavy oil stains were present 3 ft. below grade at the base of the boulder. At 30 ft. from the boulder, the stains were 8 inches below the surface.

After OSCI filled 24 supersacks with oil stained gravel (24,982 pounds) from Site 2, the government's on-site Quality Assurance Representative (QAR) suspended further excavation pending clarification as to whether sufficient material should be removed to obtain site closure under Alaska's oil pollution regulations.

After reviewing an environmental investigation for Gambell, Alaska, the QAR determined that Site 2 was previously identified as an oil spill site and should not have been listed as a stained soil site under Task Order No. 0004. Comments from local workers revealed that the petroleum stain at this site probably resulted from oil that was drained from ATVs by Gambell residents. In view of this, the QAR directed OSCI not to remove any more stained gravel from this location.

The 24 supersacks of stained gravel from Site 2 were identified as a Non-RCRA Waste Solid and shipped to Rabanco Recycling in Seattle, Washington for landfill disposal.

At Site 4 (Areas 4A and 4D), Site 8, Site 10, and Site 12, shovels were used to scrape stains from the ground. The soil from each site was placed in a separate supersack. After the supersacks were weighed, the soil was shipped to Rabanco Recycling as a Non-RCRA Waste Solid under Manifests GAM01, GAM09, GAM10, and GAM11.

4.9 Contaminated Soil Removal

Reference Drawing No. HTW-3 provided in the scope of work for Task Order 0004 was used to locate the contaminated soil at Site 4/Area 4B on Sevuokuk Mountain. Following the dimensions provided in this drawing, spray paint was used to mark this oval shaped area which had a maximum length of 36.6 ft. and a maximum width of 29.0 ft.

The surface soil at Site 4/Area 4B had a uniform brownish color. There were no significant stains indicating a spill occurred at this location. After excavation began, a strong odor came from the soil. Between the boulders in the excavated area, the soil was black and had an oily film.

Based on field measurements, 103,885 pounds of contaminated soil was removed from the designated area at Site 4/Area 4B. The excavation depth after removing this soil, ranged from 22 to 24 inches below grade.

Large boulders in this site made it impossible to use heavy equipment for soil excavation. As shown in Photos 19 through 24, HAZMAT certified workers used shovels to place the soil in 50-pound sand bags. Following this, the sand bags were placed in track-mounted Argos and hauled down the mountain to the access road on the east side of Troutman Lake. Here, they were transferred to a pickup truck and taken to a lay down area where they were placed in supersacks and weighed. When the weight was recorded, the supersacks were placed in connex containers.

Chemical Waste Management of the Northwest (CWMN) in Arlington, Oregon, agreed to accept the Site 4/Area 4B soil for landfill disposal. After reviewing laboratory data provided by OSCI, CWMN designated the soil as "Hazardous Waste, Solid, N.O.S. (D008), 9, NA3077, PGIII."

Manifests GAM03, GAM04, GAM05, GAM06, GAM07 and GAM08 were used to ship the soil to CWMN. Block 11.j. on the manifests identified dioxin as one of the contaminants in the soil. (Manifest copies are provided in Appendix C.)

Contaminated soil was also removed from Site 12. Several deteriorated lead-acid batteries were located at this site. As shown in Table 6, laboratory analysis revealed that the TCLP lead in the soil under the batteries was 1,450 mg/L. Since this exceeded the 5.0 mg/L regulatory

limit for TCLP lead established by 40 CFR261.24, shovels were used to remove 601 pounds of soil from the areas that previously contained batteries. The soil was placed in a 55-gallon metal drum and shipped to Burlington Environmental Services in Seattle, Washington as Line Item 11.a. on Manifest No. GAM02.

4.10 Weights and Measurements

An electronic scale certified by the Alaska Department of Transportation and Public Facilities was used to weigh metal debris, HTW and soil removed from the project site (Photo 34). As each item was weighed, the scale reading was recorded on a separate weigh ticket (Photo 35). Copies of the weigh tickets are provided in Appendix B. Each ticket has a unique identification number and shows the source and description of the item weighed. The tickets also provide the gross weight, tare weight and net weight for the items weighed. Along with this, the weigh ticket identifies the container that was used to ship the waste.

Throughout this project, weights and measurements were repeatedly checked by OSCI's Quality Control System Manager and the government's QAR.

4.11 Waste Shipment and Disposal

Manifests were used to document and track waste movement from Gambell, Alaska, to designated disposal facilities in the Lower-48 states. Table 3 summarizes the manifests used for this project. A copy of each manifest is provided in Appendix C.

4.12 Site Restoration

Repeated trips to remove contaminated soil from Sevuokuk Mountain destroyed the grass and created ruts in the tundra at the base of the mountain (Site 10). Argos with flat tracks were used to smooth out the ruts. After completing this, local workers placed 210 pounds of grass seed (50 percent Tufted Hairgrass, 40 percent Arctic Fescue, and 10 percent Annual Rye) and 3,850 pounds of fertilizer (20-20-10) to restore the damaged area. (Prior to placement, the seed mix and fertilizer were approved by USAEDA.)

Based on a request from local residents and approval from Sivuqaq Incorporated, OSCI did not install silt fences as part of its tundra restoration program. Local residents on OSCI's work crew said that silt fence should not be placed because it would create safety hazards for personnel traveling through the area on 4-wheel ATVs and snowmobiles. They believe high winds would blow the silt fence over the tundra. Following this, the filter fence fabric would cause accidents if it was tangled in the moving parts on their snowmobiles and ATVs.

4.13 Daily Quality Control Reports

Daily quality control reports (DQCRs) are summarized in Table 4. A copy of these reports is provided in Appendix D.

4.14 Safety and Health Summary

A total of 5,629 man-hours were required to complete this project. There were no accidents, spills, or equipment failures. A copy of the Safety and Health Phase-Out Report for this project is provided in Appendix H.

Table 3

Manifest Tracking Log

Debris Removal and Containerized Hazardous and Toxic Waste Removal

Gambell, Alaska

Delivery Order No. 0004, Contract No DACA85-97-D-0010

Manifest Number	Waste Description	Weight (Pounds)	Connex Number	Shipping Date	Disposal Facility	Receipt Date
GAM01	Non-RCRA Waste Solid (POL Soil) Non-RCRA Waste Solid (Drums)	1,877 8,089	299327	8-26-99	Rabanco Recycling Seattle, Washington	11-11-99
GAM02	Hazardous Waste, Solid (Soil w/Lead) Waste Tars, Liquid Hazardous Waste, Solid (Paint) Environmentally Hazardous Substances, Solid (Batteries)	601 4,458 378 619	299264	8-26-99	Burlington Environmental Seattle, Washington	11-10-99
GAM03	Hazardous Waste, Solid, D008 (lead contaminated soil) <i>(Soil also contains Dioxin)</i>	18,996	205676	8-26-99	Chemical Waste Manage Arlington, Oregon	11-10-99
GAM04	Hazardous Waste, Solid, D008 (lead contaminated soil) <i>(Soil also contains Dioxin)</i>	18,324	205563	8-26-99	Chemical Waste Manage Arlington, Oregon	11-10-99
GAM05	Hazardous Waste, Solid, D008 (lead contaminated soil) <i>(Soil also contains Dioxin)</i>	17,749	259176	8-26-99	Chemical Waste Manage Arlington, Oregon	11-15-99
GAM06	Hazardous Waste, Solid, D008 (lead contaminated soil) <i>(Soil also contains Dioxin)</i>	15,505	259232	8-26-99	Chemical Waste Manage Arlington, Oregon	11-09-99
GAM07	Hazardous Waste, Solid, D008 (lead contaminated soil) <i>(Soil also contains Dioxin)</i>	16,830	299272	8-26-99	Chemical Waste Manage Arlington, Oregon	11-10-99
GAM08	Hazardous Waste, Solid, D008 (lead contaminated soil) <i>(Soil also contains Dioxin)</i>	17,263	205326	8-26-99	Chemical Waste Manage Arlington, Oregon	11-09-99
GAM09	Non-RCRA Waste Solid (POL Soil)	15,796	201570	8-26-99	Rabanco Recycling Seattle, Washington	11-17-99

Table 3 (Continued)

Manifest Tracking Log

Debris Removal and Containerized Hazardous and Toxic Waste Removal
Gambell, Alaska
Delivery Order No. 0004, Contract No DACA85-97-D-0010

Manifest Number	Waste Description	Weight (Pounds)	Connex Number	Shipping Date	Disposal Facility	Receipt Date
GAM10	Non-RCRA Waste Solid (POL Soil)	7,460	299235	8-26-99	Rabanco Recycling Seattle, Washington	11-11-99
GAM11	Non-RCRA Waste Solid (POL Soil)	14,741	205784	8-26-99	Rabanco Recycling Seattle, Washington	11-11-99
GAM12	Non-RCRA Waste Solid (Drums)	9,865	201216	8-26-99	Rabanco Recycling Seattle, Washington	11-16-99
GAM13	Non-RCRA Waste Solid (Drums)	9,047	205755	8-26-99	Rabanco Recycling Seattle, Washington	11-11-99
GAM14	Non-RCRA Waste Solid (Drums)	12,048	201291	8-26-99	Rabanco Recycling Seattle, Washington	11-14-99
GAM15	Non-RCRA Waste Solid (Drums)	9,544	100685	8-26-99	Rabanco Recycling Seattle, Washington	11-11-99
GAM16	Non-RCRA Waste Solid (Drums)	12,800	024754	8-26-99	Rabanco Recycling Seattle, Washington	11-15-99
GAM17	Material Not Regulated by DOT (Scrap Metal)	15,880	201622	8-26-99	Rabanco Recycling Seattle, Washington	11-16-99
GAM18	Material Not Regulated by DOT (Scrap Metal)	6,498	299153	8-26-99	Rabanco Recycling Seattle, Washington	11-16-99
GAM19	Material Not Regulated by DOT (Scrap Metal)	9,531	205255	8-26-99	Rabanco Recycling Seattle, Washington	11-12-99

Table 3 (Continued)

Manifest Tracking Log

Debris Removal and Containerized Hazardous and Toxic Waste Removal
Gambell, Alaska
Delivery Order No. 0004, Contract No DACA85-97-D-0010

Manifest Number	Waste Description	Weight (Pounds)	Connex Number	Shipping Date	Disposal Facility	Receipt Date
GAM20	Material Not Regulated by DOT (Scrap Metal)	12,460	100716	8-26-99	Rabanco Recycling Seattle, Washington	11-12-99
GAM21	Material Not Regulated by DOT (Scrap Metal)	8,778	261068	8-26-99	Rabanco Recycling Seattle, Washington	11-12-99
GAM22	Material Not Regulated by DOT (Scrap Metal)	7,725	201278	8-26-99	Rabanco Recycling Seattle, Washington	11-16-99
GAM23	Material Not Regulated by DOT (Scrap Metal)	11,769	201448	8-26-99	Rabanco Recycling Seattle, Washington	11-17-99
GAM24	Material Not Regulated by DOT (Scrap Metal)	12,980	201153	8-26-99	Rabanco Recycling Seattle, Washington	11-12-99
GAM25	Material Not Regulated by DOT (Scrap Metal)	6,253	299074	8-26-99	Rabanco Recycling Seattle, Washington	11-09-99
GAM26	Material Not Regulated by DOT (Scrap Metal)	12,465	201124	8-26-99	Rabanco Recycling Seattle, Washington	11-17-99
GAM27	Material Not Regulated by DOT (Scrap Metal)	12,169	259042	8-26-99	Rabanco Recycling Seattle, Washington	11-12-99
GAM28	Material Not Regulated by DOT (Scrap Metal)	13,016	200256	8-26-99	Rabanco Recycling Seattle, Washington	11-11-99

Table 4

Summary of Contractor Quality Control Reports
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order No. 0004, Contract No. DACA85-97-D-0010

Report	Date	Temp (°F)	Wind (Knots)	Significant Events and Remarks
1	7-6-99	40 to 50	15	Offloaded equipment from barge and located Sites 2,3,8,10, 12, and 13.
2	7-7-99	40 to 50	15	Set up field offices and continued reconnaissance for project sites.
3	7-8-99	40 to 50	10	Loose gravel on north beach and in village make these locations unsuitable for project operating areas.
4	7-9-99	38 to 53	5	Worked with local personnel to identify rental equipment for project support.
5	7-10-99	39 to 55	15	Located excavation area in Site 4. Located debris in Sites 4 and 10. Discovered that trails to these sites did not exist. Site 4 contains large boulders which prevent vehicle access. Site 10 contains wet tundra which limits access to track-mounted vehicles.
6	7-11-99	40 to 51	Calm	Continued local investigation of local rental equipment.
7	7-12-99	40 to 50	Calm	Decided to set up work site at south beach due to stable gravel at this location. Requested Federal Aviation Administration (FAA) in Nome to provide locates for buried electrical cables supporting runway navigational aids.
8	7-13-99	39 to 48	Calm	Light rain and fog. Continued setting up work site on south beach. Front-end loader was stuck in loose gravel. Rented 966 dozer to free front-end loader.
9	7-14-99	43 to 48	3	Light rain and fog. Hired three local workers. Unpacked and inspected tools.
10	7-15-99	46 to 48	Calm	Rain. QAR and Project Manager arrived and inspected difficult travel conditions in Sites 4 and Site 10.
11	7-16-99	43 to 48	15	Collected and stockpiled metal debris at Site 8. Contractor sent letter to FRO identifying differing conditions in Site 4 and Site 10. Mechanic from Anchorage made Nodwell repairs.
12	7-17-99	43 to 48	33	Nodwell placed in service. Live FAA power cable discovered in Site 8 near airport runway. Work was terminated for 1,820 linear feet metal runway matting to avoid contact with live cable.

Table 4 (Continued)

Summary of Contractor Quality Control Reports
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order No. 0004, Contract No. DACA85-97-D-0010

Report	Date	Temp (°F)	Wind (Knots)	Significant Events and Remarks
13	7-18-99	43 to 47	28	Continued to stockpile metal debris in Site 8. Set up scale for weighing debris.
14	7-19-99	43 to 47	28	Continued stockpiling and weighing metal debris in Site 8. QAR suspended heavy debris removal, cutting and equipment operation near buried cable in Site 8. FRO approved use of non-HAZMAT trained local workers for metal debris handling. Four samples were collected for waste characterization.
15	7-20-99	47 to 52	21	Sunny. Removed HTW and stained soil from Site 12. Collected sample for waste characterization.
16	7-21-99	43 to 49	10	Completed removal for Site 12. Continued debris removal and weighing in Site 8.
17	7-22-99	39 to 47	25	Light rain. Removed HTW and stained soil from Site 8. Completed debris removal from Site 13. Shipped two additional Argos to project site. QAR defined steep mountain slopes as "Off-Limit" for project activities.
18	7-23-99	45 to 47	36	Blowing rain. Removed drums from Site 6. Completed debris from Sites 2 and 3. Since metal debris was left in place in Site 8 to avoid contact with buried power cables, contractor was authorized to remove metal debris from the archeological area located near the northern end of Site 8.
19	7-24-99	42 to 47	21	Light rain. Started stained soil removal in Site 2. QAR suspended soil removal at this site because previous environmental investigation said it was an oil spill site. (This information was not included in the scope of work for Delivery Order No. 0004.) Identified route through Site 10 to work sites on mountain.
20	7-25-99	45 to 47	3	Weighed and loaded stockpiled debris. CQC issued deficiency tracking report due to placement of drums with petroleum odor in connex container and failure to remove tops from empty drums.

Table 4 (Continued)

Summary of Contractor Quality Control Reports
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order No. 0004, Contract No. DACA85-97-D-0010

Report	Date	Temp (°F)	Wind (Knots)	Significant Events and Remarks
21	7-26-99	45 to 48	8	Light rain and fog. Hired four additional local workers. Work continued for identifying acceptable route to project sites on mountain top. 7-25-99 deficiencies for connex containers were corrected.
22	7-27-99	45 to 48	8	Light rain and fog. Established camp on mountain top. Since 4-wheel and 8-wheel ATVS were causing damage to tundra, it was agreed to limit tundra traffic to track-mounted vehicles.
23	7-28-99	43 to 47	20	Light rain and fog. Removed debris from Site 5. Stockpiled debris from Quonset huts
24	7-29-99	44 to 46	35	Light rain and fog. Collected and stockpiled debris at Site 4, Areas 4A and 4B.
25	7-30-99	42 to 46	17	Light rain and fog. Hand digging started for removing 52 tons of contaminated soil from mountain top. Two additional Argos were mobilized to the job site.
26	7-31-99	44 to 46	15	Light rain and fog. Continued soil excavation at Site 4, Area 4B.
27	8-01-99	44 to 47	15	Light rain and fog. Continued soil excavation at Site 4. Used 973 track loader to stage full connex containers for barge pickup.
28	8-02-99	44 to 47	15	Cloudy. Transported excavated soil to staging area.
29	8-03-99	44 to 47	25	Rain. Weighed and loaded debris from Sites 4A and 4D. Terminated work on mountain due to poor weather conditions.
30	8-04-99	44 to 47	35	No work due to poor weather conditions.
31	8-05-99	46 to 48	35	Wind and rain. Transported, weighed and loaded HTW and contaminated soil. Located Navy cable.
32	8-06-99	46 to 48	15	Wind and rain. Continued removal, weighing and loading contaminated soil. QAR ruled that drums excavated by other contractors would not be included in scope of work for this delivery order. Archeological area debris in Site 8 removed today.

Table 4 (Continued)

Summary of Contractor Quality Control Reports
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order No. 0004, Contract No. DACA85-97-D-0010

Report	Date	Temp (°F)	Wind (Knots)	Significant Events and Remarks
33	8-07-99	44 to 46	15	Cloudy. Continued removal, weighing and loading contaminated soil. Moved loaded connex containers to north beach. Sites 2, 3, 6, 7, 12 and 13 offered to QAR for final inspection.
34	8-08-99	46 to 48	15	Site 4 (mountain top) continues to experience heavy fog. Continued removal, weighing and loading contaminated soil. Collected 2 miles of Navy cable.
35	8-09-99	44 to 44	31	Heavy fog at mountain top. Continued removal, weighing and loading contaminated soil. Maintenance problems with Argos increasing.
36	8-10-99	44	16	Light rain. Fog at mountain top. Hauled excavated soil down mountain to staging area for weighing. Moved loaded connex containers to north beach.
37	8-11-99	44 to 46	15	QAR inspected and approved Sites 2, 6, 7, 12, and 13. Small debris needs to be removed from Site 3. Weighed contaminated soil.
38	8-12-99	41 to 44	15	Fog limited visibility and prevented plane with Resident Engineer from landing. Removed HTW and debris from archeological area in Site 8. Completed contaminated soil excavation. Picked up Navy cable.
39	8-13-99	44 to 46	15	Removed Navy shack. QAR issued final punch list for inspected sites.
40	8-14-99	44 to 46	15	Fog on mountain top. Confirmation samples collected. Site demobilization started.
41	8-15-99	44 to 46	15	Cleaned up staging areas.
42	8-16-99	44 to 46	20	Placed fertilizer and seed on tundra.
43	8-17-99	44 to 46	10	Completed fertilizing and seeding tundra. All site work completed. In response to request from local workers and approval by local corporation, no silt fence was installed.

5.0 SAMPLE COLLECTION AND LABORATORY RESULTS

5.1 Data Quality Objectives

The following data quality objectives (DQO) were established for this delivery order:

- DQO -1: Waste Characterization. Perform sufficient hazardous categorization to avoid consolidating incompatible waste streams or mixing waste with different chemical or physical characteristics.
- DQO -2: Obtain Data to Meet EPA Requirements for HTW Identification. Under Titles 40 and 49 of the Code of Federal Regulations (CFR), a chemical description of the contaminants must be provided before HTW can be: 1) transported over public highways or 2) accepted by an EPA-approved disposal facility. To satisfy this DQO, a separate composite sample will be collected from each site with stained soil and analyzed for TCLP metals, semi-volatile organics, volatile organics, halogenated organics, petroleum hydrocarbons, pesticides, herbicides, PCBs, and reactivity. The analytical results will be used to prepare hazardous waste profiles which will be submitted to disposal facilities for waste acceptance. The results will also be used to identify the proper EPA waste codes and shipping names from the Code of Federal Regulations.
- DQO -3: Identify PCB Level for Transformers. Under the Toxic Substance Control Act, PCBs at concentrations equal to or greater than 50 parts per million (ppm) are regulated as PCB waste by the federal government. Under 18 AAC 75.341, Method 2, the State of Alaska regulates PCB contamination in soil when concentrations exceed 1 mg/kg in surface soil or 10 mg/kg in subsurface soil. For this DQO, discrete samples will be collected from liquids that are in the transformers. If the transformers are dry, wipe samples will be collected from the interior walls. The analytical results will be used to prepare profiles which will be submitted to the disposal facilities for waste acceptance. They will also be used to identify the proper EPA waste codes and shipping names from the Code of Federal Regulations.
- DQO -4: Residual Contaminant Confirmation Sampling. To satisfy this DQO, samples will be collected from contaminated soil and stained soil areas to identify residual contaminant levels after the specified soil quantities are excavated.

5.2 Waste Characterization

To assure proper handling, each drum at the project site was inspected by experienced hazardous waste technicians provided by OSCI and Philip Environmental Services (PES). The objective was to determine which drums: 1) required special handling to prevent spills during movement at the project site and 2) could be consolidated for waste transportation and disposal.

Approximately 460 drums were found. The drums at Sites 3 and 6 were empty and dry (containing no film or residue). Four drums at Site 4 were filled with gravel. Other drums at this location were empty and dry. Nine drums at Site 8 were filled with solidified asphalt.

Site 10 contained wet tundra. Most of the drums at this location were punctured and standing in 6 to 12 inches of clear water. An inspection revealed that the drums contained several inches of tundra water. This water quickly drained from the drums as they were removed from the tundra.

At Site 12, five drums were filled with household trash. The other drums at this location were empty.

All empty drums were taken to a processing station and temporarily stored in a cell containing a 20-millimeter (mm) high-density polyethylene (HDPE) liner. Following this, they were crushed, weighed, placed in connex containers (Photos 34 and 36) and shipped to Rabanco Recycling in Seattle, Washington, for disposal. (No liquid waste was generated by this process.)

The drums containing asphalt were placed in overpack containers and shipped to Burlington Environmental as a hazardous waste. Trash from the Site 12 drums was placed in supersacks and shipped to Rabanco Recycling for disposal.

5.3 Samples for Waste Identification

5.3.1 Soil Samples

Soil samples for waste identification were collected from the following locations:

- Site 8. Sample 99-GAM-001-SL was collected from a supersack filled with oil stained soil from Site 8. As shown in Table 5, DRO and RRO levels for this soil were 2,380 and 13,500 mg/kg, respectively. No PCBs were detected. Pesticides were 0.0486 µg/L. As shown in Table 6, no TCLP metals were detected for this sample. (Sample locations are shown in Figures 3 through 8.)
- Site 12. Samples 99-GAM-002-SL and 99-GAM-003-SL were collected from separate oil stained areas at Site 12. Although both samples had relatively low DRO and RRO levels, Sample 99-GAM-003-SL contained TCLP lead at 1,450 mg/L (Table 6). In view of this, soil from stained areas that contained batteries was placed in separate supersacks and given a "D008" EPA waste code to identify the lead content.
- Site 2. Sample 99-GAM-004-SL was collected from an oil stained area at Site 2. Laboratory results (Table 5) revealed, that the GRO, DRO, RRO levels for this sample were 309 mg/kg, 6,440 mg/kg and 388 mg/kg, respectively. No metals were detected in this sample.
- Site 4. Sample 99-GAM-005-SL (a composite sample) was collected from the contaminated soil at Site 4/Area 4B. Based on analytical results, this area contained DRO and RRO at 469 mg/kg and 2,110 mg/kg (Table 5), respectively. As shown in Table 7, dioxin levels for this sample ranged from 3.1 to 1,880 parts per trillion (ppt). The TCLP lead for this sample was 11.7 mg/L. Since this exceeds the 5 mg/L regulatory threshold for lead in 40 CFR 261.30, the soil excavated from Site 4 was given a "D008" EPA waste code to identify it as a lead contaminated waste.

Table 5

Waste Identification Sample Results Summary for Organics
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010
 Gambell, Alaska

No.	Sample Identification	Date	Site	GRO AK101 (mg/kg)	DRO AK102 (mg/kg)	RRO AK103 (mg/kg)	Maximum VOA EPA 8260 (mg/L)	Maximum SVOA EPA 8270 (mg/L)	Maximum PCB EPA 8082 (µg/L)	Maximum Pesticide EPA 8081A (µg/L)	Maximum Herbicide EPA 8150 (mg/L)
1	99-GAM-001-SL	7/19/99	8	U (1.95)	2,380	13,500	U (0.10 - 0.50)	U (0.017)	U (0.179)	0.0486	U (0.010)
2	99-GAM-002-SL	7/19/99	12	9.55	140	230	U (0.10 - 0.50)	U (0.018)	U (0.190)	U (0.0190 - 1.90)	U (0.010)
3	99-GAM-003-SL	7/19/99	12	U (2.75)	47.2	136	U (0.10 - 0.50)	U (0.015)	U (0.151)	U (0.151 - 1.51)	U ((0.010)
4	99-GAM-004-SL	7/19/99	2	309	6,440	388	U (0.10 - 0.50)	U (0.014)	U (0.105)	U (0.0105 - 1.05)	U (0.010)
5	99-GAM-005-SL	7/19/99	4/4B	3.73	469	2,110	U (0.10 - 0.50)	U (0.022)	U (0.279)	U (0.0279 - 2.79)	U (0.010)
6	99-GAM-006-W	7/28/99	4	NR	NR	NR	NR	NR	U (1.00)	NR	NR
7	99-GAM-007-W	7/28/99	4	NR	NR	NR	NR	NR	U (1.00)	NR	NR
8	99-GAM-008-W	7/28/99	4	NR	NR	NR	NR	NR	U (1.00)	NR	NR
Regulatory Limit - 18 AAC 75.341, Method 2				300	250	11,000					

Notes:

- | | |
|---|---|
| <p>3. mg/kg means milligrams per kilogram.
 4. mg/L means milligrams per liter.
 5. µg/L means micrograms per liter.
 6. "NR" means no analyses performed by the laboratory.
 7. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 8. "W" means the sample was a wipe sample.
 7. Laboratory data reports are provided in Appendix F.
 8. Numbers printed in boldface exceed regulatory limits.</p> | <p>9. TCLP extraction by EPA 1311 was performed for VOA, SVOA, PCB, Pesticides and Herbicides.
 10. See Table 5A in Appendix E for VOA analyte results.
 11. See Table 5B in Appendix E for SVOA analyte results.
 12. See Table 5C in Appendix E for PCB analyte results.
 13. See Table 5D in Appendix E for pesticides analyte results.
 14. See Table 5E in Appendix E for herbicides analyte results.
 15. Sample 99-GAM-005-SL is a composite sample. Other samples are discrete samples.</p> |
|---|---|

Table 6

Waste Identification Sample Results for TCLP Metals
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010
 Gambell, Alaska

No.	Sample Identification	Date	Site	Arsenic EPA 7060 (mg/L)	Barium EPA 6010 (mg/L)	Cadmium EPA 6010 (mg/L)	Chromium EPA 6010 (mg/L)	Lead EPA 6010 (mg/L)	Mercury EPA 7470 (mg/L)	Selenium EPA 7740 (mg/L)	Silver EPA 7760 (mg/L)
1	99-GAM-001-SL	7/19/99	8	U (0.00500)	U (0.100)	U (0.200)	U (0.100)	U (1.00)	U (0.00200)	U (0.00500)	U (0.100)
2	99-GAM-002-SL	7/19/99	12	0.192	2.12	U (0.200)	0.145	U (1.00)	U (0.00200)	U (0.00500)	U (0.100)
3	99-GAM-003-SL	7/19/99	12	0.552	0.279	U (0.200)	U (0.100)	1,450	U (0.00200)	U (0.00500)	U (0.100)
4	99-GAM-004-SL	7/19/99	2	U (0.00500)	U (0.100)	U (0.200)	U (0.100)	U (1.00)	U (0.00200)	U (0.00500)	U (0.100)
5	99-GAM-005-SL	7/19/99	4/4B	U (0.00500)	7.55	0.211	U (0.100)	11.7	U (0.00200)	U (0.00500)	U (0.100)
Regulatory Limit - 40 CFR 261.30, Table 1				5.0	100.0	1.0	5.0	5.0	0.2	1.0	5.0

33

Notes:

1. mg/L means milligrams per liter.
2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
3. Laboratory data reports are provided in Appendix F.
4. TCLP extraction by EPA 1311 was performed for TCLP metals.
5. Numbers printed in boldface exceed regulatory limits.

Table 7

Waste Identification Results for Dioxin
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010
 Gambell, Alaska

Analytes	Sample 99-GAM-005-SL EPA 8290 (ppt)
2,3,7,8-TCDD	3.1
1,2,3,7,8-PeCDD	18.0
1,2,3,4,7,8-HxCDD	23.7
1,2,3,6,7,8-HxCDD	53.7
1,2,3,7,8,9-HxCDD	81.0
1,2,3,4,6,7,8-HpCDD	490
1,2,3,4,6,7,8,9-OCDD	1250
2,3,7,8-TCDF	272
1,2,3,7,8-PeCDF	53.2
2,3,4,7,8-PeCDF	143
1,2,3,4,7,8-HxCDF	539
1,2,3,6,7,8-HxCDF	152
2,3,4,6,7,8-HxCDF	367
1,2,3,7,8,9-HxCDF	8.3
1,2,3,4,6,7,8-HpCDF	1120
1,2,3,4,7,8,9-HpCDF	72.7
1,2,3,4,6,7,8,9-OCDF	614
Total TCDD	146
Total PeCDD	374
Total HxCDD	700
Total HpCDD	1090
Total TCDF	1350
Total PeCDF	1800
Total HxCDF	1880
Total HpCDF	1560

- Notes:
1. ppt = parts per trillion.
 2. Sample collected 6 inches below surface at Site 4/4B.
 3. Laboratory data sheets are provided in Appendix D.
 4. Sample 99-GAM-005-SL is a composite sample.

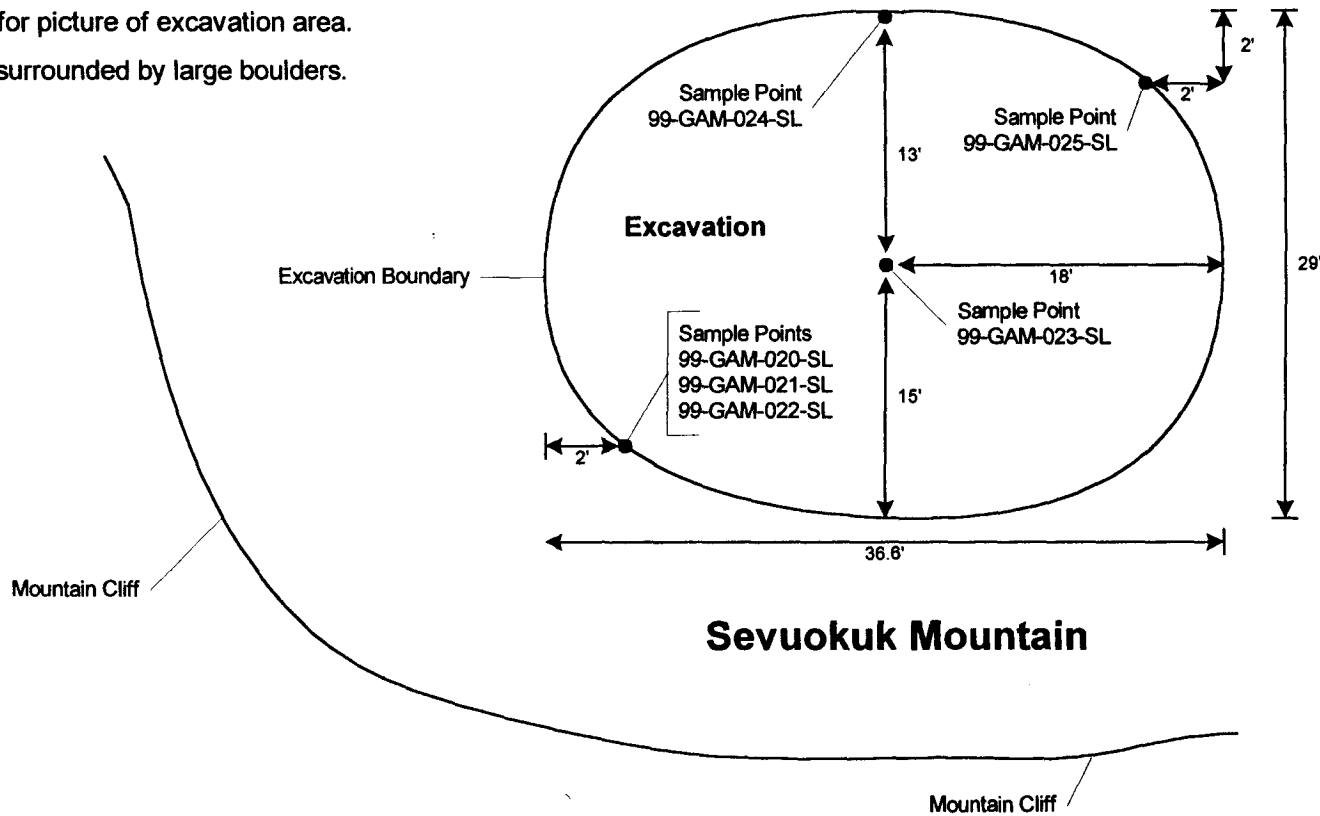
Figure 3: Site - Sample Collection Locations

Figure 4: Site - Sample Collection Locations

Figure 5: Site - Sample Collection Locations

Notes:

1. See Figure 2 for Site 4/Area 4B location.
2. Excavation is 22 inches to 24 inches deep.
3. Excavation was not backfilled per government instructions.
4. Sample 99-GAM-005-SL was a pre-excavation composite sample collected from soil 6 inches below the surface of the excavation area.
5. Other samples are post excavation samples collected 6 inches below excavation bottom.
6. See Photo 22 for picture of excavation area.
7. Excavation is surrounded by large boulders.



Drawing Not to Scale
(DCP 2-9-01)

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Figure 6

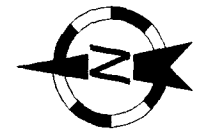
Site 4/Area 4B - Sample Collection Locations

Trail to Site 10 →

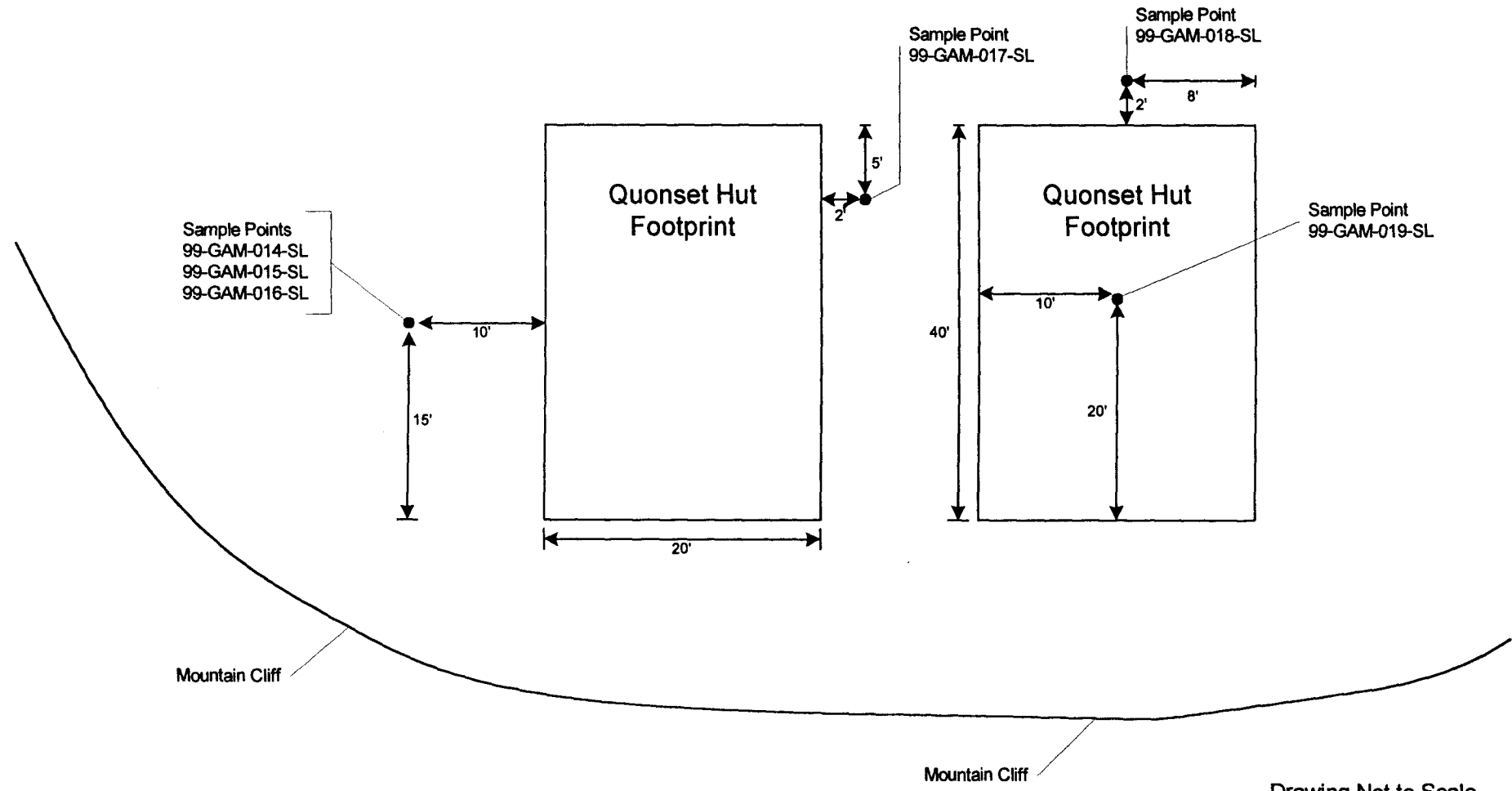
Notes:

- 1. Samples were collected 6 inches below the surface after soil stains were removed.
- 2. See Photo 13 for picture of Site 4/Area 4A.
- 3. See Figure 2 for Site 4/Area 4A location.

Sevuokuk Mountain



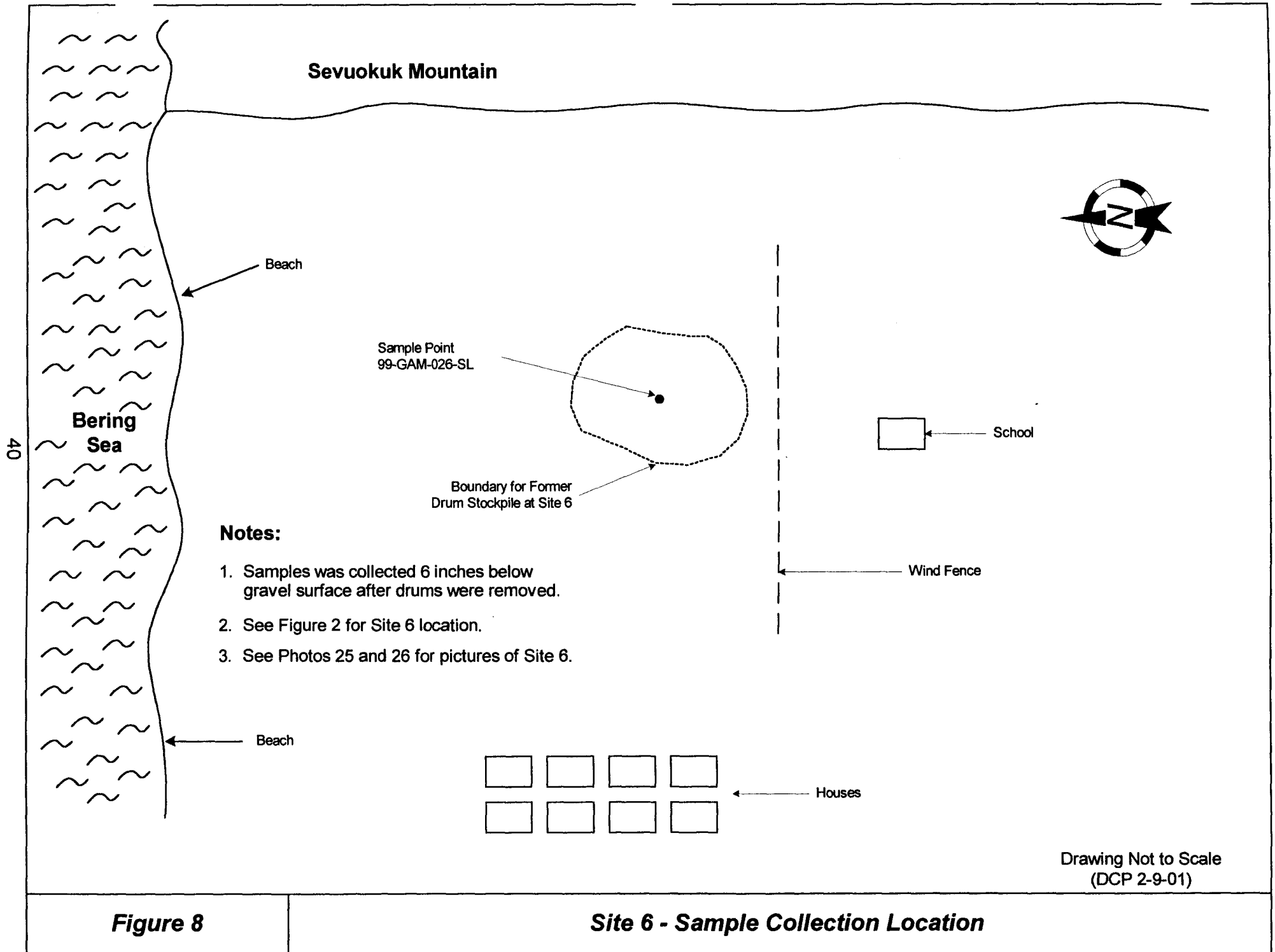
39



Drawing Not to Scale
(DCP 2-9-01)

Figure 7

Site 4/Area 4A - Sample Collection Locations



Drawing Not to Scale
(DCP 2-9-01)

Figure 8

Site 6 - Sample Collection Location

5.3.2 Transformer Wipe Samples

Three empty transformers were found at Site 4/Area 4D. A separate wipe sample (99-GAM-006-W, 99-GAM-007-W, and 99-GAM-008-W in Table 5) was collected from the internal walls of each transformer. No PCBs were detected.

5.3.3 Waste Shipping Names and Regulatory Codes

To ensure proper waste identification and coding under Titles 40 and 49 of the Code of Federal Regulations, laboratory results (Appendix F) for the soil and wipe samples were sent to PES for review. PES worked with Burlington Environmental and Chemical Waste Management of the Northwest to determine the shipping names for the project waste. PES also prepared the manifests and shipping labels for all regulated waste shipped from Gambell, Alaska, to government-approved disposal sites. Copies of the manifests and laboratory analyses are provided in Appendices C and F, respectively.

5.3.4 Items Not Requiring Samples

Laboratory analyses were not required for the asphalt from Site 8, batteries from Site 12 and dried paint from Site 12. Burlington Environmental agreed to accept these waste streams based on verbal information provided by PES personnel at the project site.

5.4 Confirmation Samples

After completing soil excavation, confirmation samples were collected at following locations:

- Site 12. Workers used shovels to excavate 7,237 pounds of stained soil from Site 12. Afterward, Samples 99-GAM-009-SL, 99-GAM-010-SL and 99-GAM-011-SL were collected. Analytical results showed that the DRO levels for these samples ranged from 20.5 mg/kg to 463 mg/kg (Table 8). RRO levels ranged from 98.3 mg/kg to 1,890 mg/kg (Table 8).

As shown in Table 9, total lead and total cadmium for Sample 99-GAM-009-SL were 562 mg/kg and 142 mg/kg, respectively. This exceeds the 400 mg/kg limit for total lead and the 5 mg/kg limit for cadmium established by 18 AAC 75.341, Method 2.

The arsenic level for Sample 99-GAM-009-SL was 3.06 mg/kg. It was 3.64 mg/kg and 6.02 mg/kg for Samples 99-GAM-010-SL and 99-GAM-011-SL, respectively. By comparison, the regulatory limit for arsenic is 2 mg/kg under 18 AAC 75.341, Method 2.

- Site 8. Samples 99-GAM-012-SL and 99-GAM-013-SL were collected after removing 4,790 pounds of stained soil from Site 8. DRO levels for these samples ranged from non-detect to 30.0 mg/kg (Table 8). RRO levels ranged from 15.6 mg/kg to 70.9 mg/kg. Most of the metal debris, HTW and soil removed from Gambell, Alaska, was weighed at Site 8. Sample 99-GAM-013-SL was collected to confirm residual contaminant levels in the soil at the weighing station. GRO was not detected for this sample. DRO and RRO were 30.0 mg/kg and 70.9 mg/kg (Table 8), respectively. Under Method 2 for Alaska's Oil and Hazardous Substance Pollution Regulations, 250 mg/kg is the state's

Table 8

Confirmation Sample Results Summary for Organics
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010
 Gambell, Alaska

No.	Sample Identification	Date	Site	GRO AK101 (mg/kg)	DRO AK102 (mg/kg)	RRO AK103 (mg/kg)	Maximum VOA EPA 8260 (mg/kg)	Maximum SVOA EPA 8270 (mg/kg)	Maximum PCB EPA 8082 (mg/kg)	Maximum Pesticide EPA 8081A (mg/kg)
1	99-GAM-009-SL	8/14/99	12	U (3.43)	463	1,720	U (0.034 - 0.34)	U (11 - 56)	U (0.0477)	0.0921
2	99-GAM-010-SL	8/14/99	12	U (2.19)	407	1,890	U (0.022 - 0.22)	U (0.35 - 1.8)	U (0.0365)	0.0438
3	99-GAM-011-SL	8/14/99	8	U (1.86)	20.5	98.3	U (0.019 - 0.19)	U (0.35 - 1.8)	U (0.00353)	0.00095
4	99-GAM-012-SL	8/14/99	8	U (1.79)	U (9.06)	15.6	U (0.018 - 0.18)	U (0.32 - 1.6)	U (0.00319)	0.0332
5	99-GAM-013-SL	8/14/99	8	U (1.90)	30.0	70.9	U (0.019 - 0.19)	U (9.1 - 46)	U (0.00329)	U (0.000329 - 0.0329)
6	99-GAM-014-SL	8/14/99	4A	U (2.99)	84.0	592	U (0.030 - 0.30)	U (9.0 - 46)	0.0317	U (0.00507 - 0.507)
7	99-GAM-015-SL	8/14/99	4A	U (2.95)	68.8	303	U (0.030 - 0.30)	U (9.0 - 46)	0.0111	U (0.00177 - 0.0177)
8	99-GAM-016-SL	8/14/99	4A	U (1.7)	72	270	U (0.015 - 0.160)	U (0.370 - 1.700)	U (0.0022 - 0.0089)	U (0.00020 - 0.0030)
9	99-GAM-017-SL	8/14/99	4A	U (1.88)	15.3	47.7	U (0.019 - 0.19)	U (0.34 - 1.7)	U (0.00325)	0.000358
10	99-GAM-018-SL	8/14/99	4A	U (2.66)	1,310	930	1.20	25.2	U (0.349)	U (0.697 - 69.7)
11	99-GAM-019-SL	8/14/99	4A	U (2.85)	778	450	U (0.029 - 0.29)	U (8.4 - 43)	U (0.0314)	U (0.0110 - 1.10)
12	99-GAM-020-SL	8/14/99	4B	34.9	13,900	905	0.382	U (9.4 - 48)	U (0.0390)	U (0.0117 - 1.17)
13	99-GAM-021-SL	8/14/99	4B	34.7	13,700	984	0.371	U (3.5 - 18)	U (0.0386)	U (0.0116 - 1.16)
14	99-GAM-022-SL	8/14/99	4B	NR	NR	NR	NR	NR	NR	NR
15	99-GAM-023-SL	8/14/99	4B	U (2.68)	643	187	0.164	0.384	U (0.00343)	U (0.00171 - 0.171)
16	99-GAM-024-SL	8/14/99	4B	U (2.17)	U (10.2)	22.0	0.141	U (0.31 - 1.6)	U (0.00317)	U (0.000317 - 0.317)
17	99-GAM-025-SL	8/14/99	4B	U (2.05)	24.8	50.1	U (0.020 - 0.20)	U (0.33 - 1.7)	U (0.00341)	U (0.000341 - 0.0341)
18	99-GAM-026-SL	8/14/99	6	U (1.36)	U (9.35)	25.6	0.101	U (0.31 - 1.6)	U (0.00326)	U (0.000326 - 0.0326)
19	99-GAM-027-SL	8/14/99	MFB	12.6	NR	NR	U (0.0262 - 0.262)	NR	NR	NR
20	99-GAM-028-SL	8/14/99	MTB	U (0.0900)	NR	NR	U (0.00100 - 0.0100 mg/L)	NR	NR	NR
Regulatory Limit, 18 AAC 75.341, Method 2				300	250	11,000			1	

Notes:

- mg/kg means milligrams per kilogram.
- mg/L means milligrams per liter.
- "NR" means no analyses performed by the laboratory.
- "U" means undetected. The number in parenthesis is laboratory detection limit.
- Laboratory data reports are provided in Appendix F.
- Numbers printed in boldface exceed regulatory limits.
- See Table 6A in Appendix E for VOA analyte results.
- See Table 6B in Appendix E for SVOA analyte results.
- See Table 6C in Appendix E for PCB analyte results.
- See Table 6D in Appendix E for pesticides analyte results.

Table 9

Confirmation Samples for 8-RCRA Metals
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010
 Gambell, Alaska

No.	Sample Identification	Date	Site	Arsenic EPA 7060 (mg/kg)	Barium EPA 6010 (mg/kg)	Cadmium EPA 6010 (mg/kg)	Chromium EPA 6010 (mg/kg)	Lead EPA 6010 (mg/kg)	Mercury EPA 7470 (mg/kg)	Selenium EPA 7740 (mg/kg)	Silver EPA 7760 (mg/kg)
1	99-GAM-009-SL	8/14/99	12	3.06	169	142	16.6	562	0.622	0.702	0.114
2	99-GAM-010-SL	8/14/99	12	3.64	19.9	0.139	2.59	12.4	U (0.0143)	U (0.231)	U (0.0462)
3	99-GAM-011-SL	8/14/99	8	6.02	16.8	0.182	20.0	56.0	U (0.0146)	0.546	U (0.0444)
4	99-GAM-012-SL	8/14/99	8	3.91	3.59	U (0.0205)	1.39	3.89	U (0.00867)	U (0.205)	U (0.0410)
5	99-GAM-013-SL	8/14/99	8	3.60	12.7	0.0196	3.62	14.3	U (0.00676)	U (0.192)	U (0.0384)
6	99-GAM-014-SL (1)	8/14/99	4A	1.75	57.3	0.659	13.2	212	0.101	U (0.439)	1.62
7	99-GAM-015-SL (1)	8/14/99	4A	1.60	66.7	1.57	23.9	311	0.115	0.402	0.169
8	99-GAM-016-SL (1)	8/14/99	4A	8.3	57.0	U (0.12)	24.7	197	0.12	1.3	U (0.23)
9	99-GAM-017-SL	8/14/99	4A	3.13	10.0	0.0699	5.52	6.43	U (0.00873)	U (0.200)	U (0.0400)
10	99-GAM-018-SL	8/14/99	4A	3.01	18.6	0.290	422	44.3	0.0445	0.488	0.440
11	99-GAM-019-SL	8/14/99	4A	4.22	16.8	1.91	311	35.1	0.0173	0.668	0.0767
12	99-GAM-026-SL	8/14/99	6	5.30	5.95	U (0.0202)	1.33	3.47	U (0.0109)	U (0.202)	0.0419
ADEC Regulatory Limit - 18 AAC 75.341, Table B1, Method 2				2	1,100	5	26	400	1.4	3.5	21

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- Notes:
1. Samples 99-GAM-014-SL, 99-GAM-015-SL, and 99-GAM-016-SL are parts of a triplicate sample where 99-GAM-014 is the project sample, 99-GAM-015-SL is the quality control sample, and 99-GAM-016-SL is the quality assurance sample.
 2. mg/kg means milligrams per kilogram.
 3. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 4. Laboratory data reports are provided in Appendix F.
 5. Numbers printed in boldface exceeds regulatory limits.

limit for DRO. The regulated threshold for RRO is 11,000 mg/kg. In view of this, Sample 99-GAM-013-SL confirms that no significant petroleum contamination resulted from debris and waste handling at the project weighing station.

For Samples 99-GAM-012-SL and 99-GAM-013-SL, arsenic was the only metal that exceeded the ADEC cleanup action levels cited in 18 AAC75.341, Method 2. As shown in Table 9, the arsenic levels for these samples ranged from 3.60 mg/kg to 3.91 mg/kg.

- Site 4/Area 4A. About 1,877 pounds of stained soil were removed from Site 4, Area 4A. When this was completed, Samples 99-GAM-014-SL, 99-GAM-015-SL, 99-GAM-016-SL, 99-GAM-017-SL, 99-GAM-018-SL, and 99-GAM-019-SL were collected to confirm residual contaminant levels.

Samples 99-GAM-014-SL, 99-GAM-015-SL, and 99-GAM-016-SL are parts of a triplicate sample. Samples 99-GAM-016-SL was the quality assurance 1 sample. It was analyzed by Quanterra Environmental Services. The other samples were analyzed by C.T. & E. Environmental Services.

GRO was not detected in any of the samples. DRO ranged from 15.3 mg/kg to 1,310 mg/kg (Table 8). RRO levels ranged from 47.7 mg/kg to 930 mg/kg (Table 8).

Total chromium for Samples 99-GAM-018-SL and 99-GAM-019-SL was 422 mg/kg and 311mg/kg, respectively. This exceeds ADEC's 26 mg/kg cleanup threshold for total chromium. Samples 99-GAM-016-SL, 99-GAM-017-SL, 99-GAM-018-SL, and 99-GAM-019-SL had arsenic levels above ADEC's 2 mg/kg limit.

- Site 4/Area 4B. Nearly, 52 tons of contaminated soil was excavated at Site 4/Area 4B. Samples 99-GAM-020-SL, 99-GAM-021-SL, 99-GAM-022-SL, 99-GAM-023-SL, 99-GAM-024-SL, and 99-GAM-025-SL were collected to identify residual contaminant levels in the excavated area.

Samples 99-GAM-020-SL, 99-GAM-021-SL, and 99-GAM-022-SL are parts of a triplicate sample. Samples 99-GAM-022-SL was the quality assurance sample. It was analyzed by Quanterra Environmental Services. The other samples were analyzed by C.T. & E. Environmental Services.

GRO was not detected in any of the samples. DRO levels ranged from non-detectable to 13,900 mg/kg (Table 8). Other analytes detected in the post excavation samples for Site 4/Area 4B were below regulatory thresholds established by the state and EPA. Residual dioxins at this site varied from non-detect to 1,250 ppt (Table 11).

- Site 6. This site contained 7,897 pounds of empty drums and 1,748 pounds of metal debris. After removing these items, Sample 99-GAM-026-SL was collected to determine if the soil was contaminated. Laboratory results revealed that GRO and DRO were not present. RRO was detected at 25.6 mg/kg (Table 8). Total arsenic was 5.3 mg/kg (Table 9).

Table 10

Metal Results for Site 4/Area 4B Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010
 Gambell, Alaska

No.	Sample Identification	Date	Site	Antimony EPA 7041 (mg/kg)	Arsenic EPA 7060 (mg/kg)	Cadmium EPA 7131 (mg/kg)	Copper EPA 6010B (mg/kg)	Lead EPA 7421 (mg/kg)
1	99-GAM-020-SL (1)	8/14/99	4/4B	U (0.216)	0.978	0.0965	63.9	16.1
2	99-GAM-021-SL (1)	8/14/99	4/4B	U (0.206)	0.642	0.0927	33.2	22.2
3	99-GAM-022-SL (1)	8/14/99	4/4B	U (0.50)	1.1	U (0.13)	65.7	36.5
4	99-GAM-023-SL	8/14/99	4/4B	3.34	1.57	1.80	6,940	396
5	99-GAM-024-SL	8/14/99	4/4B	U (0.211)	1.09	0.0375	7.32	5.64
6	99-GAM-025-SL	8/14/99	4/4B	U (0.204)	0.604	0.129	49.3	9.02
ADEC Regulatory Limit, 18 AAC 75.341, Table B1, Method 2					2	5		400

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. "SL" means the sample matrix was soil.
 4. Laboratory data reports are provided in Appendix F.

Table 11

Confirmation Sample Results for Dioxin by EPA Method 8290
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010
 Gambell, Alaska

Analytes	Sample No. 99-GAM-020-SL (ppt)	Sample No. 99-GAM-021-SL (ppt)	Sample No. 99-GAM-022-SL (ppt)	Sample No. 99-GAM-023-SL (ppt)	Sample No. 99-GAM-024-SL (ppt)	Sample No. 99-GAM-025-SL (ppt)
2,3,7,8-TCDD	U (0.8)	U (0.6)	0.60 J	U (1.0)	U (1.0)	U (0.7)
1,2,3,7,8-PeCDD	2.6 J	2.2 J	U (2.2)	3.3 J	U (1.4)	U (0.8)
1,2,3,4,7,8-HxCDD	3.8 J	3.0 J	3.3 J	2.9 J	U (1.0)	U (0.6)
1,2,3,6,7,8-HxCDD	14.1	8.9	12	5.8	U (0.9)	U (0.6)
1,2,3,7,8,9-HxCDD	10.9	8.2	5.1 J	8.7	U (0.9)	U (0.6)
1,2,3,4,6,7,8-HpCDD	266	151	250 B	46.3	9.9 B	1.3 JB
1,2,3,4,6,7,8,9-OCDD	1,250	800	1100 B	180	52.4	9.7 JB
2,3,7,8-TCDF	3.5 B	4.1 B	1.2 CON	44.2	4.8 B	U (0.7)
1,2,3,7,8-PeCDF	U (0.6)	0.97 J EMPC	U (1.6)	6.9 EMPC	U (0.9)	U (0.6)
2,3,4,7,8-PeCDF	1.2 J	1.7 J	U (1.5)	16.6	2.5 J EMPC	U (0.7)
1,2,3,4,7,8-HxCDF	4.3 J	4.6 J	U (2.9)	50.3	8.6	1.2 J
1,2,3,6,7,8-HxCDF	1.7 J	1.8 J	U (2.1)	14.0	2.2 J	U (0.4)
2,3,4,6,7,8-HxCDF	2.9 J	2.9 J	U (1.8)	29.1	6.7	U (0.5)
1,2,3,7,8,9-HxCDF	U (0.6)	U (0.5)	U (0.18)	U (0.8)	U (0.9)	U (0.5)
1,2,3,4,6,7,8-HpCDF	107	74.1	96	83.4	17.6	2.4 JB
1,2,3,4,7,8,9-HpCDF	6.5	4.8 J	5.0 J	7.9	2.1 J	U (0.7)
1,2,3,4,6,7,8,9-OCDF	596	436	570	58.1	15.4	1.9 J EMPC
Total TCDD	1.7	1.5	7.6	17.1	U (1.0)	U (0.7)
Total PeCDD	24.3	19.1	U (4.5)	45.1	U (1.4)	U (0.8)
Total HxCDD	97.9	67.1	68	73.2	6.6	U (0.6)
Total HpCDD	461	263	430	91.2	21.8	2.3
Total TCDF	24.9	26.7	47	214	7.5	U (0.7)
Total PeCDF	8.6	12.8	11	166	11.1	U (0.6)
Total HxCDF	85.5	59.4	61	157	26.0	2.1
Total HpCDF	526	362	470	141	32.9	4.1

- Notes:
- | | |
|------------------------------------|----------------------------------|
| 1. "U" means not detected. | 5. EMPC is estimated maximum. |
| 2. Detection limit in parenthesis. | 6. ppt = parts per trillion. |
| 3. J means estimated. | 7. CON is confirmation analysis. |
| 4. B = Method blank contamination. | |

5.5 Procedures for Sample Collection

Waste characterization samples were obtained from soil 6 inches below the surface in areas containing stains. Confirmation samples were collected from soil 6 inches below the surface in areas where excavation was performed to remove stains or contamination from a location that contained HTW.

At each sample point, a clean metal spoon was used to dig a hole 8 inches deep. Following this, a plastic spoon was used to take soil from the sides of the hole (6 inches below the surface) and place it into sample jars provided by the project laboratory.

At each sample point, soil for the GRO and volatile organic analyses (VOA) samples was placed in the same 4 ounce glass sample jar (with a septa lid). After putting 25 mg of soil in the jar, 25 ml of methanol were added. Next, the sample jar was capped and put in a Ziploc plastic bag which had the sample identification number and required analytical results written on it. (No labels were placed on the jar since its weight was pre-measured by the laboratory.)

Based on instructions from the project laboratory (C.T. & E. Environmental Services), soil for DRO, RRO, semi-volatile organic analysis (SVOA), metals, PCBs, herbicides and pesticides were placed in the same 8-ounce glass sample jar. Each jar contained a typed label identifying the required analysis and analytical method. The date and time were written on the labels immediately after the sample was collected. Following this, the sample was logged on a chain of custody form and placed in an ice chest containing blue ice (Photos 53 and 54). A separate 8-ounce glass jar was used for the dioxin sample.

The following steps were used to collect triplicate samples:

- GRO and VOA Samples. A plastic spoon was used to place 25 mg of soil (each) from the designated sample point in three 4-oz. sample bottles (with septa lids). Immediately following this, 25 ml of methanol was poured over the soil in each jar. Afterward, the jars were closed and put in separate Ziploc plastic bags which had the sample identification number and the required analytical results written on them.
- DRO, RRO, SVOA, PCB, Metals, Herbicides and Pesticides Samples. Plastic spoons were used to partly fill a large Ziploc plastic bag with soil from the designated sample point. After the bag was sealed and shaken to mix the soil, new plastic spoons were used to remove the soil from the bag and place it in three 8-ounce pre-labeled sample jars. No preservatives were added to the sample jars.
- Dioxin Sample. Plastic spoons were used to partly fill a large Ziploc plastic bag with soil from the designated sample point. After the bag was sealed and shaken to mix the soil, new plastic spoons were used to remove the soil from the bag and place it in three 8 ounce pre-labeled sample jars. No preservatives were added to the sample jars.

All samples were logged on a chain of custody form and stored in coolers containing blue ice. Wooden stakes were placed in the ground to mark the sample point locations. Laboratory data reports for the soil samples are provided in Appendix F.

5.6 Personnel Collecting Samples

All samples were collected, labeled, packaged and shipped to the project laboratory by Mr. Randy Easley. He holds a degree in Chemical Engineering and is recognized as a "Qualified Person" for sample collection by ADEC.

Mr. David Rein was the Contractor Quality Control System Manager for this project. He was present during sample collection.

5.7 Sample Shipment

Sealed coolers containing the project samples were air freighted from Gambell to Anchorage. In Anchorage, project and quality control samples were delivered to C.T. & E. by Mr. Easley. The quality assurance samples were delivered to Quanterra per instructions from the Fairbanks Resident Office. Both C.T. & E. and Quanterra used Triangle Laboratories, Inc. in Durham, North Carolina for dioxin analysis.

5.8 Chemical Data Quality Review

Under a separate contract issued by the USAEDA, analytical data for Samples 99-GAM-009-SL through 99-GAM-028-SL was evaluated by Laboratory Data Consultants, Inc. (LDC) located in Carlsbad, California. A complete copy of LDC's evaluation is provided in Appendix I of this report.

During this project, two triplicate samples were collected for quality control (QC) and quality assurance (QA). The components for these samples were:

Triplicate Sample	Project Sample	QC Sample	QA Sample
1	99-GAM-014-SL	99-GAM-015-SL	99-GAM-016-SL
2	99-GAM-020-SL	99-GAM-021-SL	99-GAM-022-SL

The quality assurance samples were analyzed by Quanterra Environmental Services and referred to as Sample Delivery Group (SDG) 064096 in LDC's report. The other samples were analyzed by C.T. & E. Environmental and identified as SDG 994255 in LDC's report.

LDC's chemical data evaluation is summarized as follows:

- Sample Custody and Preservation. All samples were properly preserved and delivered to the laboratories with chain-of-custody forms. The forms were signed and dated. Sample temperatures ranged from 2.2 to 5.3 °C.
- Holding Times. All samples were analyzed within the required holding times.
- GC/MS Instrument Performance Checks. For EPA Method 8260B (VOA analysis), differences in the initial and continuing instrument calibrations exceeded QC limits for 2-butanone and 2-chloroethylvinyl ether for both samples in the SDG 064096 and

chloroethane for Sample 99-GAM-028-SL in SDG 994255. In view of this, the results for these analytes for these samples are qualified as estimates.

For EPA Method 8270 (SVOA analysis), differences in the initial and continuing instrument calibration exceeded QC limits for N-nitrosodimethylamine for SDG 064096. These samples are also qualified as estimates.

- Method Blanks. Methylene chloride was detected in the method blanks associated with Samples 99-GAM-009 through 99-GAM-019-SL and Samples 99-GAM-026 through 99-GAM-028-SL. Bromomethane was detected in the method blank associated with Sample 99-GAM-028-SL.

DRO was detected in the method blank associated with the samples in SDG 994255.

Cadmium and lead were detected in the preparation blanks for Samples 99-GAM-009-SL, 99-GAM-010-SL, 99-GAM-011-SL, 99-GAM-012-SL, and 99-GAM-013-SL. Barium and Chromium was detected in the preparation blanks for Samples 99-GAM-014-SL, 99-GAM-015-SL, 99-GAM-017-SL, 99-GAM-018-SL, 99-GAM-019-SL, and 99-GAM-026-SL.

Dioxin (EPA Method 8290) compounds were found in the blanks for all samples in SDG 064096 and 994255.

- Surrogate Recoveries. Bromofluorobenzene surrogate recoveries exceeded QC limits for Samples 99-GAM-009-SL, 99-GAM-014-SL, 99-GAM-015-SL and 99-GAM-016-SL under EPA Method 8260B. Therefore, the VOA results for these samples are qualified as estimates.

Under EPA Method 8082 (PCB), the decahalorobiphenyl surrogate recovery level exceeded QC limits for Sample 99-GAM-009-SL. All PCB results for this sample are qualified as estimates.

For GRO analysis by AK101, low 4-bromofluorobenzene surrogate recoveries were reported for Samples 99-GAM-009-SL, 99-GAM-011-SL, 99-GAM-014-SL, and 99-GAM-015-SL, and 99-GAM-016-SL. As a result the GRO values reported for these samples are qualified as estimates.

Samples 99-GAM-014-SL, 99-GAM-016-SL, 99-GAM-019-SL, and 99-GAM-026-SL experienced high surrogate recovery levels under AK102. As a result, the DRO values for these samples were qualified as estimates. The DRO surrogates were diluted out for Samples 99-GAM-009-SL, 99-GAM-010-SL, and 99-GAM-018-SL. No data qualifications were made for high surrogate recoveries based on the diluted sample results.

- Matrix Spikes and Matrix Spike Duplicates (MS/MSD). MS/MSD were not run for EPA Methods 8260B, 8270, 8081, 8082 and 8290. MS/MSD were not performed for AK 101, AK102 and AK103.

- Laboratory Control Samples and Laboratory Control Sample Duplicates (LCS/LCSD). Both laboratories ran LCS/LCSD to assess precision and accuracy. Under EPA Method 8260B, high LCS and LCSD recoveries were obtained for methylene chloride for Sample 99-GAM-028-SL. Therefore, detected methylene chloride results for this sample are deemed to be estimates.

Under EPA Method 8270, LCS and LCSD recoveries were outside the QC limits for 3,3'-dichlorobenzidine, butylbenzylphthalate, bis(2-ethylhexyl)phthalate, pyridine, and di-n-octylphthalate for all samples in SDG 994255. Consequently, reported results for these compounds are qualified as estimates.

The LCS and LCSD recoveries for EPA Method 8082 were outside the QC limits for endosulfan sulfate. Therefore, detectable results under this method are qualified as estimates.

- Internal Standard Recoveries (ISR). Samples 99-GAM-021-SL and 99-GAM-023-SL had high ISR for 1,2,3,4,6,7,8-HpCDD under EPA Method 8290. As a result, reported values for 1,2,3,4,6,7,8-HpCDD and total HpCDD are qualified as estimates.
- Triplicate Sample 1. GRO, VOA, SVOA, pesticides, and herbicides were not detected in the components for this triplicate sample (99-GAM-014-SL, 99-GAM-015-SL and 99-GAM-016-SL). PCBs were not detected in Sample 99-GAM-014-SL. Samples 99-GAM-015-SL and 99-GAM-016-SL contained PCBs at 0.0317 mg/kg and 0.0111 mg/kg, respectively. This low degree of variability for the PCB results was deemed to be technically acceptable by LDC.

Detected DRO levels for the components of this triplicate sample ranges from 68.8 mg/kg to 84 mg/kg. RRO levels ranged from 270 mg/kg to 592 mg/kg. Hence, the comparability for DRO results and RRO results for the triplicate sample components were viewed as technically acceptable by LDC.

Except for the following analytes, components for Triplicate Sample 1 had acceptable comparability for total metal results:

Analyte	Sample 99-GAM-014-SL (mg/kg)	Sample 99-GAM-015-SL (mg/kg)	Sample 99-GAM-016-SL (mg/kg)
Arsenic	1.75	1.60	8.3
Cadmium	0.659	1.57	U(1.2)
Selenium	U(0.127)	0.402	U(1.2)
Silver	1.62	0.169	U(2.3)

Sample homogeneity or subsampling in the laboratories may account for the variability in the sample results for these analytes.

- Triplicate Sample 2. This triplicate sample was collected from Site4/Area 4B at the project site and included Samples 99-GAM-020-SL, 99-GAM-021-SL and 99-GAM-022-SL. Under Modification 04P4 issued by USAEDA, the required analyses for confirmation samples from this area were limited to dioxin, antimony, arsenic, cadmium, copper and lead.

Antimony was not detected in the Triplicate Sample 2. Comparability for the other metals is as follows:

Analyte	Sample 99-GAM-020-SL (mg/kg)	Sample 99-GAM-021-SL (mg/kg)	Sample 99-GAM-022-SL (mg/kg)
Arsenic	0.987	0.642	1.1
Cadmium	0.0965	0.0927	U(0.63)
Copper	63.9	33.2	65.7
Lead	16.1	22.2	36.5

Sample homogeneity or subsampling in the laboratories may account for the variability in the sample results for these analytes.

LDC's chemical data evaluation revealed acceptable comparability for all but the following dioxin analytes for Triplicate Sample 2:

Analyte	Sample 99-GAM-020-SL (ppt)	Sample 99-GAM-021-SL (ppt)	Sample 99-GAM-022-SL (ppt)
Total TCDD	1.7	1.5	7.6
Total PeCDD	24.3	19.1	U(4.5)

Again, sample homogeneity or subsampling in the laboratories may account for the variability in the sample results for these analytes.

Overall, LDC concluded that the chemical data for the confirmation samples are acceptable with the limitations noted in its report.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Waste Shipped and Received

In accordance with the scope of work for Delivery Order 0004 under Contract No. DACA85-97-D-0010, OSCI removed the following debris, HTW and soil from Gambell:

Waste Category	Original Quantity (Pounds)	Quantity Removed (Pounds)	Disposal Facilities/Locations
Debris	127,255	142,324	Rabanco Recycling Seattle, Washington
HTW	16,140	53,738	Burlington Environmental Seattle, Washington Rabanco Recycling Seattle, Washington
Stained Soil	40,000	39,889	Rabanco Recycling Seattle, Washington
Contaminated Soil	104,000	103,885	Chemical Waste Management of the Northwest Arlington, Oregon

All waste departed Alaska under manifests signed by the government. After the waste arrived at the designated disposal facilities during November 1999, the manifests were signed by a disposal facility representative and copies were mailed to the government at: "US Army Engineering District AK CEPOA-CO-FR (Gambell), P.O. Box 35066, Ft. Wainwright, Alaska 99703-0066."

6.2 Contaminant Reduction

By removing 103,885 pounds of soil from Site 4/Area 4B, petroleum contaminate levels changed as follows:

Sample/Regulatory Limit	GRO AK101 (mg/kg)	DRO AK102 (mg/kg)	RRO AK103 (mg/kg)
Pre-Excavation Composite Sample	3.73	469	2,100
Maximum Level for Post Excavation Discrete Sample	34.9	13,900	984
Regulatory Limit 18 AAC 75.341, Method 2	300	250	11,000

Based on laboratory results, the residual DRO level in Site 4/Area 4B is above the 250 mg/kg regulatory limit established by ADEC Method 2. As shown in Table 10, post excavation metal concentrations at this location are below regulatory levels.

Confirmation samples for this project reveal that following analytes at Site 12 exceeded regulatory limits:

Analytes (Site 12)	Regulatory Limit 18 AAC 75.341, Method 2 (mg/kg)	Maximum Detected Residual Level (mg/kg)
DRO	250	463
Arsenic	2	3.64
Cadmium	5	142
Lead	400	562

At Site 4/Area 4A, the following analytes are above regulatory limits:

Analytes (Site 4/ Area 4A)	Regulatory Limit 18 AAC 75.341, Method 2 (mg/kg)	Maximum Detected Residual Level (mg/kg)
DRO	250	1,310
Arsenic	2	8.3
Chromium	26	422

Arsenic at 5.3 mg/kg was the only analyte at Site 6 that exceeded regulatory limits. The arsenic level at Site 8 (6.02 mg/kg) was also above the state's 2 mg/kg limit.

Pre-excavation and post excavation dioxin levels for Site 4/Area 4B are listed in Table 12. The values in the "Maximum Detected Residual Level Column" are the maximum analyte concentrations for the confirmation samples listed in Table 11. By removing 52 tons of soil from Site 4/Area 4B, the average reduction for the dioxin analytes was 77.7 percent.

6.3 Work Limitations

The original scope of work for this delivery order required OSCI to remove 115,000 pounds metal matting on the east and west sides of the paved airport runway at Gambell, Alaska. While performing this work, energized electrical cables connecting the runway lights to a power source were discovered on the east side of the runway. To avoid safety problems, the government terminated work in areas where the cables were observed.

Although 108,090 pounds of metal debris were removed from this area, visual observation suggests that an equal quantity of metal runway matting remain at the project site. To safely remove this matting, the electrical cables must be de-energized and elevated.

Table 12

**Pre-Excavation and Post Dioxin Results by EPA Method 8290 for Site 4/Area 4B
Debris Removal and Containerized Hazardous and Toxic Waste Removal
Delivery Order 0004, Contract No. DACA85-97-D-0010
Gambell, Alaska**

Analytes	Pre-Excavation Level (ppt)	Maximum Detected Residual Level (ppt)	Percent Reduction (ppt)
2,3,7,8-TCDD	3.1	U (1.0)	100
1,2,3,7,8-PeCDD	18.0	3.3	81.7
1,2,3,4,7,8-HxCDD	23.7	3.8	83.9
1,2,3,6,7,8-HxCDD	53.7	14.1	73.4
1,2,3,7,8,9-HxCDD	81.0	10.9	86.5
1,2,3,4,6,7,8-HpCDD	490	266	45.7
1,2,3,4,6,7,8,9-OCDD	1250	1250	0
2,3,7,8-TCDF	272	44.2	83.6
1,2,3,7,8-PeCDF	53.2	6.9 EMPC	87.0
2,3,4,7,8-PeCDF	143	16.6	88.4
1,2,3,4,7,8-HxCDF	539	50.3	90.7
1,2,3,6,7,8-HxCDF	152	14.0	90.8
2,3,4,6,7,8-HxCDF	367	29.1	92.1
1,2,3,7,8,9-HxCDF	8.3	U (0.6)	100
1,2,3,4,6,7,8-HpCDF	1120	107	90.5
1,2,3,4,7,8,9-HpCDF	72.7	6.5	91.0
1,2,3,4,6,7,8,9-OCDF	614	596	2.9
Total TCDD	146	17.1	88.3
Total PeCDD	374	45.1	87.3
Total HxCDD	700	97.9	86.0
Total HpCDD	1090	461	57.7
Total TCDF	1350	214	84.2
Total PeCDF	1800	166	90.8
Total HxCDF	1880	157	91.7
Total HpCDF	1560	526	66.3

- Notes:
1. "U" means not detected. The number in parenthesis is the laboratory limit.
 2. Detection limit in parenthesis.
 3. Pre-excavation dioxin levels are the results for Sample No. 99-GAM-005-SL
 4. ppt means parts per trillion.
 5. Maximum residual level is the highest analyte level for the Site 4/Area 4B confirmation samples listed in Table 11.
 6. EMPC is estimated maximum.

Two Quonset huts were located on the top of Sevuokuk Mountain at Site 4/Area 4D. Prior to project mobilization, winds scattered metal from these huts along the west side of the mountain. Steep cliffs made it impossible for OSCI to access and remove metal debris from the side of the mountain at elevations exceeding 400 feet above sea level.

6.4 Lessons Learned

The following lessons learned during this project may benefit others who are considering remedial activities at Gambell, Alaska:

- Lodging and Meals. The Sivuqaq Lodge is a former work camp that is operated as a hotel by the village corporation. It has an industrial kitchen and four restrooms and can provide accommodations for 16 to 20 people. Meals served by the lodge are limited to fast food. The cooks do not prepare breakfast. Occasionally, they do not work on the weekend. Firms planning to use the lodge to house their work crews should: 1) hire a full-time cook and a full-time housekeeper, 2) plan meals in advance and 3) ship sufficient food to Gambell for the meals. Since the lodge uses most of its refrigerator and freezer space to store fast food items, it would be advisable for firms using the lodge to provide their own refrigerators. It would also be a good idea to ship telephones, a television, VCR and videos for crew entertainment.
- Local Transportation. Gambell does not have public transportation. Persons traveling to this location should ask the lodge to have someone with an ATV meet them at the airport. Wet tundra is located on the south end of Troutman Lake. This area must be crossed to get to Sevuokuk Mountain. Four-wheel ATVs have trouble crossing the tundra. They get stuck in locations where the mud and water are more than 18 inches deep. Eight-wheel Argos with tracks are better suited for crossing the tundra. Tops are recommended for the Argos to keep the passengers and cargo from being coated with mud. (The tundra contains many submerged boulders that can damage Argos and ATVs. To avoid problems, low speeds should be used while crossing the tundra.)
- Track-Mounted Vehicles. Track-mounted vehicles are needed for crossing and working on wet tundra in the Gambell area. To minimize tundra damage, these vehicles should have flat tracks that will not dig into the ground. Tracks that have a "U" shaped sprockets will uproot vegetation that holds the tundra soil together and create ruts that will cause rapid erosion. This will destroy the tundra by creating lakes in flat areas and causing erosion in sloping areas.
- Boulders and Reduced Visibility on Mountain Top. The top of Sevuokuk Mountain is covered with large boulders that prevent access by trucks and heavy equipment. As demonstrated during this project, Argos can drive over the boulders. Low ceilings cause dense fog on the mountain. As a result, visibility can be limited to 50 feet or less.
- Beach Conditions. Barges transporting cargo to Gambell land at the north beach. The gravel at this location is loose and difficult to work on. The south beach has hard packed gravel and is suitable for heavy equipment and trucks.
- Security is Required. During the first week at Gambell, gas was removed from vehicles stored at the work site overnight. This was stopped by using locking gas caps.

- Local Rental Equipment. The Gambell Public Works Department has heavy equipment that can be leased. For this project, it was necessary to hire a mechanic to install backup alarms and correct other problems so this equipment would meet requirements established by the USAEDA.
- Limit Crew Working Hours. Workers mobilized to Gambell from Anchorage insisted on working seven 12-hour days per week to maximize their earnings. Due to harsh environmental conditions and strenuous labor requirements, this proved to be too much over a 43-day period. Although there were no accidents or spills, work related stress caused friction between crew members. A shorter work week consisting of six 10-hour days will create less stress for personnel at the job site.
- Native Burial Sites on Mountain. Many burial boxes with skeletal remains were discovered near debris removal sites on Sevuokuk Mountain. High winds have damaged the boxes and scattered some of the remains. In view of this, firms performing remedial actions at Gambell, Alaska, should include an Archeologist on their field crews and make arrangements with the Gambell Native Council for handling skeletal remains and artifacts found at the work site.

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Appendix A
Photo Summary

Debris Removal and Containerized Hazardous and Toxic Removal
Gambell, Alaska
Contract No. DACA85-97-D-0010, Delivery Order No. 0004
July and August 1999



Photo 1: Gambell, Alaska (looking west).



Photo 2: Barge landing at North Beach with contractor equipment.

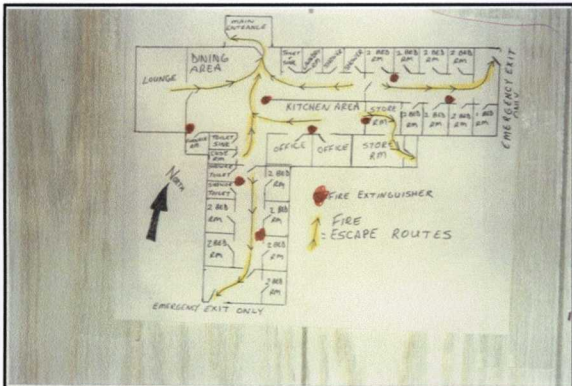


Photo 3: Floor plan for Sivugag Lodge (used for contractor meals and lodging).



Photo 4: Cooks and kitchen in Sivugag Lodge.



Photo 5: Dining area in Sivugag Lodge.



Photo 6: Bedroom in Sivugag Lodge.

Debris Removal and Containerized Hazardous and Toxic Removal
Gambell, Alaska
Contract No. DACA85-97-D-0010, Delivery Order No. 0004
July and August 1999



Photo 7: Worker collecting soil sample at Site 2.



Photo 8: Backhoe moving supersack filled with stained soil at Site 2.



Photo 9: Site 2 after stained soil excavation.



Photo 10: Empty fuel tank at Site 3.



Photo 11: Backhoe preparing to remove empty fuel tank at Site 3.



Photo 12: Government Representative and contractor inspecting Site 3 after debris removal.

Debris Removal and Containerized Hazardous and Toxic Removal
Gambell, Alaska
Contract No. DACA85-97-D-0010, Delivery Order No. 0004
July and August 1999



Photo 13: Metal debris from Quonset Huts at Site 4A/Area 4A.



Photo 14: Empty transformer at Site 4/Area 4A.



Photo 15: Workers loading bags containing small pieces of metal debris into Argo at Site 4/Area 4A.



Photo 16: Argo hauling debris from Site 4/Area 4A through Site 10 to transfer station.



Photo 17: Worker transferring metal debris from Argo to wagon for transportation to weighing station at Site 8.



Photo 18: Backhoe removing supersack containing Site 4/Area 4A debris from Argo to pickup truck.

Debris Removal and Containerized Hazardous and Toxic Removal
Gambell, Alaska
Contract No. DACA85-97-D-0010, Delivery Order No. 0004
July and August 1999



Photo 19: Worker preparing for debris removal at Site 4/Area 4B.



Photo 20: Shovels used to excavate contaminated soil at Site 4/Area 4B.



Photo 21: Sand bags filled with contaminated soil at Site 4/Area 4B.



Photo 22: Sand bags filled with soil placed in Argo for transportation down the mountain.



Photo 23: Supersacks filled with contaminated soil placed in connex.



Photo 24: Site 4/Area 4B after 52 tons of contaminated soil excavated.

Debris Removal and Containerized Hazardous and Toxic Removal
Gambell, Alaska
Contract No. DACA85-97-D-0010, Delivery Order No. 0004
July and August 1999



Photo 25: Drums at Site 6.



Photo 26: Site 6 after drum removal.



Photo 27: Metal runway matting at Site 8.



Photo 28: Loader placing runway matting on Nodwell.



Photo 29: Nodwell hauling runway matting.



Photo 30: Nodwell offloading runway matting.

Debris Removal and Containerized Hazardous and Toxic Removal
Gambell, Alaska
Contract No. DACA85-97-D-0010, Delivery Order No. 0004
July and August 1999



Photo 31: Metal debris stockpiled at Site 8.



Photo 32: Energized power cable for runway lights exposed at Site 8. (Metal debris suspended near power cable.)



Photo 33: Workers dismantle metal sled at Site 8.



Photo 34: Drums weighed with an electronic scale at Site 8.



Photo 35: Scale weights for each load recorded at Site 8 processing station.

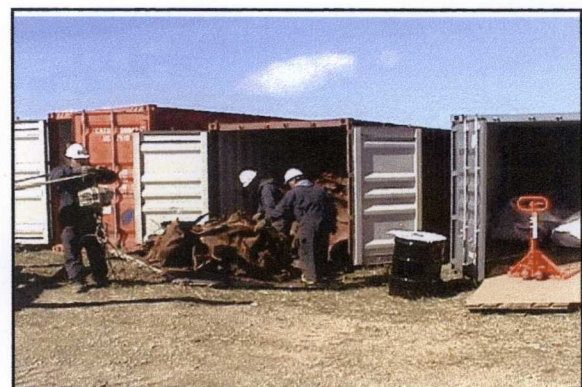


Photo 36: Workers load crushed drums into connex container at Site 8.

Debris Removal and Containerized Hazardous and Toxic Removal
Gambell, Alaska
Contract No. DACA85-97-D-0010, Delivery Order No. 0004
July and August 1999



Photo 37: Access road to Site 10. (East site of Troutman Lake.)



Photo 38: 4-Wheel ATV stuck in wet tundra at Site 10.



Photo 39: Nodwell tested on tundra at Site 10.



Photo 40: Tundra after three passes with Nodwell. (Tundra was seeded to restore vegetation.)



Photo 41: Drums on tundra at Site 10.



Photo 42: Site 10 after drums removed.

Debris Removal and Containerized Hazardous and Toxic Removal
Gambell, Alaska
Contract No. DACA85-97-D-0010, Delivery Order No. 0004
July and August 1999



Photo 43: Drums at Site 12.



Photo 44: Deteriorated battery at Site 12.



Photo 45: Dried paint and batteries at Site 12.



Photo 46: Drums from Site 12 placed on pickup truck and hauled to Site 8 processing station.



Photo 47: Workers in Level "C" PPE remove batteries and dried paint at Site 12.



Photo 48: Site 12 after HTW removal.

Debris Removal and Containerized Hazardous and Toxic Removal
Gambell, Alaska
Contract No. DACA85-97-D-0010, Delivery Order No. 0004
July and August 1999



Photo 49: Argo used to transport personnel and sampling supplies.



Photo 50: Sample collection to characterize soil in supersack at Site 8.



Photo 51: Soil characterization sampling at Site 2.



Photo 52: Post-excitation confirmation sampling at Site4/Area 4B.



Photo 53: Samples labeled and logged on chain of custody form.



Photo 54: Cooler with samples and chain of custody form in Ziploc bags.

Debris Removal and Containerized Hazardous and Toxic Removal
Gambell, Alaska
Contract No. DACA85-97-D-0010, Delivery Order No. 0004
July and August 1999



Photo 55: Top view of excavation at Site 4/Area 4B. Soil was excavated to 24" below grade.



Photo 56: Sample Point 99-GAM-20-SL.
(6" below excavation bottom.)



Photo 57: Yellow tape is Sample Point 99-GAM-023-SL.



Photo 58: Sample Point 99-GAM-024-SL.
Soil was excavated between rocks.



Photo 59: Sample Point 99-GAM-025-SL.
(6" below excavation bottom.)

Appendix B
Scale Tickets Showing Debris, HTW and Soil Weights

W. Ticket
Debris Removal and Contain. and HTW Removal, Gambell Alaska

Ticket # <u>GAM001</u>	Date Collected <u>7-18-99</u> 7-20-99	Date Weighed <u>7-19-99</u> 7-20-99	Date Loaded <u>7-19-99</u> 7-20-99
Site <u>8</u>	Description <u>LANDING MAT</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR SS Other _____
Gross Weight <u>750</u>	Tare Weight <u>286</u>	Net Weight <u>458</u>	Initials <u>MSC</u>
Net Weight <u>458</u>	Tare to Connex <u>Ø</u>	Gross to Connex <u>458</u>	Connex# <u>200256</u> ✓

Ticket # <u>GAM002</u>	Date Collected <u>7-18-99</u>	Date Weighed <u>7-19-99</u> 7-20-99	Date Loaded <u>7-19-99</u>
Site <u>8</u>	Description <u>LANDING MAT</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR SS Other _____
Gross Weight <u>781</u>	Tare Weight <u>292</u>	Net Weight <u>489</u>	Initials <u>MSC</u>
Net Weight <u>489</u> 942	Tare to Connex <u>Ø</u>	Gross to Connex <u>489</u> 947	Connex# <u>200256</u> ✓

Ticket # <u>GAM003</u>	Date Collected <u>7-18-99</u>	Date Weighed <u>7-19-99</u> 7-20-99	Date Loaded <u>7-19-99</u>
Site <u>8</u>	Description <u>LANDING MAT</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR SS Other _____
Gross Weight <u>737</u>	Tare Weight <u>292</u>	Net Weight <u>445</u>	Initials <u>MSC</u>
Net Weight <u>445</u> 942	Tare to Connex <u>Ø</u>	Gross to Connex <u>445</u> 1392	Connex# <u>200256</u> ✓

Weight Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓
Ticket # GAM010 Date Collected 7-18-99 Date Weighed 7-19-99 Date Loaded 7-19-99
Site 8 Description LANDING MAT Count: N/A BDR HTW
SS CS
Other _____
Gross Weight 642 Tare Weight 292 Net Weight 350 Initials MSC
Net Weight 350 Tare to Connex ∅ Gross to Connex 350 Connex# 200256

✓
Ticket # GAM011 Date Collected 7-18-99 Date Weighed 7-19-99 Date Loaded 7-19-99
Site 8 Description LANDING MAT Count: N/A BDR HTW
SS CS
Other _____
Gross Weight 640 Tare Weight 292 Net Weight 348 Initials MSC
Net Weight 348 Tare to Connex ∅ Gross to Connex 348 Connex# 200256

✓
Ticket # GAM012 Date Collected 7-18-99 Date Weighed 7-19-99 Date Loaded 7-19-99
Site 8 Description LANDING MAT Count: N/A BDR HTW
SS CS
Other _____
Gross Weight 732 Tare Weight 292 Net Weight 440 Initials MSC
Net Weight 440 Tare to Connex ∅ Gross to Connex 440 Connex# 200256
1138

V Ticket
Debris Removal and Contained HTW Removal, Gambell Alaska

V

Ticket #	<u>GAM013</u>	Date Collected	<u>7-18-99</u>	Date Weighed	<u>7-19-99</u>	Date Loaded	<u>7-19-99</u>
Site	<u>8</u>	Description	<u>LANDING MAT</u>	Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR SS	HTW CS
Gross Weight	<u>614</u>	Tare Weight	<u>292</u>	Net Weight	<u>322</u>	Other	<u>MSC</u>
Net Weight	<u>322</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>322</u>	Connex#	<u>200256</u>

V

Ticket #	<u>GAM014</u>	Date Collected	<u>7-18-99</u>	Date Weighed	<u>7-19-99</u>	Date Loaded	<u>7-19-99</u>
Site	<u>8</u>	Description	<u>LANDING MAT</u>	Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR SS	HTW CS
Gross Weight	<u>613</u>	Tare Weight	<u>292</u>	Net Weight	<u>321</u>	Other	<u>MSC</u>
Net Weight	<u>321</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>321</u>	Connex#	<u>200256,</u>

V

Ticket #	<u>GAM015</u>	Date Collected	<u>7-18-99</u>	Date Weighed	<u>7-19-99</u>	Date Loaded	<u>7-19-99</u>
Site	<u>8</u>	Description	<u>LANDING MAT</u>	Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR SS	HTW CS
Gross Weight	<u>627</u>	Tare Weight	<u>292</u>	Net Weight	<u>335</u>	Other	<u>MSC</u>
Net Weight	<u>335</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>335</u>	Connex#	<u>200256</u>

978

5612

Weight Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓ Ticket # <u>GAM022</u>	Date Collected <u>7-16-99</u>	Date Weighed <u>7-19-99</u>	Date Loaded <u>7-19-99</u>
Site <u>8</u>	Description <u>LANDING MAT</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other HTW <u>CS</u>
Gross Weight <u>797</u>	Tare Weight <u>292</u>	Net Weight <u>505</u>	Initials <u>MSC</u>
Net Weight <u>505</u>	Tare to Connex <u>∅</u>	Gross to Connex <u>505</u>	Connex# <u>259042</u> ✓

✓ Ticket # <u>GAM023</u>	Date Collected <u>7-16-99</u>	Date Weighed <u>7-19-99</u>	Date Loaded <u>7-19-99</u>
Site <u>8</u>	Description <u>LANDING MAT</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other HTW <u>CS</u>
Gross Weight <u>818</u>	Tare Weight <u>292</u>	Net Weight <u>526</u>	Initials <u>MSC</u>
Net Weight <u>526</u>	Tare to Connex <u>∅</u>	Gross to Connex <u>526</u>	Connex# <u>259042</u> ✓ <u>1031</u>

✓ Ticket # <u>GAM024</u>	Date Collected <u>7-16-99</u>	Date Weighed <u>7-19-99</u>	Date Loaded <u>7-19-99</u>
Site <u>8</u>	Description <u>LANDING MAT</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other HTW <u>CS</u>
Gross Weight <u>723</u>	Tare Weight <u>292</u>	Net Weight <u>431</u>	Initials <u>MSC</u>
Net Weight <u>431</u>	Tare to Connex <u>∅</u>	Gross to Connex <u>431</u>	Connex# <u>259042</u> ✓ <u>1462</u>

1462

Ticket # GAM025 Date Collected 7-16-99 Date Weighed 7-19-99 Date Loaded 7-19-99

Site 8 Description LANDING MAT Count: N/A BDR HTW
 SS CS
Other _____

Gross Weight 687 Tare Weight 292 Net Weight 395 Initials MSC

Net Weight 395 Tare to Connex Ø Gross to Connex 395 Connex# 259042 ✓
1857

Ticket # GAM026 Date Collected 7-16-99 Date Weighed 7-19-99 Date Loaded 7-19-99

Site 8 Description LANDING MAT Count: N/A BDR HTW
 SS CS
Other _____

Gross Weight 821 Tare Weight ¹⁸⁷292 Net Weight 634 Initials MSC

Net Weight 634 Tare to Connex Ø Gross to Connex 634 Connex# 259042 ✓
2491

Ticket # GAM027 Date Collected 7-16-99 Date Weighed 7-19-99 Date Loaded 7-19-99

Site 8 Description LANDING MAT Count: N/A BDR HTW
 SS CS
Other _____

Gross Weight 702 Tare Weight 292 Net Weight 410 Initials MSC

Net Weight 410 Tare to Connex Ø Gross to Connex 410 Connex# 259042 ✓
2901

Weigh. Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

2901

✓ Ticket # <u>GAM028</u>	Date Collected <u>7-16-99</u>	Date Weighed <u>7-19-99</u>	Date Loaded <u>7-19-99</u>
Site <u>8</u>	Description <u>CAMPING MAT</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> HTW <input type="checkbox"/> CS Other _____
Gross Weight <u>883</u>	Tare Weight <u>292</u>	Net Weight <u>591</u>	Initials <u>MSC</u>
Net Weight <u>591</u>	Tare to Connex <u>Ø</u>	Gross to Connex <u>591</u>	Connex# <u>259042</u> ✓ <u>3492</u>

✓ Ticket # <u>GAM029</u>	Date Collected <u>7-16-99</u>	Date Weighed <u>7-19-99</u>	Date Loaded <u>7-19-99</u>
Site <u>8</u>	Description <u>CAMPING MAT</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> HTW <input type="checkbox"/> CS Other _____
Gross Weight <u>663</u>	Tare Weight <u>292</u> ¹⁵⁷	Net Weight <u>476</u>	Initials <u>MSC</u>
Net Weight <u>476</u>	Tare to Connex <u>Ø</u>	Gross to Connex <u>476</u>	Connex# <u>259042</u> ✓ <u>3968</u>

✓ Ticket # <u>GAM030</u>	Date Collected <u>7-20-99</u>	Date Weighed <u>7-20-99</u>	Date Loaded <u>7-20-99</u>
Site <u>8 12</u>	Description <u>CABLE DRUMS PTS</u> <u>CAMPING MAT</u>	Count: <u>Ø</u>	<input checked="" type="checkbox"/> BDR <input checked="" type="checkbox"/> SS <input checked="" type="checkbox"/> HTW <input type="checkbox"/> CS Other _____
Gross Weight <u>1355</u>	Tare Weight <u>581</u> ^{SHED 481}	Net Weight <u>874</u>	Initials <u>MSC</u>
Net Weight <u>874</u>	Tare to Connex <u>Ø</u>	Gross to Connex <u>874</u>	Connex# <u>205563</u> <u>259042</u>

W .ket
Debris Removal and Containe. d HTW Removal, Gambell Alaska

✓ Ticket # GAM031 Date Collected 7-20-99 Date Weighed 7-20-99 Date Loaded 7-20-99
 Site 12 Description DRUM PTS LANDING MAT Count: ~~1111~~ BDR HTW
 Gross Weight 1290 Tare Weight 319 Net Weight 971 201291 Initials MSC
 Net Weight 971 Tare to Connex ∅ Gross to Connex 971 Connex# 259042
 Other SS

✓ Ticket # GAM032 Date Collected 7-20-99 Date Weighed 7-20-99 Date Loaded 7-20-99
 Site 12 Description DRUMS PTS LANDING MAT Count: ~~1111~~ BDR HTW
 Gross Weight 1233 Tare Weight 319 Net Weight 914 201291 Initials MSC
 Net Weight 914 Tare to Connex ∅ Gross to Connex 914 Connex# 259042
 Other SS

✓ Ticket # GAM033 Date Collected 7-20-99 Date Weighed 7-20-99 Date Loaded 7-20-99
 Site 12 Description DRUMS PTS LANDING MAT Count: ~~1111~~ BDR HTW
 Gross Weight 1037 Tare Weight 481 Net Weight 556 201291 Initials MSC
 Net Weight 556 Tare to Connex ∅ Gross to Connex 556 Connex# 259042 201291
 Other SS

Weight Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>6AM034</u>	Date Collected <u>7-20-99</u>	Date Weighed <u>7-20-99</u>	Date Loaded <u>7-20-99</u>
Site <u>12</u>	Description <u>DRUM PTS / STAINED SOIL</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input checked="" type="checkbox"/> HTW <input type="checkbox"/> CS Other _____
Gross Weight <u>361</u>	Tare Weight <u>10</u>	Net Weight <u>351</u> ✓	20291 ✓ 203563 Initials <u>MSC</u>
Net Weight <u>351</u>	Tare to Connex <u>Ø</u> ✓	Gross to Connex <u>351</u>	Connex# <u>259042</u>

Ticket # <u>6AM035</u>	Date Collected <u>7-20-99</u>	Date Weighed <u>7-20-99</u>	Date Loaded <u>7-20-99</u>
Site <u>12</u>	Description <u>STAINED SOIL</u>	Count: <u>1 BAG</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other _____ <input type="checkbox"/> HTW <input type="checkbox"/> CS
Gross Weight <u>915</u>	Tare Weight <u>10</u>	Net Weight <u>905</u>	Initials <u>MSC</u> 205543
Net Weight <u>905</u>	Tare to Connex <u>PALETTE 45</u>	Gross to Connex <u>950</u>	Connex# <u>299235</u> ✓

Ticket # <u>6AM036</u>	Date Collected <u>7-20-99</u>	Date Weighed <u>7-20-99</u>	Date Loaded <u>7-20-99</u>
Site <u>12</u>	Description <u>STAINED SOIL</u>	Count: <u>1 BAG</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other _____ <input type="checkbox"/> HTW <input type="checkbox"/> CS
Gross Weight <u>1187</u>	Tare Weight <u>10</u>	Net Weight <u>1177</u>	Initials <u>MSC</u>
Net Weight <u>1187</u> ✓	Tare to Connex <u>PALETTE 45</u>	Gross to Connex <u>1232</u>	Connex# <u>299235</u> ✓

V. gh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Handwritten initials

✓ Ticket # GAM037 Date Collected 7-20-99 Date Weighed 7-20-99 Date Loaded 7-20-99

Site 12 Description STAINED JOIC Count: 1 BAG ~~BDR~~ SS HTW CS
Other _____

Gross Weight 477 Tare Weight 10 Net Weight 467 Initials MSC

Net Weight 467 Tare to Connex PALLET 45 55 Gross to Connex 512 Connex# 299235 ✓

✓ Ticket # GAM038 Date Collected 7-20-99 Date Weighed 7-20-99 Date Loaded 7-20-99

Site 12 Description PARTS DMS Count: N/A ~~BDR~~ SS HTW CS
Other _____

Gross Weight 1137 Tare Weight ALM 319 Net Weight 818 Initials MSC
201291V
205363

Net Weight 818 Tare to Connex ∅ Gross to Connex 818 Connex# 259042

594

Ticket # GAM039 Date Collected 7-21-99 Date Weighed 7-21-99 Date Loaded 7-21-99

Site 12 Description ^{marked} METAL DEBRIS PARTS DMS Count: N/A ~~BDR~~ SS HTW CS
SHED Other _____

Gross Weight 1125 Tare Weight ~~481~~ 481 Net Weight 645 Initials MSC
201291V
205363

Net Weight 645 Tare to Connex ∅ Gross to Connex 645 Connex# 259042

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM040</u>	Date Collected	<u>7-21-99</u>	Date Weighed	<u>7-21-99</u>	Date Loaded	<u>7-21-99</u>
Site	<u>12</u>	Description	<u>DRUM PTS</u>	Count:	<u>N/A</u>	BDR	<input checked="" type="checkbox"/> HTW
Gross Weight	<u>988</u>	Tare Weight	<u>319</u>	Net Weight	<u>669</u>	SS	<input type="checkbox"/> CS
Net Weight	<u>669</u>	Tare to Connex	<u>0</u>	Gross to Connex	<u>669</u>	Other	<u>MSC</u>
				Connex#	<u>205563</u>		

Ticket #	<u>GAM041</u>	Date Collected	<u>7-20-99</u>	Date Weighed	<u>7-21-99</u>	Date Loaded	<u>7-21-99</u>
Site	<u>12</u>	Description	<u>STAINED SOIL</u>	Count:	<u>1 BAG</u>	BDR	<input checked="" type="checkbox"/> HTW
Gross Weight	<u>861</u>	Tare Weight	<u>10</u>	Net Weight	<u>851</u>	SS	<input type="checkbox"/> CS
Net Weight	<u>851</u>	Tare to Connex	<u>55</u>	Gross to Connex	<u>906</u>	Other	<u>MSC</u>
				Connex#	<u>299235</u>		

Ticket #	<u>GAM042</u>	Date Collected	<u>7-20-99</u>	Date Weighed	<u>7-21-99</u>	Date Loaded	<u>7-21-99</u>
Site	<u>12</u>	Description	<u>STAINED SOIL</u>	Count:	<u>N/A</u>	BDR	<input checked="" type="checkbox"/> HTW
Gross Weight	<u>704</u>	Tare Weight	<u>10</u>	Net Weight	<u>694</u>	SS	<input type="checkbox"/> CS
Net Weight	<u>694</u>	Tare to Connex	<u>55</u>	Gross to Connex	<u>749</u>	Other	<u>MSC</u>
				Connex#	<u>299235</u>		

Weight Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓
Ticket # GAM043 Date Collected 7-20-99 Date Weighed 7-21-99 Date Loaded 7-21-99
Site 12 Description DRUM PTS Count: N/A BDR HTW
SS CS
Other _____
Gross Weight 135 Tare Weight 10 Net Weight 125 Initials MSC
Net Weight 125 Tare to Connex 10 Gross to Connex 135 Connex# 201291
~~205563~~

✓
Ticket # GAM044 Date Collected 7-20-99 Date Weighed 7-21-99 Date Loaded 7-21-99
Site 12 Description STAINED SOIL Count: 1 BAG BDR SS
SS CS
Other _____
Gross Weight 776 Tare Weight 10 Net Weight 766 Initials MSC
Net Weight 766 Tare to Connex 75 Gross to Connex 821 Connex# 299235 ✓

✓
Ticket # GAM045 Date Collected 7-21-99 Date Weighed 7-21-99 Date Loaded 7-21-99
Site 12 Description MIXED METAL Count: 1 BAG BDR SS
SS CS
Other _____
Gross Weight 253 Tare Weight 10 Net Weight 243 Initials MSC
Net Weight 243 Tare to Connex 10 Gross to Connex 253 Connex# 259042 ✓

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # GAM046 Date Collected 7-21-99 Date Weighed 7-21-99 Date Loaded 7-21-99

Site 12 Description DRUM PTS Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 463 Tare Weight 185 Net Weight 278 Initials MSC

Net Weight 278 Tare to Connex ∅ Gross to Connex 278 Connex# 205563 201291✓

Ticket # GAM047 Date Collected 7-21-99 Date Weighed 7-21-99 Date Loaded 7-21-99

Site 12 Description DRUM PTS Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 991 Tare Weight 319 Net Weight 672 Initials MSC

Net Weight 672 Tare to Connex ∅ Gross to Connex 672 Connex# 205563 201291✓

Ticket # GAM048 Date Collected 7-21-99 Date Weighed 7-21-99 Date Loaded 7-21-99

Site 12 Description STAINED SOIL Count: 1 BAG BDR SS
SS CS
Other _____

Gross Weight 454 Tare Weight 10 Net Weight 444 Initials MSC

Net Weight 444 Tare to Connex 55 Gross to Connex 499 Connex# 299235 ✓

Weight Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓
Ticket # GAM049 Date Collected 7-21-99 Date Weighed 7-21-99 Date Loaded 7-21-99
Site 12 Description MIXED METAL DEBRIS Count: N/A BDR HTW
SS Other _____ CS
Gross Weight 874 Tare Weight 319 Net Weight 555 Initials MSC
Net Weight 555 Tare to Connex ∅ Gross to Connex 555 Connex# 259042 ✓

✓
Ticket # GAM050 Date Collected 7-16-99 Date Weighed 7-21-99 Date Loaded 7-21-99
Site 8 Description LANDING MAT Count: N/A BDR HTW
SS Other _____ CS
Gross Weight 1153 Tare Weight 319 Net Weight 834 Initials MSC
Net Weight 834 Tare to Connex ∅ Gross to Connex 834 Connex# 200256 ✓

✓
Ticket # GAM051 Date Collected 7-16-99 Date Weighed 7-21-99 Date Loaded 7-21-99
Site 8 Description DRUM PTS Count: N/A BDR HTW
SS Other _____ CS
Gross Weight 1260 Tare Weight 319 Net Weight 941 Initials MSC
Net Weight 941 Tare to Connex ∅ Gross to Connex 941 Connex# 201291 ✓
205563

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Y
Ticket # GAM052 Date Collected 7-16-99 Date Weighed 7-21-99 Date Loaded 7-21-99
Site 6 Description DRUM PTS Count: N/A BDR HTW
SS CS
Other _____
Gross Weight 847 Tare Weight 319 Net Weight 528 Initials MSC
Net Weight 528 Tare to Connex ∅ Gross to Connex 528 Connex# 202291
205563

✓
Ticket # GAM053 Date Collected 7-16-99 Date Weighed 7-21-99 Date Loaded 7-21-99
Site 8 Description LANDING MAT Count: N/A BDR BDR
SS CS
Other _____
Gross Weight 1598 Tare Weight 319 Net Weight 1279 Initials MSC
Net Weight 1279 Tare to Connex ∅ Gross to Connex 1279 Connex# 200256

✓
Ticket # GAM054 Date Collected 7-16-99 Date Weighed 7-21-99 Date Loaded 7-21-99
Site 8 Description LANDING MAT Count: N/A BDR BDR
SS CS
Other _____
Gross Weight 1345 Tare Weight 319 Net Weight 1026 Initials MSC
Net Weight 1026 Tare to Connex ∅ Gross to Connex 1026 Connex# 200256

Wweigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓ Ticket # GAM055 Date Collected 7-21-99 Date Weighed 7-21-99 Date Loaded 7-21-99

Site 8 Description DRUM PTS Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 1254 Tare Weight 319 Net Weight 935 Initials MSC

Net Weight 935 Tare to Connex ∅ Gross to Connex 935 Connex# 205563 ^{201291✓}

✓ Ticket # GAM056 Date Collected 7-21-99 Date Weighed 7-21-99 Date Loaded 7-21-99

Site 8 Description DRUM PTS Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 1940 Tare Weight 319 Net Weight 1621 Initials MSC

Net Weight 1621 Tare to Connex ∅ Gross to Connex 1621 Connex# 205563 ^{201291✓}

✓ Ticket # GAM057 Date Collected 7-21-99 Date Weighed 7-21-99 Date Loaded 7-21-99

Site 5'
12 Description STAINED SOIL Count: 1-BAG BDR SS
SS CS
Other _____

Gross Weight 412 Tare Weight 7 Net Weight 405 Initials MSC

Net Weight 405 Tare to Connex WTP 52 Gross to Connex 457 Connex# 299235✓

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓

Ticket #	<u>GAM058</u>	Date Collected	<u>7-16-99</u>	Date Weighed	<u>7-22-99</u>	Date Loaded	<u>7-22-99</u>
Site	<u>8</u>	Description	<u>WIRES & CABLES</u>	Count:	<u>1 BAG</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____	HTW CS
Gross Weight	<u>288</u>	Tare Weight	<u>10</u>	Net Weight	<u>278</u> ✓	Initials <u>MSC</u>	
Net Weight	<u>278</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>285</u>	Connex#	<u>200256</u> ✓

✓

Ticket #	<u>GAM059</u>	Date Collected	<u>7-17-99</u>	Date Weighed	<u>7-22-99</u>	Date Loaded	<u>7-22-99</u>
Site	<u>8</u>	Description	<u>WIRES & CABLES</u>	Count:	<u>1 BAG</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____	HTW CS
Gross Weight	<u>238</u>	Tare Weight	<u>10</u>	Net Weight	<u>228</u>	Initials <u>MSC</u>	
Net Weight	<u>228</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>235</u>	Connex#	<u>200256</u> ✓

✓

Ticket #	<u>GAM060</u>	Date Collected	<u>7-17-99</u>	Date Weighed	<u>7-22-99</u>	Date Loaded	<u>7-22-99</u>
Site	<u>8</u>	Description	<u>WIRES & CABLES</u>	Count:	<u>1 BAG</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____	HTW CS
Gross Weight	<u>531</u>	Tare Weight	<u>10</u>	Net Weight	<u>521</u> ✓	Initials <u>MSC</u>	
Net Weight	<u>521</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>528</u>	Connex#	<u>200258</u> ✓

V. gh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓
Ticket # GAM061 Date Collected 7-17-99 Date Weighed 7-22-99 Date Loaded 7-22-99
Site 8 Description WIRES & CABLES Count: 1 BAG BDR HTW
 SS CS
Other _____
Gross Weight 485 Tare Weight 10 Net Weight 475 Initials MSC
Net Weight 475 Tare to Connex 7 Gross to Connex 482 Connex# 200256 ✓

✓
Ticket # GAM062 Date Collected 7-17-99 Date Weighed 7-22-99 Date Loaded 7-22-99
Site 8 Description MISC METAL DEBRIS Count: 1 BAG BDR HTW
 SS CS
Other _____
Gross Weight 251 Tare Weight 10 Net Weight 241 Initials MSC
Net Weight 241 Tare to Connex 7 Gross to Connex 248 Connex# 200256 ✓

✓
Ticket # GAM063 Date Collected 7-17-99 Date Weighed 7-22-99 Date Loaded 7-22-99
Site 8 Description SCED TRACK Count: 1 BDR HTW
 SS CS
Other _____
Gross Weight 425 Tare Weight 12 Net Weight 413 Initials MSC
Net Weight 413 Tare to Connex Ø Gross to Connex 413 Connex# 259042 ✓

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM064</u>	Date Collected	<u>7-20-99</u>	Date Weighed	<u>7-22-99</u>	Date Loaded	<u>7-22-99</u>
Site	<u>12</u>	Description	<u>BATTERY SOIL</u>		Count:	<u>1 DM</u>	BDR <u>HTW</u> SS <u>CS</u> Other _____
Gross Weight	<u>601</u>	Tare Weight	<u>53</u>	Net Weight	<u>548</u>	Initials	<u>MSC</u>
Net Weight	<u>548</u>	Tare to Connex	<u>50.49</u>	Gross to Connex	<u>598</u>	Connex#	<u>299235</u> ✓ / <u>299204</u> ✓

✓ Ticket #	<u>GAM065</u>	Date Collected	<u>7-20-99</u>	Date Weighed	<u>7-22-99</u>	Date Loaded	<u>7-22-99</u>
Site	<u>12</u>	Description	<u>BATTERIES (LEAD ACID)</u>		Count:	<u>9 BATT</u> <u>1 TOTE</u>	BDR <u>HTW</u> SS <u>CS</u> Other _____
Gross Weight	<u>619</u>	Tare Weight	<u>96</u>	Net Weight	<u>523</u>	Initials	<u>MSC</u>
Net Weight	<u>523</u>	Tare to Connex	<u>92</u>	Gross to Connex	<u>615</u>	Connex#	<u>299264</u> ✓ <u>299235</u>

Ticket #	<u>GAM066</u>	Date Collected	<u>7-22-99</u>	Date Weighed	<u>7-22-99</u>	Date Loaded	<u>7-22-99</u>
Site	<u>13</u>	Description	<u>WIRES & CABLE</u>		Count:	<u>N/A</u>	BDR <u>HTW</u> SS <u>CS</u> Other _____
Gross Weight	<u>635</u>	Tare Weight	<u>292</u>	Net Weight	<u>343</u>	Initials	<u>MSC</u>
Net Weight	<u>343</u>	Tare to Connex	<u>0</u>	Gross to Connex	<u>343</u>	Connex#	<u>259042</u> ✓

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM067</u>	Date Collected <u>7-22-99</u>	Date Weighed <u>7-22-99</u>	Date Loaded <u>7-22-99</u>
Site <u>12</u>	Description <u>DRAM Pts</u>	Count: <u>N/A</u>	BDR <input checked="" type="checkbox"/> HTW SS <input type="checkbox"/> CS Other _____
Gross Weight <u>436</u> 355	Tare Weight <u>3</u>	Net Weight <u>433</u> 352	Initials <u>MSC</u>
Net Weight <u>433</u> 352	Tare to Connex <u>Ø</u>	Gross to Connex <u>433</u> 352	Connex# <u>201291</u> <u>205563</u>

Ticket # <u>GAM068</u>	Date Collected <u>7-17-99</u>	Date Weighed <u>7-22-99</u>	Date Loaded <u>7-22-99</u>
Site <u>8</u>	Description <u>LANDING MAT</u>	Count: <u>N/A</u>	BDR <input checked="" type="checkbox"/> HTW SS <input type="checkbox"/> CS Other _____
Gross Weight <u>1981</u>	Tare Weight <u>319</u>	Net Weight <u>1662</u>	Initials <u>MSC</u>
Net Weight <u>1662</u>	Tare to Connex <u>Ø</u>	Gross to Connex <u>1662</u>	Connex# <u>201124</u>

Ticket # <u>GAM069</u>	Date Collected <u>7-17-99</u>	Date Weighed <u>7-22-99</u>	Date Loaded <u>7-22-99</u>
Site <u>8</u>	Description <u>LANDING MAT</u>	Count: <u>N/A</u>	BDR <input checked="" type="checkbox"/> HTW SS <input type="checkbox"/> CS Other _____
Gross Weight <u>1767</u>	Tare Weight <u>319</u>	Net Weight <u>1448</u>	Initials <u>MSC</u>
Net Weight <u>1448</u>	Tare to Connex <u>Ø</u>	Gross to Connex <u>1448</u>	Connex# <u>201124</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # GAM070 Date Collected 7-17-99 Date Weighed 7-22-99 Date Loaded 7-22-99

Site 8 Description LANDING MAT Count: N/A BDR HTW
 SS CS
Other _____

Gross Weight 1968 Tare Weight 319 Net Weight 1649 Initials MSC

Net Weight 1649 Tare to Connex Ø Gross to Connex 1649 Connex# 201124 ✓

Ticket # GAM071 Date Collected 7-17-99 Date Weighed 7-22-99 Date Loaded 7-22-99

Site 8 Description LANDING MAT Count: N/A BDR HTW
 SS CS
Other _____

Gross Weight 2088 Tare Weight 319 Net Weight 1769 Initials MSC

Net Weight 1769 Tare to Connex Ø Gross to Connex 1769 Connex# 201124 ✓

Ticket # GAM072 Date Collected 7-17-99 Date Weighed 7-22-99 Date Loaded 7-22-99

Site 8 Description LANDING MAT Count: N/A BDR HTW
 SS CS
Other _____

Gross Weight 1675 Tare Weight 319 Net Weight 1356 Initials MSC

Net Weight 1356 Tare to Connex Ø Gross to Connex 1356 Connex# 201124 ✓

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓ Ticket # GAM076 Date Collected 7-22-99 Date Weighed 7-23-99 Date Loaded 7-23-99

Site 8 Description WASTE TAR Count: IDM BDR HTW
SS CS
Other _____

Gross Weight 509 Tare Weight 84 Net Weight 425 Initials _____

Net Weight 425 Tare to Connex 78 Gross to Connex 505 Connex# 299264 ✓

✓ Ticket # GAM077 Date Collected 7-22-99 Date Weighed 7-23-99 Date Loaded 7-23-99

Site 8 Description WASTE TAR Count: IDM BDR HTW
SS CS
Other _____

Gross Weight 371 Tare Weight 84 Net Weight 289 Initials _____

Net Weight 289 Tare to Connex 78 Gross to Connex 367 Connex# 299264 ✓

✓ Ticket # GAM078 Date Collected 7-22-99 Date Weighed 7-23-99 Date Loaded 7-23-99

Site 8 Description WASTE TAR Count: IDM BDR HTW
SS CS
Other _____

Gross Weight 537 Tare Weight 82 Net Weight 455 Initials _____

Net Weight 455 Tare to Connex 78 Gross to Connex 533 Connex# 299264 ✓

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓
Ticket # GAM079 Date Collected 7-22-99 Date Weighed 7-23-99 Date Loaded 7-23-99
Site 8 Description WASTE TAR Count: 10M BDR HTW SS CS Other _____
Gross Weight 452 Tare Weight 82 Net Weight 380 Initials MSC
Net Weight 380 Tare to Connex 78 Gross to Connex 458 Connex# 299264 ✓

✓
Ticket # GAM080 Date Collected 7-22-99 Date Weighed 7-23-99 Date Loaded 7-23-99
Site 8 Description STAINED SOIL Count: 1 BAG BDR SS HTW CS Other _____
Gross Weight 864 Tare Weight 7 Net Weight 857 Initials MSC
Net Weight 857 Tare to Connex 7 Gross to Connex 864 Connex# 299235 ✓

✓
Ticket # GAM081 Date Collected 7-22-99 Date Weighed 7-23-99 Date Loaded 7-23-99
Site 8 Description STAINED SOIL Count: 1 BAG BDR SS HTW CS Other _____
Gross Weight 361 Tare Weight 7 Net Weight 354 Initials MSC
Net Weight 354 Tare to Connex 7 Gross to Connex 361 Connex# 299235 ✓

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

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Ticket # GAM082 Date Collected 7-22-99 Date Weighed 7-23-99 Date Loaded 7-23-99
Site 6 Description WASTE TAR Count: IDM BDR HTW
SS CS Other _____
Gross Weight 277 Tare Weight 82 Net Weight 195 Initials MSC
Net Weight 195 Tare to Connex 78 Gross to Connex 273 Connex# 299264 ✓

U
Ticket # GAM083 Date Collected 7-23-99 Date Weighed 7-23-99 Date Loaded 7-23-99
Site 6 Description DRUM PARTS Count: N/A BDR HTW
SS CS Other _____
Gross Weight 1536 Tare Weight 319 Net Weight 1237 Initials MSC
Net Weight 1237 Tare to Connex Ø Gross to Connex 1237 Connex# 205755 ✓

✓
Ticket # GAM084 Date Collected 7-23-99 Date Weighed 7-23-99 Date Loaded 7-23-99
Site 6 Description DRUM PTS Count: N/A BDR HTW
SS CS Other _____
Gross Weight 1439 Tare Weight 319 Net Weight 1120 Initials MSC
Net Weight 1120 Tare to Connex Ø Gross to Connex 1120 Connex# 205755 ✓

Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # GAM085 Date Collected 7-23-99 Date Weighed 7-23-99 Date Loaded 7-23-99

Site 6 Description DRUM PTS Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 1719 Tare Weight 319 Net Weight 1400 Initials MSC

Net Weight 1400 Tare to Connex ∅ Gross to Connex 1400 Connex# 205755 ✓

✓ Ticket # GAM086 Date Collected 7-23-99 Date Weighed 7-23-99 Date Loaded 7-23-99

Site 6 Description DRUM PTS Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 1547 Tare Weight 319 Net Weight 1228 Initials MSC

Net Weight 1228 Tare to Connex ∅ Gross to Connex 1228 Connex# 205755 ✓

Ticket # GAM087 Date Collected 7-23-99 Date Weighed 7-23-99 Date Loaded 7-23-99

Site 6 Description DRUM PARTS Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 1614 Tare Weight 319 Net Weight 1295 Initials MSC

Net Weight 1295 Tare to Connex ∅ Gross to Connex 1295 Connex# 205755 ✓

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

V Ticket # GAM088 Date Collected 7-23-99 Date Weighed 7-23-99 Date Loaded 7-23-99

Site 6 Description DRUM PTS Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 1936 Tare Weight 319 Net Weight 1617 Initials MSC

Net Weight 1617 Tare to Connex Ø Gross to Connex 1617 Connex# 205755 ✓

V Ticket # GAM089 Date Collected 7-23-99 Date Weighed 7-23-99 Date Loaded 7-23-99

Site 6 Description MISC METAL DEBRIS Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 2067 Tare Weight 319 Net Weight 1748 Initials MSC

Net Weight 1748 Tare to Connex Ø Gross to Connex 1748 Connex# 299074 ✓ [5]

V Ticket # GAM090 Date Collected 7-23-99 Date Weighed 7-23-99 Date Loaded 7-23-99

Site 3 Description MISC METAL DEBRIS Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 989 Tare Weight 319 Net Weight 670 Initials MSC

Net Weight 670 Tare to Connex Ø Gross to Connex 670 Connex# 299074 ✓

jh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM091</u>	Date Collected <u>7-23-99</u>	Date Weighed <u>7-23-99</u>	Date Loaded <u>7-23-99</u>
Site <u>3</u>	Description <u>2 Tanks & Drums DRUM PIS</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> HTW <input type="checkbox"/> CS Other _____
Gross Weight <u>972</u>	Tare Weight <u>319</u>	Net Weight <u>653</u>	Initials <u>MSC</u>
Net Weight <u>653</u>	Tare to Connex <u>0</u>	Gross to Connex <u>653</u>	Connex# <u>205755V</u>

Ticket # <u>GAM072</u>	Date Collected <u>7-23-99</u>	Date Weighed <u>7-23-99</u>	Date Loaded <u>7-23-99</u>
Site <u>3</u>	Description <u>MIXED METAL DEBRIS</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> HTW <input type="checkbox"/> CS Other _____
Gross Weight <u>478</u>	Tare Weight <u>319</u>	Net Weight <u>159</u>	Initials <u>MSC</u>
Net Weight <u>159</u>	Tare to Connex <u>0</u>	Gross to Connex <u>159</u>	Connex# <u>299074V</u>

Ticket # <u>GAM093</u>	Date Collected <u>7-24-99</u>	Date Weighed <u>7-24-99</u>	Date Loaded <u>7-24-99</u>
Site <u>2</u>	Description <u>STAINED SOIL</u>	Count: <u>1 BAG</u>	<input type="checkbox"/> BDR <input checked="" type="checkbox"/> SS <input type="checkbox"/> HTW <input type="checkbox"/> CS Other _____
Gross Weight <u>1631</u>	Tare Weight <u>87</u>	Net Weight <u>1624</u>	Initials <u>MSC</u>
Net Weight <u>1623</u>	Tare to Connex <u>87</u>	Gross to Connex <u>1631</u>	Connex# <u>2057844V</u>

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Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM094</u>	Date Collected <u>7-24-99</u>	Date Weighed <u>7-24-99</u>	Date Loaded <u>7-24-99</u>
Site <u>2</u>	Description <u>STAINED SOIL</u>	Count: <u>1 BAG</u>	BDR <u>(SS)</u> HTW <u>CS</u> Other _____
Gross Weight <u>1665</u>	Tare Weight <u>87</u>	Net Weight <u>1657</u> ¹⁶⁵⁶	Initials <u>MSC</u>
Net Weight <u>1657</u> ¹⁶⁵⁶	Tare to Connex <u>87</u>	Gross to Connex <u>1664</u> <u>1665</u>	Connex# <u>2057844V</u> <u>3288</u>

Ticket # <u>GAM095</u>	Date Collected <u>7-24-99</u>	Date Weighed <u>7-24-99</u>	Date Loaded <u>7-24-99</u>
Site <u>2</u>	Description <u>STAINED SOIL</u>	Count: <u>1 BAG</u>	BDR <u>(SS)</u> HTW <u>CS</u> Other _____
Gross Weight <u>905</u>	Tare Weight <u>87</u>	Net Weight <u>898</u>	Initials <u>MSC</u>
Net Weight <u>898</u>	Tare to Connex <u>87</u>	Gross to Connex <u>905</u>	Connex# <u>2057844V</u> <u>4195</u>

Ticket # <u>GAM096</u>	Date Collected <u>7-24-99</u>	Date Weighed <u>7-24-99</u>	Date Loaded <u>7-24-99</u>
Site <u>2</u>	Description <u>STAINED SOIL</u>	Count: <u>1 BAG</u>	BDR <u>(SS)</u> HTW <u>CS</u> Other _____
Gross Weight <u>2089</u>	Tare Weight <u>87</u>	Net Weight <u>2082</u>	Initials <u>MSC</u>
Net Weight <u>2082</u>	Tare to Connex <u>87</u>	Gross to Connex <u>2089</u>	Connex# <u>2057844V</u> <u>6282</u>

.g Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

6282

Ticket #	<u>GAM097</u>	Date Collected	<u>7-24-99</u>	Date Weighed	<u>7-24-99</u>	Date Loaded	<u>7-24-99</u>
Site	<u>2</u>	Description	<u>STAINED SOIL</u>	Count:	<u>1 BAG</u>	BDR <u>SS</u>	HTW <u>CS</u>
Gross Weight	<u>1417</u>	Tare Weight	<u>87</u>	Net Weight	<u>14109</u>	Other	<u>MSC</u>
Net Weight	<u>1410</u> <u>1409</u>	Tare to Connex	<u>87</u>	Gross to Connex	<u>1417</u>	Connex#	<u>2057844</u> ✓
						<u>7699</u>	

Ticket #	<u>GAM098</u>	Date Collected	<u>7-24-99</u>	Date Weighed	<u>7-24-99</u>	Date Loaded	<u>7-24-99</u>
Site	<u>2</u>	Description	<u>STAINED SOIL</u>	Count:	<u>1 BAG</u>	BDR <u>SS</u>	HTW <u>CS</u>
Gross Weight	<u>1887</u>	Tare Weight	<u>87</u>	Net Weight	<u>1880</u>	Other	<u>MSC</u>
Net Weight	<u>1880</u>	Tare to Connex	<u>87</u>	Gross to Connex	<u>1887</u>	Connex#	<u>2057844</u> ✓
						<u>9586</u> <u>9594</u>	

Ticket #	<u>GAM099</u>	Date Collected	<u>7-24-99</u>	Date Weighed	<u>7-24-99</u>	Date Loaded	<u>7-24-99</u>
Site	<u>2</u>	Description	<u>STAINED SOIL</u>	Count:	<u>1 BAG</u>	BDR <u>SS</u>	HTW <u>CS</u>
Gross Weight	<u>1802</u>	Tare Weight	<u>87</u>	Net Weight	<u>1794</u>	Other	<u>MSC</u>
Net Weight	<u>1794</u>	Tare to Connex	<u>87</u>	Gross to Connex	<u>1802</u>	Connex#	<u>2057844</u> ✓
						<u>1795</u> <u>2015704</u> <u>201580</u> <u>2057844</u>	

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM100</u>	Date Collected	<u>7-24-99</u>	Date Weighed	<u>7-24-99</u>	Date Loaded	<u>7-24-99</u>
Site	<u>2</u>	Description	<u>STAINED SOIL</u>	Count:	<u>1 BAG</u>	BDR <u>(SS)</u>	HTW CS
Gross Weight	<u>1980</u>	Tare Weight	<u>87</u>	Net Weight	<u>1972</u>	Other	<u>MSC</u>
Net Weight	<u>1972</u>	Tare to Connex	<u>87</u>	Gross to Connex	<u>1980</u>	Connex#	<u>201570V</u> 2057884 <u>3782</u>

Ticket #	<u>GAM101</u>	Date Collected	<u>7-24-99</u>	Date Weighed	<u>7-24-99</u>	Date Loaded	<u>7-24-99</u>
Site	<u>2</u>	Description	<u>STAINED SOIL</u>	Count:	<u>1 BAG</u>	BDR <u>(SS)</u>	HTW CS
Gross Weight	<u>1742</u>	Tare Weight	<u>87</u>	Net Weight	<u>1735</u>	Other	<u>MSC</u>
Net Weight	<u>1735</u>	Tare to Connex	<u>87</u>	Gross to Connex	<u>1742</u>	Connex#	<u>201570V</u> 2057884 <u>5524</u>

Ticket #	<u>GAM102</u>	Date Collected	<u>7-24-99</u>	Date Weighed	<u>7-24-99</u>	Date Loaded	<u>7-24-99</u>
Site	<u>2</u>	Description	<u>STAINED SOIL</u>	Count:	<u>1 BAG</u>	BDR <u>(SS)</u>	HTW CS
Gross Weight	<u>1842</u>	Tare Weight	<u>87</u>	Net Weight	<u>1835</u>	Other	<u>MSC</u>
Net Weight	<u>1835</u>	Tare to Connex	<u>87</u>	Gross to Connex	<u>1842</u>	Connex#	<u>201570V</u> 2057884 <u>1328</u> <u>2037884V</u>

Waste Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓ Ticket # GAM103 Date Collected 7-24-99 Date Weighed 7-24-99 Date Loaded 7-24-99

Site 2 Description STAINED SOIL Count: 1 BAG BDR SS HTW CS
Other _____

Gross Weight 1390 Tare Weight 87 Net Weight 1383 Initials MSC

Net Weight 1382 Tare to Connex 87 Gross to Connex 1390 Connex# 201570
6914

✓ Ticket # GAM104 Date Collected 7-24-99 Date Weighed 7-24-99 Date Loaded 7-24-99

Site 2 Description STAINED SOIL Count: 1 BAG BDR SS HTW CS
Other _____

Gross Weight 1627 Tare Weight 87 Net Weight 1540 Initials MSC
1620

Net Weight 1519 Tare to Connex 87 Gross to Connex 1627 Connex# 201570
8591

✓ Ticket # GAM105 Date Collected 7-24-99 Date Weighed 7-24-99 Date Loaded 7-24-99

Site 2 Description STAINED SOIL Count: 1 BAG BDR SS HTW CS
Other _____

Gross Weight 1733 Tare Weight 87 Net Weight 1726 Initials MSC
1726

Net Weight 1726 Tare to Connex 87 Gross to Connex 1733 Connex# 201570
10274

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM106</u>	Date Collected <u>7-24-99</u>	Date Weighed <u>7-24-99</u>	Date Loaded <u>7-24-99</u>
Site <u>2</u>	Description <u>STAINED SOIL</u>	Count: <u>1 BAG</u>	BDR <input checked="" type="radio"/> <u>SS</u> HTW CS Other _____
Gross Weight <u>1634</u>	Tare Weight <u>87</u>	Net Weight <u>1626</u> ¹⁶²⁷	Initials <u>MSC</u>
Net Weight <u>1626</u> ¹⁶²⁷	Tare to Connex <u>87</u>	Gross to Connex <u>1634</u>	Connex# <u>2057849</u> ✓ <u>201570</u> <u>14872</u>

Ticket # <u>GAM107</u>	Date Collected <u>7-24-99</u>	Date Weighed <u>7-24-99</u>	Date Loaded <u>7-24-99</u>
Site <u>2</u>	Description <u>STAINED SOIL</u>	Count: <u>1 BAG</u>	BDR <input checked="" type="radio"/> <u>SS</u> HTW CS Other _____
Gross Weight <u>1743</u>	Tare Weight <u>87</u>	Net Weight <u>1735</u> ¹⁷³⁶	Initials <u>MSC</u>
Net Weight <u>1735</u> ¹⁷³⁶	Tare to Connex <u>87</u>	Gross to Connex <u>1743</u>	Connex# <u>2057844</u> ✓ <u>201570</u>

Ticket # <u>GAM108</u>	Date Collected <u>7-23-99</u> 7-24-99	Date Weighed <u>7-24-99</u>	Date Loaded <u>7-24-99</u>
Site <u>3</u>	Description <u>MIXED METAL DEBRIS</u>	Count: <u>N/A</u> 1 BAG	BDR <input checked="" type="radio"/> SS HTW CS Other _____
Gross Weight <u>833</u>	Tare Weight <u>319</u>	Net Weight <u>514</u>	Initials <u>MSC</u>
Net Weight <u>514</u>	Tare to Connex <u>319</u>	Gross to Connex <u>514</u>	Connex# <u>299074</u> ✓

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM109</u>	Date Collected <u>7-23-99</u> 7-28-99	Date Weighed <u>7-24-99</u>	Date Loaded <u>7-24-99</u>
Site <u>3</u>	Description <u>DRUM PTS</u> STAINED SOIL	Count: <u>1 BAG</u>	BDR <input checked="" type="checkbox"/> HTW <input checked="" type="checkbox"/> Other _____
Gross Weight <u>816</u>	Tare Weight <u>319</u>	Net Weight <u>497</u>	Initials <u>MSC</u>
Net Weight <u>497</u>	Tare to Connex <u>0</u>	Gross to Connex <u>497</u>	Connex# <u>205755</u> ✓

Ticket # <u>GAM110</u>	Date Collected <u>7-24-99</u>	Date Weighed <u>7-24-99</u>	Date Loaded <u>7-24-99</u>
Site <u>5</u>	Description <u>MIXED METAL DEBRIS</u> STAINED SOIL	Count: <u>4 BAG</u>	BDR <input checked="" type="checkbox"/> HTW <input checked="" type="checkbox"/> Other _____
Gross Weight <u>873</u>	Tare Weight <u>319</u>	Net Weight <u>554</u> 574	Initials <u>MSC</u>
Net Weight <u>554</u> 574	Tare to Connex <u>0</u>	Gross to Connex <u>554</u> 574	Connex# <u>299074</u> ✓

Ticket # <u>GAM111</u>	Date Collected <u>7-17-99</u> 7-24-99	Date Weighed <u>7-24-99</u>	Date Loaded <u>7-24-99</u>
Site <u>8</u>	Description <u>LANDING MAT</u> STAINED SOIL	Count: <u>N/A</u>	BDR <input checked="" type="checkbox"/> HTW <input checked="" type="checkbox"/> Other _____
Gross Weight <u>866</u>	Tare Weight <u>CHAIN COVER 32</u>	Net Weight <u>834</u>	Initials <u>MSC</u>
Net Weight <u>834</u>	Tare to Connex <u>0</u>	Gross to Connex <u>834</u>	Connex# <u>201153</u> ✓ 201124

MSC

MSC

MSC

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM112</u>	Date Collected <u>7-17-99</u>	Date Weighed <u>7-25-99</u>	Date Loaded <u>7-25-99</u>
Site <u>6</u>	Description <u>LANDING MAT</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other <input type="checkbox"/> HTW <input type="checkbox"/> CS
Gross Weight <u>1203</u>	Tare Weight <u>3259 55</u>	Net Weight <u>1148</u>	Initials <u>MSC</u>
Net Weight <u>1148</u>	Tare to Connex <u>∅</u>	Gross to Connex <u>1148</u>	Connex# <u>201153</u> ✓
			1982

Ticket # <u>GAM113</u>	Date Collected <u>7-17-99</u>	Date Weighed <u>7-25-99</u>	Date Loaded <u>7-25-99</u>
Site <u>6</u>	Description <u>LANDING MAT</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other <input type="checkbox"/> HTW <input type="checkbox"/> CS
Gross Weight <u>1646</u>	Tare Weight <u>3219 55</u>	Net Weight <u>1591</u>	Initials <u>MSC</u>
Net Weight <u>1591</u>	Tare to Connex <u>∅</u>	Gross to Connex <u>1591</u>	Connex# <u>201153</u> ✓
			3573

Ticket # <u>GAM114</u>	Date Collected <u>7-17-99</u>	Date Weighed <u>7-25-99</u>	Date Loaded <u>7-25-99</u>
Site <u>6</u>	Description <u>LANDING MAT</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other <input type="checkbox"/> HTW <input type="checkbox"/> CS
Gross Weight <u>1716</u>	Tare Weight <u>3219 55</u>	Net Weight <u>1661</u>	Initials <u>MSC</u>
Net Weight <u>1661</u>	Tare to Connex <u>∅</u>	Gross to Connex <u>1661</u>	Connex# <u>201153</u> ✓
			5234

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM115</u>	Date Collected <u>7-17-99</u> 7-17-99	Date Weighed <u>7-25-99</u>	Date Loaded <u>7-25-99</u>
Site <u>8</u>	Description <u>LANDING MAT</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____
Gross Weight <u>1988</u>	Tare Weight <u>55</u>	Net Weight <u>1933</u>	Initials <u>MSC</u>
Net Weight <u>1933</u>	Tare to Connex <u>∅</u>	Gross to Connex <u>1933</u>	Connex# <u>201153</u> ✓ 7167

Ticket # <u>GAM116</u>	Date Collected <u>7-17-99</u>	Date Weighed <u>7-25-99</u>	Date Loaded <u>7-25-99</u>
Site <u>8</u>	Description <u>LANDING MAT</u> LANDING MAT	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____
Gross Weight <u>1801</u>	Tare Weight <u>55</u>	Net Weight <u>1746</u>	Initials <u>MSC</u>
Net Weight <u>1746</u>	Tare to Connex <u>∅</u>	Gross to Connex <u>1746</u>	Connex# <u>201153</u> ✓ 8913

Ticket # <u>GAM117</u>	Date Collected <u>7-17-99</u>	Date Weighed <u>7-25-99</u>	Date Loaded <u>7-25-99</u>
Site <u>8</u>	Description <u>WEASEL TRACK</u> LANDING MAT	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____
Gross Weight <u>881</u>	Tare Weight <u>23</u>	Net Weight <u>858</u>	Initials <u>MSC</u>
Net Weight <u>858</u>	Tare to Connex <u>∅</u>	Gross to Connex <u>858</u>	Connex# <u>201153</u> ✓ 9771

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM118</u>	Date Collected	<u>7-17-99</u>	Date Weighed	<u>7-25-99</u>	Date Loaded	<u>7-25-99</u>
Site	<u>8</u>	Description	<u>LANDING MAT</u>	Count:	<u>N/A</u>	<u>BDR</u> SS Other _____	HTW CS
Gross Weight	<u>1215</u>	Tare Weight	<u>1149</u>	Net Weight	<u>1149</u>	Initials	<u>MSC</u>
Net Weight	<u>1149</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>1149</u>	Connex#	<u>201153</u> ✓ <u>10920</u>

Ticket #	<u>GAM119</u>	Date Collected	<u>7-17-99</u>	Date Weighed	<u>7-25-99</u>	Date Loaded	<u>7-25-99</u>
Site	<u>6</u>	Description	<u>LANDING MAT</u>	Count:	<u>N/A</u>	<u>BDR</u> SS Other _____	HTW CS
Gross Weight	<u>1317</u>	Tare Weight	<u>1149</u>	Net Weight	<u>1251</u>	Initials	<u>MSC</u>
Net Weight	<u>1251</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>1251</u>	Connex#	<u>201153</u> ✓ <u>12171</u>

Ticket #	<u>GAM120</u>	Date Collected	<u>7-17-99</u>	Date Weighed	<u>7-25-99</u>	Date Loaded	<u>7-25-99</u>
Site	<u>8</u>	Description	<u>LANDING MAT</u>	Count:	<u>N/A</u>	<u>BDR</u> SS Other _____	HTW CS
Gross Weight	<u>2086</u>	Tare Weight	<u>319</u>	Net Weight	<u>2031</u>	Initials	<u>MSC</u>
Net Weight	<u>2031</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>2031</u>	Connex#	<u>201448</u> ✓ <u>201153</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

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Ticket #	<u>GAM121</u>	Date Collected	<u>7-17-99</u>	Date Weighed	<u>7-25-99</u>	Date Loaded	<u>7-25-99</u>
Site	<u>8</u>	Description	<u>TAR WINDING MAT</u>		Count:	<u>1 DM</u> <u>NA</u> <u>85</u>	<u>BDR</u> <u>SS</u> <u>HTW</u> <u>CS</u> Other _____
Gross Weight	<u>852</u>	Tare Weight	<u>82</u>	Net Weight	<u>770</u>	Initials	<u>MSC</u>
Net Weight	<u>770</u>	Tare to Connex	<u>82</u>	Gross to Connex	<u>852</u>	Connex#	<u>299264</u> <u>201448</u>

Ticket #	<u>GAM122</u>	Date Collected	<u>7-17-99</u>	Date Weighed	<u>7-25-99</u>	Date Loaded	<u>7-25-99</u>
Site	<u>8</u>	Description	<u>TAR WINDING MAT</u>		Count:	<u>1 DM</u> <u>SS</u> <u>55</u>	<u>BDR</u> <u>SS</u> <u>HTW</u> <u>CS</u> Other _____
Gross Weight	<u>542</u>	Tare Weight	<u>53</u>	Net Weight	<u>489</u>	Initials	_____
Net Weight	<u>489</u>	Tare to Connex	<u>53</u>	Gross to Connex	<u>542</u>	Connex#	<u>299264</u> <u>201448</u>

Ticket #	<u>GAM123</u>	Date Collected	<u>7-17-99</u>	Date Weighed	<u>7-25-99</u>	Date Loaded	<u>7-25-99</u>
Site	<u>8 ST10</u>	Description	<u>STAINED SOIL WINDING MAT</u>		Count:	<u>1 BTRG</u> <u>SS</u> Other _____	<u>BDR</u> <u>SS</u> <u>HTW</u> <u>CS</u>
Gross Weight	<u>547</u>	Tare Weight	<u>7</u>	Net Weight	<u>540</u>	Initials	<u>MSC</u>
Net Weight	<u>540</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>547</u>	Connex#	<u>299235</u> <u>201448</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM124</u>	Date Collected	<u>7-25-99</u>	Date Weighed	<u>7-25-99</u>	Date Loaded	<u>7-25-99</u>
Site	<u>10</u>	Description	<u>DRUM PARTS</u> LANDING MAT	Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____	<input checked="" type="checkbox"/> HTW <input type="checkbox"/> CS
Gross Weight	<u>1400</u>	Tare Weight	<u>319</u>	Net Weight	<u>1081</u>	Initials	<u>MSC</u>
Net Weight	<u>1081</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>1081</u>	Connex#	<u>201216</u> 201448

Ticket #	<u>GAM125</u>	Date Collected	<u>7-25-99</u>	Date Weighed	<u>7-25-99</u>	Date Loaded	<u>7-25-99</u>
Site	<u>10</u>	Description	<u>DRUM PARTS</u> LANDING MAT	Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____	<input checked="" type="checkbox"/> HTW <input type="checkbox"/> CS
Gross Weight	<u>1070</u>	Tare Weight	<u>319</u>	Net Weight	<u>751</u>	Initials	<u>MSC</u>
Net Weight	<u>751</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>751</u>	Connex#	<u>201216</u> 201448

Ticket #	<u>GAM126</u>	Date Collected	<u>7-17-99</u>	Date Weighed	<u>7-25-99</u>	Date Loaded	<u>7-25-99</u>
Site	<u>10</u>	Description	<u>DRUM PARTS</u> LANDING MAT	Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____	<input checked="" type="checkbox"/> HTW <input type="checkbox"/> CS
Gross Weight	<u>1301</u>	Tare Weight	<u>319</u>	Net Weight	<u>982</u>	Initials	<u>MSC</u>
Net Weight	<u>982</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>982</u>	Connex#	<u>201216</u> 201448

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # GAM127 Date Collected 7-25-99 Date Weighed 7-25-99 Date Loaded 7-25-99

Site 10 Description DRUM PTS Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 1318 Tare Weight 319 Net Weight 999 Initials MSC

Net Weight 999 Tare to Connex ∅ Gross to Connex 999 Connex# 201216 ✓
201216 ✓

Ticket # GAM128 Date Collected 7-25-99 Date Weighed 7-25-99 Date Loaded 7-25-99

Site 10 Description DRUM PTS Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 1214 Tare Weight 319 Net Weight 895 Initials MSC

Net Weight 895 Tare to Connex ∅ Gross to Connex 895 Connex# 201216 ✓
201216 ✓

Ticket # GAM129 Date Collected 7-25-99 Date Weighed 7-25-99 Date Loaded 7-25-99

Site 10 Description DRUM PTS Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 884 Tare Weight 319 Net Weight 565 Initials MSC

Net Weight 565 Tare to Connex ∅ Gross to Connex 565 Connex# 201216 ✓
201216 ✓

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

J

Ticket #	<u>GAM130</u>	Date Collected	<u>7-26-99</u>	Date Weighed	<u>7-26-99</u> 7-29-99	Date Loaded	<u>7-26-99</u> 7-29-99
Site	<u>5T 12</u>	Description	<u>MISC. STAINED SOIL</u> <u>MIXED METAL DEBRIS</u>		Count:	<u>1 BAG</u>	<input checked="" type="checkbox"/> BDR <input checked="" type="checkbox"/> SS Other _____
Gross Weight	<u>1535</u>	Tare Weight	<u>1389</u>	Net Weight	<u>1528</u>	Initials	<u>MSC</u>
Net Weight	<u>1528</u>	Tare to Connex	<u>0</u>	Gross to Connex	<u>1535</u>	Connex#	<u>299235</u> ✓ <u>201570</u> 201092

299235 ✓ 201570

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Ticket #	<u>GAM131</u>	Date Collected	<u>7-26-99</u>	Date Weighed	<u>7-29-99</u>	Date Loaded	<u>7-29-99</u>
Site	<u>8</u>	Description	<u>MISC. METAL DEBRIS</u> <u>DRUM PARTS</u>		Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR <input checked="" type="checkbox"/> SS <input checked="" type="checkbox"/> HTW <input checked="" type="checkbox"/> CS Other _____
Gross Weight	<u>1998</u>	Tare Weight	<u>319</u>	Net Weight	<u>1679</u>	Initials	<u>MSC</u>
Net Weight	<u>1679</u>	Tare to Connex	<u>0</u>	Gross to Connex	<u>1679</u>	Connex#	<u>201448</u> ✓ <u>201216</u>

201448 ✓ 201216

J

Ticket #	<u>GAM132</u>	Date Collected	<u>7-26-99</u>	Date Weighed	<u>7-29-99</u>	Date Loaded	<u>7-29-99</u>
Site	<u>8</u>	Description	<u>MISC. METAL DEBRIS</u> <u>DRUM PARTS</u>		Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR <input checked="" type="checkbox"/> SS <input checked="" type="checkbox"/> HTW <input checked="" type="checkbox"/> CS Other _____
Gross Weight	<u>1210</u>	Tare Weight	<u>319</u>	Net Weight	<u>891</u>	Initials	<u>MSC</u>
Net Weight	<u>891</u>	Tare to Connex	<u>0</u>	Gross to Connex	<u>891</u>	Connex#	<u>201448</u> ✓ <u>201216</u>

201448 ✓ 201216

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM133</u>	Date Collected <u>7-26-99</u>	Date Weighed <u>7-29-99</u>	Date Loaded <u>7-29-99</u>
Site <u>8</u>	Description <u>MISC METAL DEBRIS</u> DRUM PARTS (LANDING MAT & MAN HOLE COVER)	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input checked="" type="checkbox"/> HTW <input type="checkbox"/> CS Other _____
Gross Weight <u>1527</u>	Tare Weight <u>319</u>	Net Weight <u>1208</u>	Initials <u>MSC</u>
Net Weight <u>1208</u>	Tare to Connex <u>∅</u>	Gross to Connex <u>1208</u>	Connex# <u>201448</u> 201216

Ticket # <u>GAM134</u>	Date Collected <u>7-26-99</u>	Date Weighed <u>7-27-99</u>	Date Loaded <u>7-27-99</u>
Site <u>8</u>	Description <u>STAINED SOIL</u>	Count: <u>1 BAG</u>	<input type="checkbox"/> BDR <input checked="" type="checkbox"/> SS <input type="checkbox"/> HTW <input type="checkbox"/> CS Other _____
Gross Weight <u>610</u>	Tare Weight <u>7</u>	Net Weight <u>603</u>	Initials <u>MSC</u>
Net Weight <u>603</u>	Tare to Connex <u>7</u>	Gross to Connex <u>610</u>	Connex# 201235 / 201570

Ticket # <u>GAM135</u>	Date Collected <u>7-26-99</u>	Date Weighed <u>7-27-99</u>	Date Loaded <u>7-27-99</u>
Site <u>8</u>	Description <u>MISC. METAL DEBRIS</u>	Count: <u>1 BAG</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> HTW <input type="checkbox"/> CS Other _____
Gross Weight <u>452</u>	Tare Weight <u>7</u>	Net Weight <u>445</u>	Initials <u>MSC</u>
Net Weight <u>445</u>	Tare to Connex <u>7</u>	Gross to Connex <u>452</u>	Connex# <u>259042</u>

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Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓ Ticket # <u>GAM136</u>	Date Collected <u>7-25-99</u>	Date Weighed <u>7-27-99</u>	Date Loaded <u>7-27-99</u>
Site <u>8</u>	Description <u>MISC METAL DEBRIS</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other
Gross Weight <u>1765</u>	Tare Weight <u>319</u>	Net Weight <u>1443</u> <u>1446</u>	HTW <u>CS</u> Initials <u>MSC</u>
Net Weight <u>1443</u> <u>1446</u>	Tare to Connex <u>Ø</u>	Gross to Connex <u>1443</u> <u>1446</u>	Connex# <u>259042</u> ✓

✓ Ticket # <u>GAM137</u>	Date Collected <u>7-26-99</u>	Date Weighed <u>7-29-99</u>	Date Loaded <u>7-29-99</u>
Site <u>8</u>	Description <u>LANDING MAT</u> MISC METAL DEBRIS	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other
Gross Weight <u>2008</u>	Tare Weight <u>319</u>	Net Weight <u>1689</u>	HTW <u>CS</u> Initials <u>MSC</u>
Net Weight <u>1689</u>	Tare to Connex <u>Ø</u>	Gross to Connex <u>1689</u>	Connex# <u>201448</u> ✓

Ticket # <u>GAM138</u>	Date Collected <u>9-29-99</u> 7-26-99	Date Weighed <u>7-29-99</u>	Date Loaded <u>7-29-99</u>
Site <u>4A</u>	Description <u>TRANSFORMERS</u> LANDING MAT	Count: <u>3</u> N/A	<input type="checkbox"/> BDR <input type="checkbox"/> SS <input checked="" type="checkbox"/> HTW <input type="checkbox"/> Other
Gross Weight <u>602</u>	Tare Weight <u>185</u> <u>319</u> 319 TOTE & STRAP	Net Weight <u>447</u>	Initials <u>MSC</u>
Net Weight <u>447</u>	Tare to Connex <u>185</u> TOTE	Gross to Connex <u>583</u>	Connex# <u>299264</u> ✓ 201448

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

1606
136

Ticket # <u>GAM139</u>	Date Collected <u>7-29-99</u>	Date Weighed <u>7-29-99</u>	Date Loaded <u>7-29-99</u>
Site <u>4A</u>	Description <u>GENERATOR</u>	Count: <u>1</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input checked="" type="checkbox"/> HTW <input type="checkbox"/> CS Other _____
Gross Weight <u>455</u>	Tare Weight <u>319</u>	Net Weight <u>136</u>	Initials <u>MSC</u>
Net Weight <u>136</u>	Tare to Connex <u>0</u>	Gross to Connex <u>136</u>	Connex# <u>201216</u>

Ticket # <u>GAM140</u>	Date Collected <u>7-29-99</u>	Date Weighed <u>7-29-99</u>	Date Loaded <u>7-29-99</u>
Site <u>4B</u>	Description <u>GENERATORS</u>	Count: <u>3</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input checked="" type="checkbox"/> HTW <input type="checkbox"/> CS Other _____
Gross Weight <u>1606</u>	Tare Weight <u>319</u>	Net Weight <u>1287</u>	Initials <u>MSC</u>
Net Weight <u>1287</u>	Tare to Connex <u>0</u>	Gross to Connex <u>1287</u>	Connex# <u>201216</u>

Ticket # <u>GAM141</u>	Date Collected <u>7-29-99</u>	Date Weighed <u>7-29-99</u>	Date Loaded <u>7-29-99</u>
Site <u>4B</u>	Description <u>ENGINE BLOCKS</u>	Count: <u>2</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input checked="" type="checkbox"/> HTW <input type="checkbox"/> CS Other _____
Gross Weight <u>420</u>	Tare Weight <u>519</u>	Net Weight <u>401</u>	Initials <u>MSC</u>
Net Weight <u>401</u>	Tare to Connex <u>0</u>	Gross to Connex <u>401</u>	Connex# <u>201216</u>

MSC

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓ Ticket # GAM142 Date Collected 7-26-99 Date Weighed 7-29-99 Date Loaded 7-29-99

Site 8 Description LANDING MAT Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 1090 Tare Weight 319 Net Weight 771 Initials MSC

Net Weight 771 Tare to Connex ∅ Gross to Connex 771 Connex# 201448✓

✓ Ticket # GAM143 Date Collected 7-26-99 Date Weighed 7-29-99 Date Loaded 7-29-99

Site 8 Description LANDING MAT Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 1449 Tare Weight 319 Net Weight 1130 Initials MSC

Net Weight 1130 Tare to Connex ∅ Gross to Connex 1130 Connex# 201448✓

✓ Ticket # GAM144 Date Collected 7-26-99 Date Weighed 7-29-99 Date Loaded 7-29-99

Site 8 Description LANDING MAT Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 1720 Tare Weight 319 Net Weight 1401 Initials MSC

Net Weight 1401 Tare to Connex ∅ Gross to Connex 1401 Connex# 201448✓

MSC

MSC

MSC

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓ Ticket # <u>6AM145</u>	Date Collected <u>7-20-99</u>	Date Weighed <u>7-31-99</u> 7-29-99	Date Loaded <u>7-31-99</u> 7-29-99
Site <u>8</u>	Description <u>LANDING MAT</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____
Gross Weight <u>1288</u>	Tare Weight <u>319</u>	Net Weight <u>969</u>	HTW CS _____ Initials <u>MSC</u>
Net Weight <u>969</u>	Tare to Connex <u>Ø</u>	Gross to Connex <u>969</u>	Connex# <u>201448</u> ✓

✓ Ticket # <u>6AM146</u>	Date Collected <u>7-20-99</u>	Date Weighed <u>7-31-99</u> 7-30-99	Date Loaded <u>7-31-99</u> 7-30-99
Site <u>8</u>	Description <u>LANDING MAT</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____
Gross Weight <u>1128</u>	Tare Weight <u>319</u>	Net Weight <u>809</u>	HTW CS _____ Initials _____
Net Weight <u>809</u>	Tare to Connex <u>Ø</u>	Gross to Connex <u>809</u>	Connex# <u>201448</u> ✓ <u>201153</u> <u>201448</u>

✓ Ticket # <u>6AM147</u>	Date Collected <u>7-20-99</u>	Date Weighed <u>7-31-99</u>	Date Loaded <u>7-31-99</u>
Site <u>8</u>	Description <u>LANDING MAT</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____
Gross Weight <u>1526</u>	Tare Weight <u>319</u>	Net Weight <u>1209</u>	HTW CS _____ Initials _____
Net Weight <u>1209</u>	Tare to Connex <u>Ø</u>	Gross to Connex <u>1209</u>	Connex# <u>201448</u> ✓ <u>201124</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓ Ticket #	GAM148 GA148	Date Collected	7-20-99	Date Weighed	7-31-99	Date Loaded	7-31-99	
Site	8	Description	LANDING MAT		Count:	N/A	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other	HTW CS
Gross Weight	1572	Tare Weight	319	Net Weight	1253		Initials	MSC
Net Weight	1253	Tare to Connex	∅	Gross to Connex	1253	Connex#	20124 ✓ 201278	

✓ Ticket #	GAM149	Date Collected	7-20-99	Date Weighed	7-31-99	Date Loaded	7-31-99	
Site	8	Description	LANDING MAT		Count:	N/A	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other	HTW CS
Gross Weight	1382	Tare Weight	319	Net Weight	1063		Initials	MSC
Net Weight	1063	Tare to Connex	∅	Gross to Connex	1063	Connex#	201124 ✓ 201278	

✓ Ticket #	GAM150	Date Collected	7-20-99	Date Weighed	7-31-99	Date Loaded	7-31-99	
Site	8	Description	LANDING MAT & WIRES & CABLES		Count:	N/A	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other	HTW CS
Gross Weight	1375	Tare Weight	319	Net Weight	1056		Initials	MSC
Net Weight	1056	Tare to Connex	∅	Gross to Connex	1056	Connex#	201124 ✓ 201278	

W. Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓ Ticket # GAM151 Date Collected 7-20-99 Date Weighed 7-31-99 Date Loaded 7-31-99

Site 8 Description LANDING MAT Count: N/A BDR HTW
 SS CS
Other _____

Gross Weight 1332 Tare Weight ~~319~~ 54 Net Weight 1278 Initials MSC

Net Weight 1278 Tare to Connex 0 Gross to Connex 1278 Connex# 201278 ✓

✓ Ticket # GAM152 Date Collected 7-10-99 Date Weighed 7-31-99 Date Loaded 7-31-99

Site 8 Description LANDING MAT Count: N/A BDR HTW
 SS CS
Other _____

Gross Weight 1220 Tare Weight 319 54 Net Weight 1166 Initials MSC

Net Weight 1166 Tare to Connex 0 Gross to Connex 1166 Connex# 201278 ✓

✓ Ticket # GAM153 Date Collected 7-30-99 Date Weighed 7-31-99 Date Loaded 7-31-99

Site 8 4B Description CONT. SOIL Count: 1 BAG BDR HTW
LANDING MAT SS CS
Other _____

Gross Weight 625 Tare Weight 319 54 Net Weight 618 Initials MSC

Net Weight 618 Tare to Connex 0 7 Gross to Connex 625 Connex# 205676 ✓
201278 2056766 ✓

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓ Ticket #	GAM154	Date Collected	7-30-99 7-20-99	Date Weighed	7-31-99	Date Loaded	7-31-99	
Site	4B	Description	CONT SOIL LANDING MAT		Count:	1 BAG N/A	BDR SS Other	HTW CS
Gross Weight	498	Tare Weight	319	Net Weight	491	Initials	MSC	
Net Weight	491	Tare to Connex	0	Gross to Connex	498	Connex#	2056766 ✓ 201278	

✓ Ticket #	GAM155	Date Collected	7-30-99 7-20-99	Date Weighed	7-31-99	Date Loaded	7-31-99	
Site	4B	Description	CONT. SOIL LANDING MAT		Count:	1 BAG N/A	BDR SS Other	HTW CS
Gross Weight	820	Tare Weight	319	Net Weight	813	Initials	MSC	
Net Weight	813	Tare to Connex	0	Gross to Connex	820	Connex#	2056766 ✓ 201278	

✓ Ticket #	GAM156	Date Collected	7-30-99 7-20-99	Date Weighed	7-31-99	Date Loaded	7-31-99	
Site	4B	Description	CONT. SOIL LANDING MAT		Count:	1 BAG N/A	BDR SS Other	HTW CS
Gross Weight	804	Tare Weight	319	Net Weight	793 ⁷⁹⁷	Initials	MSC	
Net Weight	793 ⁷⁹⁷	Tare to Connex	0	Gross to Connex	804	Connex#	2056766 ✓ 201278	

V. High Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓ Ticket # GAM157 Date Collected 7-30-99 Date Weighed 7-31-99 Date Loaded 7-31-99

Site 4B Description CONT. SOIL Count: 1BAG BDR SS Other _____ HTW CS

Gross Weight 848 Tare Weight 7 Net Weight 841 Initials MSC

Net Weight 841 Tare to Connex 7 Gross to Connex 848 Connex# 2056766 ✓

✓ Ticket # GAM158 Date Collected 7-30-99 Date Weighed 7-31-99 Date Loaded 7-31-99

Site 4B Description CONT. SOIL Count: 1BAG BDR SS Other _____ HTW CS

Gross Weight 874 Tare Weight 7 Net Weight 867 Initials MSC

Net Weight 867 Tare to Connex 7 Gross to Connex 874 Connex# 2056766 ✓

✓ Ticket # GAM159 Date Collected 7-30-99 Date Weighed 7-31-99 Date Loaded 7-31-99

Site 4B Description CONT. SOIL Count: 1BAG BDR SS Other _____ HTW CS

Gross Weight 978 Tare Weight 7 Net Weight 971 Initials MSC

Net Weight 971 Tare to Connex 7 Gross to Connex 978 Connex# 2056766 ✓

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓ Ticket # GAM160 Date Collected 7-31-99 Date Weighed 7-31-99 Date Loaded 7-31-99

Site 4B Description CONT. SOIL Count: 1 BAG BDR SS HTW CS
Other _____

Gross Weight 1027 Tare Weight 7 Net Weight 1020 Initials MSC

Net Weight 1020 Tare to Connex 7 Gross to Connex 1027 Connex# 2056766 ✓

✓ Ticket # GAM161 Date Collected 7-31-99 Date Weighed 7-31-99 Date Loaded 7-31-99

Site 4B Description CONT. SOIL Count: 1 BAG BDR SS HTW CS
Other _____

Gross Weight 626 Tare Weight 7 Net Weight 619 Initials MSC

Net Weight 619 Tare to Connex 7 Gross to Connex 626 Connex# 2056766 ✓

✓ Ticket # GAM162 Date Collected 7-31-99 Date Weighed 7-31-99 Date Loaded 7-31-99

Site 4B Description CONT. SOIL Count: 1 BAG BDR SS HTW CS
Other _____

Gross Weight 943 Tare Weight 7 Net Weight 936 Initials MSC

Net Weight 936 Tare to Connex 7 Gross to Connex 943 Connex# 2056766 ✓

V. ...gh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓
Ticket # GAM163 Date Collected 7-31-99 Date Weighed 7-31-99 Date Loaded 7-31-99
Site 4B Description CONT. SOIL Count: 1 BAG BDR SS HTW CS
Other _____
Gross Weight 745 Tare Weight 7 Net Weight 738 Initials MSC
Net Weight 738 Tare to Connex 7 Gross to Connex 745 Connex# 2056766 ✓

✓
Ticket # GAM164 Date Collected 7-31-99 Date Weighed 7-31-99 Date Loaded 7-31-99
Site 4B Description CONT SOIL Count: 1 BAG BDR SS HTW CS
Other _____
Gross Weight 582 Tare Weight 7 Net Weight 575 Initials MSC
Net Weight 575 Tare to Connex 7 Gross to Connex 582 Connex# 2056766 ✓

✓
Ticket # GAM165 Date Collected 7-31-99 Date Weighed 7-31-99 Date Loaded 7-31-99
Site 4B Description CONT. SOIL Count: 1 BAG BDR SS HTW CS
Other _____
Gross Weight 818 Tare Weight 7 Net Weight 811 Initials MSC
Net Weight 811 Tare to Connex 7 Gross to Connex 818 Connex# 2056766 ✓

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM166</u>	Date Collected	<u>7-20-99</u>	Date Weighed	<u>8-1-99</u>	Date Loaded	<u>8-1-99</u>
Site	<u>6</u>	Description	<u>LANDING MAT</u>	Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR SS Other _____	HTW CS
Gross Weight	<u>1935</u>	Tare Weight	<u>54</u>	Net Weight	<u>1881</u>	Initials <u>MSC</u>	
Net Weight	<u>1881</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>1881</u>	Connex#	<u>201278</u> ✓

Ticket #	<u>GAM167</u>	Date Collected	<u>7-20-99</u>	Date Weighed	<u>8-1-99</u>	Date Loaded	<u>8-1-99</u>
Site	<u>6</u>	Description	<u>LANDING MAT</u>	Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR SS Other _____	HTW CS
Gross Weight	<u>1784</u>	Tare Weight	<u>54</u>	Net Weight	<u>1730</u>	Initials <u>MSC</u>	
Net Weight	<u>1730</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>1730</u>	Connex#	<u>201278</u> ✓

Ticket #	<u>GAM168</u>	Date Collected	<u>7-20-99</u>	Date Weighed	<u>8-1-99</u>	Date Loaded	<u>8-1-99</u>
Site	<u>8</u>	Description	<u>LANDING MAT</u>	Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR SS Other _____	HTW CS
Gross Weight	<u>1724</u>	Tare Weight	<u>54</u>	Net Weight	<u>1670</u>	Initials <u>MSC</u>	
Net Weight	<u>1670</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>1670</u>	Connex#	<u>201278</u> ✓

V. John Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓ Ticket # GAM169 Date Collected 7-31-99 Date Weighed 8-1-99 Date Loaded 8-1-99

Site 4B Description CONT. SOIL Count: 1 BAG BDR SS HTW CS
Other _____

Gross Weight 876 Tare Weight 7 Net Weight 869 Initials MSC

Net Weight 869 Tare to Connex 7 Gross to Connex ~~876~~ 869 Connex# 12055630
2056766

✓ Ticket # GAM170 Date Collected 7-31-99 Date Weighed 8-1-99 Date Loaded 8-1-99

Site 4B Description CONT. SOIL Count: 1 BAG BDR SS HTW CS
Other _____

Gross Weight 890 Tare Weight 7 Net Weight 883 Initials MSC

Net Weight 883 Tare to Connex 7 Gross to Connex 890 Connex# 12055630
2056766

✓ Ticket # GAM171 Date Collected 7-31-99 Date Weighed 8-1-99 Date Loaded 8-1-99

Site 4B Description CONT. SOIL Count: 1 BAG BDR SS HTW CS
Other _____

Gross Weight 830 Tare Weight 7 Net Weight 823 Initials MSC

Net Weight 823 Tare to Connex 7 Gross to Connex 830 Connex# 12055630
2056766

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # GAM172 Date Collected 7-31-99 Date Weighed 8-1-99 Date Loaded 8-1-99
Site 4B Description CONT. SOIL Count: 1 BAG BDR SS HTW CS
Gross Weight 865 Tare Weight 7 Net Weight 858 Initials MSC
Net Weight 858 Tare to Connex 7 Gross to Connex 865 Connex# 2055630
2056766

Ticket # GAM173 Date Collected 7-31-99 Date Weighed 8-1-99 Date Loaded 8-1-99
Site 4B Description CONT. SOIL Count: 1 BAG BDR SS HTW CS
Gross Weight 622 Tare Weight 7 Net Weight 615 Initials MSC
Net Weight 615 Tare to Connex 7 Gross to Connex 622 Connex# 2055630
2056766

Ticket # GAM174 Date Collected 7-31-99 Date Weighed 8-1-99 Date Loaded 8-1-99
Site 4B Description CONT. SOIL Count: 1 BAG BDR SS HTW CS
Gross Weight 752 Tare Weight 7 Net Weight 745 Initials MSC
Net Weight 745 Tare to Connex 7 Gross to Connex 752 Connex# 2055630
2056766

Weight Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

J Ticket # GAM175 Date Collected 7-31-99 Date Weighed 8-1-99 Date Loaded 8-1-99

Site 4B Description CONT SOIL Count: 1BAG BDR SS HTW CS Other _____

Gross Weight 489 Tare Weight 7 Net Weight 482 Initials MSC

Net Weight 482 Tare to Connex 7 Gross to Connex 489 Connex# 2056766

12055630

Y Ticket # GAM176 Date Collected 7-31-99 Date Weighed 8-1-99 Date Loaded 8-1-99

Site 4B Description CONT. SOIL Count: 1BAG BDR SS HTW CS Other _____

Gross Weight 292 Tare Weight 7 Net Weight 285 Initials MSC

Net Weight 285 Tare to Connex 7 Gross to Connex 292 Connex# 2056766

12055630

Y Ticket # GAM177 Date Collected 7-31-99 Date Weighed 8-1-99 Date Loaded 8-1-99

Site 4B Description CONT. SOIL Count: 1BAG BDR SS HTW CS Other _____

Gross Weight 241 Tare Weight 7 Net Weight 234 Initials MSC

Net Weight 234 Tare to Connex 7 Gross to Connex 241 Connex# 2056766

2055630

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓ Ticket # GAM178 Date Collected 7-31-99 Date Weighed 8-1-99 Date Loaded 8-1-99

Site 4B Description CONT. SOIL Count: 1 BAG BDR SS HTW CS
Other _____

Gross Weight 502 Tare Weight 7 Net Weight 495 Initials MSC

Net Weight 495 Tare to Connex 7 Gross to Connex 502 Connex# 20556301
2056766

✓ Ticket # GAM179 Date Collected 7-31-99 Date Weighed 8-1-99 Date Loaded 8-1-99

Site ~~4B~~ 8 Description STAINED SOIL Count: 1 BAG BDR SS HTW CS
Other _____

Gross Weight 232 Tare Weight 7 Net Weight 225 Initials MSC

Net Weight 225 Tare to Connex 7 Gross to Connex 232 Connex# 299235 ✓ 201570
2056766

✓ Ticket # GAM180 Date Collected 7-27-99 Date Weighed 8-1-99 Date Loaded 8-1-99

Site 8 Description STAINED SOIL Count: 1 BAG BDR SS HTW CS
Other _____

Gross Weight 308 Tare Weight 7 Net Weight 301 Initials MSC

Net Weight 301 Tare to Connex 7 Gross to Connex 308 Connex# 299235 ✓ 201570

W...cket
Debris Removal and Contained HTW Removal, Gambell Alaska

✓ Ticket # GAM181 Date Collected 7-22-99 Date Weighed 8-1-99 Date Loaded 8-1-99

Site 10 Description DRUM PTS Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 1400 Tare Weight 319 Net Weight 1081 Initials MSC

Net Weight 1081 Tare to Connex ∅ Gross to Connex 1081 Connex# 201216✓

✓ Ticket # GAM182 Date Collected 7-28-99 Date Weighed 8-1-99 Date Loaded 8-1-99

Site 4A Description DRUM PTS Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 1223 Tare Weight 319 Net Weight 904 Initials MSC

Net Weight 904 Tare to Connex ∅ Gross to Connex 904 Connex# 100685✓

✓ Ticket # GAM183 Date Collected 7-28-99 Date Weighed 8-1-99 Date Loaded 8-1-99

Site 4A Description DRUM PTS Count: N/A BDR HTW
SS CS
Other _____

Gross Weight 1110 Tare Weight 319 Net Weight 791 Initials MSC

Net Weight 791 Tare to Connex ∅ Gross to Connex 791 Connex# 100685✓

Weight Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM184</u>	Date Collected <u>7-28-99</u>	Date Weighed <u>8-1-99</u>	Date Loaded <u>8-1-99</u>
Site <u>4A</u>	Description <u>QUONSET HUT DEBRIS</u>	Count: <u>1BAG</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____
Gross Weight <u>818</u>	Tare Weight <u>7</u>	Net Weight <u>811</u>	HTW CS Initials <u>MBC</u>
Net Weight <u>811</u>	Tare to Connex <u>7</u>	Gross to Connex <u>818</u>	Connex# <u>259042</u> ✓

Ticket # <u>GAM185</u>	Date Collected <u>7-22-99</u>	Date Weighed <u>8-1-99</u>	Date Loaded <u>8-1-99</u>
Site <u>8</u>	Description <u>HOT WATER HEATER & WIRES & CABLES</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____
Gross Weight <u>1079</u>	Tare Weight <u>319</u>	Net Weight <u>760</u>	HTW CS Initials <u>MBC</u>
Net Weight <u>760</u>	Tare to Connex <u>Ø</u>	Gross to Connex <u>760</u>	Connex# <u>259042</u> ✓

Ticket # <u>GAM186</u>	Date Collected <u>7-28-99</u>	Date Weighed <u>8-1-99</u>	Date Loaded <u>8-1-99</u>
Site <u>4A</u>	Description <u>QUONSET HUT DEBRIS</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____
Gross Weight <u>1769</u>	Tare Weight <u>319</u>	Net Weight <u>1450</u>	HTW CS Initials <u>MBC</u>
Net Weight <u>1450</u>	Tare to Connex <u>Ø</u>	Gross to Connex <u>1450</u>	Connex# <u>259042</u> ✓

Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM187</u>	Date Collected <u>7-28-99</u>	Date Weighed <u>8-1-99</u>	Date Loaded <u>8-1-99</u>
Site <u>4A</u>	Description <u>QUONSET HUT DEBRIS</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other HTW CS
Gross Weight <u>1263</u>	Tare Weight <u>319</u>	Net Weight <u>944</u>	Initials <u>MSC</u>
Net Weight <u>944</u>	Tare to Connex <u>∅</u>	Gross to Connex <u>944</u>	Connex# <u>259042</u> ✓

Ticket # <u>GAM188</u>	Date Collected <u>7-25-99</u>	Date Weighed <u>8-2-99</u>	Date Loaded <u>8-2-99</u>
Site <u>8</u>	Description <u>LANDING MAT</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other HTW CS
Gross Weight <u>1110</u>	Tare Weight <u>319</u>	Net Weight <u>791</u>	Initials <u>MSC</u>
Net Weight <u>791</u>	Tare to Connex <u>∅</u>	Gross to Connex <u>791</u>	Connex# <u>259042</u> ✓

Ticket # <u>GAM189</u>	Date Collected <u>7-25-99</u>	Date Weighed <u>8-2-99</u>	Date Loaded <u>8-2-99</u>
Site <u>8</u>	Description <u>LANDING MAT</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other HTW CS
Gross Weight <u>1548</u>	Tare Weight <u>319</u>	Net Weight <u>1229</u>	Initials <u>MSC</u>
Net Weight <u>1229</u>	Tare to Connex <u>∅</u>	Gross to Connex <u>1229</u>	Connex# <u>259042</u> ✓ 261068 ✓

259042

259042

259042

Weight Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

✓ Ticket # GAM190 Date Collected 7-25-99 Date Weighed 8-2-99 Date Loaded 8-2-99

Site 8 Description LANDING MAT Count: N/A BDR HTW
 SS CS
Other _____

Gross Weight 1563 Tare Weight 319 Net Weight 1244 Initials MSC

Net Weight 1244 Tare to Connex ∅ Gross to Connex 1244 Connex# 261068 ✓
259042

✓ Ticket # GAM191 Date Collected 7-25-99 Date Weighed 8-2-99 Date Loaded 8-2-99

Site 8 Description LANDING MAT Count: N/A BDR HTW
 SS CS
Other _____

Gross Weight 2074 Tare Weight 319 Net Weight 1755 Initials MSC

Net Weight 1755 Tare to Connex ∅ Gross to Connex 1755 Connex# 261068 ✓
259042

Ticket # GAM192 Date Collected 7-25-99 Date Weighed 8-2-99 Date Loaded 8-2-99

Site 8 Description LANDING MAT Count: N/A BDR HTW
 SS CS
Other _____

Gross Weight 1064 Tare Weight 319 Net Weight 745 Initials MSC

Net Weight 745 Tare to Connex ∅ Gross to Connex 745 Connex# 261068 ✓
259042

V Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM193</u>	Date Collected	<u>7-25-99</u>	Date Weighed	<u>8-2-99</u>	Date Loaded	<u>8-2-99</u>
Site	<u>8</u>	Description	<u>LANDING MAT</u>	Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____	HTW CS
Gross Weight	<u>1333</u>	Tare Weight	<u>319</u>	Net Weight	<u>1014</u>	Initials	<u>MSC</u>
Net Weight	<u>1014</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>1014</u>	Connex#	<u>261068</u> <u>259042</u>

Ticket #	<u>GAM194</u>	Date Collected	<u>7-25-99</u>	Date Weighed	<u>8-2-99</u>	Date Loaded	<u>8-2-99</u>
Site	<u>8</u>	Description	<u>LANDING MAT</u>	Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____	HTW CS
Gross Weight	<u>1555</u>	Tare Weight	<u>319</u>	Net Weight	<u>1236</u>	Initials	<u>MSC</u>
Net Weight	<u>1236</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>1236</u>	Connex#	<u>261068</u> <u>259042</u>

Ticket #	<u>GAM195</u>	Date Collected	<u>7-25-99</u>	Date Weighed	<u>8-2-99</u>	Date Loaded	<u>8-2-99</u>
Site	<u>8</u>	Description	<u>LANDING MAT</u>	Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____	HTW CS
Gross Weight	<u>1112</u>	Tare Weight	<u>319</u>	Net Weight	<u>793</u>	Initials	<u>100716</u> <u>MSC</u>
Net Weight	<u>793</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>793</u>	Connex#	<u>261068</u> <u>259042</u>

Weight Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # GAM196 Date Collected 7-26-99 Date Weighed 8-2-99 Date Loaded 8-2-99
Site 5 Description MISC METAL DEBRIS ^(3 POOLS) LANDING MAT PIPE Count: N/A BDR HTW
WEASEL TRACK SS CS
Other _____
Gross Weight 1450 Tare Weight 319 Net Weight 1131 Initials MSC
Net Weight 1131 Tare to Connex Ø Gross to Connex 1131 Connex# 100716✓

Ticket # GAM197 Date Collected 7-26-99 Date Weighed 8-2-99 Date Loaded 8-2-99
Site 5 Description DRUM PTS Count: N/A BDR HTW
SS CS
Other _____
Gross Weight 789 Tare Weight 319 Net Weight 470 Initials MSC
Net Weight 470 Tare to Connex Ø Gross to Connex 470 Connex# 201216✓

Ticket # GAM198 Date Collected 8-1-99 Date Weighed 8-2-99 Date Loaded 8-2-99
Site 4A Description QUONSET HUT DEBRIS Count: N/A BDR HTW
SS CS
Other _____
Gross Weight 1080 Tare Weight 319 Net Weight 761 Initials MSC
Net Weight 761 Tare to Connex Ø Gross to Connex 761 Connex# 261068✓
100716

V Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM199</u>	Date Collected <u>8-1-99</u>	Date Weighed <u>8-2-99</u>	Date Loaded <u>8-2-99</u>
Site <u>4A</u>	Description <u>QUONSET HUT DEBRIS</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other HTW <u>CS</u>
Gross Weight <u>1113</u>	Tare Weight <u>319</u>	Net Weight <u>794</u>	Initials <u>MSC</u>
Net Weight <u>794</u>	Tare to Connex <u>∅</u>	Gross to Connex <u>794</u>	Connex# <u>100716</u> 261068 * FIN ✓

Ticket # <u>GAM200</u>	Date Collected <u>8-2-99</u>	Date Weighed <u>8-2-99</u>	Date Loaded <u>8-2-99</u>
Site <u>4A</u>	Description <u>MISC METAL DEBRIS</u> QUONSET HUT DEBRIS	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other HTW <u>CS</u>
Gross Weight <u>2051</u>	Tare Weight <u>319</u>	Net Weight <u>1732</u>	Initials <u>MSC</u>
Net Weight <u>1732</u>	Tare to Connex <u>∅</u>	Gross to Connex <u>1732</u>	Connex# <u>100716 ✓</u>

Ticket # <u>GAM201</u>	Date Collected <u>8-2-99</u>	Date Weighed <u>8-2-99</u>	Date Loaded <u>8-2-99</u>
Site <u>4A</u>	Description <u>MISC METAL DEBRIS</u> QUONSET HUT DEBRIS	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other HTW <u>CS</u>
Gross Weight <u>1087</u>	Tare Weight <u>319</u>	Net Weight <u>768</u>	Initials <u>MSC</u>
Net Weight <u>768</u>	Tare to Connex <u>∅</u>	Gross to Connex <u>768</u>	Connex# <u>100716 ✓</u>

Weight Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM202</u>	Date Collected	<u>8-1-99</u>	Date Weighed	<u>8-3-99</u> 8-2-99	Date Loaded	<u>8-3-99</u> 8-2-99	
Site	<u>4A</u>	Description	<u>QUONSET HUT DEBRIS</u>		Count:	<u>N/A</u>	<input checked="" type="radio"/> BDR <input type="radio"/> SS Other _____	HTW CS
Gross Weight	<u>1749</u>	Tare Weight	<u>319</u>	Net Weight	<u>1430</u>		Initials	<u>MSC</u>
Net Weight	<u>1430</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>1430</u>	Connex#	<u>100716✓</u>	

Ticket #	<u>GAM203</u>	Date Collected	<u>8-1-99</u> 8-1-99	Date Weighed	<u>8-3-99</u> 8-2-99	Date Loaded	<u>8-3-99</u> 8-2-99	
Site	<u>4A</u>	Description	<u>QUONSET HUT DEBRIS</u>		Count:	<u>N/A</u>	<input checked="" type="radio"/> BDR <input type="radio"/> SS Other _____	HTW CS
Gross Weight	<u>1595</u>	Tare Weight	<u>319</u>	Net Weight	<u>1276</u>		Initials	_____
Net Weight	<u>1276</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>1276</u>	Connex#	<u>100716✓</u>	

Ticket #	<u>GAM204</u>	Date Collected	<u>8-1-99</u>	Date Weighed	<u>8-3-99</u> 8-2-99	Date Loaded	<u>8-3-99</u> 8-2-99	
Site	<u>4A</u>	Description	<u>QUONSET HUT DEBRIS</u>		Count:	<u>N/A</u>	<input checked="" type="radio"/> BDR <input type="radio"/> SS Other _____	HTW CS
Gross Weight	<u>1711</u>	Tare Weight	<u>319</u>	Net Weight	<u>1392</u>		Initials	<u>MSC</u>
Net Weight	<u>1392</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>1392</u>	Connex#	<u>100716✓</u>	

W. Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM205</u>	Date Collected <u>8-2-99</u>	Date Weighed <u>8-2-99</u>	Date Loaded <u>8-3-99</u>
Site <u>4D</u>	Description <u>MISC METAL DEBRIS</u>	Count: <u>N/A</u>	<input checked="" type="radio"/> BDR <input type="radio"/> SS Other _____
Gross Weight <u>1411</u>	Tare Weight <u>319</u>	Net Weight <u>1092</u>	HTW <u>CS</u> Initials <u>MSC</u>
Net Weight <u>1092</u>	Tare to Connex <u>Ø</u>	Gross to Connex <u>1092</u>	Connex# <u>100716✓</u>

Ticket # <u>GAM206</u>	Date Collected <u>8-2-99</u>	Date Weighed <u>8-3-99</u>	Date Loaded <u>8-3-99</u>
Site <u>4A</u>	Description <u>MISC METAL DEBRIS</u>	Count: <u>N/A</u>	<input checked="" type="radio"/> BDR <input type="radio"/> SS Other _____
Gross Weight <u>1309</u>	Tare Weight <u>319</u>	Net Weight <u>990</u>	HTW <u>CS</u> Initials <u>MSC</u>
Net Weight <u>990</u>	Tare to Connex <u>Ø</u>	Gross to Connex <u>990</u>	Connex# <u>100716✓</u>

Ticket # <u>GAM207</u>	Date Collected <u>8-2-99</u>	Date Weighed <u>8-3-99</u>	Date Loaded <u>8-3-99</u>
Site <u>4D</u>	Description <u>MISC METAL DEBRIS (CONCRETE HUT)</u>	Count: <u>N/A</u>	<input checked="" type="radio"/> BDR <input type="radio"/> SS Other _____
Gross Weight <u>1369</u>	Tare Weight <u>319</u>	Net Weight <u>1050</u>	HTW <u>CS</u> Initials <u>MSC</u>
Net Weight <u>1050</u>	Tare to Connex <u>Ø</u>	Gross to Connex <u>1050</u>	Connex# <u>100716✓</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM208</u>	Date Collected	<u>8-2-99</u>	Date Weighed	<u>8-3-99</u>	Date Loaded	<u>8-3-99</u>
Site	<u>4D</u>	Description	<u>MISC METAL DEBRIS</u>	Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____	<input checked="" type="checkbox"/> HTW <input type="checkbox"/> CS
Gross Weight	<u>1125</u>	Tare Weight	<u>319</u>	Net Weight	<u>806</u>	Initials	<u>MSC</u>
Net Weight	<u>806</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>806</u>	Connex#	<u>100716</u> *FINV

Ticket #	<u>GAM209</u>	Date Collected	<u>8-2-99</u>	Date Weighed	<u>8-3-99</u>	Date Loaded	<u>8-3-99</u>
Site	<u>4D</u>	Description	<u>DRUM PTS</u>	Count:	<u>N/A</u>	<input type="checkbox"/> BDR <input type="checkbox"/> SS Other _____	<input checked="" type="checkbox"/> HTW <input type="checkbox"/> CS
Gross Weight	<u>1512</u>	Tare Weight	<u>319</u>	Net Weight	<u>1193</u>	Initials	<u>MSC</u>
Net Weight	<u>1193</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>1193</u>	Connex#	<u>201216</u> ✓

Ticket #	<u>GAM210</u>	Date Collected	<u>8-3-99</u>	Date Weighed	<u>8-3-99</u>	Date Loaded	<u>8-3-99</u>
Site	<u>4D</u>	Description	<u>DRUM PTS</u>	Count:	<u>N/A</u>	<input type="checkbox"/> BDR <input type="checkbox"/> SS Other _____	<input checked="" type="checkbox"/> HTW <input type="checkbox"/> CS
Gross Weight	<u>1283</u>	Tare Weight	<u>319</u>	Net Weight	<u>964</u>	Initials	<u>MSC</u>
Net Weight	<u>964</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>964</u>	Connex#	<u>100685</u> ✓

v n ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM211</u>	Date Collected <u>8-5-99</u> <u>8-3-99</u>	Date Weighed <u>8-5-99</u> <u>8-3-99</u>	Date Loaded <u>8-5-99</u> <u>8-3-99</u>
Site <u>4B</u> <u>4D</u>	Description <u>CONT. SOIL</u> <u>DRUM PTS</u>	Count: <u>1 BAG</u> <u>NA</u>	BDR <u>HTW</u> SS <u>CS</u> Other _____
Gross Weight <u>1275</u>	Tare Weight <u>319</u>	Net Weight <u>1268</u>	Initials <u>MSC</u> 259176 ✓
Net Weight <u>1268</u>	Tare to Connex <u>07</u>	Gross to Connex <u>1275</u>	Connex# <u>100685</u>

Ticket # <u>GAM212</u>	Date Collected <u>8-5-99</u>	Date Weighed <u>8-5-99</u>	Date Loaded <u>8-5-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1 BAG</u>	BDR <u>HTW</u> SS <u>CS</u> Other _____
Gross Weight <u>599</u>	Tare Weight <u>7</u>	Net Weight <u>592</u>	Initials <u>MSC</u> 259176 ✓
Net Weight <u>592</u>	Tare to Connex <u>7</u>	Gross to Connex <u>599</u>	Connex# <u>100685</u>

Ticket # <u>GAM213</u>	Date Collected <u>8-5-99</u>	Date Weighed <u>8-5-99</u>	Date Loaded <u>8-5-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1 BAG</u>	BDR <u>HTW</u> SS <u>CS</u> Other _____
Gross Weight <u>1197</u>	Tare Weight <u>7</u>	Net Weight <u>1190</u>	Initials <u>MSC</u> 259176 ✓
Net Weight <u>1190</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1197</u>	Connex# <u>100685</u> 1795 3071

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska
3071

Ticket # <u>GAM214</u>	Date Collected <u>8-5-99</u>	Date Weighed <u>8-5-99</u>	Date Loaded <u>8-5-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1 BAG</u>	BDR <u>SS</u> Other <u>HTW CS</u>
Gross Weight <u>1422</u>	Tare Weight <u>7</u>	Net Weight <u>1415</u>	Initials <u>MSC</u>
Net Weight <u>1415</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1422</u>	Connex# <u>259176</u> <u>4493</u>

Ticket # <u>GAM215</u>	Date Collected <u>8-5-99</u>	Date Weighed <u>8-5-99</u>	Date Loaded <u>8-5-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1 BAG</u>	BDR <u>SS</u> Other <u>HTW CS</u>
Gross Weight <u>1639</u>	Tare Weight <u>7</u>	Net Weight <u>1632</u>	Initials <u>MSC</u>
Net Weight <u>1632</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1639</u> 1630	Connex# <u>259176</u> <u>6132</u>

Ticket # <u>GAM216</u>	Date Collected <u>8-5-99</u>	Date Weighed <u>8-5-99</u>	Date Loaded <u>8-5-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1 BAG</u>	BDR <u>SS</u> Other <u>HTW CS</u>
Gross Weight <u>1755</u>	Tare Weight <u>7</u>	Net Weight <u>1748</u>	Initials <u>MSC</u>
Net Weight <u>1748</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1755</u>	Connex# <u>259176</u> <u>7887</u>

W Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM217</u>	Date Collected	<u>8-5-99</u>	Date Weighed	<u>8-5-99</u>	Date Loaded	<u>8-5-99</u>
Site	<u>4B</u>	Description	<u>DRUM PTS CONT. SOIL</u>		Count:	<u>N/A</u>	BDR SS Other
Gross Weight	<u>1503</u>	Tare Weight	<u>319</u>	Net Weight	<u>1184</u>	Initials	<u>MSC</u>
Net Weight	<u>1184</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>1184</u>	Connex#	<u>100685 ✓ 259176</u>

Ticket #	<u>GAM218</u>	Date Collected	<u>8-3-99</u>	Date Weighed	<u>8-5-99</u>	Date Loaded	<u>8-5-99</u>
Site	<u>4D</u>	Description	<u>DRUM PTS</u>		Count:	<u>N/A</u>	BDR SS Other
Gross Weight	<u>1207</u>	Tare Weight	<u>319</u>	Net Weight	<u>888</u>	Initials	<u>MSC</u>
Net Weight	<u>888</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>888</u>	Connex#	<u>100685 ✓</u>

Ticket #	<u>GAM219</u>	Date Collected	<u>8-5-99</u>	Date Weighed	<u>8-5-99</u>	Date Loaded	<u>8-5-99</u>
Site	<u>4D</u>	Description	<u>STAINED SOIL</u>		Count:	<u>1BAG</u>	BDR SS Other
Gross Weight	<u>470</u>	Tare Weight	<u>7</u>	Net Weight	<u>463</u>	Initials	<u>MSC</u>
Net Weight	<u>463</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>470</u>	Connex#	<u>799235 ✓ 201570</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM220</u>	Date Collected	<u>8-3-99</u>	Date Weighed	<u>8-5-99</u>	Date Loaded	<u>8-5-99</u>
Site	<u>4D10</u>	Description	<u>DRUM PTS</u>	Count:	<u>N/A</u>	BDR	<u>HTW</u>
						SS	<u>CS</u>
						Other	<u></u>
Gross Weight	<u>1470</u>	Tare Weight	<u>319</u>	Net Weight	<u>1151</u>	Initials	<u>MSC</u>
Net Weight	<u>1151</u>	Tare to Connex	<u>0</u>	Gross to Connex	<u>1151</u>	Connex#	<u>100685</u> ✓

Ticket #	<u>GAM221</u>	Date Collected	<u>8-3-99</u>	Date Weighed	<u>8-5-99</u>	Date Loaded	<u>8-5-99</u>
Site	<u>10</u>	Description	<u>DRUM PTS</u>	Count:	<u>N/A</u>	BDR	<u>HTW</u>
						SS	<u>CS</u>
						Other	<u></u>
Gross Weight	<u>1320</u>	Tare Weight	<u>319</u>	Net Weight	<u>1001</u>	Initials	<u>MSC</u>
Net Weight	<u>1001</u>	Tare to Connex	<u>0</u>	Gross to Connex	<u>1001</u>	Connex#	<u>100685</u> ✓

Ticket #	<u>GAM222</u>	Date Collected	<u>8-5-99</u>	Date Weighed	<u>8-5-99</u>	Date Loaded	<u>8-5-99</u>
Site	<u>4D 70</u>	Description	<u>DRUM PTS</u>	Count:	<u>N/A</u>	BDR	<u>HTW</u>
						SS	<u>CS</u>
						Other	<u></u>
Gross Weight	<u>1754</u>	Tare Weight	<u>319</u>	Net Weight	<u>1435</u>	Initials	<u>MSC</u>
Net Weight	<u>1435</u>	Tare to Connex	<u>0</u>	Gross to Connex	<u>1435</u>	Connex#	<u>100685</u> ✓

Weight Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM223</u>	Date Collected	<u>8-5-99</u>	Date Weighed	<u>8-5-99 8-6-99</u>	Date Loaded	<u>8-5-99 8-6-99</u>
Site	<u>4D</u>	Description	<u>DRUM PTS</u>	Count:	<u>N/A</u>	BDR	<u>HTW</u>
						SS	<u>CS</u>
						Other	<u></u>
Gross Weight	<u>1545</u>	Tare Weight	<u>319</u>	Net Weight	<u>1226</u>	Initials	<u>MSC</u>
Net Weight	<u>1226</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>1226</u>	Connex#	<u>100685</u> ✓

Ticket #	<u>GAM224</u>	Date Collected	<u>8-6-99</u>	Date Weighed	<u>8-6-99</u>	Date Loaded	<u>8-6-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1 BAG</u>	BDR	<u>HTW</u>
						SS	<u>CS</u>
						Other	<u></u>
Gross Weight	<u>1582</u>	Tare Weight	<u>7</u>	Net Weight	<u>1575</u>	Initials	<u>MSC</u>
Net Weight	<u>1575</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1582</u>	Connex#	<u>259176</u> ✓

Ticket #	<u>GAM225</u>	Date Collected	<u>8-6-99</u>	Date Weighed	<u>8-6-99</u>	Date Loaded	<u>8-6-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1 BAG</u>	BDR	<u>HTW</u>
						SS	<u>CS</u>
						Other	<u></u>
Gross Weight	<u>1550</u>	Tare Weight	<u>7</u>	Net Weight	<u>1543</u>	Initials	<u>MSC</u>
Net Weight	<u>1543</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1550</u>	Connex#	<u>259176</u> ✓

MSD

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Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM226</u>	Date Collected	<u>8-6-99</u>	Date Weighed	<u>8-6-99</u>	Date Loaded	<u>8-6-99</u>
Site	<u>4B</u>	Description	<u>CONT-SOIL</u>	Count:	<u>1BAG</u>	BDR	<u>HTW</u>
Gross Weight	<u>1441</u>	Tare Weight	<u>7</u>	Net Weight	<u>1434</u>	SS	<u>CS</u>
Net Weight	<u>1434</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1441</u>	Other	<u>MSC</u>
				Connex#	<u>259232V</u>		

Ticket #	<u>GAM227</u>	Date Collected	<u>8-6-99</u>	Date Weighed	<u>8-6-99</u>	Date Loaded	<u>8-6-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1BAG</u>	BDR	<u>HTW</u>
Gross Weight	<u>1616</u>	Tare Weight	<u>7</u>	Net Weight	<u>1609</u>	SS	<u>CS</u>
Net Weight	<u>1609</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1616</u>	Other	<u>MSC</u>
				Connex#	<u>259232V</u>		
					<u>3057</u>		

Ticket #	<u>GAM228</u>	Date Collected	<u>8-6-99</u>	Date Weighed	<u>8-6-99</u>	Date Loaded	<u>8-6-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1BAG</u>	BDR	<u>HTW</u>
Gross Weight	<u>1431</u>	Tare Weight	<u>7</u>	Net Weight	<u>1424</u>	SS	<u>CS</u>
Net Weight	<u>1424</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1431</u>	Other	<u>MSC</u>
				Connex#	<u>259232V</u>		
					<u>4489</u>		

Weight Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska
4488

Ticket #	<u>GAM229</u>	Date Collected	<u>8-6-99</u>	Date Weighed	<u>8-6-99</u>	Date Loaded	<u>8-6-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1BAG</u>	BDR	<u>HTW</u>
						SS	<u>CS</u>
						Other	
Gross Weight	<u>1196</u>	Tare Weight	<u>7</u>	Net Weight	<u>1189</u>	Initials	<u>MSC</u>
Net Weight	<u>1189</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1196</u>	Connex#	<u>259232</u> ✓
					<u>5684</u>		

Ticket #	<u>GAM230</u>	Date Collected	<u>8-6-99</u>	Date Weighed	<u>8-6-99</u>	Date Loaded	<u>8-6-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1BAG</u>	BDR	<u>HTW</u>
						SS	<u>CS</u>
						Other	
Gross Weight	<u>1434</u>	Tare Weight	<u>7</u>	Net Weight	<u>1427</u>	Initials	<u>MSC</u>
Net Weight	<u>1427</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1434</u>	Connex#	<u>259232</u> ✓
					<u>7118</u>		

Ticket #	<u>GAM231</u>	Date Collected	<u>8-6-99</u>	Date Weighed	<u>8-6-99</u>	Date Loaded	<u>8-6-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1BAG</u>	BDR	<u>HTW</u>
						SS	<u>CS</u>
						Other	
Gross Weight	<u>1545</u>	Tare Weight	<u>7</u>	Net Weight	<u>1538</u>	Initials	<u>MSC</u>
Net Weight	<u>1538</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1545</u>	Connex#	<u>259232</u> ✓
					<u>8669</u>		

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

8663

Ticket #	<u>GAM232</u>	Date Collected	<u>8-6-99</u>	Date Weighed	<u>8-6-99</u>	Date Loaded	<u>8-6-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1 BAG</u>	BDR SS Other	HTW <u>CS</u>
Gross Weight	<u>1428</u>	Tare Weight	<u>7</u>	Net Weight	<u>1421</u>	Initials	<u>MSC</u>
Net Weight	<u>1421</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1428</u>	Connex#	<u>259232</u> ✓ <u>10091</u>

Ticket #	<u>GAM233</u>	Date Collected	<u>8-6-99</u>	Date Weighed	<u>8-6-99</u>	Date Loaded	<u>8-6-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1 BAG</u>	BDR SS Other	HTW <u>CS</u>
Gross Weight	<u>1025</u>	Tare Weight	<u>7</u>	Net Weight	<u>1018</u>	Initials	<u>MSC</u>
Net Weight	<u>1018</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1025</u>	Connex#	<u>259232</u> ✓ <u>1116</u>

Ticket #	<u>GAM234</u>	Date Collected	<u>8-6-99</u>	Date Weighed	<u>8-6-99</u>	Date Loaded	<u>8-6-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1 BAG</u>	BDR SS Other	HTW <u>CS</u>
Gross Weight	<u>1393</u>	Tare Weight	<u>7</u>	Net Weight	<u>1386</u>	Initials	<u>MSC</u>
Net Weight	<u>1386</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1393</u>	Connex#	<u>259232</u> ✓ <u>12504</u>

W Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

12509

Ticket #	<u>GAM235</u>	Date Collected	<u>8-6-99</u>	Date Weighed	<u>8-6-99</u>	Date Loaded	<u>8-6-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1BAG</u>	BDR SS Other	HTW <u>CS</u>
Gross Weight	<u>1493</u>	Tare Weight	<u>7</u>	Net Weight	<u>1486</u>	Initials	<u>MSC</u>
Net Weight	<u>1486</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1493</u>	Connex#	<u>259232</u> ✓ 14002

Ticket #	<u>GAM236</u>	Date Collected	<u>8-6-99</u>	Date Weighed	<u>8-6-99</u>	Date Loaded	<u>8-6-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1BAG</u>	BDR SS Other	HTW <u>CS</u>
Gross Weight	<u>1503</u>	Tare Weight	<u>7</u>	Net Weight	<u>1496</u>	Initials	<u>MSC</u>
Net Weight	<u>1496</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1503</u>	Connex#	<u>259232</u> ✓ 15505 *FIN

Ticket #	<u>GAM237</u>	Date Collected	<u>8-6-99</u>	Date Weighed	<u>8-6-99</u>	Date Loaded	<u>8-6-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1BAG</u>	BDR SS Other	HTW <u>CS</u>
Gross Weight	<u>1319</u>	Tare Weight	<u>7</u>	Net Weight	<u>1312</u>	Initials	<u>MSC</u>
Net Weight	<u>1312</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1319</u>	Connex#	<u>259176</u> ✓ 259232

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM238</u>	Date Collected	<u>8-6-99</u>	Date Weighed	<u>8-8-99</u>	Date Loaded	<u>8-6-99</u>
Site	<u>10</u>	Description	<u>DAVE DRUM PT</u>		Count:	<u>1 PIECE</u>	BDR <u>HTW</u> SS <u>CS</u> Other _____
Gross Weight	<u>24</u>	Tare Weight	<u>Ø</u>	Net Weight	<u>24</u>	Initials	<u>MSC</u>
Net Weight	<u>24</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>24</u>	Connex#	<u>201216✓</u>

Ticket #	<u>GAM239</u>	Date Collected	<u>8-6-99</u>	Date Weighed	<u>8-6-99</u>	Date Loaded	<u>8-6-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>		Count:	<u>1 BAG</u>	BDR <u>HTW</u> SS <u>CS</u> Other _____
Gross Weight	<u>1429</u>	Tare Weight	<u>7</u>	Net Weight	<u>1422</u>	Initials	<u>MSC</u>
Net Weight	<u>1422</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1429</u>	Connex#	<u>259176✓</u>

Ticket #	GAM240 <u>GAM240</u>	Date Collected	8-4-99 <u>8-6-99</u>	Date Weighed	8-7-99 <u>8-6-99</u>	Date Loaded	8-7-99 <u>8-6-99</u>
Site	4D <u>4B</u>	Description	DRUM PTS <u>CONT. SOIL</u>		Count:	N/A <u>1 BAG</u>	BDR <u>HTW</u> SS <u>CS</u> Other _____
Gross Weight	<u>621</u>	Tare Weight	<u>319</u>	Net Weight	<u>302</u>	Initials	<u>MSC</u>
Net Weight	<u>302</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>302</u>	Connex#	<u>299327✓</u> <u>259176</u>

W. Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>6AM241</u>	Date Collected	<u>8-1-99</u>	Date Weighed	<u>8-7-99</u>	Date Loaded	<u>8-7-99</u>
Site	<u>10</u>	Description	<u>DRUM PTS</u>	Count:	<u>N/A</u>	BDR SS Other	<u>HTW</u> <u>CS</u>
Gross Weight	<u>1466</u>	Tare Weight	<u>319</u>	Net Weight	<u>1147</u>	Initials	<u>MSC</u>
Net Weight	<u>1147</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>1147</u>	Connex#	<u>299327V</u>

Ticket #	<u>6AM242</u>	Date Collected	<u>8-1-99</u>	Date Weighed	<u>8-7-99</u>	Date Loaded	<u>8-7-99</u>
Site	<u>10</u>	Description	<u>DRUM PTS</u>	Count:	<u>N/A</u>	BDR SS Other	<u>HTW</u> <u>CS</u>
Gross Weight	<u>1257</u>	Tare Weight	<u>319</u>	Net Weight	<u>938</u>	Initials	<u>MSC</u>
Net Weight	<u>938</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>938</u>	Connex#	<u>299327V</u>

242 is 938 LBS. MISTAKE

Ticket #	<u>6AM243</u>	Date Collected	<u>7-30-99</u>	Date Weighed	<u>8-7-99</u>	Date Loaded	<u>8-7-99</u>
Site	<u>41A</u>	Description	<u>DRUM PTS</u>	Count:	<u>N/A</u>	BDR SS Other	<u>HTW</u> <u>CS</u>
Gross Weight	<u>465</u> 146	Tare Weight	<u>319</u>	Net Weight	<u>146</u>	Initials	<u>MSC</u>
Net Weight	<u>146</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>146</u>	Connex#	<u>299327V</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM244</u>	Date Collected	<u>7-29-99</u>	Date Weighed	<u>8-7-99</u>	Date Loaded	<u>8-7-99</u>
Site	<u>4B</u>	Description	<u>DRUM PTS</u>	Count:	<u>N/A</u>	BDR	<u>HTW</u>
Gross Weight	<u>395</u>	Tare Weight	<u>319</u>	Net Weight	<u>76</u>	SS	<u>CS</u>
Net Weight	<u>76</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>76</u>	Other	<u>MSC</u>
				Connex#	<u>299327</u> ✓		

Ticket #	<u>GAM245</u>	Date Collected	<u>7-23-99</u>	Date Weighed	<u>8-7-99</u>	Date Loaded	<u>8-7-99</u>
Site	<u>8</u>	Description	<u>DRUM PTS</u>	Count:	<u>N/A</u>	BDR	<u>HTW</u>
Gross Weight	<u>1409</u>	Tare Weight	<u>319</u>	Net Weight	<u>1090</u>	SS	<u>CS</u>
Net Weight	<u>1090</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>1090</u>	Other	<u>MSC</u>
				Connex#	<u>299327</u> ✓		

Ticket #	<u>GAM246</u>	Date Collected	<u>8-7-99</u>	Date Weighed	<u>8-7-99</u>	Date Loaded	<u>8-7-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1BAG</u>	BDR	<u>HTW</u>
Gross Weight	<u>1501</u>	Tare Weight	<u>7</u>	Net Weight	<u>1494</u>	SS	<u>CS</u>
Net Weight	<u>1494</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1501</u>	Other	<u>MS</u>
				Connex#	<u>259176</u> ✓		

MS

MS

MS

W Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM247</u>	Date Collected <u>8-7-99</u>	Date Weighed <u>8-7-99</u>	Date Loaded <u>8-7-99</u>
Site <u>4B</u>	Description <u>CONT SOIL</u>	Count: <u>1 BAG</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight <u>1236</u>	Tare Weight <u>7</u>	Net Weight <u>1229</u>	Initials <u>MSC</u>
Net Weight <u>1229</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1236</u>	Connex# <u>259176✓</u>

Ticket # <u>GAM248</u>	Date Collected <u>8-7-99</u>	Date Weighed <u>8-7-99</u>	Date Loaded <u>8-7-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1 BAG</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight <u>1245</u>	Tare Weight <u>7</u>	Net Weight <u>1238</u>	Initials <u>MSC</u>
Net Weight <u>1238</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1245</u>	Connex# <u>259176✓</u>

Ticket # <u>GAM249</u>	Date Collected <u>8-7-99</u>	Date Weighed <u>8-7-99</u>	Date Loaded <u>8-7-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1 BAG</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight <u>1796</u>	Tare Weight <u>7</u>	Net Weight <u>1789</u>	Initials <u>MSC</u>
Net Weight <u>1789</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1796</u>	Connex# <u>259176✓</u>

~~1299272~~
~~259158~~
~~259176~~

JCS

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JCS

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM250</u>	Date Collected <u>8-7-99</u>	Date Weighed <u>8-7-99</u>	Date Loaded <u>8-7-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1BAG</u>	BDR <input type="checkbox"/> SS <input type="checkbox"/> Other <input type="checkbox"/> HTW <input checked="" type="checkbox"/> <u>CS</u>
Gross Weight <u>1767</u> <u>4B</u>	Tare Weight <u>7</u>	Net Weight <u>1760</u>	Initials <u>MSC</u>
Net Weight <u>1760</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1767</u>	Connex# <u>259158</u> <u>259176</u> <u>1299272</u>

Ticket # <u>GAM251</u>	Date Collected <u>8-7-99</u>	Date Weighed <u>8-7-99</u>	Date Loaded <u>8-7-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1BAG</u>	BDR <input type="checkbox"/> SS <input type="checkbox"/> Other <input type="checkbox"/> HTW <input checked="" type="checkbox"/> <u>CS</u>
Gross Weight <u>1394</u>	Tare Weight <u>7</u>	Net Weight <u>1387</u>	Initials <u>MSC</u>
Net Weight <u>1387</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1394</u>	Connex# <u>259158</u> <u>259176</u> <u>1299272</u>

Ticket # <u>GAM252</u>	Date Collected <u>8-7-99</u>	Date Weighed <u>8-7-99</u>	Date Loaded <u>8-7-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1BAG</u>	BDR <input type="checkbox"/> SS <input type="checkbox"/> Other <input type="checkbox"/> HTW <input checked="" type="checkbox"/> <u>CS</u>
Gross Weight <u>1467</u>	Tare Weight <u>7</u>	Net Weight <u>1460</u>	Initials <u>MSC</u>
Net Weight <u>1460</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1467</u>	Connex# <u>259176</u> <u>259158</u> <u>1299272</u>

W Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM253</u>	Date Collected	<u>8-7-99</u>	Date Weighed	<u>8-7-99</u>	Date Loaded	<u>8-7-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1BAG</u>	BDR SS Other	<u>HTW CS</u>
Gross Weight	<u>1435</u>	Tare Weight	<u>7</u>	Net Weight	<u>1428</u>	Initials	<u>MSC</u>
Net Weight	<u>1428</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1435</u>	Connex#	<u>259158</u>

1299272

Ticket #	<u>GAM254</u>	Date Collected	<u>8-7-99</u>	Date Weighed	<u>8-7-99</u>	Date Loaded	<u>8-7-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1BAG</u>	BDR SS Other	<u>HTW CS</u>
Gross Weight	<u>1861</u>	Tare Weight	<u>7</u>	Net Weight	<u>1854</u>	Initials	<u>MSC</u>
Net Weight	<u>1854</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1861</u>	Connex#	<u>259158</u>

1299272

Ticket #	<u>GAM255</u>	Date Collected	<u>8-7-99</u>	Date Weighed	<u>8-7-99</u>	Date Loaded	<u>8-7-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1BAG</u>	BDR SS Other	<u>HTW CS</u>
Gross Weight	<u>1894</u>	Tare Weight	<u>7</u>	Net Weight	<u>1887</u>	Initials	<u>MSC</u>
Net Weight	<u>1887</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1894</u>	Connex#	<u>259158</u>

1299272

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>6AM256</u>	Date Collected	<u>8-7-99</u>	Date Weighed	<u>8-7-99</u>	Date Loaded	<u>8-7-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1BAG</u>	BDR SS Other	<u>HTW CS</u>
Gross Weight	<u>1917</u>	Tare Weight	<u>7</u>	Net Weight	<u>1910</u>	Initials	<u>MSC</u>
Net Weight	<u>1910</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1917</u>	Connex#	<u>299272</u> <u>259158</u>

Ticket #	<u>6AM257</u>	Date Collected	<u>8-8-99</u>	Date Weighed	<u>8-8-99</u>	Date Loaded	<u>8-8-99</u>
Site	<u>8</u>	Description	<u>MISC METAL DEBRIS</u>	Count:	<u>N/A</u>	BDR SS Other	<u>HTW CS</u>
Gross Weight	<u>1955</u>	Tare Weight	<u>319</u>	Net Weight	<u>1636</u>	Initials	<u>MSC</u>
Net Weight	<u>1636</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>1636</u>	Connex#	<u>2052550</u> <u>205550</u>

Ticket #	<u>6AM258</u>	Date Collected	<u>8-5-99</u>	Date Weighed	<u>8-8-99</u>	Date Loaded	<u>8-8-99</u>
Site	<u>8</u>	Description	<u>MISC. METAL DEBRIS</u>	Count:	<u>N/A</u>	BDR SS Other	<u>HTW CS</u>
Gross Weight	<u>1677</u>	Tare Weight	<u>319</u>	Net Weight	<u>1358</u>	Initials	<u>MSC</u>
Net Weight	<u>1358</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>1358</u>	Connex#	<u>2052550</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM259</u>	Date Collected	<u>8-5-99</u>	Date Weighed	<u>8-8-99</u>	Date Loaded	<u>8-8-99</u>
Site	<u>8</u>	Description	<u>MISC. METAL DEBRIS</u>	Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other	HTW <input type="checkbox"/> CS
Gross Weight	<u>1180</u>	Tare Weight	<u>319</u>	Net Weight	<u>861</u>	Initials <u>MSC</u>	
Net Weight	<u>861</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>861</u>	Connex#	<u>2052550</u> ✓

Ticket #	<u>GAM260</u>	Date Collected	<u>8-1-99</u>	Date Weighed	<u>8-8-99</u>	Date Loaded	<u>8-8-99</u>
Site	<u>4A</u>	Description	<u>STAINED SOIL</u>	Count:	<u>1 BAG</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other	HTW <input type="checkbox"/> CS
Gross Weight	<u>843</u>	Tare Weight	<u>7</u>	Net Weight	<u>836</u>	Initials <u>MSC</u>	
Net Weight	<u>836</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>843</u>	Connex#	<u>299327</u> ✓

Ticket #	<u>GAM261</u>	Date Collected	<u>8-1-99</u>	Date Weighed	<u>8-8-99</u>	Date Loaded	<u>8-8-99</u>
Site	<u>4A</u>	Description	<u>BDR STAINED SOIL</u>	Count:	<u>1 BAG</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other	HTW <input checked="" type="checkbox"/> CS
Gross Weight	<u>488</u>	Tare Weight	<u>7</u>	Net Weight	<u>481</u>	Initials <u>MSC</u>	
Net Weight	<u>481</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>488</u>	Connex#	<u>299327</u> ✓

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM262</u>	Date Collected	<u>8-1-99</u> 8-4-99	Date Weighed	<u>8-8-99</u>	Date Loaded	<u>8-8-99</u>
Site	<u>4A</u>	Description	<u>STAINED SOIL</u>		Count:	<u>1BAG</u>	<u>BDR</u> <u>SS</u> Other _____ HTW CS
Gross Weight	<u>567</u>	Tare Weight	<u>567</u>	Net Weight	<u>560</u>	Initials	<u>MSC</u>
Net Weight	<u>560</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>567</u>	Connex#	<u>299327</u> ✓

Ticket #	<u>GAM263</u>	Date Collected	<u>8-1-99</u>	Date Weighed	<u>8-8-99</u>	Date Loaded	<u>8-8-99</u>
Site	<u>4D</u> 4A	Description	<u>MISC METAL DEBRIS</u> STAINED SOIL		Count:	<u>1BAG</u>	<u>BDR</u> <u>SS</u> Other _____ HTW CS
Gross Weight	<u>849</u>	Tare Weight	<u>7</u>	Net Weight	<u>842</u>	Initials	<u>MSC</u>
Net Weight	<u>842</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>849</u>	Connex#	<u>2052550</u> ✓ 299327

Ticket #	<u>GAM264</u>	Date Collected	<u>8-1-99</u>	Date Weighed	<u>8-8-99</u>	Date Loaded	<u>8-8-99</u>
Site	<u>4D</u>	Description	<u>MISC - METAL DEBRIS</u>		Count:	<u>1BAG</u>	<u>BDR</u> <u>SS</u> Other _____ HTW CS
Gross Weight	<u>635</u>	Tare Weight	<u>7</u>	Net Weight	<u>628</u>	Initials	<u>MSC</u>
Net Weight	<u>628</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>635</u>	Connex#	<u>2052550</u> ✓

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM265</u>	Date Collected <u>8-2-99</u>	Date Weighed <u>8-8-99</u>	Date Loaded <u>8-8-99</u>
Site <u>8 4D</u>	Description <u>MISC METAL DEBRIS</u>	Count: <u>1 BAG</u>	<u>BDR</u> HTW SS CS Other _____
Gross Weight <u>549</u>	Tare Weight <u>7</u>	Net Weight <u>542</u>	Initials <u>MSC</u>
Net Weight <u>542</u>	Tare to Connex <u>7</u>	Gross to Connex <u>549</u>	Connex# <u>2052550V</u>

Ticket # <u>GAM266</u>	Date Collected <u>8-3-99</u>	Date Weighed <u>8-8-99</u>	Date Loaded <u>8-8-99</u>
Site <u>4D</u>	Description <u>NAVY CABLE</u>	Count: <u>1 BAG</u>	<u>BDR</u> HTW SS CS Other _____
Gross Weight <u>500</u>	Tare Weight <u>493</u>	Net Weight <u>493</u>	Initials <u>MSC</u>
Net Weight <u>493</u>	Tare to Connex <u>7</u>	Gross to Connex <u>500</u>	Connex# <u>2052550V</u>

Ticket # <u>GAM267</u>	Date Collected <u>8-3-99</u>	Date Weighed <u>8-8-99</u>	Date Loaded <u>8-8-99</u>
Site <u>4D</u>	Description <u>NAVY CABLE & MISC DEBRIS</u>	Count: <u>1 BAG</u>	<u>BDR</u> HTW SS CS Other _____
Gross Weight <u>341</u>	Tare Weight <u>7</u>	Net Weight <u>334</u>	Initials <u>MSC</u>
Net Weight <u>334</u>	Tare to Connex <u>7</u>	Gross to Connex <u>341</u>	Connex# <u>2052550V</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM264</u>	Date Collected <u>8-2-99</u>	Date Weighed <u>8-8-99</u>	Date Loaded <u>8-8-99</u>
Site <u>4D</u>	Description <u>MISC METAL DEBRIS</u> NAVY CABLE SPOOLS w/ CABLE		Count: <u>1 BAG</u>
Gross Weight <u>581</u>	Tare Weight <u>7</u>	Net Weight <u>574</u>	<input checked="" type="radio"/> BDR <input type="radio"/> SS <input type="radio"/> Other _____ HTW <input type="radio"/> CS
Net Weight <u>574</u>	Tare to Connex <u>7</u>	Gross to Connex <u>581</u>	Connex# <u>2052550V</u> Initials <u>MSC</u>

Ticket # <u>GAM269</u>	Date Collected <u>8-8-99</u>	Date Weighed <u>8-8-99</u>	Date Loaded <u>8-8-99</u>
Site <u>4B-5</u>	Description <u>SLED (DEBRIS)</u>		Count: <u>N/A</u>
Gross Weight <u>1760</u>	Tare Weight <u>319</u>	Net Weight <u>1441</u>	<input checked="" type="radio"/> BDR <input type="radio"/> SS <input type="radio"/> Other _____ HTW <input type="radio"/> CS
Net Weight <u>1441</u>	Tare to Connex <u>∅</u>	Gross to Connex <u>1441</u>	Connex# <u>2052550V</u> Initials <u>MSC</u>

Ticket # <u>GAM270</u>	Date Collected <u>8-8-99</u>	Date Weighed <u>8-8-99</u>	Date Loaded <u>8-8-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>		Count: <u>1 BAG</u>
Gross Weight <u>1486</u>	Tare Weight <u>7</u>	Net Weight <u>1479</u>	<input type="radio"/> BDR <input type="radio"/> SS <input checked="" type="radio"/> HTW CS Other _____
Net Weight <u>1479</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1486</u>	Connex# <u>299272</u> <u>259158</u> Initials <u>MSC</u>

W Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM271</u>	Date Collected	<u>8-8-99</u>	Date Weighed	<u>8-8-99</u>	Date Loaded	<u>8-8-99</u>	
Site	<u>UB</u>	Description	<u>CONT-SOIL</u>		Count:	<u>1BAG</u>	BDR SS Other	<u>HTW CS</u>
Gross Weight	<u>1813</u>	Tare Weight	<u>7</u>	Net Weight	<u>1806</u>	Initials	<u>MSC</u>	
Net Weight	<u>1806</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1813</u>	Connex#	<u>1299272 259156</u>	

Ticket #	<u>GAM272</u>	Date Collected	<u>8-1-99</u>	Date Weighed	<u>8-8-99</u>	Date Loaded	<u>8-8-99</u>	
Site	<u>UB</u>	Description	<u>MISC METAL DEBRIS</u>		Count:	<u>N/A</u>	BDR SS Other	<u>HTW CS</u>
Gross Weight	<u>920</u>	Tare Weight	<u>319</u>	Net Weight	<u>601</u>	Initials	<u>MSC</u>	
Net Weight	<u>601</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>601</u>	Connex#	<u>2052550V</u>	

Ticket #	<u>GAM273</u>	Date Collected	<u>7-24-99</u>	Date Weighed	<u>8-8-99</u>	Date Loaded	<u>8-8-99</u>	
Site	<u>10</u>	Description	<u>WEASEL TRACK</u>		Count:	<u>N/A</u>	BDR SS Other	<u>HTW CS</u>
Gross Weight	<u>540</u>	Tare Weight	<u>319</u>	Net Weight	<u>221</u>	Initials	<u>MSC</u>	
Net Weight	<u>221</u>	Tare to Connex	<u>∅</u>	Gross to Connex	<u>221</u>	Connex#	<u>2052550V</u>	

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM274</u>	Date Collected	<u>8-8-99</u>	Date Weighed	<u>8-8-99</u>	Date Loaded	<u>8-8-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1BAG</u>	BDR SS Other	<u>HTW CS</u>
Gross Weight	<u>1439</u>	Tare Weight	<u>7</u>	Net Weight	<u>1432</u>	Initials	<u>MSC</u>
Net Weight	<u>1432</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1439</u>	Connex#	<u>2053263</u> ✓

Ticket #	<u>GAM275</u>	Date Collected	<u>8-8-99</u>	Date Weighed	<u>8-8-99</u>	Date Loaded	<u>8-8-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1BAG</u>	BDR SS Other	<u>HTW CS</u>
Gross Weight	<u>1473</u>	Tare Weight	<u>7</u>	Net Weight	<u>1466</u>	Initials	<u>MSC</u>
Net Weight	<u>1466</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1473</u>	Connex#	<u>2053263</u> ✓

Ticket #	<u>GAM276</u>	Date Collected	<u>8-8-99</u>	Date Weighed	<u>8-8-99</u>	Date Loaded	<u>8-8-99</u>
Site	<u>4B</u>	Description	<u>CONT. SOIL</u>	Count:	<u>1BAG</u>	BDR SS Other	<u>HTW CS</u>
Gross Weight	<u>1974</u>	Tare Weight	<u>7</u>	Net Weight	<u>1967</u>	Initials	<u>MSC</u>
Net Weight	<u>1967</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1974</u>	Connex#	<u>2053263</u> ✓

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM277</u>	Date Collected 8-8-99 <u>8-8-99</u>	Date Weighed 8-8-99 <u>8-8-99</u>	Date Loaded 8-8-99 <u>8-8-99</u>
Site <u>4B 4B</u>	Description <u>CONT. SOIL</u> CONT. SOIL	Count: <u>1 BAG</u>	BDR <input type="checkbox"/> SS <input type="checkbox"/> Other <input checked="" type="checkbox"/> HTW <u>CS</u>
Gross Weight <u>1512</u> 1486	Tare Weight <u>77</u>	Net Weight <u>1505</u> <u>1479</u>	Initials <u>MSC</u>
Net Weight <u>1505</u> <u>1479</u>	Tare to Connex <u>77</u>	Gross to Connex <u>1512</u> <u>1486</u>	Connex# <u>2053263</u> <u>259158</u>

Ticket # <u>GAM278</u>	Date Collected 8-8-99 <u>8-9-99</u>	Date Weighed 8-8-99 <u>8-9-99</u>	Date Loaded 8-8-99 <u>8-9-99</u>
Site <u>4B 4B</u>	Description <u>CONT SOIL</u> CONT SOIL	Count: <u>1 BAG</u>	BDR <input type="checkbox"/> SS <input type="checkbox"/> Other <input checked="" type="checkbox"/> HTW <u>CS</u>
Gross Weight <u>1459</u> <u>1813</u>	Tare Weight <u>77</u>	Net Weight <u>1452</u> <u>1806</u>	Initials <u>MSC</u>
Net Weight <u>1452</u> <u>1806</u>	Tare to Connex <u>77</u>	Gross to Connex <u>1459</u> <u>1813</u>	Connex# <u>2053263</u> <u>259158</u>

Ticket # <u>GAM279</u>	Date Collected 8-8-99 <u>8-9-99</u>	Date Weighed 8-8-99 <u>8-9-99</u>	Date Loaded 8-8-99 <u>8-9-99</u>
Site <u>5 4B</u>	Description <u>CONT SOIL</u> <u>SLED DEBRIS</u>	Count: <u>1 BAG</u> <u>N/A</u>	BDR <input checked="" type="checkbox"/> SS <input type="checkbox"/> Other <input type="checkbox"/> HTW <u>CS</u>
Gross Weight <u>1666</u> <u>1760</u>	Tare Weight <u>3197</u>	Net Weight <u>1659</u>	Initials <u>MSC</u>
Net Weight <u>1659</u>	Tare to Connex <u>07</u>	Gross to Connex <u>1666</u>	Connex# <u>2053263</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM280</u>	Date Collected <u>8-9-99</u>	Date Weighed <u>8-9-99</u>	Date Loaded <u>8-9-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1BAG</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight <u>1532</u>	Tare Weight <u>7</u>	Net Weight <u>1525</u>	Initials <u>MSC</u>
Net Weight <u>1525</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1532</u>	Connex# <u>2053263</u> <i>v 2055630</i>

Ticket # <u>GAM281</u>	Date Collected <u>8-9-99</u>	Date Weighed <u>8-9-99</u>	Date Loaded <u>8-9-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1BAG</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight <u>1502</u>	Tare Weight <u>7</u>	Net Weight <u>1495</u>	Initials <u>MSC</u>
Net Weight <u>1495</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1502</u>	Connex# <u>2053263</u>

Ticket # <u>GAM282</u>	Date Collected <u>8-9-99</u>	Date Weighed <u>8-9-99</u>	Date Loaded <u>8-9-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight <u>1706</u>	Tare Weight <u>7</u>	Net Weight <u>1699</u>	Initials <u>MSC</u>
Net Weight <u>1699</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1706</u>	Connex# <u>2053263</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM283</u>	Date Collected <u>8-9-99</u>	Date Weighed <u>8-9-99</u>	Date Loaded <u>8-9-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1BAG</u> NOTE	BDR SS Other <u>HTW</u> <u>CS</u>
Gross Weight <u>1749</u>	Tare Weight <u>7</u> <u>HO</u>	Net Weight <u>1742</u>	Initials <u>MSC</u>
Net Weight <u>1742</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1749</u>	Connex# <u>2053263</u> <u>12055630</u>

Ticket # <u>GAM284</u>	Date Collected <u>8-8-99</u>	Date Weighed <u>8-9-99</u> <u>8-10-99</u>	Date Loaded <u>8-9-99</u> <u>8-10-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1BAG</u>	BDR SS Other <u>HTW</u> <u>CS</u>
Gross Weight <u>1621</u>	Tare Weight <u>7</u>	Net Weight <u>1614</u>	Initials <u>MSC</u>
Net Weight <u>1614</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1621</u>	Connex# <u>299287</u> <u>12056766</u>

Ticket # <u>GAM285</u> <u>28</u>	Date Collected <u>8-8-99</u>	Date Weighed <u>8-9-99</u> <u>8-10-99</u>	Date Loaded <u>8-9-99</u> <u>8-10-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1BAG</u>	BDR SS Other <u>HTW</u> <u>CS</u>
Gross Weight <u>1459</u>	Tare Weight <u>7</u>	Net Weight <u>1452</u>	Initials <u>MSC</u>
Net Weight <u>1452</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1459</u>	Connex# <u>299287</u> <u>12056766</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM286</u>	Date Collected <u>8-8-99</u>	Date Weighed <u>8-10-99</u>	Date Loaded <u>8-10-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1BAG</u>	BDR <u>SS</u> HTW <u>(CS)</u> Other _____
Gross Weight <u>1530</u>	Tare Weight <u>7</u>	Net Weight <u>1523</u>	Initials <u>MSC</u>
Net Weight <u>1523</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1530</u>	Connex# <u>299287/2056766</u>

Ticket # <u>GAM287</u>	Date Collected <u>8-9-99</u>	Date Weighed <u>8-10-99</u>	Date Loaded <u>8-10-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1BAG</u>	BDR <u>SS</u> HTW <u>(CS)</u> Other _____
Gross Weight <u>1638</u>	Tare Weight <u>7</u>	Net Weight <u>1631</u>	Initials <u>MSE</u>
Net Weight <u>1631</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1638</u>	Connex# <u>299287/2056766</u>

Ticket # <u>GAM288</u>	Date Collected <u>8-8-99</u>	Date Weighed <u>8-11-99</u>	Date Loaded <u>8-11-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1TOTG</u>	BDR <u>SS</u> HTW <u>(CS)</u> Other _____
Gross Weight <u>2560</u>	Tare Weight <u>146</u>	Net Weight <u>2414</u>	Initials <u>MSC</u>
Net Weight <u>2414</u> 2414	Tare to Connex <u>136</u> 156	Gross to Connex <u>2550</u>	Connex# <u>299287/2056766</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM289</u>	Date Collected	<u>8-4-99</u>	Date Weighed	<u>8-11-99</u>	Date Loaded	<u>8-11-99</u>	
Site	<u>12</u>	Description	<u>PAINT w/ LEAD</u>		Count:	<u>IDM</u>	BDR SS Other <input checked="" type="checkbox"/>	HTW CS
Gross Weight	<u>378</u>	Tare Weight	<u>53</u>	Net Weight	<u>325</u>	Initials	<u>MSC</u>	
Net Weight	<u>325</u>	Tare to Connex	<u>49</u>	Gross to Connex	<u>374</u>	Connex#	<u>299264</u> ✓	

Ticket #	<u>GAM290</u>	Date Collected	<u>8-4-99</u>	Date Weighed	<u>8-11-99</u>	Date Loaded	<u>8-11-99</u>	
Site	<u>6</u>	Description	<u>WASTE TAR</u>		Count:	<u>IDM</u>	BDR SS Other <input checked="" type="checkbox"/>	HTW CS
Gross Weight	<u>362</u> 372	Tare Weight	<u>82</u>	Net Weight	<u>280</u>	Initials	<u>MSC</u>	
Net Weight	<u>280</u>	Tare to Connex	<u>78</u>	Gross to Connex	<u>358</u>	Connex#	<u>299264</u> ✓	

Ticket #	<u>GAM291</u>	Date Collected	<u>7-21-99</u>	Date Weighed	<u>8-12-99</u>	Date Loaded	<u>8-12-99</u>	
Site	<u>8</u>	Description	<u>STAINED SOIL</u>		Count:	<u>1 BAG</u>	BDR SS <input checked="" type="checkbox"/> Other	HTW CS
Gross Weight	<u>287</u>	Tare Weight	<u>7</u>	Net Weight	<u>280</u>	Initials	<u>MSC</u>	
Net Weight	<u>280</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>287</u>	Connex#	<u>26110</u> ✓ <u>201570</u>	

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM292</u>	Date Collected	<u>7-16-99</u>	Date Weighed	<u>8-12-99</u>	Date Loaded	<u>8-12-99</u>
Site	<u>8</u>	Description	<u>STAINED SOIL (NOODWELL)</u>		Count:	<u>1 BAG</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight	<u>847</u>	Tare Weight	<u>7</u>	Net Weight	<u>840</u>	Initials	<u>MSC</u>
Net Weight	<u>840</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>847</u>	Connex#	<u>26110/201570</u> <u>4812</u>

Ticket #	<u>GAM293</u>	Date Collected	<u>7-18</u>	Date Weighed	<u>8-12-99</u>	Date Loaded	<u>8-12-99</u>
Site	<u>8</u>	Description	<u>STAINED SOIL</u>		Count:	<u>1 BAG</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight	<u>186</u>	Tare Weight	<u>7</u>	Net Weight	<u>179</u>	Initials	<u>MSC</u>
Net Weight	<u>179</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>186</u>	Connex#	<u>26110/201570</u> <u>4998</u>

Ticket #	<u>GAM294</u>	Date Collected	<u>8-11-99</u>	Date Weighed	<u>8-12-99</u>	Date Loaded	<u>8-12-99</u>
Site	<u>UB</u>	Description	<u>CONT. SOIL</u>		Count:	<u>1 BAG</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight	<u>509</u>	Tare Weight	<u>7</u>	Net Weight	<u>502</u>	Initials	<u>MSC</u>
Net Weight	<u>502</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>509</u>	Connex#	<u>299289</u> <u>3783</u> <u>12055630</u>

Weight Ticket
 Debris Removal and Containerized HTW Removal, Gambell Alaska
 3783

Ticket #	<u>GAM295</u>	Date Collected	<u>8-9-99</u>	Date Weighed	<u>8-12-99</u>	Date Loaded	<u>8-12-99</u>
Site	<u>83</u>	Description	<u>MISC METAL DEBRIS</u>		Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other <input type="checkbox"/> HTW <input type="checkbox"/> CS
Gross Weight	<u>856</u>	Tare Weight	<u>319</u>	Net Weight	<u>537</u>	Initials	<u>MSC</u>
Net Weight	<u>537</u>	Tare to Connex	<u>0</u>	Gross to Connex	<u>537</u>	Connex#	<u>299153</u> <u>299289</u>

Ticket #	<u>GAM296</u>	Date Collected	<u>8-11-99</u>	Date Weighed	<u>8-12-99</u>	Date Loaded	<u>8-12-99</u>
Site	<u>4B</u>	Description	<u>CONT SOIL</u>		Count:	<u>1 BAG</u>	<input type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other <input checked="" type="checkbox"/> HTW <input type="checkbox"/> CS
Gross Weight	<u>1541</u>	Tare Weight	<u>7</u>	Net Weight	<u>1534</u>	Initials	<u>MSC</u>
Net Weight	<u>1534</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>1541</u>	Connex#	<u>299289</u> <u>5374</u>

Ticket #	<u>GAM297</u>	Date Collected	<u>8-11-99</u>	Date Weighed	<u>8-12-99</u>	Date Loaded	<u>8-12-99</u>
Site	<u>4B</u>	Description	<u>CONT SOIL</u>		Count:	<u>1 BAG</u>	<input type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other <input checked="" type="checkbox"/> HTW <input type="checkbox"/> CS
Gross Weight	<u>875</u>	Tare Weight	<u>7</u>	Net Weight	<u>868</u>	Initials	<u>MSC</u>
Net Weight	<u>868</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>875</u>	Connex#	<u>299289</u> <u>6199</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM298</u>	Date Collected <u>8-11-99</u>	Date Weighed <u>8-12-99</u>	Date Loaded <u>8-12-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1 BAG</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight <u>1209</u>	Tare Weight <u>7</u>	Net Weight <u>1202</u>	Initials <u>MSC</u>
Net Weight <u>1202</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1209</u>	✓ 2055630 Connex# <u>259212</u>

Ticket # <u>GAM299</u>	Date Collected <u>8-11-99</u>	Date Weighed <u>8-12-99</u>	Date Loaded <u>8-12-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1 BAG</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight <u>1704</u>	Tare Weight <u>7</u>	Net Weight <u>1697</u>	Initials <u>MSC</u>
Net Weight <u>1697</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1704</u>	✓ 2055630 Connex# <u>259212</u> 2913

Ticket # <u>GAM300</u>	Date Collected <u>8-11-99</u>	Date Weighed <u>8-12-99</u>	Date Loaded <u>8-12-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1 BAG</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight <u>1236</u>	Tare Weight <u>7</u>	Net Weight <u>1231</u>	Initials <u>MSC</u>
Net Weight <u>1231</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1238</u>	✓ 2055630 Connex# <u>259212</u> 4151

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska
4151

Ticket # <u>GAM301</u>	Date Collected <u>8-11-99</u>	Date Weighed <u>8-12-99</u>	Date Loaded <u>8-12-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1BAG</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight <u>592</u>	Tare Weight <u>7</u>	Net Weight <u>585</u>	Initials <u>MSC</u>
Net Weight <u>585</u>	Tare to Connex <u>7</u>	Gross to Connex <u>592</u>	Connex# <u>12055630</u> <u>259212</u> <u>4743</u>

Ticket # <u>GAM302</u>	Date Collected <u>8-11-99</u>	Date Weighed <u>8-12-99</u>	Date Loaded <u>8-12-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1BAG</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight <u>1034</u>	Tare Weight <u>7</u>	Net Weight <u>1027</u>	Initials <u>MSC</u>
Net Weight <u>1027</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1034</u>	Connex# <u>12055630</u> <u>259212</u> <u>5777</u>

Ticket # <u>GAM303</u>	Date Collected <u>8-11-99</u>	Date Weighed <u>8-12-99</u>	Date Loaded <u>8-12-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1TOTE</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight <u>1910</u>	Tare Weight <u>178</u>	Net Weight <u>1742</u>	Initials <u>MSC</u>
Net Weight <u>1742</u>	Tare to Connex <u>136</u>	Gross to Connex <u>1878</u>	Connex# <u>12053263</u> <u>299153</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM307</u>	Date Collected <u>8-11-99</u>	Date Weighed <u>8-12-99</u>	Date Loaded <u>8-12-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1BAG</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight <u>1301</u>	Tare Weight <u>7</u>	Net Weight <u>1294</u>	Initials <u>MSC</u> <u>12053263</u>
Net Weight <u>1294</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1301</u>	Connex# <u>299153</u>

Ticket # <u>GAM308</u>	Date Collected <u>8-11-99</u>	Date Weighed <u>8-12-99</u>	Date Loaded <u>8-12-99</u>
Site <u>4B</u>	Description <u>CONT. SOIL</u>	Count: <u>1BAG</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight <u>1402</u>	Tare Weight <u>7</u>	Net Weight <u>1395</u>	Initials <u>MSC</u> <u>12053263</u>
Net Weight <u>1395</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1402</u>	Connex# <u>299153</u> 2705

Ticket # <u>GAM309</u>	Date Collected <u>8-12-99</u>	Date Weighed <u>8-12-99</u>	Date Loaded <u>8-12-99</u>
Site <u>8</u>	Description <u>STAINED SOIL</u>	Count: <u>1BAG</u>	BDR <u>SS</u> HTW <u>CS</u> Other _____
Gross Weight <u>1158</u>	Tare Weight <u>7</u>	Net Weight <u>1151</u>	Initials <u>MSC</u>
Net Weight <u>1151</u>	Tare to Connex <u>7</u>	Gross to Connex <u>1158</u>	Connex# <u>26110/201576</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

~~8-15-99~~

8-15-99

Ticket #	<u>GAM310</u>	Date Collected	<u>8-13-99</u>	Date Weighed	8-14-99 <u>8-12-99</u>	Date Loaded	8-14-99 <u>8-12-99</u>
Site	<u>8</u>	Description	<u>DRUM PTS</u>	Count:	<u>N/A</u>	BDR <input type="checkbox"/>	<input checked="" type="checkbox"/> HTW
						SS <input type="checkbox"/>	CS <input type="checkbox"/>
		Other					
Gross Weight	<u>2300</u>	Tare Weight	<u>319</u>	Net Weight	<u>1981</u>	Initials	<u>MBC</u>
Net Weight	<u>1981</u>	Tare to Connex	<u>0</u>	Gross to Connex	<u>1981</u>	Connex#	<u>299327</u> ✓

Ticket #	<u>GAM311</u>	Date Collected	<u>8-12-99</u>	Date Weighed	8-14-99 <u>8-12-99</u>	Date Loaded	8-14-99 <u>8-12-99</u>
Site	<u>5</u>	Description	<u>MISC METAL DEBRIS</u>	Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR	<input checked="" type="checkbox"/> HTW
						SS <input type="checkbox"/>	CS <input type="checkbox"/>
		Other					
Gross Weight	<u>2460</u>	Tare Weight	<u>319</u>	Net Weight	<u>2141</u>	Initials	<u>MBC</u>
Net Weight	<u>2141</u>	Tare to Connex	<u>0</u>	Gross to Connex	<u>2141</u>	Connex#	<u>299153</u> ✓ <u>299327</u>

Ticket #	<u>GAM312</u>	Date Collected	<u>8-12-99</u>	Date Weighed	8-14-99 <u>8-12-99</u>	Date Loaded	8-14-99 <u>8-12-99</u>
Site	<u>8</u>	Description	<u>MISC METAL DEBRIS</u> <u>DRUM PTS LANDING MAT</u>	Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR	<input checked="" type="checkbox"/> HTW
						SS <input type="checkbox"/>	CS <input type="checkbox"/>
		Other					
Gross Weight	<u>2080</u>	Tare Weight	<u>319</u>	Net Weight	<u>1761</u>	Initials	<u>MBC</u>
Net Weight	<u>1761</u>	Tare to Connex	<u>0</u>	Gross to Connex	<u>1761</u>	Connex#	<u>299153</u> ✓ <u>299327</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM313</u>	Date Collected	<u>8-13-99</u>	Date Weighed	<u>8-14-99 8-12-99</u>	Date Loaded	<u>8-14-99 8-12-99</u>	<u>8-15-99</u>	
Site	<u>5</u>	Description	<u>MISC METAL DEBRIS</u>			Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other	<input checked="" type="checkbox"/> HTW <input type="checkbox"/> CS
Gross Weight	<u>1320</u>	Tare Weight	<u>319</u>	Net Weight	<u>1001</u>	Initials <u>MSC</u>			
Net Weight	<u>1001</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>1001</u>	Connex#	<u>299153V</u>		

Ticket #	<u>GAM314</u>	Date Collected	<u>8-12-99</u>	Date Weighed	<u>8-14-99 8-12-99</u>	Date Loaded	<u>8-14-99 8-12-99</u>	<u>8-15-99</u>	
Site	<u>8</u>	Description	<u>DRUM PTS</u>			Count:	<u>N/A</u>	<input type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other	<input checked="" type="checkbox"/> HTW <input type="checkbox"/> CS
Gross Weight	<u>1100</u>	Tare Weight	<u>319</u>	Net Weight	<u>781</u>	Initials <u>MSC</u>			
Net Weight	<u>781</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>781</u>	Connex#	<u>299327V</u>		

Ticket #	<u>GAM315</u>	Date Collected	<u>8-12-99</u>	Date Weighed	<u>8-14-99 8-12-99</u>	Date Loaded	<u>8-14-99 8-12-99</u>	<u>8-15-99</u>	
Site	<u>8</u>	Description	<u>DRUM PTS</u>			Count:	<u>N/A</u>	<input type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other	<input checked="" type="checkbox"/> HTW <input type="checkbox"/> CS
Gross Weight	<u>1500</u>	Tare Weight	<u>319</u>	Net Weight	<u>1181</u>	Initials <u>MSC</u>			
Net Weight	<u>1181</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>1181</u>	Connex#	<u>299327V</u>		

W. Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket #	<u>GAM316</u>	Date Collected	<u>7-22-99</u>	Date Weighed	<u>8-14-99</u>	Date Loaded	<u>8-14-99</u>	
Site	<u>BETWEEN 3&5</u>	Description	<u>MISC METAL DEBRIS</u>		Count:	<u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other <input type="checkbox"/> HTW CS	
Gross Weight	<u>1760</u>	Tare Weight	<u>319</u>	Net Weight	<u>1441</u>		Initials	<u>MSC</u>
Net Weight	<u>1441</u>	Tare to Connex	<u>Ø</u>	Gross to Connex	<u>1441</u>	Connex#	<u>299074</u> ✓	

Ticket #	<u>GAM317</u>	Date Collected	<u>8-10-99</u>	Date Weighed	<u>8-14-99</u>	Date Loaded	<u>8-14-99</u>	
Site	<u>10</u>	Description	<u>NAVY WIRES & CABLES</u>		Count:	<u>1 BAG</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other <input type="checkbox"/> HTW CS	
Gross Weight	<u>318</u>	Tare Weight	<u>17</u> ^{CABLE}	Net Weight	<u>301</u>		Initials	<u>MSC</u>
Net Weight	<u>301</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>308</u>	Connex#	<u>299074</u> ✓	

Ticket #	<u>GAM318</u>	Date Collected	<u>8-10-99</u>	Date Weighed	<u>8-14-99</u>	Date Loaded	<u>8-14-99</u>	
Site	<u>10</u>	Description	<u>NAVY WIRES & CABLES</u>		Count:	<u>1 BAG</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other <input type="checkbox"/> HTW CS	
Gross Weight	<u>205</u>	Tare Weight	<u>7</u>	Net Weight	<u>198</u>		Initials	<u>MSC</u>
Net Weight	<u>198</u>	Tare to Connex	<u>7</u>	Gross to Connex	<u>205</u>	Connex#	<u>299074</u> ✓	

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM319</u>	Date Collected <u>8-10-99</u>	Date Weighed <u>8-15-99</u> 8-14-99	Date Loaded <u>8-15-99</u> 8-14-99
Site <u>10</u>	Description <u>NAVY WIRE & CABLE</u>	Count: <u>1BAG</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____
Gross Weight <u>350</u>	Tare Weight <u>7</u>	Net Weight <u>343</u>	Initials <u>MSC</u>
Net Weight <u>343</u>	Tare to Connex <u>7</u>	Gross to Connex <u>350</u>	Connex# <u>299074</u> ✓

Ticket # <u>GAM320</u>	Date Collected <u>8-12-99</u>	Date Weighed <u>8-15-99</u> 8-14-99	Date Loaded <u>8-15-99</u> 8-14-99
Site <u>10</u>	Description <u>NAVY WIRE & CABLE</u>	Count: <u>1BAG</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____
Gross Weight <u>342</u>	Tare Weight <u>17</u>	Net Weight <u>325</u>	Initials <u>MSC</u>
Net Weight <u>325</u>	Tare to Connex <u>7</u>	Gross to Connex <u>332</u>	Connex# <u>299074</u> ✓

Ticket # <u>GAM321</u>	Date Collected <u>8-12-99</u>	Date Weighed <u>8-15-99</u> 8-14-99	Date Loaded <u>8-15-99</u> 8-14-99
Site <u>4B</u>	Description <u>NAVY WIRE & CABLE</u>	Count: <u>1BAG</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS Other _____
Gross Weight <u>458</u>	Tare Weight <u>7</u>	Net Weight <u>451</u>	Initials <u>MSC</u>
Net Weight <u>451</u>	Tare to Connex <u>7</u>	Gross to Connex <u>458</u>	Connex# <u>299153</u> ✓ <u>299074</u>

W. Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM322</u>	Date Collected <u>8-12-99</u>	Date Weighed <u>8-15-99</u> 8-14-99	Date Loaded <u>8-15-99</u> 8-14-99
Site <u>4D</u>	Description <u>NAVY WIRES & CABLES</u>	Count: <u>1 BAG</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> HTW <input type="checkbox"/> CS Other _____
Gross Weight <u>284</u>	Tare Weight <u>?</u>	Net Weight <u>277</u>	Initials <u>MSL</u>
Net Weight <u>277</u>	Tare to Connex <u>?</u>	Gross to Connex <u>284</u>	299153 ✓ Connex# <u>299074</u>

Ticket # <u>GAM323</u>	Date Collected <u>8-12-99</u>	Date Weighed <u>8-15-99</u> 8-14-99	Date Loaded <u>8-15-99</u> 8-14-99
Site <u>4D</u>	Description <u>NAVY WIRES & CABLES</u>	Count: <u>1 BAG</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> HTW <input type="checkbox"/> CS Other _____
Gross Weight <u>337</u>	Tare Weight <u>?</u>	Net Weight <u>330</u>	Initials <u>MSL</u>
Net Weight <u>330</u>	Tare to Connex <u>?</u>	Gross to Connex <u>337</u>	299153 ✓ Connex# <u>299074</u>

Ticket # <u>GAM324</u>	Date Collected <u>8-6-99</u> 8-0	Date Weighed <u>8-15-99</u> 8-14-99 8-06-99	Date Loaded <u>8-15-99</u> 8-14-99
Site <u>8</u>	Description <u>RUNNERS</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> HTW <input type="checkbox"/> CS Other _____
Gross Weight <u>44280</u>	Tare Weight <u>39520</u> *(=966)	Net Weight <u>4760</u>	Initials <u>MSL</u>
Net Weight <u>4760</u>	Tare to Connex <u>Ø</u>	Gross to Connex <u>4760</u>	Connex# <u>201622 ✓</u>

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # <u>GAM325</u>	Date Collected <u>8-6-99</u>	Date Weighed 8-14-99 <u>8-6-99</u>	Date Loaded 8-14-99 <u>8-15-99</u>
Site <u>8</u>	Description <u>CUT BLOCKS</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other
Gross Weight <u>417000</u>	Tare Weight ⁹⁶⁶ <u>39500</u>	Net Weight <u>7480</u>	Initials <u>MSC</u>
Net Weight <u>7480</u>	Tare to Connex <u>0</u>	Gross to Connex <u>7480</u>	Connex# <u>201622</u> ✓

Ticket # <u>GAM326</u>	Date Collected <u>8-6-99</u>	Date Weighed 8-14-99 <u>8-6-99</u>	Date Loaded 8-14-99 <u>8-15-99</u>
Site <u>8</u>	Description <u>RUNNERS & CUT PIECES</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other
Gross Weight <u>43160</u>	Tare Weight ⁹⁶⁶ <u>39520</u>	Net Weight <u>3640</u>	Initials <u>MSC</u>
Net Weight <u>3640</u>	Tare to Connex <u>0</u>	Gross to Connex <u>3640</u>	Connex# <u>201622</u> ✓

Ticket # <u>GAM327</u>	Date Collected <u>8-6-99</u>	Date Weighed 8-14-99 <u>8-6-99</u>	Date Loaded 8-14-99 <u>8-15-99</u>
Site <u>8</u>	Description <u>SLED w/ RUNNERS</u>	Count: <u>N/A</u>	<input checked="" type="checkbox"/> BDR <input type="checkbox"/> SS <input type="checkbox"/> Other
Gross Weight <u>52320</u>	Tare Weight <u>39520</u>	Net Weight <u>12800</u>	Initials <u>MSC</u>
Net Weight <u>12800</u>	Tare to Connex <u>0</u>	Gross to Connex <u>12800</u>	Connex# <u>024754 (FLAT)</u> ✓

Appendix C
Waste Manifests and Certificates of Disposal

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **A.K.R.O.O.O.O.O.3.2.2.8** Manifest Document No. **G.A.H.O.1**

2. Page 1 of 1

3. Generator's Name and Mailing Address
US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)
PO BOX 35066

4. Generator's Phone (**FT WALNSRIGHT AK 99703-0066 (907)353-7063**

5. Transporter 1 Company Name **Northland Services** 6. US EPA ID Number **W.A.D.9.8.1.7.7.3.0.0.5**

A. Transporter's Phone **(206)763-3000**

7. Transporter 2 Company Name **Resource Recovery** 8. US EPA ID Number **W.A.D.O.6.1.6.7.2.8.1.2**

B. Transporter's Phone **(253)383-3044**

9. Designated Facility Name and Site Address
RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108 10. US EPA ID Number **E.X.E.M.P.T.**

C. Facility's Phone **(206) 623-4000**

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. NON-RCRA WASTE SOLID (PETROLEUM CONTAMINATED SOIL)	003	BA	01877	P
b. NON-RCRA WASTE SOLID (EMPTY DRUMS)	001	CM	08089	P
c.	.	.	.	.
d.	.	.	.	.

D. Additional Descriptions for Materials Listed Above
 a) 162939-00 - - PETROLEUM CONTAMINATED SOIL, RABANCO CERTIFICATION NO. 99-1121 - DIRO1 (22) b) 162940-00 - - RCRA EMPTY DRUMS, RABANCO CERTIFICATION NO. 99-1120 - DIRO1 (21)

E. Handling Codes for Wastes Listed Above
 a) b)

15. Special Handling Instructions and Additional Information
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name _____ Signature _____ Month Day Year
 . . .

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Month Day Year
 . . .

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Month Day Year
 . . .

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
 Printed/Typed Name _____ Signature _____ Month Day Year
 . . .

GENERATOR

TRANSPORTER

FACILITY

99A607

05/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. A.K.R.O.O.O.O.O.3.2.2.3 G.A.M.O.1

Manifest Document No.

2. Page 1 of 1

3. Generator Name and Mailing Address: US ARM (ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL) PO BOX 35066

4. Generator Phone: FT WAINSRIGHT AK 99703-0066 (907) 251-7063

5. Transporter 1 Company Name: Northland Services 6. US EPA ID Number: W.A.D.9.8.0.0.3.0.0.5

A. Transporter's Phone: (206) 763-3000

7. Transporter 2 Company Name: Resource Recovery 8. US EPA ID Number: W.A.D.O.6.1.6.7.2.8.1.2

B. Transporter's Phone: (253) 383-3044

9. Designated Facility Name and Site Address: RABANCO RECYCLING 4 TH & LANAKS SEATTLE, WA 98108 10. US EPA ID Number: E.X.E.H.P.

C. Facility's Phone: (206) 671-4000

Table with 4 columns: Waste Shipping Name and Description, 12. Container No., 13. Total Quantity, 14. Unit Wt/Vol. Rows include: a. NON-RCRA WASTE SOLID (PETROLEUM CONTAMINATED SOIL), b. NON-RCRA WASTE SOLID (EMPTY DRUMS).

D. Additional Descriptions for Materials Listed Above: a) 162933-00 - PETROLEUM CONTAMINATED SOIL, RABANCO CERTIFICATE NO. 99-1121 DTR01 (2) b) 162933-00 - RCRA EMPTY DRUMS, RABANCO CERTIFICATE NO. 99-1120 - DTR01 (2)

E. Handling Codes for Wastes Listed Above: a) b)

15. Special Handling Instructions and Additional Information: GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are subject to federal regulations for reporting and disposal of Hazardous Waste.

Printed/Typed Name: IN BEHALF OF US GOVT STEVEN BELLORE Signature: Steven Bellore Month Day Year: 18 | 2 | 99

17. Transporter 1 Acknowledgement of Receipt of Materials: Printed/Typed Name: MARY HOWARD NORTHLAND SERVICES Signature: Mary Howard Month Day Year: 18 | 2 | 99

18. Transporter 2 Acknowledgement of Receipt of Materials: Printed/Typed Name: Tim ... Signature: ... Month Day Year: 11 | 14 | 99

19. Discrepancy Indication: (Empty field)

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Signature: L. Lopez Month Day Year: 11 | 16 | 98

TRANSPORTER'S

GENERATOR

TRANSPORTER

FACILITY

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB no. 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No AKR000003228		Manifest Document No. GAM02		2 Page 1 of 1		Information in the shaded areas is not required by Federal law.				
		3. Generator's Name and Mailing Address US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL) PO BOX 35066						A. State Manifest Document Number				
4. Generator's Phone FT WAINSRIGHT AK 99703-0066 (907)353-7063						B. State Generator's ID						
5. Transporter 1 Company Name Northland Services			6. US EPA ID Number WAD981773005			C. State Transporter's ID		D. Transporter's Phone (206)763-3000				
7. Transporter 2 Company Name Resource Recovery			8. US EPA ID Number WAD061672812			E. State Transporter's ID		F. Transporter's Phone (253)383-3044				
9. Designated Facility Name and Site Address BURLINGTON ENVIRONMENTAL INC. 734 South Lucile Street Seattle, WA 98108				10. US EPA ID Number WAD000812909		G. State Facility's ID		H. Facility's Phone (206) 762-3362				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.		
						No.	Type					
GENERATOR	a.	HAZARDOUS WASTE, SOLID, N.O.S. (D008) 9 NA3077 PGIII ERG+(171)				1	DM	601	P	D008		
	b.	WASTE TARS, LIQUID 3 UN1999 PGII (D001) ERG+(130)				9	DM	4458	P	D001		
	c.	HAZARDOUS WASTE, SOLID, N.O.S. (D008) 9 NA3077 PGIII ERG+(171)				1	DM	378	P	D008		
	d.	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (LEAD) 9 UN3077 PGIII (LEAD) ERG+(171)				1	TB	619	P			
J. Additional Descriptions for Materials Listed Above a) 162785-00 - - LEAD CONTAMINATED SOIL - STAB07 (2) b) 162781-00 - - TAR - AFO1 AFO2 AFO3 AFO4 AFO6 (4) c) 162783-00 - - LEAD PAINT, DRIED - STAB07 (5) d) 162782-00 - - LEAD BATTERIES - REC05 (3)						K. Handling Codes for Wastes Listed Above a) b) c) d)						
15. Special Handling Instructions and Additional Information												
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.												
Printed/Typed Name					Signature					Month	Day	Year
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials											
	Printed/Typed Name					Signature					Month	Day	Year
TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials											
	Printed/Typed Name					Signature					Month	Day	Year
FACILITY	19. Discrepancy Indication Space											
	20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19											
Printed/Typed Name					Signature					Month	Day	Year

*** FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (907) 272-9007 ***

99A607

08/17/99

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. AKR000003228		Manifest Document No. GEM02		2. Page 1 of 1		Information in the shaded areas is not required by Federal law		
3. Generator's Name and Mailing Address US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL) PO BOX 35066						A. State Manifest Document Number				
4. Generator's Phone FT WAINSRIGHT AK 99703-0066 (907) 353-7063						B. State Generator's ID				
5. Transporter 1 Company Name Northland Services			6. US EPA ID Number WAD981773003			C. State Transporter's ID		D. Transporter's Phone (206) 763-3000		
7. Transporter 2 Company Name Resource Recovery			8. US EPA ID Number WAD061672812			E. State Transporter's ID		F. Transporter's Phone (253) 383-3044		
9. Designated Facility Name and Site Address BURLINGTON ENVIRONMENTAL INC. 734 South Lucile Street Seattle WA 98108						10. US EPA ID Number WAD000129112		G. State Facility's ID		
						H. Facility's Phone (206) 62-3362				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. RQ HAZARDOUS WASTE, SOLID, N.O.S. (D008) 9 NA3077 PGIII ERG1(171)						1	DM	601	P	D008
b. RQ WASTE OILS, LIQUID 9 UN199 PGII (D001) ERG1(130)						9	DM	4458	P	D001
c. RQ HAZARDOUS WASTE, SOLID, R.O.S. (D008) 9 NA3077 PGIII ERG1(171)						1	DM	376	P	D008
d. RQ ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (LEAD) 9 NA3077 PGIII (LEAD) ERG1(171)						1	TB	615	P	
J. Additional Descriptions for Materials Listed Above a) 112785-00 - LEAD CONTAMINATED SOIL - STAROT (2) b) 162781-00 - TAR - AP01 AP02 AP03 AP04 AP05 (4) c) 162783-00 - LEAD PAINT, DPLIED - STAROT (5) d) 162712-00 - LEAD BATTERIES - ERGOS (1)						K. Handling Codes for Wastes Listed Above a) b) c) f)				
15. Special Handling Instructions and Additional Information										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I will make a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.										
Printed/Typed Name IN BEHALF OF US GOVT STEVEN LECLERC						Signature <i>Steven Leclerc</i>		Month Day Year 18 12 99		
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name LARRY HOWARD Northland Services						Signature <i>Larry Howard</i>		Month Day Year 18 12 99		
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name West Miller						Signature <i>West Miller</i>		Month Day Year 11 10 99		
19. Discrepancy Indication Space										
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name RICK GILBERT						Signature <i>Rick Gilbert</i>		Month Day Year 11 10 99		

Container 299264

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB no. 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No AKR000003228		Manifest Document No. GAM03		2 Page 1 of 1		Information in the shaded areas is not required by Federal law									
		3. Generator's Name and Mailing Address US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL) PO BOX 35066 FT WAINSRIGHT AK 99703-0066 (907)353-7063						A. State Manifest Document Number		B. State Generator's ID							
4. Generator's Phone		5. Transporter 1 Company Name Northland Services		6. US EPA ID Number WAD981773005		C. State Transporter's ID		D. Transporter's Phone (206)763-3000									
7. Transporter 2 Company Name Resource Recovery		8. US EPA ID Number WADO61672812		E. State Transporter's ID		F. Transporter's Phone (253)383-3044		G. State Facility's ID									
9. Designated Facility Name and Site Address Chem Waste Mgmt of Northwest 17629 Cedar Springs Lane Arlington , OR 97812		10. US EPA ID Number ORD089452353		H. Facility's Phone (541) 454-2643													
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.					
						No.		Type									
a. RQ		HAZARDOUS WASTE, SOLID, H.O.S. (D008) 9 NA3077 PGIII ERG4(171)				17		BA		16436		P		D008			
b. RQ		HAZARDOUS WASTE, SOLID, H.O.S. (D008) 9 NA3077 PGIII ERG4(171)				1		TB		2560		P		D008			
c.																	
d.																	
J. Additional Descriptions for Materials Listed Above a) CO4833-00 - - LEAD CONTAMINATED SOIL - D101 (6) b) CO4833-00 - - LEAD CONTAMINATED SOIL - D101 (7)						K. Handling Codes for Wastes Listed Above a) b)											
15. Special Handling Instructions and Additional Information																	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.																	
Printed/Typed Name						Signature						Month		Day		Year	
17. Transporter 1 Acknowledgement of Receipt of Materials																	
Printed/Typed Name						Signature						Month		Day		Year	
18. Transporter 2 Acknowledgement of Receipt of Materials																	
Printed/Typed Name						Signature						Month		Day		Year	
19. Discrepancy Indication Space																	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19																	
Printed/Typed Name						Signature						Month		Day		Year	

345

FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (907) 272-9007

991607

08/24/99

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347564

Form Approved, OMB no. 2050-0030. Expires 1

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No AKR00X003228		Manifest Document No. CA1002		2. Page 1 of 1		Information in the shaded area is not required by Federal law					
3. Generator's Name and Mailing Address US ARMY ENGINEERING DIST AK CEPDA-CO-ET. (CAMBELL) PO BOX 35060						A. State Manifest Document Number							
4. Generator's Phone FT WAINSWRIGHT AK 99703-0066 (907) 353-7063						B. State Generator's ID							
5. Transporter 1 Company Name Northland Services			6. US EPA ID Number WAD981773005			C. State Transporter's ID							
7. Transporter 2 Company Name Resource Recovery			8. US EPA ID Number WAD061572812			D. Transporter's Phone (206) 763-3000							
9. Designated Facility Name and Site Address Chem Waste Mgmt of Northwest 17629 Cedar Springs Lane Arlington, OR 97812						E. State Transporter's ID							
						F. Transporter's Phone (253) 383-3044							
						G. State Facility's ID							
						H. Facility's Phone (541) 454-2643							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. HAZARDOUS WASTE, SOLID, N.O.S. (D008) 9 HA3077 PG11 (D008) RC (171)						17 RA		16436		P		D008	
b. HAZARDOUS WASTE, SOLID, N.O.S. (D008) 9 HA3077 PG11 (D008) RC (171)						17 RA		2560		P		D008	
c.													
d.													
J. Additional Descriptions for Materials Listed Above a) C04833-00 - LEAD CONTAMINATED SOIL (UFC'S HxCD's, HxPC's, HxT's, HxO's, HxCDF's, HxCDF's) - DIRM (36) b) C04833-00 - LEAD CONTAMINATED SOIL (UFC'S HxCD's, HxCDF's, HxCDF's, HxCDF's, HxCDF's) - DIRM (33)						K. Handling Codes for Wastes Listed Above a) b)							
15. Special Handling Instructions and Additional Information													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment, accurately and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name in BEHALF OF US GOVT STEVEN LECLOX						Signature <i>Steven LeCloux</i>			Month Day Yr 8 26 99				
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name LARRY HOWARD Northland Services						Signature <i>Larry Howard</i>			Month Day Yr 8 26 99				
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name CHUCK NEULOFF						Signature <i>Chuck Neuloff</i>			Month Day Yr 11 28 99				
19. Discrepancy Indication Space													
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19 Printed/Typed Name NICOLE D ROUSHA Signature <i>Nicole D Rousha</i> Month Day Yr 8 26 99													

Container 2056766

TRANSPORTER

FACILITY

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB no. 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No AKR000003228		Manifest Document No. GAM04		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.											
		3. Generator's Name and Mailing Address US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL) PO BOX 35066						A. State Manifest Document Number		B. State Generator's ID									
4. Generator's Phone FT WAINSRIGHT AK 99703-0066 (907)353-7063						6. US EPA ID Number WAD981773005		C. State Transporter's ID		D. Transporter's Phone (206)763-3000									
5. Transporter 1 Company Name Northland Services						7. Transporter 2 Company Name Resource Recovery		E. State Transporter's ID		F. Transporter's Phone (253)383-3044									
9. Designated Facility Name and Site Address Chem Waste Mgmt of Northwest 17629 Cedar Springs Lane Arlington, OR 97812						10. US EPA ID Number ORD089452353		G. State Facility's ID		H. Facility's Phone (541) 454-2643									
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.							
						No.		Type											
						a. RQ		HAZARDOUS WASTE, SOLID, H.O.S. (D008) 9 NA3077 PGIII RC6+(171)		20		BA		18342		P		D001	
						b.													
						c.													
d.																			
J. Additional Descriptions for Materials Listed Above a) C04833-00 - - LEAD CONTAMINATED SOIL - DIR01 (8)						K. Handling Codes for Wastes Listed Above a)													
15. Special Handling Instructions and Additional Information																			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.																			
Printed/Typed Name						Signature						Month Day Year							
17. Transporter 1 Acknowledgement of Receipt of Materials																			
Printed/Typed Name						Signature						Month Day Year							
18. Transporter 2 Acknowledgement of Receipt of Materials																			
Printed/Typed Name						Signature						Month Day Year							
19. Discrepancy Indication Space																			
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19																			
Printed/Typed Name						Signature						Month Day Year							

347310

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB no. 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. AKR000003228		Manifest Document No. GAH03		2. Page 1 of 1		Information in the shaded area is not required by Federal law.						
3. Generator's Name and Mailing Address US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMPELL) PO BOX 35066						4. State and (or) Document Number								
4. Generator's Phone NA INSRIGHT AK 99703-0066 (907) 352-5063						5. State and (or) Document Number								
5. Transporter 1 Company Name Northland Services				6. US EPA ID Number WAD981772015		6. State and (or) Document Number								
7. Transporter 2 Company Name Resource Recovery				8. US EPA ID Number WAD061672812		7. State and (or) Document Number								
9. Designated Facility Name and Site Address Chem Waste Mgmt of Northwest 17629 Cedar Springs Lane Arlington, OR 97812						10. US EPA ID Number		8. State and (or) Document Number						
						9. State and (or) Document Number		9. State and (or) Document Number						
						10. State and (or) Document Number		10. State and (or) Document Number						
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit (Unit/Vol)		15. Waste No.		
a. HAZARDOUS WASTE, SOLID, N.O.S. (D008) 9 NA3077 PGIII (D008) RQ ENG1(171)						20 BA		18342		P		D008		
b.														
c.														
d.														
J. Additional Descriptions for Materials Listed Above a) COM 33-00 - LEAD CONTAMINATED SOIL (HRC'S RCDDs, RCDFs, RCUDs, RCDFs, RCDDs, RCDFs, - D101 (H))						K. Handling Codes for Wastes Listed Above 4)								
15. Special handling instructions and Additional Information														
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.														
Printed, Typed Name IN BEHALF OF US GOVT STEVEN LULLER						Signature <i>Steven Luller</i>			Month Day Year 8 | 26 | 99					
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed, Typed Name LARRY HOWARD Northland Services			Signature <i>Larry Howard</i>			Month Day Year 8 | 26 | 99		
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed, Typed Name RON PERZ			Signature <i>Ron Perz</i>			Month Day Year 11 | 18 | 99		
19. Discrepancy Indication Space														
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19						Printed, Typed Name F. Bailey			Signature <i>F. Bailey</i>			Month Day Year 11 | 10 | 99		

Container 2055630

GENERATOR

TRANSPORTER

FACILITY

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB no. 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No AKR000003228	Manifest Document No. GAM05		2 Page 1 of 1	Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL) PO BOX 35066 FT WAINSRIGHT AK 99703-0066 (907)353-7063					A. State Manifest Document Number						
4. Generator's Phone					B. State Generator's ID						
5. Transporter 1 Company Name Northland Services		6. US EPA ID Number WAD981773005		C. State Transporter's ID			D. Transporter's Phone (206)763-3000				
7. Transporter 2 Company Name Resource Recovery		8. US EPA ID Number WAD061672812		E. State Transporter's ID			F. Transporter's Phone (253)383-3044				
9. Designated Facility Name and Site Address Chem Waste Mgmt of Northwest 17629 Cedar Springs Lane Arlington, OR 97812		10. US EPA ID Number ORD089452353		G. State Facility's ID			H. Facility's Phone (541) 454-2643				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.		
					a. HAZARDOUS WASTE, SOLID, N.O.S. (D008) 9 NA3077 PGIII ERGF (171)		No.	Type	17749	P	D008
					b.						
					c.						
					d.						
J. Additional Descriptions for Materials Listed Above a) CO4833-00 - - LEAD CONTAMINATED SOIL - DIR01 (9)					K. Handling Codes for Wastes Listed Above a)						
15. Special Handling Instructions and Additional Information											
<p>16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.</p> <p>If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.</p>											
Printed/Typed Name				Signature		Month		Day	Year		
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name				Signature		Month		Day	Year		
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name				Signature		Month		Day	Year		
19. Discrepancy Indication Space											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19											
Printed/Typed Name				Signature		Month		Day	Year		

Please print or type (Form designed for two-line (12-pitch) typewriter.)

P&R #404

Form Approved, OMB No. 2050-0039, Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. AKR000003228		Manifest Document No. GM05		2. Page 1 of 1		Information in the shaded area is not required by Federal law.	
3. Generator's Name and Mailing Address: US ARMY ENGINEERING DIST AK CEPOA-CO-ER (GAMPEL) EO BOX 35066 FT WAINSWRIGHT AK 99703-0066 (907) 313-7063						A. State Manifest Document Number			
4. Generator's Phone						B. State Generator's ID			
5. Transporter 1 Company Name Northland Services			6. US EPA ID Number WAJ0981773005			C. State Transporter's ID		D. Transporter's Phone: (206) 763-3000	
7. Transporter 2 Company Name Resource Recovery			8. US EPA ID Number WAL061072812			E. State Transporter's ID		F. Transporter's Phone: (253) 383-3044	
9. Designated Facility Name and Site Address Chem Waste Hgmt of Northwest 17529 Cedar Springs Lane Arlington, OR 97812						10. US EPA ID Number ORDC8965351		G. State Facility's ID	
						H. Facility's Phone (541) 54-2643			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. EQ HAZARDOUS WASTE, SOLID, N.O.S. (D008) & HAZARDOUS SOLID (D009) 214 (171)						No. Type	17749	P	D008
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above a) COE133-00 LEAD CONTAMINATED SOIL (UBC'S HxCDDs, HxCDFs, PeCDDs, PeCDFs, TCDDs, TCDFs) (1801 (9))						K. Handling Codes for Wastes Listed Above a)			
15. Special Handling Instructions and Additional Information									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed, Typed Name: <i>ON BEHALF OF US GOVT</i> STEVEN LECLERC						Signature: <i>[Signature]</i>		Month Day Year: 8 | 26 | 99	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed, Typed Name: <i>LARRY HOWARD</i> NORTHLAND SERVICES						Signature: <i>[Signature]</i>		Month Day Year: 8 | 26 | 99	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed, Typed Name: <i>[Name]</i>						Signature: <i>[Signature]</i>		Month Day Year: 11 | 10 | 99	
19. Discrepancy/Exception Space <i>X OWNER DID NOT SIGN MANIFEST - THEY DID SIGN CANADIAN MANIFEST @ RESOURCE RECOVERY DATE 11-15-99</i>									
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19 Printed, Typed Name:						Signature:		Month Day Year:	

CONTAINER 259176

TRANSPORTER
FACILITY

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB no. 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No AKR000003228		Manifest Document No. GAM06		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
		Generator's Name and Mailing Address US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL) PO BOX 35066											
4. Generator's Phone FT WAINSWRIGHT AK 99703-0066 (907)353-7063								A. State Manifest Document Number					
5. Transporter 1 Company Name Northland Services				6. US EPA ID Number WAD981773005				B. State Generator's ID					
7. Transporter 2 Company Name Resource Recovery				8. US EPA ID Number WAD061672812				C. State Transporter's ID					
9. Designated Facility Name and Site Address Chem Waste Mgmt of Northwest 17629 Cedar Springs Lane Arlington, OR 97812				10. US EPA ID Number ORD089452353				D. Transporter's Phone (206)763-3000					
								E. State Transporter's ID					
								F. Transporter's Phone (253)383-3044					
								G. State Facility's ID					
								H. Facility's Phone (541) 454-2643					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.			
						No.	Type						
a.	HM	HAZARDOUS WASTE, SOLID, H.O.S. (D008) 9 NA3077 PGIII ERG6(171)				11	BA	15505	P	D008			
b.	RQ												
c.													
d.													
J. Additional Descriptions for Materials Listed Above a) C04833-00 - - LEAD CONTAMINATED SOIL - DIB01 (10)						K. Handling Codes for Wastes Listed Above a)							
15. Special Handling Instructions and Additional Information													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name					Signature					Month	Day	Year	
GENERATOR	17. Transporter 1 Acknowledgement of Receipt of Materials												
	Printed/Typed Name					Signature					Month	Day	Year
	18. Transporter 2 Acknowledgement of Receipt of Materials												
	Printed/Typed Name					Signature					Month	Day	Year
TRANSPORTER	19. Discrepancy Indication Space												
LITTY	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19												
	Printed/Typed Name					Signature					Month	Day	Year

Please print or type. Form designed for use on elite (12-pitch) typewriter.

Form Approved, OMB no. 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. AKR000003228		Manifest Document No. GAM06		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address US ARMY ENGINEERING DIST AK CEQA-CO-ER (COMPL.) PO BOX 35066						A. State Manifest Document Number					
4. Generator's Phone FT WAINSRIGHT AK 99703-0066 (907) 311-7063						B. State Office					
5. Transporter 1 Company Name Northland Services			6. US EPA ID Number WAD981773005			C. State Office					
7. Transporter 2 Company Name Resource Recovery			8. US EPA ID Number WAD061672812			E. State Office					
9. Designated Facility Name and Site Address Chem Waste Mgmt of Northwest 17629 Cedar Springs Lane Arlington OR 97812						G. State Facility ID					
						H. Facility's Phone (503) 444-2643					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Init (Vol)	Waste No	
a. HAZARDOUS WASTE, SOLID, N.G.S. (D008) 9 NA3077 PGTY (D008) ERGI (171)						11		BA	15505	P	D008
b.											
c.											
d.											
J. Additional Descriptions for Materials Listed Above a) CODE 3-00 - LEAD CONTAMINATED SOIL (DEC'S RCODS, RCODS, RCODS, RCODS, RCODS, RCODS - TSDI (10))						K. Handling Codes for Wastes Listed Above 1)					
15. Special Handling Instructions and Additional Information											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/typed Name: IN BEHALF OF US GOVT STEVEN L. CLURE						Signature: <i>Steven L. Clure</i>		Month Day Year 18 | 26 | 99			
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/typed Name: LARRY HOWARD NORTHLAND SERVICES		Signature: <i>Larry Howard</i>		Month Day Year 19 | 28 | 99	
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/typed Name: RON DROZ		Signature: <i>Ron Droz</i>		Month Day Year 11 | 18 | 99	
19. Discrepancy Indication Space											
20. Facility (Owner or Operator) Certification of receipt of hazardous materials covered by this manifest, except as noted in 19.						Printed/typed Name: <i>[Signature]</i>		Signature: <i>[Signature]</i>		Month Day Year 11 | 09 | 99	

Container 259232

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB no. 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No AKR000003228		Manifest Document No. GAM07		2 Page 1 of 1		Information in the shaded areas is not required by Federal law.				
3. Generator's Name and Mailing Address US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL) PO BOX 35066						A. State Manifest Document Number						
4. Generator's Phone FT WAINSRIGHT AK 99703-0066 (907)353-7063						B. State Generator's ID						
5. Transporter 1 Company Name Northland Services			6. US EPA ID Number WAD981773005			C. State Transporter's ID						
7. Transporter 2 Company Name Resource Recovery			8. US EPA ID Number WADO61672812			D. Transporter's Phone (206)763-3000						
9. Designated Facility Name and Site Address Chem Waste Mgmt of Northwest 17629 Cedar Springs Lane Arlington , OR 97812			10. US EPA ID Number ORD089452353			E. State Transporter's ID						
						F. Transporter's Phone (253)383-3044						
						G. State Facility's ID						
						H. Facility's Phone (541) 454-2643						
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.		
a. HAZARDOUS WASTE, SOLID, H.O.S. (D008) 9 NA3077 PGIII ENH(171)						No.	Type	16830	P	D008		
b.												
c.												
d.												
J. Additional Descriptions for Materials Listed Above a) C04833-00 - - LEAD CONTAMINATED SOIL - DIR01 (11)						K. Handling Codes for Wastes Listed Above a)						
15. Special Handling Instructions and Additional Information												
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.												
Printed/Typed Name					Signature					Month	Day	Year
17. Transporter 1 Acknowledgement of Receipt of Materials												
Printed/Typed Name					Signature					Month	Day	Year
18. Transporter 2 Acknowledgement of Receipt of Materials												
Printed/Typed Name					Signature					Month	Day	Year
19. Discrepancy Indication Space												
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19												
Printed/Typed Name					Signature					Month	Day	Year

343

347394

Please print or type (Form designed for use on olive (12-pitch) typewriter)

Form Approved, OMB no. 2050-0039, Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. AKR000003228		Manifest Document No. GMDJ		2. Page 1 of 1		Information in the shaded area is not required by Federal law		
3. Generator's Name and Mailing Address US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL) PO BOX 35066 FT WAINSRIGHT AK 99703-0066 (907)353-7063						A. State Manifest Document Number				
4. Generator's Phone						B. State Generator's ID				
5. Transporter 1 Company Name Northland Services			6. US EPA ID Number WAD981773005			C. State Transporter's ID		D. Transporter's P.O. (206) 763-3000		
7. Transporter 2 Company Name Resource Recovery			8. US EPA ID Number WAD061672812			E. State Transporter's ID		F. Transporter's P.O. (253) 383-3044		
9. Designated Facility Name and Site Address Chem Waste Mgmt of Northwest 17629 Cedar Springs Lane Arlington, OR 97812						10. US EPA ID Number ORD089452353		G. State Facility's ID		
						H. Facility's Phone (541) 654-2643				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit	Waste No.
a. HAZARDOUS WASTE, SOLID, H.O.S. (D008) & NAJ071 PELLETS (D008) ER 16(17)						No. Type		16830	P	0001
b.										
c.										
d.										
J. Additional Descriptions for Materials Listed Above COAL FINE GRAD CONTAMINATED SOIL (H.C.S. H.C.D.S., H.C.P.S., H.C.W., P.C.D.S., P.C.O.S., Y.C.D.S., Y.C.O.S., Y.C.P.S., Y.C.W., Y.C.O.I. (11)						K. Handling Codes		Wastes Listed Above		
15. Special Handling Instructions and Additional Information										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.										
Printed/Typed Name: IN BEHALF OF US GOVT STEVEN LECLORE						Signature: <i>Steven Leclore</i>		Month Day Year: 18/26/99		
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name: LARRY HOWARD Northland Services		Signature: <i>Larry Howard</i>		Month Day Year: 18/26/99
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name: CHRIS NEEDOLF		Signature: <i>Chris Needolf</i>		Month Day Year: 11/08/99
19. Discrepancy Indication Space										
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.										
Printed/Typed Name: KIRK MUCIAK						Signature: <i>Kirk Muciak</i>		Month Day Year: 11/10/99		

Container 299272

GENERATOR

TRANSPORTER

FACILITY

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB no. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No AKR000003228		Manifest Document No. GAM08		2 Page 1 of 1		Information in the shaded areas is not required by Federal law.							
		3. Generator's Name and Mailing Address US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL) PO BOX 35066						A. State Manifest Document Number							
4. Generator's Phone FT MAINSRIGHT AK 99703-0066 (907)353-7063						B. State Generator's ID									
5. Transporter 1 Company Name Northland Services		6. US EPA ID Number WAD981773005		C. State Transporter's ID		D. Transporter's Phone (206)763-3000									
7. Transporter 2 Company Name Resource Recovery		8. US EPA ID Number WAD061672812		E. State Transporter's ID		F. Transporter's Phone (253)383-3044									
9. Designated Facility Name and Site Address Chem Waste Mgmt of Northwest 17629 Cedar Springs Lane Arlington, OR 97812				10. US EPA ID Number ORD089452353		G. State Facility's ID		H. Facility's Phone (541) 454-2643							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.			
						No.		Type							
a. HAZARDOUS WASTE, SOLID, H.O.S. (D008) 9 HA3077 PCIII KEG(171)						10		BA		15434		P		D008	
b. HAZARDOUS WASTE, SOLID, H.O.S. (D008) 9 HA3077 PCIII KEG(171)						1		TB		1920		P		D008	
c.															
d.															
J. Additional Descriptions for Materials Listed Above a) C04833-00 - - LEAD CONTAMINATED SOIL - DIR01 (12) b) C04833-00 - - LEAD CONTAMINATED SOIL - DIR01 (13)						K. Handling Codes for Wastes Listed Above a) b)									
15. Special Handling Instructions and Additional Information															
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.															
Printed/Typed Name						Signature						Month Day Year			
17. Transporter 1 Acknowledgement of Receipt of Materials															
Printed/Typed Name						Signature						Month Day Year			
18. Transporter 2 Acknowledgement of Receipt of Materials															
Printed/Typed Name						Signature						Month Day Year			
19. Discrepancy Indication Space															
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19															
Printed/Typed Name						Signature						Month Day Year			

08/24 '99

343

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039. Expires 9-30-99

347318

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. AKR000003228

2. Page 1 of 1

3. Generator's Name and Mailing Address
US ARMY ENGINEERING DIST AK CEPQA-CO-FR (CANEFLL)
PO BOX 35066

4. Generator's Phone FT WAINSRIGHT AK 99703-0066 (907) 353-3063

5. Transporter 1 Company Name North and Services

6. US EPA ID Number WAD981773005

7. Transporter 2 Company Name Resource Recovery

8. US EPA ID Number WAD061672812

9. Designated Facility Name and Site Address
Chem Waste Mgmt of Northwest
17629 Cedar Springs Lane
Arlington, OR 97812

10. US EPA ID Number ORD081457353

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)

HM	No.	Type	13. Total Quantity	14. Unit W/Vol	15. Waste No.
a. RQ	10	BA	15434	P	D008
b. RQ	1	TB	1920	P	D008
c.					
d.					

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in full respect in proper condition for transport according to applicable international and national government regulations.

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name NORTHLAND SONS HOWARD
Signature Howard
Month Day Year 8 28 99

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name CHUCK NEUDORF
Signature Neudorf
Month Day Year 11 08 99

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name F. Bailey
Signature Bailey
Month Day Year 11 10 99

Generator 2053263

Transporter 2053263

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **AKR000003228** Manifest Date **08/19/99**

2. Page 1 of 1

3. Generator's Name and Mailing Address
**US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)
PO BOX 35066**

4. Generator's Phone (**FT WAINSRIGHT AK 99703-0066 (907)353-7063**)

5. Transporter 1 Company Name **Northland Services** 6. US EPA ID Number **WAD981773005**

A. Transporter's Phone **(206)763-3000**

7. Transporter 2 Company Name **Resource Recovery** 8. US EPA ID Number **WADO61672812**

B. Transporter's Phone **(253)383-3044**

9. Designated Facility Name and Site Address
**RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108**

10. US EPA ID Number
EXEMPT

C. Facility's Phone
(206) 623-4000

11. Waste Shipping Name and Description

12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol

a. **NON-ICRA WASTE SOLID (PETROLEUM CONTAMINATED SOIL)**

0 1 5 B A 1 5 7 9 6 P

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-ICRA WASTE SOLID (PETROLEUM CONTAMINATED SOIL)	0	1	5	B A
b.	.	.	.	.
c.	.	.	.	.
d.	.	.	.	.

D. Additional Descriptions for Materials Listed Above
a) 162939-00 - - PETROLEUM CONTAMINATED SOIL, RABANCO CERTIFICATION NO. 99-1121 - DIR01 (14)

E. Handling Codes for Wastes Listed Above
a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name Signature Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name Signature Month Day Year

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (907) 272-9007

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
AK R1000003228

Manifest Document No.

2. Page 1 of 1

3. Generator Name and Mailing Address
US ARMY ENGINEERING DIST AK CERVA-KO-ER (GAMMILL)
PO BOX 35066

4. Generator Phone (FT WAINSWRIGHT AK 99703-0066 (907) 353-7063

5. Transporter 1 Company Name
Northland Services

6. US EPA ID Number
WAD981773005

A. Transporter's Phone (206) 763-3000

7. Transporter 2 Company Name
Resource Recovery

8. US EPA ID Number
WA1061072812

B. Transporter's Phone (253) 323-3044

9. Designated Facility Name and Site Address
RAINFOREST RECYCLING
4 TH & LANEY
SEATTLE, WA 98108

10. US EPA ID Number
EXEMPT

C. Facility's Phone (206) 677-4000

11. Waste Shipping Name and Description

12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol

a. NON-HAZ WASTE SOLID (PETROLEUM CONTAMINATED SOIL)

0 1 5 B A 1 5 7 9 6 P

b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above:

E. Handling Codes for Wastes Listed Above

a) 162531-00 - PETROLEUM CONTAMINATED SOIL, HAZARDOUS CERTIFICATION NO. 99-1121 - 01201 (11)

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name *in behalf of US GOVT*
STEVEN LECHE

Signature *Steven Leche*

Month Day Year
8 26 99

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name *LARRY HOWARD*
Northland Services

Signature *Larry Howard*

Month Day Year
8 26 99

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Jim Simon

Signature *Jim Simon*

Month Day Year
11 17 99

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature *Yvette Winick*
COPY

Month Day Year
11 17 99

GENERATOR TRANSPORTER FACILITY

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **A K R 0 0 0 0 0 3 2 2 8** Manifest Document No. **G A H T O**

2. Page 1 of 1

3. Generator's Name and Mailing Address
**US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)
PO BOX 35066**

4. Generator's Phone (**FT WAINSRIGHT AK 99703-0066 (907)353-7063**

5. Transporter 1 Company Name
Northland Services

6. US EPA ID Number
W A D 9 8 1 7 7 3 0 0 5

A. Transporter's Phone
(206)763-3000

7. Transporter 2 Company Name
Resource Recovery

8. US EPA ID Number
W A D 0 6 1 6 7 2 8 1 2

B. Transporter's Phone
(253)383-3044

9. Designated Facility Name and Site Address
**RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108**

10. US EPA ID Number
E X E M P T

C. Facility's Phone
(206) 623-4000

11. Waste Shipping Name and Description

12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
--------------------	------	--------------------	-----------------

a. **NON-RCRA WASTE SOLID (PETROLEUM CONTAMINATED SOIL)**

0 1 1 B A 0 7 4 6 0 P

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

a) 162939-00 - - PETROLEUM CONTAMINATED SOIL, RABANCO CERTIFICATION NO. 99-1121 - D101 (15)

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. **GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.**

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

99A601 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **A.K.R.0.0.0.0.0.3.2.2.8** Manifest Document No. **S.A.H.1.0**

2. Page 1 of 1

3. Generator's Name and Mailing Address
**US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)
PO BOX 35066**

4. Generator's Phone (**Ft WAINSRIGHT AK 99703-0056**) **(907) 353-1063**

5. Transporter Company Name **Northland Services** 6. US EPA ID Number **W.A.D.9.8.3.7.7.3.0.0.5**

A. Transporter's Phone **(206) 763-3000**

7. Transporter Company Name **Resource Recovery** 8. US EPA ID Number **W.A.D.0.6.1.6.7.2.8.1.2**

B. Transporter's Phone **(253) 383-3044**

9. Designated Facility Name and Site Address
**RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108** 10. US EPA ID Number **E.X.E.M.P.T.**

C. Facility's Phone **(206) 621-4000**

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. NON-ICRA WASTE SOLID (PETROLEUM CONTAMINATED SOIL)	011	B	97460	P
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
a) **16293 -00 - PETROLEUM CONTAMINATED SOIL, RABANCO CERTIFICATION NO 99-1121 - BIR01 (1)**

E. Handling Codes for Wastes Listed Above
a) **2992352**

15. Special Handling Instructions and Additional Information
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name **IN BEHALF OF US GOV** Signature *[Signature]* Month **8** Day **26** Year **99**
STEVEN BECKER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name **LAMIS HOWARD** Signature *[Signature]* Month **8** Day **26** Year **99**
Northland Services

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name **Darrin Stecha** Signature *[Signature]* Month **11** Day **09** Year **99**

19. Discrepancy Indicated - Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.
Printed/Typed Name *[Signature]* Month **8** Day **26** Year **99**

TRANSPORTER'S

GENERATOR TRANSPORTER FACILITY

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

A. Recipient's US EPA ID No. **3 2 2 8** Manifest No. **1**

2. Page 1 of 1

3. Generator's Name **US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)**
PO BOX 35066

4. Generator's Phone **(FT WAINSRIGHT AK 99703-0066 (907)353-7063)**

5. Transporter 1 Company Name **Northland Services**

6. US EPA ID Number **WA D 9 8 1 7 7 3 0 0 5**

A. Transporter's Phone **(206)763-3000**

7. Transporter 2 Company Name **Resource Recovery**

8. US EPA ID Number **WA D 0 6 1 6 7 2 8 1 2**

B. Transporter's Phone **(253)383-3044**

9. Designated Facility Name and Site Address
RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108

10. US EPA ID Number
E X E M P T

C. Facility's Phone
(206) 623-4000

11. Waste Shipping Name and Description

12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol

a. **NON-RCRA WASTE SOLID (PETROLEUM CONTAMINATED SOIL)**

0 0 9 B A 1 4 7 4 1 P

D. Additional Descriptions for Materials Listed Above

a) **162939-00 - - PETROLEUM CONTAMINATED SOIL, RABANCO CERTIFICATION NO. 99-1121 - DIR01 (16)**

E. Handling Codes for Wastes Listed Above

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name Signature Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name Signature Month Day Year

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (907) 272-9007

99A607, 08/23/99

NON-HAZARDOUS WASTE MANIFEST

A. Reference USEPA ID No. 3 2 2 8 G. Manifest Document No. 1

2. Priority of

3. Generator's Name: **WALNSRIGHT DIST AK CEPOA-CO-ER (GAMFEL)**
 PU BOX 35066

4. Generator's Phone: **FT WALNSRIGHT AK 99703-0066 (907) 353-7063**

5. Transporter 1 Company Name: **Northland Services**

6. US EPA ID Number: **WAD 981773005**

A. Transporter's Phone: **(206) 763-3000**

7. Transporter 2 Company Name: **Resource Recovery**

8. US EPA ID Number: **WAD 061672812**

B. Transporter's Phone: **(253) 383-3044**

9. Designated Facility Name and Site Address: **RABANCO RECYCLING
 4 TH & LANFERS
 SEATTLE, WA 98108**

10. US EPA ID Number: **EXEMPT**

C. Facility's Phone: **(206) 62-4000**

11. Waste Shipping Name and Description

12. Container No. Type

13. Total Quantity

14. Unit Wt/Vol

a. **NON-PCRA WASTE SOLID (PETROLEUM CONTAMINATED SOIL)**

009 B-A 14741 P

D. Additional Description for Materials Listed Above

a) **162935-00 - PETROLEUM CONTAMINATED SOIL, RABANCO CERTIFICATION NO. 99-1121 - DIFOL (16)**

E. Handling Codes for Wastes Listed Above

e)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: **IN BEHALF OF US GOVT
 STEVEN HOCLERC**

Signature: *Steven Hoclerc*

Month Day Year: **8 26 99**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: **NORTHLAND SERVICE
 LARRY HOWARD**

Signature: *Larry Howard*

Month Day Year: **9 2 99**

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: **Tim Simon**

Signature: *Tim Simon*

Month Day Year: **11 11 99**

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature: *William Weyrich*

Month Day Year: **11 14 99**

TRANSPORTER

GENERATOR

TRANSPORTER

FACILITY

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **A.K.R.O.O.O.O.O.3.2.2.8** Manifest Document No. **G.A.M.1.2**

2. Page 1 of 1

3. Generator's Name and Mailing Address
US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)
PO BOX 35066

4. Generator's Phone (**FT WAINSRIGHT AK 99703-0066 (907)353-7063**

5. Transporter 1 Company Name **Northland Services** 6. US EPA ID Number **W.A.D.9.8.1.7.7.3.0.0.5**

A. Transporter's Phone **(206)763-3000**

7. Transporter 2 Company Name **Resource Recovery** 8. US EPA ID Number **W.A.D.O.6.1.6.7.2.8.1.2**

B. Transporter's Phone **(253)383-3044**

9. Designated Facility Name and Site Address
RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108 10. US EPA ID Number **E.X.E.M.P.T.**

C. Facility's Phone **(206) 623-4000**

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. NON-RCRA WASTE SOLID (EMPTY DRUMS)	001	CM	9865	P
b.				
c.				
d.				

1. Additional Descriptions for Materials Listed Above
a) 162940-00 - - RCRA EMPTY DRUMS, RABANCO CERTIFICATION NO. 99-1120 - DI01 (17)

E. Handling Codes for Wastes Listed Above
a)

15. Special Handling Instructions and Additional Information
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

17. Transporter 1 Acknowledgement of Receipt of Materials	Printed/Typed Name	Signature	Month	Day	Year
			.	.	.

18. Transporter 2 Acknowledgement of Receipt of Materials	Printed/Typed Name	Signature	Month	Day	Year
			.	.	.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (907) 272-9007

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
AKR000003228

Manifest Document No. 2

2. Page 1 of 1

3. Generator's Name and Mailing Address
US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)
PO BOX 35066
Generator's Phone (FT WAINSRIGHT AK 99703-0066 (907)353-7063

5. Transporter 1 Company Name
Northland Services

6. US EPA ID Number
WAD981773005

A. Transporter's Phone (206)763-3000

7. Transporter 2 Company Name
Resource Recovery

8. US EPA ID Number
WADO61672812

B. Transporter's Phone (253)383-3044

9. Designated Facility Name and Site Address
RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108

10. US EPA ID Number
EXEMPT

C. Facility's Phone (206) 623-4000

11. Waste Shipping Name and Description

a. NON-ICRA WASTE SOLID (EMPTY DRUMS)

12. Container No.	Type	13. Total Quantity	14. Unit Wt/Vol
-------------------	------	--------------------	-----------------

001CM09865P

D. Additional Descriptions for Materials Listed Above

a) 162941-00 - RCWA EMPTY DRUMS, RABANCO CERTIFICATION NO. 99-1170 - DIB01 (17)

E. Handling Codes for Wastes Listed Above

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name ON BEHALF OF US GOVT
STEVEN L. CLARK

Signature *Steven L. Clark*

Month Day Year
8 26 99

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name HARRY HOWARD
NORTHLAND SERVICES

Signature *Harry Howard*

Month Day Year
8 26 99

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name LAWRENCE V. DROZ

Signature *Lawrence V. Droz*

Month Day Year
11 16 99

19. Discrepancy (if any) on space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature *Walter W. Wrench*

Month Day Year
11 16 99

TRANSPORTER

GENERATOR

TRANSPORTER

FACILITY

99A607 08/23/99

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

A.K.R.O.O.O.O.O.3.2.2.8

Manifest Document No.

G.A.H.1.3

2. Page 1
of 1

3. Generator's Name and Mailing Address
**US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)
PO BOX 35066**

4. Generator's Phone (**FT WALNSRIGHT AK 99703-0066 (907)353-7063**

5. Transporter 1 Company Name
Northland Services

6. US EPA ID Number
W.A.D.9.8.1.7.7.3.0.0.5

A. Transporter's Phone
(206)763-3000

7. Transporter 2 Company Name
Resource Recovery

8. US EPA ID Number
W.A.D.O.6.1.6.7.2.8.1.2

B. Transporter's Phone
(253)383-3044

9. Designated Facility Name and Site Address
**RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108**

10. US EPA ID Number
E.X.E.M.P.T.

C. Facility's Phone
(206) 623-4000

11. Waste Shipping Name and Description

a. **NON-RCRA WASTE SOLID (EMPTY DRUMS)**

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

0 0 1 C M 0 9 0 4 7 P

D. Additional Descriptions for Materials Listed Above

a) 162940-00 - - RCRA EMPTY DRUMS, RABANCO CERTIFICATION NO. 99-1120 - DIR01 (18)

E. Handling Codes for Wastes Listed Above

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (907) 272-9007

99A607 08/23/99

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.
A.K.R.O.O.O.O.O.3.2.2.3

Manifest Document No.
G.A.H.1.3

2. Page 1
of 1

3. Generator's Name and Mailing Address
US ARMY ENGINEERING DIST AK CEPOA-CO-ER (GAMBILL)
PO BOX 35066

4. Generator's Phone (FT WAINSWRIGHT AK 99703-0066 (907)353-7063

5. Transporter 1 Company Name
Northland Services

6. US EPA ID Number
W.A.D.9.8.1.7.7.3.0.0.5

A. Transporter's Phone (206)763-3000

7. Transporter 2 Company Name
Resource Recovery

8. US EPA ID Number
W.A.D.O.6.1.6.7.2.8.1.2

B. Transporter's Phone (253)383-3044

9. Designated Facility Name and Site Address
RAHAWCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108

10. US EPA ID Number
E.X.E.M.P.T.

C. Facility's Phone
(206) 625-4000

11. Waste Shipping Name and Description

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

a. NON-RCRA WASTE SOLID (EMPTY DRUMS)

0 0 1 C 44 0 9 0 4 7 0

b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

a) 162940-GO - - RCRA EMPTY DRUMS, RAHAWCO CERTIFICATION NO. 99-1120 - 2101 (18)

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: ON BEHALF OF US GOVT
STEVEN LECLERC

Signature: *Steven Leclerc*

Month Day Year
8 26 99

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: LARRY HOWARD
NORTHLAND SERVICES

Signature: *Larry Howard*

Month Day Year
8 26 99

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: TIM SIMON

Signature: *Tim Simon*

Month Day Year
11 10 99

19. Discrepancy Indication

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name:

Signature: *Little*

Month Day Year
11 11 99

TRANSPORTER #:

GENERATOR

TRANSPORTER

FACILITY

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **AKR000003228** Manifest Document No. **GA1111111111**

2. Page 1 of 1

3. Generator's Name and Mailing Address
US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)
PO BOX 35066

4. Generator's Phone (**FT WAINSRIGHT AK 99703-0066 (907)353-7063**)

5. Transporter 1 Company Name
Northland Services

6. US EPA ID Number
WAD981773005

A. Transporter's Phone (**(206)763-3000**)

7. Transporter 2 Company Name
Resource Recovery

8. US EPA ID Number
WADO61672812

B. Transporter's Phone (**(253)383-3044**)

9. Designated Facility Name and Site Address
RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108

10. US EPA ID Number
E X E M P T

C. Facility's Phone
(206) 623-4000

11. Waste Shipping Name and Description

12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol

a. **NON-RCRA WASTE SOLID (EMPTY DRUMS)**

0 0 1 C M 1 2 0 4 8 P

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

a) **162940-00 - - RCRA EMPTY DRUMS, RABANCO CERTIFICATION NO. 99-1120 - D1R01 (19)**

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name Signature Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name Signature Month Day Year

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

BY

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **R R U D U O U 3 2 2 8**

Manifest No. **NA**

2. Page 1 of 1

3. Generator's Name and Site Address
US ARMY ENGINEERING DIST AK CEPOA-CO-PR (GAMBELL)
PO BOX 35066
FT WAINSWRIGHT AK 99703-0066 (907)353-7063

5. Transporter 1 Company Name
Northland Services

6. US EPA ID Number
W A D 9 8 1 7 7 3 0 0 5

A. Transporter's Phone
(206)763-3000

7. Transporter 2 Company Name
Resource Recovery

8. US EPA ID Number
W A D O 6 1 6 7 2 8 1 2

B. Transporter's Phone
(253)383-3044

9. Designated Facility Name and Site Address
RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108

10. US EPA ID Number
E X E M P T

C. Facility's Phone
(206) 623-4000

11. Waste Shipping Name and Description

12. Container No.	Type	13. Total Quantity	14. Unit Wt/Vol
-------------------	------	--------------------	-----------------

a. **NON-HCRA WASTE SOLID (EMPTY DRUMS)**

0-0-1	C-M	1-2-0-4-8	P
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D. Additional Descriptions for Materials Listed Above
 a) **162940-00 - RCRA EMPTY DRUMS, RABANCO CERTIFICATION NO. 89-1123 - D101 (19)**

E. Handling Codes for Wastes Listed Above
202211

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulation for reporting proper disposal of Hazardous Waste.

Printed/Typed Name **DUBENAK OF USSOUF**
STEVEN LECLER

Signature *[Signature]*

Month Day Year
8 26 99

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **DARRY HOWARD**
NORTH AND SERVICES

Signature *[Signature]*

Month Day Year
8 26 99

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name **Darryl Stamba**

Signature *[Signature]*

Month Day Year
11 09 99

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name

Signature *[Signature]*

Month Day Year
11 9 99

TRANSPORTER #2

GENERATOR

TRANSPORTER

FACILITY

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator/US EPA ID No. **AKR0000003228**

Manifest Document No. **GA015**

2. Page 1 of 1

3. Generator's Name and Address
US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)
PO BOX 35066
FT WAINSRIGHT AK 99703-0066 (907)353-7063

4. Generator's Phone ()

5. ~~Northland Services~~

US EPA ID Number **WAD981773005**

A. Transporter's Phone **(206)763-3000**

7. ~~Resource Recovery~~

US EPA ID Number **WADO81672812**

B. Transporter's Phone **(253)383-3044**

9. ~~RABANCO RECYCLING~~ Facility Name and Site Address
4 TH & LANDERS
SEATTLE, WA 98108

10. US EPA ID Number
E X E M P T

C. Facility's Phone
(206) 623-4000

11. Waste Shipping Name and Description

12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
--------------------	------	--------------------	-----------------

a. **NON-RCRA WASTE SOLID (EMPTY DRUMS)**

0.01	CM	0.9544	P
-------------	-----------	---------------	----------

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

a) **162940-00 - - RCRA EMPTY DRUMS, RABANCO CERTIFICATION NO. 99-1120 - DIR01 (20)**

E. Handling Codes for Wastes Listed Above

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. **GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.**

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (907) 272-9007

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

A Generator's US EPA ID No. 3228
 Manifest Document No. 5

2. Page 1 of

3. Generator's Name and Mailing Address
 US AIR FORCE DIST AK CEPOA-CO-FR (CAMPBELL)
 P.O. BOX 35066

FT WAINSWRIGHT AK 99703-0066 (907) 353-7063

4. Generator's Phone

5. Transporter's Company Name
 WAD Services

WAD US EPA ID Number 3005

A. Transporter's Phone (206) 763-3000

7. Transporter's Company Name
 Resource Recovery

WAD US EPA ID Number 2812

B. Transporter's Phone (253) 383-3044

9. Designated Facility Name and Site Address
 RABANCO RECYCLING
 4 TH & LANDERS
 SEATTLE, WA 98108

10. US EPA ID Number
 EXEMPT

C. Facility's Phone
 (206) 623-4000

11. Waste Shipping Name and Description

a. NON-PCRA WASTE SOLID (EMPTY DRUMS)

12. Containers No. Type
 0.0.1 C.M

13. Total Quantity
 0.9.5.4.4

14. Unit Wt/Vol
 P

D. Additional Descriptions for Materials Listed Above

a) 16294(-00) - PCRA EMPTY DRUMS, RABANCO CERTIFICATION NO. 99-1-00 - DINGI (26)

E. Handling Codes for Wastes Listed Above

2)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulation for reporting purposes disposal of Hazardous Waste.

Printed/Typed Name OF BEHALF OF US GOVT
 STEVEN L. CLEVER

Signature
 Steven L. Clever

Month Day Year
 8 26 99

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name MARY HOWARD
 Northland Services

Signature
 Mary Howard

Month Day Year
 8 26 99

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
 Lisa Simon

Signature
 Lisa Simon

Month Day Year
 11 11 99

19. Discrepancy Indication: Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name

Signature
 [Signature]

Month Day Year
 11 11 99

GENERATOR

TRANSPORTER

FACILITY

TRANSPORTER

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

A.K.R.O.O.O.O.O.3.2.2.8

Manifest Document No. G.A.H.1.6

2. Page 1 of 1

3. Generator's Name and Mailing Address

US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)
PO BOX 35066

4. Generator's Phone (FT WAINSRIGHT AK 99703-0066 (907)353-7063

5. Transporter 1 Company Name
Northland Services

6. US EPA ID Number
W.A.D.9.8.1.7.7.3.0.0.5

A. Transporter's Phone (206)763-3000

7. Transporter 2 Company Name
Resource Recovery

8. US EPA ID Number
W.A.D.O.6.1.6.7.2.8.1.2

B. Transporter's Phone (253)383-3044

9. Designated Facility Name and Site Address
RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108

10. US EPA ID Number
E.X.E.M.P.T.

C. Facility's Phone (206) 623-4000

11. Waste Shipping Name and Description

a. MATERIAL NOT REGULATED BY DOT (SCRAP METAL)

12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
001	CM	12800	P
.	.	.	.
.	.	.	.
.	.	.	.

D. Additional Descriptions for Materials Listed Above

a) 162942-00 - - SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 - DIR01 (23)

E. Handling Codes for Wastes Listed Above

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

TYPE

NON-HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No

Manifest Document No
CAM 16

2 Page 1 of 1

99AG07 08/28/99

3. Generator Name and Mailing Address

US ARMY ENGINEERING CENTER AK GEORGIA-COOPER (GENERAL)
PO BOX 35066

4. Generator Phone (214) 242-1100 FAX (970) 353-7000

5. Transporter 1 Company Name
PHILIP HILL SERVICES

6. US EPA ID Number
PA 6 D 9 8 3 7 7 3 C C 5

A. Transporter's Phone
(214) 353-7000

7. Transporter 2 Company Name
WESBROS SERVICES

8. US EPA ID Number
PA 6 D 0 0 1 1 6 7 2 5 1 2

B. Transporter's Phone
(214) 353-7000

9. Designated Facility Name and Site Address

US ARMY ENGINEERING CENTER
3701 W. WAREHOUS
DUNWOODY, GA 30128

10. US EPA ID Number
PA 6 D 0 0 1 1 6 7 2 5 1 2

C. Facility's Phone
(404) 513-4400

11. Waste Shipping Name and Description

a. METALS AND ALLOYS IN WASTE CONTAINERS

12. Containers No Type

13. Total Quantity

14. Unit Wt, Vol

b.
c.
d.

D. Additional Descriptions for Materials Listed Above

a. MATERIALS - STEEL METALS, SUBJECTS CERTIFICATION NO. 99-011 - 0180 - 121

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I declare under penalty of perjury that the contents of this manifest are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in the proper condition for transport by air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulation for reporting proper disposal of hazardous waste.

Printed/Typed Name: ON BEHALF OF US ARMY

Signature: *Steve Keller*

Month Day Year: 8 22 99

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: PHILIP HILL SERVICES

Signature: *Philip Hill*

Month Day Year: 5 20 99

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: WESBROS SERVICES

Signature: *Wes Bros*

Month Day Year: 11 18 99

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature: *[Signature]*

Month Day Year: 11 18 99

TRANSPORTER #2

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. AKR000003228	Manifest Document No. GAMT7	2. Page 1 of 1
3. Generator's Name and Mailing Address US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL) PO BOX 35066				
4. Generator's Phone (FT WAINSRIGHT AK 99703-0066 (907)353-7063				
5. Transporter 1 Company Name Northland Services		6. US EPA ID Number WAD981773005		A. Transporter's Phone (206)763-3000
7. Transporter 2 Company Name Resource Recovery		8. US EPA ID Number WADO61672812		B. Transporter's Phone (253)383-3044
9. Designated Facility Name and Site Address RABANCO RECYCLING 4 TH & LANDERS SEATTLE, WA 98108		10. US EPA ID Number E X E M P T		C. Facility's Phone (206) 623-4000
11. Waste Shipping Name and Description			12. Containers	13. Total Quantity
a. MATERIAL NOT REGULATED BY DOT (SCRAP METAL)			No.	14. Unit Wt/Vol
			Type	
D. Additional Descriptions for Materials Listed Above			E. Handling Codes for Wastes Listed Above	
a) 162942-00 - - SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 - DIR01 (24)			a)	
15. Special Handling Instructions and Additional Information				
<p>GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.</p>				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name		Signature		Month Day Year
				. . .
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
				. . .
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
				. . .
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name		Signature		Month Day Year
				. . .

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **A.K.R.O.O.O.O.O.3.2.2.8** Manifest Document No. **G.A.M.1.7**

2. Page 1 of 1

3. Generator's Name and Mailing Address
**US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GATELL)
PO BOX 35066**

4. Generator's Phone (**FT WAINSRIGHT AK 99703-0066 (907)353-7063**

5. Transporter Company Name **Northland Services** 6. US EPA ID Number **W.A.D.9.8.1.7.7.3.0.0.5**

A. Transporter's Phone **(206)763-3000**

7. Transporter Company Name **Resource Recovery** 8. US EPA ID Number **W.A.D.O.6.1.6.7.2.8.1.2**

B. Transporter's Phone **(253)383-3044**

9. Designated Facility Name and Site Address
**RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108** 10. US EPA ID Number **E.X.E.M.P.T.**

C. Facility's Phone **(206) 623-4000**

11. Waste Shipping Name and Description

12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol

a. **MATERIAL NOT REGULATED BY DOT (SCRAP METAL)**

0 0 1 C M 1 5 8 0 0 P

b.

c.

d.

D. Additional Descriptions for Materials Listed Above
a) **162942-00 - SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 - DIBO (24)**

E. Handling Codes for Wastes Listed Above
a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this assignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations. **IN BEHALF OF US GOVT**

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulation for reporting proper disposal of Hazardous Waste.

Printed/Typed Name **LARRY HOWARD**
Northland Services

Signature **Larry Howard**

Month Day Year **8 26 99**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name **LARRY HOWARD**
Northland Services

Signature **Larry Howard**

Month Day Year **8 26 99**

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name **LENN EWING U DROE**

Signature **Lenn Ewing U Droe**

Month Day Year **11 16 99**

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature **Michelle W...**

Month Day Year **11 16 99**

GENERATOR

TRANSPORTER

FACILITY

TRANSPORTER

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **AKR000003228** Manifest Quantity **3**

2. Page 1 of 1

3. Generator's Name and Mailing Address
**US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)
PO BOX 35066**

4. Generator's Phone (**FT WAINSRIGHT AK 99703-0066 (907)353-7063**)

5. Transporter 1 Company Name
Northland Services

6. US EPA ID Number
WAD981773005

A. Transporter's Phone
(206)763-3000

7. Transporter 2 Company Name
Resource Recovery

8. US EPA ID Number
WADO61672812

B. Transporter's Phone
(253)383-3044

9. Facility Name and Site Address
**RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108**

10. US EPA ID Number
E X E M P T

C. Facility's Phone
(206) 623-4000

11. Waste Shipping Name and Description

a. **MATERIAL NOT REGULATED BY DOT (SCRAP METAL)**

12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
--------------------	------	--------------------	-----------------

001	CM	06498	P
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D. Additional Descriptions for Materials Listed Above

a) 162942-00 - - SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 - DIR01 (25)

E. Handling Codes for Wastes Listed Above

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **AKR000003228** Manifest Number **99A607**

2. Page 1 of 1

3. Generator's Name and Mailing Address
US Army Engineering Dist AK CEPQA-CO-FR (GAMBELL)
PO BOX 35066
FT WAINSWRIGHT AK 99703-0066 (907)353-7063

4. Generator's Phone
Northland Services

6. US EPA ID Number
WAD981773005

A. Transporter's Phone
(206)763-3000

7. Transporter's Company Name
Resource Recovery

8. US EPA ID Number
WADO61672812

B. Transporter's Phone
(253)383-3044

9. Receiving Facility Name and Site Address
RAHANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108

10. US EPA ID Number
EXEMPT

C. Facility's Phone
(206) 623-4000

11. Waste Shipping Name and Description

12. Containers
 No. Type

13. Total Quantity

14. Unit Wt/Vol

a. **MATERIAL NOT REGULATED BY DOT (SCRAP METAL)**

0 0 1 C M 0 6 4 9 8 P

D. Additional Descriptions for Materials Listed Above

a) **162942 00 - - SCRAP METAL, RAHANCO CERTIFICATION NO. 99-1119 - RIFU1 (25)**

E. Handling Codes for Wastes Listed Above

8)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name **ON BEHALF OF US GOVT**

Signature

Month Day Year

STEVEN LECLERC

Steven Leclerc

8 26 99

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name **LARRY HOWARD**

Signature

Month Day Year

Northland Services

Larry Howard

8 26 99

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

LEWRENCE V. DROZ

Lewrence V. Droz

11 16 99

19. Discrepancy Indication - Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

Walter Warrick

11 16 99

TRANSPORTER *

GENERATOR

TRANSPORTER

FACILITY

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

AKR000003228

Manifest Document No. G.A.H.T.9

2. Page 1 of 1

3. Generator's Name and Mailing Address
US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)
PO BOX 35066

4. Generator's Phone (**FT WAINSRIGHT AK 99703-0066 (907)353-7063**

5. Transporter 1 Company Name
Northland Services

6. US EPA ID Number
WAD981773005

A. Transporter's Phone
(206)763-3000

7. Transporter 2 Company Name
Resource Recovery

8. US EPA ID Number
WAD061672812

B. Transporter's Phone
(253)383-3044

9. Designated Facility Name and Site Address
RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108

10. US EPA ID Number
E X E M P T

C. Facility's Phone
(206) 623-4000

11. Waste Shipping Name and Description

a. **MATERIAL NOT REGULATED BY DOT (SCRAP METAL)**

12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
001	CM	09531	P
.	.	.	.
.	.	.	.
.	.	.	.

D. Additional Descriptions for Materials Listed Above

a) 162942-00 - - **SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 - DIRO1 (26)**

E. Handling Codes for Wastes Listed Above

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FAC.

Y

FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (907) 272-9007

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

A.K.R.O.O.O.O.O.3.2.2.8

Manifest Document No. 9

2. Page 1 of 1

3. Generator's Name and Mailing Address
 US ARMY ENGINEERING DIST' AK CEPOA-CO-FR (GAB BELL)
 PO BOX 35066

4. Generator's Phone (FT WAINSRIGHT AK 99703-0066 (907) 353-7063

5. Transporter Company Name
 Northland Services

6. US EPA ID Number
 W.A.D.9.8.1.7.7.3.0.0.5

A. Transporter's Phone
 (206) 763-3000

7. Transporter Company Name
 Resource Recovery

8. US EPA ID Number
 W.A.D.0.6.1.6.7.2.8.1.2

B. Transporter's Phone
 (253) 383-3044

9. Designated Facility Name and Site Address
 RABANCO RECYCLING
 4 TH & LANDERS
 SEATTLE, WA 98108

10. US EPA ID Number

E.X.E.M.P.T.

C. Facility's Phone
 (206) 623-4000

11. Waste Shipping Name and Description
 a. MATERIAL NOT REGULATED BY DOT (SCRAP METAL)

12. Containers No. Type
 13. Total Quantity
 14. Unit Wt/Vol

0 0 1 C M 0 9 4 3 1 1

D. Additional Descriptions for Materials Listed Above

a) 162942-00 - SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 - P1801 (26)

E. Handling Codes for Wastes Listed Above

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this shipment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

2

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name IN BEHALF OF US GOVT
 STEVEN L. CLERC

Signature
 Steven L. Clerc

Month Day Year
 8 26 99

17. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name LARRY HOWARD
 Northland Services

Signature
 Larry Howard

Month Day Year
 8 26 99

18. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name Jim Simon
 Danny Stebbins

Signature
 Jim Simon

Month Day Year
 11 10 99

19. Discrepancy Indication (space)

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature

Month Day Year
 11 12 99

TRANSPORTER #2

GENERATOR

TRANSPORTER

FACILITY

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No. 3 2 2 8
 Manifest No. 0

2. Page 1 of

3. Generator's Name: **US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)**
 PO BOX 35066
 FT WAINSRIGHT AK 99703-0066 (907)353-7063

4. Generator's Phone ()

5. **Northland Services**

WAD 981773005
 US EPA ID Number

A. Transporter's Phone (206)763-3000

7. **Resource Recovery**

WAD 081872812
 US EPA ID Number

B. Transporter's Phone (253)383-3044

9. **RABANCO RECYCLING**
 4 TH & LANDERS
 SEATTLE, WA 98108

10. US EPA ID Number
E X E M P T

C. Facility's Phone
 (206) 623-4000

11. Waste Shipping Name and Description

12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
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a. **MATERIAL NOT REGULATED BY DOT (SCRAP METAL)**

001	CM	12460	P
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D. Additional Descriptions for Materials Listed Above
 a) 162942-00 - - SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 - DIR01 (27)

E. Handling Codes for Wastes Listed Above
 a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

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99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

A. EPA ID Number: 3228 Modified 0 Document No.

2. Page 1 of

3. Generator's Name and Address: **US ARMY ENGINEERING DIST AK CEPQA-CO-FR (GAMBETT)**
 PO BOX 35066
 FT WAINSRIGHT AK 99703-0066 (907) 353-1063

4. Generator's Phone ()

5. Manifest Number: **WADUSEPAIDN768005**

6. EPA ID Number: **3228**

A. Transporter's Phone: **(206) 763-3000**

7. Receipt Number: **WADUSEPAIDN76812**

8. EPA ID Number: **3228**

B. Transporter's Phone: **(253) 383-3044**

9. RAFAICO RECYCLING Site Address:
**4 TH & LANDERS
 SEATTLE, WA 98108**

10. US EPA ID Number:
EXEMPT

C. Facility's Phone:
(206) 623-4000

11. Waste Shipping Name and Description

12. Containers
 No. Type

13. Total Quantity

14. Unit Wt/Vol

a. **MANIFAL NOT REGULATED BY DOT (SCRAP METAL)**

0 0 1 C M 1 2 4 6 0 P

D. Additional Descriptions for Materials Listed Above

a) **162942-00 - SCRAP METAL, RAFAICO CERTIFICATION NO. 99-1119 - G101 (17)**

E. Handling Codes for Vessels Listed Above

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: **IN BEHALF OF US GOVT
 STEVEN LECLERC**

Signature: *Steven Leclerc*

Month Day Year: **8 26 99**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: **LARRY HOWARD
 NORTHLAND SERVICE**

Signature: *Larry Howard*

Month Day Year: **8 26 99**

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: **Tim Simon**

Signature: *Tim Simon*

Month Day Year: **11 13 99**

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of waste material covered by this manifest except as noted in item 19.

Printed/Typed Name:

Signature: *Michelle Williams*

Month Day Year: **11 13 99**

GENERATOR

TRANSPORTER

FACILITY

TRANSPORTER #2

99A607 08/23/99

GENERATOR
TRANSPORTER
FACTORY

NON-HAZARDOUS WASTE MANIFEST		A. Generator's US EPA ID No. 3 2 2 8	G. Manifest Document No. 1	2. Page 1 of 1	
3. Generator's Name and Mailing Address US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL) PO BOX 35066					
4. Generator's Phone (FT WAINSRIGHT AK 99703-0066 (907)353-7063)					
5. Transporter 1 Company Name Northland Services		6. US EPA ID Number WAD981773005		A. Transporter's Phone (206)763-3000	
7. Transporter 2 Company Name Resource Recovery		8. US EPA ID Number WADO61672812		B. Transporter's Phone (253)383-3044	
9. Designated Facility Name and Site Address RABANCO RECYCLING 4 TH & LANDERS SEATTLE, WA 98108		10. US EPA ID Number EXEMPT		C. Facility's Phone (206) 623-4000	
11. Waste Shipping Name and Description			12. Containers	13. Total	14. Unit
			No.	Quantity	Wt/Vol
a. MATERIAL NOT REGULATED BY DOT (SCRAP METAL)			0-0-1	C-M	0-8-7-7-8
b.					
c.					
d.					
D. Additional Descriptions for Materials Listed Above			E. Handling Codes for Wastes Listed Above		
a) 162942-00 - - SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 - DIR01 (28)			a)		
15. Special Handling Instructions and Additional Information					
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.					
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name		Signature		Month	Day
				.	.
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month	Day
				.	.
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month	Day
				.	.
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name		Signature		Month	Day
				.	.

ORIGINAL - RETURN TO GENERATOR

FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (907) 272-9007

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

A. Generator USEPA ID No. 3228 G Modified 1 Document No.

2. Page 1 of

3. Generator Name: **NAVY ENGINEERING DIST AK CEPOA-CO-ER (GAMBELL)**
 PO BOX 35066

FT WALNSRICH AK 99703-0066 (907) 553-7063

4. Generator's Phone ()

5. Transporter Name: **WADUSEPA**

WADUSEPA ID Number 005

A. Transporter's Phone (206) 763-3000

7. Receiver Name: **WADUSEPA**

WADUSEPA ID Number 812

B. Transporter's Phone (253) 383-3044

9. Receiver Facility Name: **RAVANK FORTYFOUR ENG**

4 TH & LANDERS SEATTLE, WA 98108

10. US EPA ID Number

EXEMPT

C. Facility's Phone

(206) 623-4000

11. Waste Shipping Name and Description

a. MATERIAL NOT REGULATED BY DOP (SCRAP METAL)

12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Val
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0.0.1	C.M.	0.8.7.7.8	P
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D. Additional Descriptions for Materials Listed Above

a) 16294 -00 - - SCRAP METAL, RAVANKO CERTIFICATION NO. 59-1119 - DIJON (28)

E. Handling Codes for Wastes Listed Above

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulation for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: **IN BEHALF OF US GOVT STEVEN LEWERK**

Signature: *Steven LeClerc*

Month Day Year: 8 | 26 | 99

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: **FRIDY HOWARD Northland Service**

Signature: *Friddy Howard*

Month Day Year: 8 | 26 | 99

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: **Tim Simon**

Signature: *Tim Simon*

Month Day Year: 11 | 12 | 99

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature: *[Signature]*

Month Day Year: 11 | 12 | 99

TRANSPORTER #

GENERATOR

TRANSPORTER

FACILITY

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

A.K.R.O.O.O.O.O.3.2.2.8

Manifest Document No. G.A.M.2.2

2. Page 1 of 1

3. Generator's Name and Mailing Address

US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)
PO BOX 35066

4. Generator's Phone (FT WAINSRIGHT AK 99703-0066 (907)353-7063

5. Transporter 1 Company Name
Northland Services

6. US EPA ID Number

W.A.D.9.8.1.7.7.3.0.0.5

A. Transporter's Phone

(206)763-3000

7. Transporter 2 Company Name
Resource Recovery

8. US EPA ID Number

W.A.D.O.6.1.6.7.2.8.1.2

B. Transporter's Phone

(253)383-3044

9. Designated Facility Name and Site Address

RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108

10. US EPA ID Number

E.X.E.M.P.T.

C. Facility's Phone

(206) 623-4000

11. Waste Shipping Name and Description

a. MATERIAL NOT REGULATED BY DOT (SCRAP METAL)

12. Containers

No. Type

13. Total Quantity

14. Unit Wt/Vol

0 0 1 C M 0 7 7 2 5 P

D. Additional Descriptions for Materials Listed Above

a) 162942-00 - - SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 - DIR01 (29)

E. Handling Codes for Wastes Listed Above

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. A.K.R.O.G.0.0.0.3.2.2.8
 Manifest Document No. G.A.H.2.2

2. Page 1 of 1

3. Generator's Name and Mailing Address
 US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)
 PO BOX 35066

4. Generator's Phone (FT WAINSRIGHT AK 99703-0066 (907) 353-7063

5. Transporter 1 Company Name
 Northland Services

6. US EPA ID Number
 W.A.D.9.8.1.7.7.3.0.0.5

A. Transporter's Phone
 (206) 763-3000

7. Transporter 2 Company Name
 Resource Recovery

8. US EPA ID Number
 W.A.D.0.6.1.6.7.2.8.1.2

B. Transporter's Phone
 (253) 383-3044

9. Designated Facility Name and Site Address
 RABANCO RECYCLING
 4 TH & LANDERS
 SEATTLE, WA 98108

10. US EPA ID Number
 E.X.E.M.P.T.

C. Facility's Phone
 (206) 625-4000

11. Waste Shipping Name and Description

12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol

a. MATERIAL NOT REGULATED BY DOT (SCRAP METAL)

0 0 1 C M 0 7 7 2 5 P

b.				
c.				
d.				

D. Additional Description for Materials Listed Above
 a) 162942-00 - - SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 - UNF31 (29)

E. Handling Codes for Wastes Listed Above
 a)

15. Special Handling Instructions and Additional Information
 GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulation for reporting proper disposal of Hazardous Waste.

Printed/Typed Name IN BEHALF OF US GOVT
 STEVEN LECLERC
 Signature Steven Leclerc
 Month Day Year 8 26 99

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name LARRY HOWARD
 Northland Services
 Signature Larry Howard
 Month Day Year 8 26 99

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name LAWRENCE V. DROZ
 Signature Lawrence V. Droz
 Month Day Year 11 16 99

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
 Printed/Typed Name
 Signature
 Month Day Year

TRANSPORTER 02

GENERATOR

TRANSPORTER

FACILITY

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **AKR000003228** Manifest No. **03**

2. Page 1 of 1

3. Generator's Name and Mailing Address
US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)
PO BOX 35066
 4. Generator's Phone (**FT WAINSRIGHT AK 99703-0066 (907)353-7063**)

5. Transporter 1 Company Name
Northland Services

6. US EPA ID Number
WAD981773005

A. Transporter's Phone
(206)763-3000

7. Transporter 2 Company Name
Resource Recovery

8. US EPA ID Number
WADO61672812

B. Transporter's Phone
(253)383-3044

9. Designated Facility Name and Site Address
RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108

10. US EPA ID Number
E X E M P T

C. Facility's Phone
(206) 623-4000

11. Waste Shipping Name and Description

12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
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a. **MATERIAL NOT REGULATED BY DOT (SCRAP METAL)**

0	0	1	C	M	1	1	7	6	9	P
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D. Additional Descriptions for Materials Listed Above

a) **162942-00 - - SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 - D1R01 (30)**

E. Handling Codes for Wastes Listed Above

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. **GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.**

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

TYPE

24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (907) 272-9007

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No. **AKR00003228** Manifest Number **3** Page **1** of **1**

3. Generator Name and Mailing Address
US ARMY ENGINEERING DIST AK (SEPORA-CX-FR (GAMMILL))
PO BOX 35066
FT WAINWRIGHT AK 99703-0066 (907) 353-7063

5. Transporter 1 Company Name
NOPLIN AND SERVICES 6. US EPA ID Number **HA198173005** A. Transporter's Phone **(206) 763-3000**

7. Transporter 2 Company Name
RESOLVE RECOVERY 8. US EPA ID Number **WA0061672812** B. Transporter's Phone **(253) 383-3044**

9. Receiver Facility Name and Site Address
RAISAK'S RECYCLING 10. US EPA ID Number **EXEMPT** C. Facility's Phone **(206) (27)-4000**
4 TH & LANDERS
SEATTLE, WA 98101

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. MATERIAL NOT REGULATED BY DOT (SCRAP METAL)	0-0-1	C-M	1-1-7-6-9	E
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
 a. 182502-00 - (SCRAP METAL, WASHINGTON CERTIFICATION NO. 99-3) 5 REPAIR (10)

E. Handling Codes for Wastes Listed Above
 a

15. Special Handling Instructions and Additional Information
 GENERATOR'S CERTIFICATION: I hereby declare that the contents of this assignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Printed/Typed Name **IN WHOLE OF US GOVT** Signature **Steven Leclerc** Month **8** Day **26** Year **99**
STEVEN LECLERC

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **LARRY HOWARD** Signature **Larry Howard** Month **9** Day **26** Year **99**
NORTHLAND SERVICES

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name **Tim** Signature **Tim** Month **11** Day **17** Year **99**

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of waste materials covered by this manifest except as noted in item 19.
 Printed/Typed Name **Tim** Signature **Tim** Month **11** Day **17** Year **99**

CONTAINER 201548

TRANSPORTER

FACILITY

COPY

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. A K R O O O O O 3 2 2 8	Manifest Document No. G A H 2 4	2. Page 1 of 1
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3. Generator's Name and Mailing Address US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL) PO BOX 35066	4. Generator's Phone (FT WAINSRIGHT AK 99703-0066 (907)353-7063
--	--

5. Transporter 1 Company Name Northland Services	6. US EPA ID Number W A D 9 8 1 7 7 3 0 0 5	A. Transporter's Phone (206)763-3000
--	---	--

7. Transporter 2 Company Name Resource Recovery	8. US EPA ID Number W A D O 6 1 6 7 2 8 1 2	B. Transporter's Phone (253)383-3044
---	---	--

9. Designated Facility Name and Site Address RABANCO RECYCLING 4 TH & LANDERS SEATTLE, WA 98108	10. US EPA ID Number E X E M P T	C. Facility's Phone (206) 623-4000
---	--	--

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. MATERIAL NOT REGULATED BY DOT (SCRAP METAL)	0 0 1	C M	1 2 9 8 0	P
b.	.	.	.	.
c.	.	.	.	.
d.	.	.	.	.

D. Additional Descriptions for Materials Listed Above a) 162942-00 - - SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 - DIR01 (31)	E. Handling Codes for Wastes Listed Above a)
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15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

17. Transporter 1 Acknowledgement of Receipt of Materials	Printed/Typed Name	Signature	Month	Day	Year
			.	.	.

18. Transporter 2 Acknowledgement of Receipt of Materials	Printed/Typed Name	Signature	Month	Day	Year
			.	.	.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.	Printed/Typed Name	Signature	Month	Day	Year
			.	.	.

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (907) 272-8007

99A507 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. A.K.R.O.O.O.O.O.3.2.2.8
 Manifest Document No. G.A.H.2.4

2. Page 1 of 1

3. Generator's Name and Mailing Address
 US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMELL)
 PO BOX 35066
 4. Generator's Phone (FT WALDRIGHT AK 99703-0066 (907) 353-7063

5. Transporter 1 Company Name Northland Services
 6. US EPA ID Number W.A.D.9.8.1.7.7.3.0.0.5
 A. Transporter's Phone (206) 763-3000

7. Transporter 2 Company Name Resource Recovery
 8. US EPA ID Number W.A.D.0.6.1.6.7.2.8.1.2
 B. Transporter's Phone (253) 383-3044

9. Designated Facility Name and Site Address
 RABANCO RECYCLING
 4 TH & LANDERS
 SEATTLE, WA 98108
 10. US EPA ID Number E.X.E.M.P.T.
 C. Facility's Phone (206) 623-4000

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. MATERIAL NOT REGULATED BY DOT (SCRAP METAL)	0	0	12980	P
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
 a) 162942-00 - SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 - DIR01 (31)

E. Handling Codes for Wastes Listed Above
 a)

15. Special Handling Instructions and Additional Information
 GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: IN BEHALF OF US GOVT
 STEVEN L. SCLERK
 Signature: *Steven L. Sclerk*
 Month Day Year: 8/26/99

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: LARRY HOWARD
 Northland Services
 Signature: *Larry Howard*
 Month Day Year: 8/26/99

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name: Jim Simon
 Signature: *Jim Simon*
 Month Day Year: 11/12/99

19. Discrepancy Indicator: Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: *BD P. J...*
 Signature: *BD P. J...*
 Month Day Year: 11/12/99

TRANSPORTER #2

GENERATOR

TRANSPORTER

FACILITY

99A607 08/23/99

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. **A K R 0 0 0 0 0 3 2 2 8** Manifest Document No. **G A H 2 5**

2. Page 1 of 1

3. Generator's Name and Mailing Address
**US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)
PO BOX 35066**

4. Generator's Phone (**FT WAINSRIGHT AK 99703-0066 (907)353-7063**

5. Transporter 1 Company Name
Northland Services

6. US EPA ID Number
W A D 9 8 1 7 7 3 0 0 5

A. Transporter's Phone
(206)763-3000

7. Transporter 2 Company Name
Resource Recovery

8. US EPA ID Number
W A D O 6 1 6 7 2 8 1 2

B. Transporter's Phone
(253)383-3044

9. Designated Facility Name and Site Address
**RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108**

10. US EPA ID Number
E X E M P T

C. Facility's Phone
(206) 623-4000

11. Waste Shipping Name and Description

12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
--------------------	------	--------------------	-----------------

a. **MATERIAL NOT REGULATED BY DOT (SCRAP METAL)**

0 0 1	C M	0 6 2 5 3	P

D. Additional Descriptions for Materials Listed Above

a) **162942-00 - - SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 - D101 (32)**

E. Handling Codes for Wastes Listed Above

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. **GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.**

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

TYPE

FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (907) 272-9007

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **A.K.R.O.O.O.O.O.3.2.2.8** Manifest Document No. **G.A.H.2.5**

2. Page 1 of 1

3. Generator's Name and Mailing Address
US ARMY ENGINEERING DIST AK CEPOA-CO-FR (CAMBELL)
PO BOX 35066
 4. Generator's Phone (**FT WAINSRIGHT AK 99703-0066 (907)352-7063**

5. Transporter 1 Company Name **Northland Services** 6. US EPA ID Number **W.A.D.9.8.1.7.7.3.0.0.5**

A. Transporter's Phone **(206)763-3000**

7. Transporter 2 Company Name **Resource Recovery** 8. US EPA ID Number **W.A.D.O.6.1.6.7.2.8.1.2**

B. Transporter's Phone **(253)383-3044**

9. Designated Facility Name and Site Address
RAMANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108 10. US EPA ID Number **EXEMPT**

C. Facility's Phone **(206) 625-4000**

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. MATERIAL NOT REGULATED BY DOT (SCRAP METAL)	001	CM	06253	P
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
 a) **16294-00 - - SCRAP METAL, RAMANCO CERTIFICATION NO. 99-1119 - 01801 (32)**

E. Handling Codes for Wastes Listed Above
 a) *** 299074**

15. Special Handling Instructions and Additional Information
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel, according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name **IN BEHALF OF US GOV** Signature **Thomas Leiler** Month Day Year **8 26 99**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **LARRY HOWARD** Signature **Larry Howard** Month Day Year **8 26 99**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name **Darryl Sterba** Signature **Darryl Sterba** Month Day Year **11 10 99**

19. Discrepancy/Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name Signature Month Day Year

TRANSPORTER #

GENERATOR

TRANSPORTER

FACILITY

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
A.K.R.O.O.O.O.O.3.2.2.8

Manifest Document No.
G.A.H.2.6

2. Page 1 of 1

3. Generator's Name and Mailing Address
**US ARMY ENGINEERING DIST AK CEPOA-CO-ER (GAMBELL)
PO BOX 35066**

4. Generator's Phone (**FT WAINSRIGHT AK 99703-0066 (907)353-7063**

5. Transporter 1 Company Name
Northland Services

6. US EPA ID Number
W.A.D.9.8.1.7.7.3.0.0.5

A. Transporter's Phone
(206)763-3000

7. Transporter 2 Company Name
Resource Recovery

8. US EPA ID Number
W.A.D.O.6.1.6.7.2.8.1.2

B. Transporter's Phone
(253)383-3044

9. Designated Facility Name and Site Address
**RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108**

10. US EPA ID Number
E.X.E.M.P.T.

C. Facility's Phone
(206) 623-4000

11. Waste Shipping Name and Description

a. **MATERIAL NOT REGULATED BY DOT (SCRAP METAL)**

12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
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001	CM	12465	P
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D. Additional Descriptions for Materials Listed Above

a) 162942-00 - - SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 - D101 (33)

E. Handling Codes for Wastes Listed Above

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (907) 272-9007 ***

95A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **AKR000003228** Manifest Document No. **6**

2. Page 1 of 1

3. Generator: Name and Mailing Address:
US ARMY ENGINEERING DIST AK CORP-CO-ER (SANGRELL)
PO BOX 35066

4. Generator: Phone: **FT WAINSBRIGHT AK 99703-0066 (907) 253-7063**

5. Transporter 1 Company Name: **Northland Services** US EPA ID Number: **WA D 9 8 1 7 3 0 0 5**

A. Transporter's Phone: **(206) 763-3000**

7. Transporter 2 Company Name: **REDAIR CO RECOVERY** US EPA ID Number: **WA D 0 6 2 8 1 2**

B. Transporter's Phone: **(253) 383-3044**

9. Designated Facility Name and Site Address:
REDAIR CO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108

10. US EPA ID Number: **EXEMPT**
C. Facility's Phone: **(206) 623-4000**

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. MATERIAL NOT REGULATED BY DOT (SCRAP METAL)	0	0	0	0
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above:
a) 102942-00 - SCRAP METAL, BANGCO CERTIFICATION NO. 99-1115 - TUBING (33)

E. Handling Codes for Wastes Listed Above:
a)

15. Special Handling Instructions and Additional Information:
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, sorted, and labelled/packaged, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the material described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: **IN BEHALF OF US GOVT STEVEN LECLERC** Signature: *Steven Leclerc* Month: **8** Day: **26** Year: **99**

17. Transporter 1 Acknowledgement of Receipt of Materials:
Printed/Typed Name: **LARA G HEWARD Northland Services** Signature: *Lara Heward* Month: **9** Day: **26** Year: **99**

18. Transporter 2 Acknowledgement of Receipt of Materials:
Printed/Typed Name: **Jim Simon** Signature: *Jim Simon* Month: **9** Day: **26** Year: **99**

19. Discrepancy Indication Space:

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.
Printed/Typed Name: _____ Signature: *[Signature]* Month: **11** Day: **18** Year: **99**

COPY

CONTAINER 201126
GENERATOR
TRANSPORTER
FACILITY

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **AKR000003228** Manifest Date **08/23/99**

2. Page 1 of 1

Generator's Name and Mailing Address
US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMBELL)
PO BOX 35066
 4. Generator's Phone (**FT WAINSRIGHT AK 99703-0066 (907)353-7063**)

5. Transporter 1 Company Name **Northland Services** 6. US EPA ID Number **WAD981773005**

A. Transporter's Phone **(206)763-3000**

7. Transporter 2 Company Name **Resource Recovery** 8. US EPA ID Number **WADO61672812**

B. Transporter's Phone **(253)383-3044**

9. Designated Facility Name and Site Address
RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108

10. US EPA ID Number
E X E M P T

C. Facility's Phone
(206) 623-4000

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. MATERIAL NOT REGULATED BY DOT (SCRAP METAL)	001	CM	12169	P
b.	.	.	.	.
c.	.	.	.	.
d.	.	.	.	.

D. Additional Descriptions for Materials Listed Above
a) 162942-00 - - SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 - DIR01 (34)

E. Handling Codes for Wastes Listed Above
a)

15. Special Handling Instructions and Additional Information
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name _____ Signature _____ Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name _____ Signature _____ Month Day Year

GENERATOR

TRANSPORTER

FACILITY

FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (907) 272-9007

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
AKR000003228

Manifest
Date 8/23/99

2. Page 1 of 1

3. Generator's Name and Mailing Address
US ARMY ENGINEERING DIST AK CEPOA-CO-ER (GAMBELI.)
PO BOX 35066

4. Generator's Phone FT WAINSRIGHT AK 99703-0066 (907)353-7063

5. Transporter 1 Company Name
Northland Services

6. US EPA ID Number
WAD981773005

A. Transporter's Phone (206)763-3000

7. Transporter 2 Company Name
Resource Recovery

8. US EPA ID Number
WADO61672812

B. Transporter's Phone (253)383-3044

9. Designated Facility Name and Site Address
RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108

10. US EPA ID Number
EXEMPT

C. Facility's Phone (206) 623-4000

11. Waste Shipping Name and Description

12. Containers	13. Total Quantity	14. Unit

a. MATERIAL NOT REGULATED BY DOT (SCRAP METAL)

0	0	1	C	M	1	2	1	6	9	P
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D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

a) 162942-00 - - SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 DIED) (34)

a)

15. Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this assignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name IN BEHALF OF US GOVT
STEVEN ECLERC

Signature
Steven Eclerc

Month Day Year
8 26 99

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name LARRY HOWARD
Northland Services

Signature
Larry Howard

Month Day Year
8 26 99

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Tim Simon

Signature
Tim Simon

Month Day Year
11 13 99

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature
J. D. [unclear]

Month Day Year
11 15 99

TRANSPORTER'S

GENERATOR

TRANSPORTER

FACILITY

CONTAINER 234167

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **A.K.R.O.O.O.O.O.3.2.2.8** Manifest Document No. **G.A.H.2.8**

2. Page 1 of 1

3. Generator's Name and Mailing Address
US ARMY ENGINEERING DIST AK CEPOA-CO-FR (GAMELL)
PO BOX 35066
 4. Generator's Phone (**FT WAINSRIGHT AK 99703-0066 (907)353-7063**

5. Transporter 1 Company Name **Northland Services** 6. US EPA ID Number **W.A.D.9.8.1.7.7.3.0.0.5**

A. Transporter's Phone **(206)763-3000**

7. Transporter 2 Company Name **Resource Recovery** 8. US EPA ID Number **W.A.D.O.6.1.6.7.2.8.1.2**

B. Transporter's Phone **(253)383-3044**

9. Designated Facility Name and Site Address **RABANCO RECYCLING**
4 TH & LANDERS
SEATTLE, WA 98108 10. US EPA ID Number **E.X.E.M.P.T.**

C. Facility's Phone **(206) 623-4000**

11. Waste Shipping Name and Description

12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. MATERIAL NOT REGULATED BY DOT (SCRAP METAL)	001	GM	13016	P
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
a) 162942-00 - - SCRAP METAL, RABANCO CERTIFICATION NO. 99-1119 - DI01 (35)

E. Handling Codes for Wastes Listed Above
a)

15. Special Handling Instructions and Additional Information
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

17. Transporter 1 Acknowledgement of Receipt of Materials	Printed/Typed Name	Signature	Month	Day	Year
			.	.	.

18. Transporter 2 Acknowledgement of Receipt of Materials	Printed/Typed Name	Signature	Month	Day	Year
			.	.	.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

GENERATOR

TRANSPORTER

FACILITY

99A607 08/23/99

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **A-K-R-0-0-0-0-0-3-2-2-8** Manifest Document No. **G-A-H-2-8**

2. Page 1 of 1

3. Generator's Name and Mailing Address
US ARMY ENGINEERING DIST AK CEPOA-CO-TR (GAMELL)
PO BOX 35066
 4. Generator's Phone **FT WAINSRIGHT AK 99703-0066 (907) 353-7063**

5. Transporter 1 Company Name **Northland Services** 6. US EPA ID Number **W.A.D.9.8.1.7.7.3.0.0.5**

A. Transporter's Phone **(206) 763-3000**

7. Transporter 2 Company Name **Resource Recovery** 8. US EPA ID Number **W.A.D.0.6.1.6.7.2.8.1.2**

B. Transporter's Phone **(253) 383-3044**

9. Designated Facility Name and Site Address
RABANCO RECYCLING
4 TH & LANDERS
SEATTLE, WA 98108 10. US EPA ID Number **E.Y.E.H.P.T.**

C. Facility's Phone **(206) 623-4000**

11. Waste Shipping Name and Description

12. Containers No.	13. Total Quantity	14. Unit Wt/Vol

a. **MATERIAL NOT REGULATED BY DOT (SCRAP METAL)**

001	13026	P
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b.

--	--	--

c.

--	--	--

d.

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D. Additional Descriptions for Materials Listed Above
 - 2) 16294-00 - SCRAP METAL, RABANCO CERTIFICATION NO. 59-1119 - D1601 (35)

E. Handling Codes for Wastes Listed Above
 41

15. Special Handling Instructions and Additional Information
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport via air, road, rail) and marine vessel according to applicable international and national regulations.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulation for reporting proper disposal of Hazardous Waste.

Printed/Typed Name **IN BEHALF OF US GOVT**
STEVEN L. CLERC

Signature *[Signature]*

Month Day Year **8 26 99**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **LARRY HOWARD**
Northland Services

Signature *[Signature]*

Month Day Year **8 26 99**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name **Tim Simon**

Signature *[Signature]*

Month Day Year **11 01 99**

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature *[Signature]*

Month Day Year **11 11 99**

TRANSPORTER #

GENERATOR

TRANSPORTER

FACILITY



RABANCO

54 SOUTH DAWSON STREET
SEATTLE, WA 98134
(206) 332-7700 FAX (206) 763-1234

CERTIFICATE OF DISPOSAL

November 9, 2001

OSCI
Attn: Divina Portudes

Bill of Lading: 99-1119 (see attached)

This is to certify that **NON-DANGEROUS WASTE** as defined on the above referenced Bill of Lading was shipped by US Army Engineering District Alaska, CEPOA-CO-FR from Gamble, AK. The scrap metal was received by Regional Disposal Company and disposed of at **Roosevelt Regional Landfill, 1800 Roosevelt Grade Road, Roosevelt, WA 99356**. The above described **NON-DANGEROUS WASTE** was managed in compliance with all Permits and Laws Regulating this Facility.

Final Disposition: **Subtitle D and WAC 173-351 MSW Landfill**

Herlie Whiteman

Signature

For Regional Disposal Company



SUMMARY OF LOADS HAULED

INVOICE #9924043-K

PAGE: 1

DATE	TICKET #	GROSS	TARE	NET	NET TONS	TRUCK #	CONTAINER #
(71) Industrial Waste - Seattle							
11/09/99	1121186	35,640	29,140	6,500	3.250	900	NSIU 299074
11/11/99	1122525	41,220	29,040	12,180	6.090	900	
11/12/99	1122962	38,000	29,380	8,620	4.310	900	
11/12/99	1123051	39,100	28,800	10,300	5.150	900	
11/12/99	1123192	41,620	29,260	12,360	6.180	900	
11/12/99	1123238	41,120	28,960	12,160	6.080	900	CAXU 2590422
11/12/99	1123256	42,000	29,220	12,780	6.390	900	NSIU 2011533
Total:					<u>37.450</u>		



RABANCO

54 SOUTH DAWSON STREET
SEATTLE, WA 98134
(206) 332-7700 FAX (206) 763-1234

CERTIFICATE OF DISPOSAL

November 9, 2001

OSCI
Attn: Divina Portudes

Bill of Lading: 99-1120 (see attached)

This is to certify that **NON-DANGEROUS WASTE** as defined on the above referenced Bill of Lading was shipped by US Army Engineering District Alaska, CEPOA-CO-FR from Gamble, AK. The RCRA Empty Drums were received by Regional Disposal Company and disposed of at **Roosevelt Regional Landfill, 1800 Roosevelt Grade Road, Roosevelt, WA 99356**. The above described **NON-DANGEROUS WASTE** was managed in compliance with all Permits and Laws Regulating this Facility.

Final Disposition: **Subtitle D and WAC 173-351 MSW Landfill**

Russie Whiteman
Signature

For Regional Disposal Company



SUMMARY OF LOADS HAULED

INVOICE #9924044-K

PAGE: 1

DATE	TICKET #	GROSS	TARE	NET	NET TONS	TRUCK #	CONTAINER #
(71) Industrial waste - Seattle							
11/09/99	1121247	39,180	29,540	9,640	4.820	900	
11/11/99	1122599	39,080	29,440	9,640	4.820	900	
11/12/99	1123132	37,720	28,880	8,840	4.420	900	
Total:					<u>14.060</u>		



RABANCO

54 SOUTH DAWSON STREET
SEATTLE, WA 98134
(206) 332-7700 FAX (206) 763 1234

CERTIFICATE OF DISPOSAL

November 9, 2001

OSCI
Attn: Divina Portudes

Bill of Lading: 99-1121 (see attached)

This is to certify that NON-DANGEROUS WASTE as defined on the above referenced Bill of Lading was shipped by US Army Engineering District Alaska, CEPOA-CO-FR from Gamble, AK. The Petroleum Contaminated Soil was received by Regional Disposal Company and disposed of at **Roosevelt Regional Landfill, 1800 Roosevelt Grade Road, Roosevelt, WA 99356**. The above described **NON-DANGEROUS WASTE** was managed in compliance with all Permits and Laws Regulating this Facility.

Final Disposition: **Subtitle D and WAC 173-351 MSW Landfill**

Auslie Whiteman
Signature

For Regional Disposal Company

SUMMARY OF LOADS HAULED

INVOICE #9924045-K

PAGE: 1

DATE	TICKET #	GROSS	TARE	NET	NET TONS	TRUCK #	CONTAINER #
(34) Petroleum Contaminated Soil Disposal - Seatt							
11/09/99	1121336	36,280	28,920	7,360	3.680	900	MSIU 2992352
11/11/99	1122465	39,000	28,980	10,020	5.010	900	NSIU 299327
11/11/99	1122659	43,520	28,860	14,660	7.330	900	CMCU 2057844
Total:					<u>16.020</u>		

Date: 11/07/01

CERTIFICATE OF TREATMENT, RECYCLING, AND/OR DISPOSAL

This is to certify that the following waste material was received, managed, and treated in compliance with all applicable Federal and Washington State Laws and regulations.

Facility: BURLINGTON ENVIRONMENTAL INC. 734 SOUTH LUCILE STREET
GEORGETOWN FACILITY SEATTLE WA 98108
EPA ID: WAD000812909

Generator: 32944 - US ARMY ENGINEERING DIST AK EPA ID: AKRD00003228

Manifest: GAM02-99 Waste Receipt #: GTW-48524 Date Received: 11/10/99

Line Profile	Material Description	Treatment/Disposal Description	Final Treatment/ Disposal Facility	Final PSC Manifest	PgLn	Final Date/ Date Shipped
1A 162785-00	HAZARDOUS WASTE, SOLID, N.O.S. (D008)	M111 STABILIZATION/CHEMICAL FIXATION/CEMENT	CHEM WASTE MGMT OF NORTHWEST	15969-KNT	1A	12/29/99
1B 162781-00	WASTE TARS, LIQUID	M061 FUEL BLENDING	CONTINENTAL CEMENT CO. L.L.C SYSTECH ENVIRONMENTAL SYSTECH ENVIRONMENTAL SYSTECH ENVIRONMENTAL SYSTECH ENVIRONMENTAL	25213-GTW 25252-GTW 25270-GTW 25271-GTW 25310-GTW	1C 1A 1A 1A 1A	12/03/99 01/06/00 01/17/00 01/18/00 02/15/00
1C 162783-00	HAZARDOUS WASTE, SOLID, N.O.S. (D008)	M111 STABILIZATION/CHEMICAL FIXATION/CEMENT	CHEM WASTE MGMT OF NORTHWEST	15969-KNT	1A	12/29/99
1D 162782-00	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (LEAD)	M013 SECONDARY SMELTING	KINSBURSKY BROTHERS, INC.	25196-GTW	1C	12/10/99

Name: Wanda Grondaht

Signature :

Title : Certificate Production Specialist

NOV. 7. 2001 3:55PM

PSC KENT

NO. 3203 P. 2

WA 48524

Please print or type. (Form designed for use on 11x17 (12-inch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No AKR000003228		Manifest Document No. GAM02		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.						
3. Generator's Name and Mailing Address US ARMY ENGINEERING DIST AK CEPCA-CO-FR (GAMBELL) PO BOX 35066						A. State Manifest Document Number								
4. Generator's Phone FT WAINSWRIGHT AK 99703-0066 (907) 353-7063						B. State Permit ID								
5. Transporter 1 Company Name Northland Services			6. US EPA ID Number WAD981773005			C. State Permit ID 20617635-300								
7. Transporter 2 Company Name Resource Recovery			8. US EPA ID Number WAD061572812			D. State Permit ID 20617635-300								
9. Designated Facility Name and Site Address BURLINGTON ENVIRONMENTAL INC. 794 South Lucile Street Seattle, WA 98108						10. US EPA ID Number WAD000812909								
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit WUWt				
a. HAZARDOUS WASTE, SOLID, N.O.S. (0008) 9 HAZ077 PGIII ERG(171)						1. DN		601		P				
b. WASTE PANS, LIQUID 3 UN1999 341I (0001) ERG(130)						9. DN		4458		P				
c. HAZARDOUS WASTE, SOLID, N.O.S. (0008) 9 HAZ077 PGIII ERG(171)						1. DN		378		P				
d. ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (LEAD) 9 UN3077 PGIII (LEAD) ERG(171)						1. TB		619		P				
14. Additional Descriptions for Materials (If Used)						K. Handling Codes for Waste								
15. Special Handling Instructions and Additional Information														
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.														
Printed/Typed Name IN BEHALF OF US GOVT STEVEN L. CLARK						Signature <i>Steven L. Clark</i>			Month Day Year 8/26/99					
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name LARRY HOWARD Northland Services			Signature <i>Larry Howard</i>			Month Day Year 9/2/99		
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name Chet Miller			Signature <i>Chet Miller</i>			Month Day Year 11/10/99		
19. Discrepancy Indication Space														
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.														
Printed/Typed Name RICK GILBERT						Signature <i>Rick Gilbert</i>			Month Day Year 11/10/99					

Container 299764



CWM OF THE NORTHWEST
Federal EPA ID: ORD089452353
17629 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

US ARMY ENGINEERING DISTRICT
ATTN: MANIFEST SECTION
AKR000003228
CEPOA-CO-FR
GAMBELL AK 99742

CONFIRMATION OF DESTRUCTION

Chemical Waste Management, Inc. has received waste material from US ARMY ENGINEERING DISTRICT on 11/17/99 as described on [State Manifest or Uniform] Hazardous Waste Manifest number GAM03.

Profile Number: CO4833
CWM Tracking ID: 34756401
Process: CHEMICAL FIXATION
Treatment Date: 11/19/99

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

A handwritten signature in black ink, appearing to read 'Lynn Murrill', is written over a horizontal line.

LYNN MURRILL
RECORDS MANAGER
Certificate # 68357
12/09/99



CWM OF THE NORTHWEST
Federal EPA ID: ORD089452353
17629 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

US ARMY ENGINEERING DISTRICT
ATTN: MANIFEST SECTION
AKR000003228
CEPOA-CO-FR
GAMBELL AK 99742

CONFIRMATION OF DESTRUCTION

Chemical Waste Management, Inc. has received waste material from US ARMY ENGINEERING DISTRICT on 11/17/99 as described on [State Manifest or Uniform] Hazardous Waste Manifest number GAM03.

Profile Number: CO4833
CWM Tracking ID: 34756402
Process: CHEMICAL FIXATION
Treatment Date: 11/19/99

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

LYNN MURRILL
RECORDS MANAGER
Certificate # 68358
12/09/99



CWM OF THE NORTHWEST
Federal EPA ID: ORD089452353
17629 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

US ARMY ENGINEERING DISTRICT
ATTN: MANIFEST SECTION
AKR000003228
CEPOA-CO-FR
GAMBELL AK 99742

CONFIRMATION OF DESTRUCTION

Chemical Waste Management, Inc. has received waste material from US ARMY ENGINEERING DISTRICT on 11/10/99 as described on [State Manifest or Uniform] Hazardous Waste Manifest number GAM04.

Profile Number: CO4833
CWM Tracking ID: 34739601
Treatment Date: 11/16/99
CWM Unit #: 1*0 thru 20*0

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

A handwritten signature in cursive script, appearing to read 'Lynn Morrill', is written over a horizontal line.

LYNN MORRILL
RECORDS MANAGER
Certificate # 93857
11/07/01



CWM OF THE NORTHWEST
Federal EPA ID: ORD089452353
17629 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

US ARMY ENGINEERING DISTRICT
ATTN: MANIFEST SECTION
AKR000003228
CEPOA-CO-FR
GAMBELL AK 99742

CONFIRMATION OF DESTRUCTION

Chemical Waste Management, Inc. has received waste material from US ARMY ENGINEERING DISTRICT on 11/15/99 as described on [State Manifest or Uniform] Hazardous Waste Manifest number GAM05.

Profile Number: CO4833
CWM Tracking ID: 34747201
Process: CHEMICAL FIXATION
Treatment Date: 11/17/99

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

A handwritten signature in cursive script, appearing to read 'Lynn Murrill', written in black ink.

LYNN MURRILL
RECORDS MANAGER
Certificate # 68362
12/09/99



CWM OF THE NORTHWEST
Federal EPA ID: ORD089452353
17629 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

US ARMY ENGINEERING DISTRICT
ATTN: MANIFEST SECTION
AKR000003228
CEPOA-CO-FR
GAMBELL AK 99742

CONFIRMATION OF DESTRUCTION

Chemical Waste Management, Inc. has received waste material from US ARMY ENGINEERING DISTRICT on 11/09/99 as described on [State Manifest or Uniform] Hazardous Waste Manifest number GAM06.

Profile Number: CO4833
CWM Tracking ID: 34731901
Process: CHEMICAL FIXATION
Treatment Date: 11/10/99

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

LYNN MURRILL
RECORDS MANAGER
Certificate # 67245
11/18/99



CWM OF THE NORTHWEST
Federal EPA ID: ORD089452353
17629 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

US ARMY ENGINEERING DISTRICT
ATTN: MANIFEST SECTION
AKR000003228
CEPOA-CO-FR
GAMBELL AK 99742

CONFIRMATION OF DESTRUCTION

Chemical Waste Management, Inc. has received waste material from US ARMY ENGINEERING DISTRICT on 11/10/99 as described on [State Manifest or Uniform] Hazardous Waste Manifest number GAM07.

Profile Number: CO4833
CWM Tracking ID: 34739401
Treatment Date: 11/16/99
CWM Unit #: 1*0 thru 10*0

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

A handwritten signature in black ink, appearing to read 'Lynn Murrill', is written over a horizontal line.

LYNN MURRILL
RECORDS MANAGER
Certificate # 93860
11/07/01



CWM OF THE NORTHWEST
Federal EPA ID: ORD089452353
17629 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

US ARMY ENGINEERING DISTRICT
ATTN: MANIFEST SECTION
AKR000003228
CEPOA-CO-FR
GAMBELL AK 99742

CONFIRMATION OF DESTRUCTION

Chemical Waste Management, Inc. has received waste material from US ARMY ENGINEERING DISTRICT on 11/09/99 as described on [State Manifest or Uniform] Hazardous Waste Manifest number GAM08.

Profile Number: CO4833
CWM Tracking ID: 34731801
Process: CHEMICAL FIXATION
Treatment Date: 11/10/99

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

A handwritten signature in black ink, appearing to read 'Lynn Murrill', is written over a horizontal line.

LYNN MURRILL
RECORDS MANAGER
Certificate # 71190
02/09/00



CWM OF THE NORTHWEST
Federal EPA ID: ORD089452353
17629 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

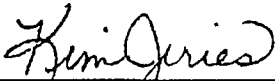
US ARMY ENGINEERING DISTRICT
ATTN: MANIFEST SECTION
AKR000003228
CEPOA-CO-FR
GAMBELL AK 99742

CONFIRMATION OF DESTRUCTION

Chemical Waste Management, Inc. has received waste material from US ARMY ENGINEERING DISTRICT on 11/09/99 as described on [State Manifest or Uniform] Hazardous Waste Manifest number GAM08.

Profile Number: CO4833
CWM Tracking ID: 34731802
Process: CHEMICAL FIXATION
Treatment Date: 11/10/99

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.



LYNN MURRILL
RECORDS MANAGER
Certificate # 71191
02/09/00

Appendix D
Daily Quality Control Reports

Environmental Quality Control/Quality Assurance Report

(EPA 415-1-1)

Contract Number/ Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 99-001		Date or Time Period 7/6/99	Location and Team Gambell, Alaska
Weather Conditions Temp Low _____ Temp Hi _____ Wind Speed _____ Mphs Conditions <u>Plycidy</u>		Contractor Oil Spill Consultants, Inc.	

Quality Control Inspections Performed This Date (include inspections, results, deficiencies observed, and corrective action)

Preparatory see attached checklist
 Initial see attached checklist
 Follow-Up

Was the deficiency reporting list updated this date? Yes No

Field Sampling and Testing
 Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
None			

Have Data Quality Objectives been achieved? N/A Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
None		

Have required amount of QC trip blanks and rinsates been achieved? N/A Yes No
 Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) Yes No
 Have QA and QC samples been collected in the specified quantity? N/A Yes No
 Have samples been properly labeled and packaged? N/A Yes No

Health and Safety
 Worker protection levels this date: Level A Level B Level C Level D N/A
 Was any work activity conducted within a confined space? Yes No
 Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No
 Were approved decontamination procedures used on workers and equipment as required? Yes No
 Safety Comments: (include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The CQC received a detailed briefing on terrain hazards and instructions in ATV operation.

Work Activities Performed This Date	Reference (NAC ID & Tech Spec #)	Activity & Location	Quantity	Contractor
Locate Sites	NAC ID 1014	Performed reconnaissance of sites 2, 3, 8, 10, 12, 13 and reviewed by the QAR	Initial survey of sites only	
Mobilization	NAC ID 1007	Unpacked vehicles from connex. Started setup of field office. Started subsistence arrangements. Made arrangements for QAR office and phones.	10% complete	

Manpower and Equipment		Labor Classification		Equipment Type	
Number	Man Hours	Number	Hours Used	Number	Hours Used
Project Manager		2	22	4 wheeler	
CQC System Manager	1	11	3	Cat 400 loader	1
Superintendent	1	11	4	Arqs	2
Archeologist			0	Northland	1
Operator	1	11	0	Pickup	1
Laborers					
Total Hours: 33		Total Hours: 29			

Instructions Given by the Government to the Contractor (include names, reactions, and remarks) Verbal Written
 None

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work)
 The three connexes containing Philip's tools, materials, equipment were not offloaded with the other containers. Northland (the shipper) was contacted and verified that they were on the barge and had neglected to offload them. Arrangements were made to have the connexes delivered by the next available barge.

I certify that this report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *[Signature]* Date 7/3/99

Environmental Quality Control/Quality Assurance Report
(ER 415-1-00)

Continuation Sheet

Government Quality Assurance Comments

Concurs with the QAR

Additional comments or questions

Yes No

QAR NOT ON SITE TODAY

QAR Signature

[Handwritten Signature]

Date

7-15-99

Supervisor's Initial

Date

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Contract Number / Delivery Order Number : **DACA85-87-D-0010/D.O. 0004** UPC/Project Title: **Debris Removal and Containerized Hazardous and Toxic Waste Removal**

CQC Report Number **79-002** Date or Time Period **7/7/99** Location and Team **Gambell, Alaska**

Weather Conditions
 Temp Low **40** Temp Hi **50** Contractor
 Wind Speed **15 knots** Conditions **Pty cldy** **Oil Spill Consultants, Inc.**

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action.)

Preparatory see attached checklist
 Initial see attached checklist
 Follow-Up

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
--------------	---------------	---------------------	---------

None

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
--------------	------------------------	---------------------

None

Have required amount of QC trip blanks and rinsates been achieved? **N/A** Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) Yes No

Have QA and QC samples been collected in the specified quantity? **N/A** Yes No

Have samples been properly labeled and packaged? **N/A** Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D **N/A**

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

Emergency communications procedures were covered at the safety meeting. The radios were tested for range and blind spots. Available on-island emergency services were reviewed as well as the posted location of emergency contact numbers.

Work Activities Performed This Date

Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
----------------------------------	---------------------	----------	------------

Mobilization (NAS ID 0011)	Setup of the field office for contractor and QAR. Serviced vehicles and equipment		
----------------------------	---	--	--

Manpower and Equipment

Labor Classification	Number	ManHours	Equipment Type	Number	Hours Used
Project Manager			4 wheeler	2	20
CQC System Manager	1	10	Cat 426 loader	1	3
Superintendent	1	10	Argo	2	0
Archeologist			Nodwell	1	1
Operator	1	10	Pickup	1	0
Laborers					
Total Hours:		30	Total Hours:		24

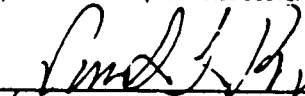
Instructions Given by the Government to the Contractor (Include names, reactions, and remarks.) Verbal Written
 QAR not on site

Work Progress Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

Started coordinated with Village of Gambell for possible location for contractor's operating area.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature 

Date 7/27/99

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)

Continuation Sheet

Government Quality Assurance Comments

Concurs with the QC report?

Additional comments or exceptions

Yes No

~~#~~ QAR NOT ON SITE TODAY.

QAR Signature Steven J. Clark Date 7-15-99 Supervisor's Initial _____ Date _____

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Contract Number / Delivery Order Number : **DACA85-97-D-0010/D.O. 0004** UPC/Project Title: **Debris Removal and Containerized Hazardous and Toxic Waste Removal**

CQC Report Number **99-003** Date or Time Period **7/8/99** Location and Team **Gambell, Alaska**

Weather Conditions
 Temp Low **40** Temp HI **50** Contractor
 Wind Speed **10 knots** Conditions **Pty cldy** **Oil Spill Consultants, Inc.**

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action.)

- Preparatory see attached checklist
 Initial see attached checklist
 Follow-Up

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing
 Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
None			

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
None		

Have required amount of QC trip blanks and rinsates been achieved? **N/A** Yes No
 Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) Yes No
 Have QA and QC samples been collected in the specified quantity? **N/A** Yes No
 Have samples been properly labeled and packaged? **N/A** Yes No

Health and Safety
 Worker protection levels this date: Level A Level B Level C Level D N/A
 Was any work activity conducted within a confined space? Yes No
 Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No
 Were approved decontamination procedures used on workers and equipment as required? Yes No
 Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The causes, effects, and preventative measures required to counter Hypothermia were discussed at the mornings safety meeting. Specific items addressed included the need to stay dry and the effect of wind on body heat loss. Appropriate types of clothing for different conditions were outlined.

Work Activities Performed This Date	Activity & Location	Quantity	Contractor
Reference (NAS ID #/Tech Spec #)			
Mobilization: Mobilization (NAS ID 0007)	Equipment inspection and maintenance was performed on delivered equipment. Field office and communications systems setup were completed today.	80%	

Manpower and Equipment					
Labor Classification	Number	ManHours	Equipment Type	Number	Hours Used
Project Manager			4 wheeler	2	20
CQC System Manager	1	10	Cat 428 loader	0	3
Superintendent	1	10	Argo	2	6
Archeologist			Nodwell	1	0
Operator	1	10	Pickup	1	0
Laborers					
Total Hours: 30			Total Hours: 29		

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks.) Verbal Written
 QAR not on site

Work Progress Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

In a survey of the access roads throughout the site it was noted that while the roads on the east and west sides of Troutman Lake were very good, all routes through the village were over very loose gravel. It was also noted that the gravel conditions at the North Beach made the location unsuitable for contractor's primary operating area as proposed in the work plan. An alternate location will have to be identified.

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)
Continuation Sheet

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature [Signature]

Date 7/9/99

Government Quality Assurance Comments
Concurs with the QC report?
Additional comments or exceptions:

Yes No

QAR NOT ON SITE

QAR Signature [Signature] Date 7-15-99

Supervisor's Initial _____ Date _____

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Contract Number / Delivery Order Number: DACA85-97-D-0010/D.O. 0004		UPC/Project Title: Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number: 99-004	Date or Time Period: 7/9/99	Location and Team: Gambell, Alaska	
Weather Conditions: Temp Low 38 Temp HI 53 Wind Speed 5 knots Conditions Pty cdy		Contractor: Oil Spill Consultants, Inc.	

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action)

Preparatory see attached checklist
 Initial see attached checklist
 Follow-Up

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing
 Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
None			

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
None		

Have required amount of QC trip blanks and rinsates been achieved? **N/A** Yes No
 Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) Yes No
 Have QA and QC samples been collected in the specified quantity? **N/A** Yes No
 Have samples been properly labeled and packaged? **N/A** Yes No

Health and Safety
 Worker protection levels this date: Level A Level B Level C Level D N/A
 Was any work activity conducted within a confined space? Yes No
 Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No
 Were approved decontamination procedures used on workers and equipment as required? Yes No
 Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

At the safety meeting the techniques for safe operation of ATVs over difficult terrain was discussed. Specific areas addressed included operation on slopes, rocky terrain, and soft mud. Later in the day, hands on instruction with four wheelers and Argos was provided to the CQC who was not and experienced ATV operator.

Safety meeting covered: **ATV OPERATION**

Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Mobilization (NAS ID 0007)	Investigated the local availability of rental equipment. Coordinated with shipper on delivery of missing tool/supply containers	80%	
Staging Area Setup (NAS ID 0009)	Started reviewing potential alternate staging areas	5%	

Manpower and Equipment					
Labor			Equipment		
Classification	Number	ManHours	Type	Number	Hours Used
Project Manager			4 wheeler	2	19
CQC System Manager	1	9.5	Cat 426 loader	1	3
Superintendent	1	9.5	Argo	2	4
Archeologist			Nodwell	1	0
Operator	1	9.5	Pickup	1	0
Laborers					
		Total Hours:	28.5	Total Hours: 26	

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks.) Verbal Written

QAR NOT ON SITE

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *Abraham L. Mc...* Date 7/10/99

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Continuation Sheet

Government Quality Assurance Comments
Concurs with the QC report?
Additional comments or exceptions.

Yes No

QAR NOT ON SITE

QAR Signature *Steve LeVine* Date 7-15-89 Supervisor's Initial _____ Date _____

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title: Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 99-005	Date or Time Period 7/10/99	Location and Team Gambell, Alaska	
Weather Conditions		Contractor	
Temp Low 39	Temp HI 55	Oil Spill Consultants, Inc.	
Wind Speed 5-15 knots	Conditions Sunny		

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action.)

Preparatory see attached checklist
 Initial see attached checklist
 Follow-Up

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
None			

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
None		

Have required amount of QC trip blanks and rinsates been achieved? **N/A** Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) Yes No

Have QA and QC samples been collected in the specified quantity? **N/A** Yes No

Have samples been properly labeled and packaged? **N/A** Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken)

Safety meeting covered: **WILD LIFE HAZARDS**

Work Activities Performed This Date

Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Locate waste sites (NAS ID 0011)	A reconnaissance was conducted of Site 10 (the trail system) and Site 4 (the mountain top) The contaminated soil and most items of HTW and debris described in the delivery order were identified	40%	

Manpower and Equipment

Classification	Labor		Equipment	
	Number	ManHours	Type	Number
Project Manager			4 wheeler	2
CQC System Manager	1	10	Cat 426 loader	1
Superintendent	1	10	Argo	2
Archaeologist			Nodwell	1
Operator	1	10	Pickup	1
Laborers				
Total Hours:		30	Total Hours: 30	

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks.) Verbal Written

QAR not on site

Work Progress Are there any Contractor caused delays or potential finding of fact? Yes No

Are there any Government caused delays or potential finding of fact? Yes No

Are there any unforeseeable or weather related delays? Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

During the reconnaissance of Site 10 and Area 4 with four wheeler and Argo it was noted that the light-duty improved roads shown on the contract drawings as the "Air Force Trail" and the "Army Trail" were little more than commonly traveled tracks in the tundra. The boulder field at the top of the mountain (Site 4) made many areas impossible to reach by ATV.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *[Signature]* Date 7/11/99

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)

Continuation Sheet

Government Quality Assurance Comments
Concurs with the QC report?
Additional comments or exceptions

Yes No

QAR NOT ON SITE

QAR Signature Steven L. Luce Date 7-15-99 Supervisor's Initial _____ Date _____

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
QC Report Number 006	Date or Time Period 7/11/99	Location and Team Gambell, Alaska	
Weather Conditions Temp Low 40 Temp HI 51		Contractor Oil Spill Consultants, Inc.	
Wind Speed Calm knots	Conditions Cloudy		

Quality Control Inspections Performed This Date (include inspections, results, deficiencies observed, and corrective action)

Preparatory see attached checklist

Initial see attached checklist

Follow-Up

NO INSPECTIONS TODAY

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
None			

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
None		

Have required amount of QC trip blanks and rinsates been achieved? **N/A** Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) Yes No

Have QA and QC samples been collected in the specified quantity? **N/A** Yes No

Have samples been properly labeled and packaged? **N/A** Yes No

Health and Safety

Worker protection levels this date Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

A safety meeting was used to cover the types of PPE that would be used on the project to deal with the various potentially hazardous conditions that might be encountered. Methods of controlling the spread of contamination were also discussed.

Work Activities Performed This Date

Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Mobilization (NAS ID 0007)	Continued investigated the local availability of rental equipment Continued to coordinated with shipper on delivery of missing tool/supply containers	80%	

Manpower and Equipment

Labor Classification	Number	ManHours	Equipment		
			Type	Number	Hours Used
Project Manager			4 wheeler	2	8
QC System Manager	1	4	Cat 426 loader	1	0
Superintendent	1	4	Argo	2	0
Archeologist			Nodwell	1	0
Operator	1	4	Pickup	1	0
Laborers					
Total Hours:		12	Total Hours:		8

Instructions Given by the Government to the Contractor (include names, reactions, and remarks) Verbal Written

QAR NOT ON SITE

Work Progress Are there any Contractor caused delays or potential finding of fact? Yes No

Are there any Government caused delays or potential finding of fact? Yes No

Are there any unforeseeable or weather related delays? Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *[Signature]* Date 7/12/99

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)

Continuation Sheet

Government Quality Assurance Comments
Concurs with the QC report?
Additional comments or exceptions:

Yes No

QAR NOT ON SITE

QAR Signature *Steve Lelley* Date 7-15-99 Supervisor's Initial _____ Date _____

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 99-007	Date or Time Period 7/12/99	Location and Team Gambell, Alaska	
Weather Conditions Temp Low 40 Temp HI 50 Wind Speed Calm Conditions Foggy a.m. Sunny Pm		Contractor Oil Spill Consultants, Inc.	

Quality Control Inspections Performed This Date (include inspections, results, deficiencies observed, and corrective action)

Preparatory see attached checklist

Initial see attached checklist

Follow-Up

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrx	Quantity of samples	Results
None			

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrx	Quantity of Samples
None		

Have required amount of QC trip blanks and rinsates been achieved? **N/A** Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) Yes No

Have QA and QC samples been collected in the specified quantity? **N/A** Yes No

Have samples been properly labeled and packaged? **N/A** Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel Specify corrective action taken)

Safe work practices around operating equipment was discussed at the morning safety meeting. Specifics included the use of one and only one spotter, correct spotter hand signals, and the need for personnel on foot to be cognizant of equipment movement areas was also addressed.

Work Activities Performed This Date

Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Setup Staging Area (NAS ID 0009)	Received approval for use of area south of runway for staging area Rented Cat 966 loader from city Moved 9 empty connexes to staging area	20%	

Manpower and Equipment

Labor Classification	Number	ManHours	Equipment	
			Type	Number
Project Manager			4 wheeler	2
CQC System Manager	1	10	Cat 426 loader	1
Superintendent	1	10	Argo	2
Archeologist			Nodwell	1
Operator	1	10	Pickup	1
Laborers			Cat 966 Loader	
Total Hours				31

Instructions Given by the Government to the Contractor (include names, reactions, and remarks) Verbal Written

QAR NOT ON SITE

Work Progress Are there any Contractor caused delays or potential finding of fact? Yes No

Are there any Government caused delays or potential finding of fact? Yes No

Are there any unforeseeable or weather related delays? Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)

Persons unknown broke into Argos and siphoned gas from four wheelers during the night. No serious damage. Reported problem to Bert, the Village Liaison contractor. Moved two empty connexes to the lodge to use as garages.

CQC and Superintendent noted VASIs at both ends of the runway, as well as AWOS and other nav aids. These nav aids are in debris removal Site 8. Contacted FAA office in Nome for utility locates underground electrical lines providing power to nav aids. Received faxed sketch (attached.)

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)

Continuation Sheet

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *[Signature]* Date 7/12/99

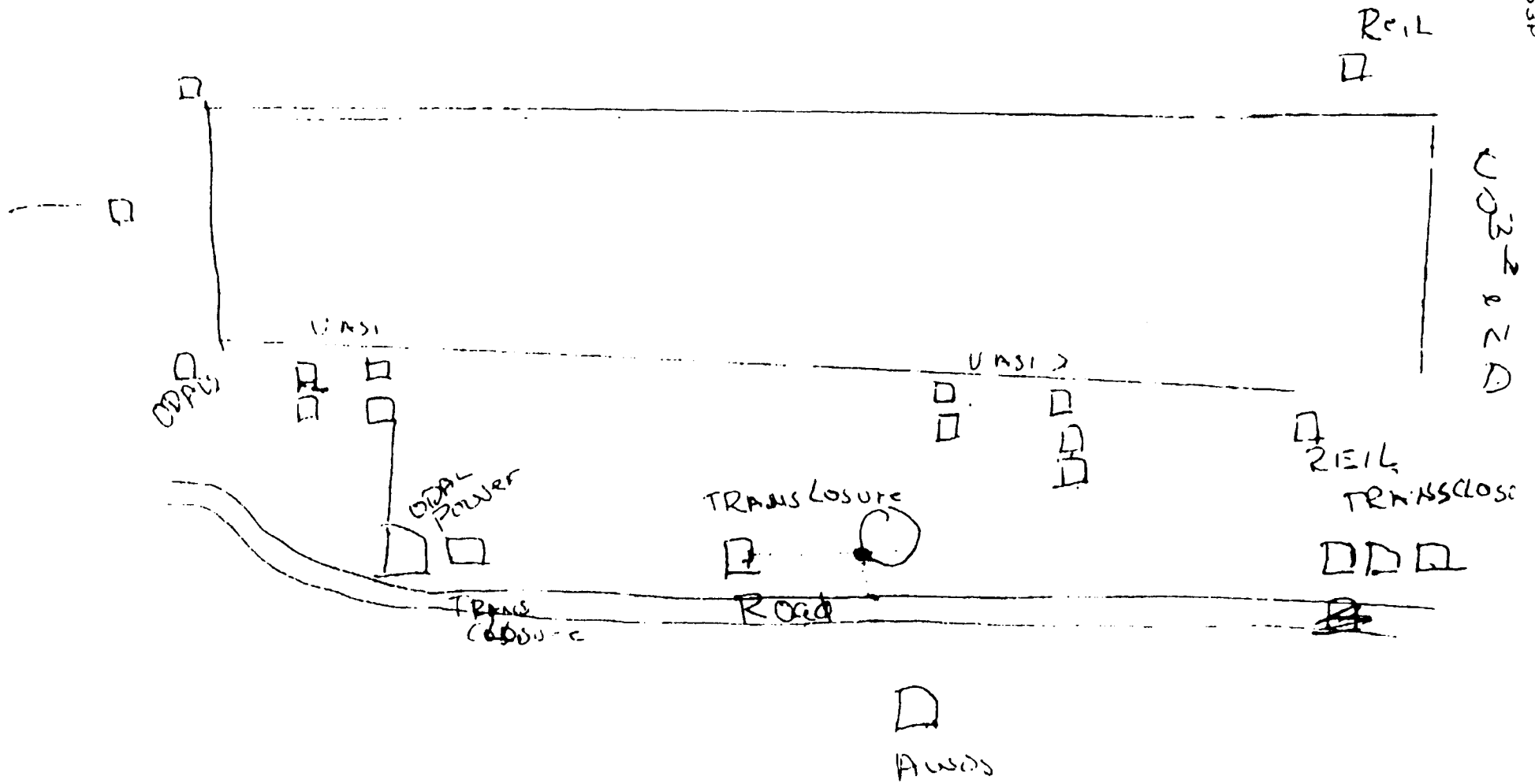
Government Quality Assurance Comments
Concurs with the QC report? Yes No
Additional comments or exceptions:

QAR NOT ON SITE

QAR Signature *[Signature]* Date 7-15-99 Supervisor's Initial _____ Date _____

785-5421

UNITED STATES DISTRICT COURT



Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containertized Hazardous and Toxic Waste Removal	
CQC Report Number 99-008	Date or Time Period 7/12/99	Location and Team Gambell, Alaska	
Weather Conditions Temp Low 39 Temp HI 48		Contractor Oil Spill Consultants, Inc.	
Wind Speed Calm		Conditions Foggy a.m. Sunny pm. Showers evening	

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action)

Preparatory see attached checklist

Initial see attached checklist

Follow-Up

NO INSPECTIONS TODAY

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
None			

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
None		

Have required amount of QC trip blanks and rinsates been achieved? **N/A** Yes No

Have appropriate QC laboratory tests been ordered ? (matrix spikes, method blanks, surrogates, reference standards, etc.) Yes No

Have QA and QC samples been collected in the specified quantity? **N/A** Yes No

Have samples been properly labeled and packaged? **N/A** Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken)

The safety meeting addressed the definition of "Level D" PPE. The needed upgrades discussed included hearing protection for activities where the noise reached a level that would interfere with normal conversation, full face shields during use of cutoff saws and drum washing, and the various types of gloves that would be used for different tasks.

Work Activities Performed This Date

Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Mobilization (NAS ID 0007)	Kelly Ryan barges with missing tool connexes arrived late in the evening. Three containers offloaded and moved to the south staging area.		Mobilization 100%
Setup Staging Area (NAS ID 0009)	moved 8 additional empty connexes from the north landing site to south Staging area. The Cat 980 from the barge was used to moved the previously delivered tool connex from the north landing area to south staging area.		Setup now 60% complete

Manpower and Equipment

Classification	Labor		Equipment		
	Number	ManHours	Type	Number	Hours Used
Project Manager			4 wheeler	2	30
CQC System Manager	1	13	Cat 426 loader	1	0
Superintendent	1	15	Argo	2	4
Archeologist			Nodwell	1	0
Operator	1	15	Pickup	1	0
Laborers			Cat 966 Loader	1	7
	Total Hours				Total Hours
		43			41

Instructions Given by the Government to the Contractor (include names, reactions, and remarks) Verbal Written

QAR NOT ON SITE

Work Progress Are there any Contractor caused delays or potential finding of fact? Yes No

Are there any Government caused delays or potential finding of fact? Yes No

Are there any unforeseeable or weather related delays? Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work)

The Cat 980 Loader from barge used to move previously delivered tool connex from north beach to operating area at south got stuck in the soft gravel in town. The CAT 966 was used to pull the loaded machine out. The incident underscores the difficulty of travel and equipment operating in and around the village.

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)

Continuation Sheet

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above

Quality Control Manager Signature *[Signature]*

Date 7/13/07

Government Quality Assurance Comments

Concurs with the QC report?

Yes No

Additional comments or exceptions

QAR NOT ON SITE

QAR Signature *[Signature]* Date 7-15-07 Supervisor's Initial _____ Date _____

Environmental Quality Control/Quality Assurance Report

(ER 415-4-302)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 79-009	Date or Time Period 7/14/99	Location and Team Gambell, Alaska	
Weather Conditions		Contractor	
Temp Low 43	Temp HI 48	Oil Spill Consultants, Inc.	
Wind Speed 3	Conditions Rain a.m., Clear w/fog p.m.		

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action)

Preparatory see attached checklist

Initial see attached checklist

Follow-Up

Was the deficiency tracking list updated this date? Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
None			

Have Data Quality Objectives been achieved? N/A Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
None		

Have required amount of QC trip blanks and rinsates been achieved? N/A Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) Yes No

Have QA and QC samples been collected in the specified quantity? N/A Yes No

Have samples been properly labeled and packaged? N/A Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The safety meeting covered the requirements for level D PPE. Hard hats, steel-toe boots, and safety glasses were mandatory when ever any persons was "on the clock." The only exceptions were when personnel were on break in designated break areas. Helmets and eye protection were established as mandatory while using ATVs. The prohibition against carrying passengers on four wheelers was also emphasized.

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Setup Staging Area (NAS ID 0009)	Started unpacking tools and setting up shop in the staging area	80% Complete	

Manpower and Equipment					
Labor			Equipment		
Classification	Number	ManHours	Type	Number	Hours Used
Project Manager			4 wheeler	4	8
CQC System Manager	1	11	Cat 426 loader	1	0
Superintendent	1	11	Argo	2	6
Archeologist			Nodwell	1	0
Operator	1	11	Pickup	1	0
Laborers	3	8	Cat 966 Loader	1	2
Total Hours		41	Total Hours		41

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks) Verbal Written

QAR not on site

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No

Are there any Government caused delays or potential finding of fact? Yes No

Are there any unforeseeable or weather related delays? Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

Three laborers from the local-hire crew put on today and two additional operator/laborers arrived late in the day.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *[Signature]* Date *7/15/99*

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)

Continuation Sheet

Government Quality Assurance Comments
Concurs with the QC report?
Additional comments or exceptions.

Yes No

QAR NOT ON SITE

QAR Signature *Steve Jackson* Date 7-15-89 Supervisor's Initial _____ Date _____

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7/4/99 1999 Time: 0915 Briefing Location: Lodges

Activities Planned: Unpack, set up, and sign

Briefer: Steve Kain

Topic: General PPE

Topic: PPE for eye protection

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

H Steve Palmer

Gordon Oozemasek

Daniel Apassingok

Robert Tungayaw

Chuck Heath

Site Health and Safety Officer: [Signature]

Date: 7/4/99 1999

Environmental Quality Control/Quality Assurance Report

(CR 415-1-102)

Contract Number / Delivery Order Number: DACAS-97-D-0010/D.O. 0004		UPC/Project Title: Debris Removal and Containertized Hazardous and Toxic Waste Removal	
CQC Report Number 010	Date or Time Period 7/15/99	Location and Team Gambell, Alaska	
Other Conditions		Contractor	
Temp Low 46	Temp HI 48	Oil Spill Consultants, Inc.	
Wind Speed Calm	Conditions Cloudy a.m. Rain a.m. Clear w/fog p.m.		

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action.)

Preparatory	<input checked="" type="checkbox"/> see attached checklist	Debris Collection (NAS I.d. # 0013) inspection excluded weighing debris
Initial	<input type="checkbox"/> see attached checklist	
Follow-Up	<input type="checkbox"/>	

Was the deficiency tracking list updated this date? Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
NO FIELD TESTING TODAY			

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
NO SAMPLING TODAY		

Have required amount of QC trip blanks and rinsates been achieved?	N/A	Yes <input type="checkbox"/> No <input type="checkbox"/>
Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.)		Yes <input type="checkbox"/> No <input type="checkbox"/>
Have QA and QC samples been collected in the specified quantity?	N/A	Yes <input type="checkbox"/> No <input type="checkbox"/>
Have samples been properly labeled and packaged?	N/A	Yes <input type="checkbox"/> No <input type="checkbox"/>

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The safety meeting stressed four wheeler and Argo safety. The correct PPE for these vehicles as well as techniques for operating them safely was discussed.

er In the day, an overview of the hazards to travel posed by terrain and local traffic was given to personnel who arrived at the site that day. The hazards peculiar to the different areas, village, beach, tundra, and mountain top were discussed in detail.

QAR SAFETY COMMENTS:

ARGO SAFETY TAPE (VIDEO) NOT ON SITE. PRESUMED LOST.

TRAINING SUGGESTED TO MEET SAFETY PLAN. VEHICLES ARE UNIQUE.

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)

Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Setup Staging Area(NAS ID 0009)	Continued to unpack connexes and set up work shop and break areas	80% set up	
Locate Waste Sites(NAS ID 0011)	Toured Sites 10 (the trail system and tundra) and Site 4. (the mountain top) with the QAR CQC, Archeologist, and Contractor's Project Manager	50%	

Manpower and Equipment

Labor Classification	Labor		Equipment Type	Equipment	
	Number	ManHours		Number	Hours Used
Project Manager	1	4	4 wheeler	4	56
CQC System Manager	1	13	Cat 426 loader	1	0
Superintendent	1	15	Argo	2	20
Archeologist	1	4	Nodwell	1	0
Operator	2	26	Pickup	1	1
Laborers	4	44	Cat 966 Loader	1	2
Total Hours:		106	Total Hours:		79

Instructions Given by the Government to the Contractor (include names, reactions, and remarks.)
none. Verbal Written

Work Progress Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

The QAR, Contractor's Project Manager and Project Archeologists arrived on site today. The QAR inspected the work area. In the evening a reconnaissance of Site 10 (the tundra and trail system) and Site 4, (the mountain top) was performed by the QAR, Contractor's Project Manager, the Project Archeologist, and the CQC. Difficult travel conditions were noted with respect to wet tundra and rocks. The Project Archeologist noted a human skull fragment at Site 4B. It was left in place pending further coordination with local government organizations.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *Alvin L. Fox* Date 7/16/99

Government Quality Assurance Comments
 Concur with the QC report? Yes No
 Additional comments or exceptions:

DIFFICULT TRAVEL CONDITIONS WERE EXPECTED ON TUNDRA, AS THIS TYPE OF GROUND IS WET, BY DEFINITION. THE BOULDER FIELD WAS NOT EXPECTED. THE SIZE, ARRANGEMENT, DENSITY MAKE TRAVEL WITHOUT TRAIL PREPARATION AND VEHICLE CONSIDERATIONS IMPOSSIBLE. TUNDRA AND BOULDERS FURTHER IMPEDE TRAVEL TO AREAS 4A, 4B, 4D. USE OF ARGO'S AND TRACKS USED TO COMPLETE THIS WORK. ONLY 2 ARGO'S AND 1 NODWELL (UNINSPECTED) WERE MOBILIZED FOR THIS WORK.

QAR Signature *Steve Tollem* Date 7-18-99 Supervisor's Initial _____ Date _____

INSPECTION CHECKLIST

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Feature of Work: Debris Removal

CLIN: 2

Inspection: Preparatory

Relevant Specifications: SOW 1.3.1, SOW Table 2, 02050, 01130, 01450

Submittals: Work Plan, Health and Safety Plan, Environmental Protection Plan

Inspection Checklist

<u>Item</u>	<u>Yes</u>	<u>No</u>	<u>Not Obsvd</u>
1. Have all required submittals been approved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Have the applicable section of the statement of work and specifications been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Has a safety meeting been held?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Have equipment and tools received a safety inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Has the hazard analysis been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Have PPE requirements for the activity been established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Has the area of work been delineated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Has the scrap to be removed been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Are personnel operating cutting equipment fully trained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have staging areas, haul routes, and collection points been established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have hot work procedures and areas been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Have weighing procedures been established?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13. Has site control been established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Have procedures for cutting, loading, transporting, and off-loading metal debris been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: By Detesterated ^{Points} May be picked up
at the same time, but material must be
Segregated.

into intent is floor surface metal intent is Hazard.
Traffic control plan is required
to reduce

[Signature]
 CQC System Manager

1/15/99
 Date

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7/15/99 1999 Time: _____ Briefing Location: Gambell Lodge

Activities Planned: Mobilization, Site Setup

Briefer: Chuck Heath

Topic: 4 Wheeler Safety

Topic: ARCB safety

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

Bill Blahun
Pat Sgobell
Mike Palmer
Alvin H.
Chuck Heath
Joe G. C.
Don Grind
Pat Tison

Site Health and Safety Officer: [Signature]

Date: 7/15/ 1999

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7/15/ 1999 Time: 1300 Briefing Location: Gambell Lodge

Activities Planned: Initial Site orientation

Briefer: P. Rein

Topic: AIR HAZARD

Topic: RADIO PROCEDURES

Topic: _____

Briefer: C Heath

Topic: ATV OPERATION

Topic: _____

Topic: _____

Attendees

[Signature]
Charles M. Miller
Church Heath
[Signature]
[Signature]
[Signature]

Site Health and Safety Officer: [Signature]

Date: 7/15/99 1999

HOT WORK PERMIT

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Type of Work: CUTTING SHEET IRON

Heat Producing Device: OXYPROPANE TORCH Operator: CUFF BLANKY

Location: WEST BEACH Fire Guard: GORDON

Scheduled Work Date: 7/15/99 Time Start: 1:00PM Time Finished: 6:00PM

The Checklist Below Was Reviewed

Superintendent: Chris Heath Date: 7/15/99 SHSO: [Signature] Date: 7/15

COMPLETE IMMEDIATELY PRIOR TO WORK

Hot Work Checklist

Item	N/A	Yes	No
1. Are all flammables and at least 50 ft away?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Is the operator fully qualified to operate the equipment?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Has the Fire Guard been identified and briefed to observe the area for 1 hour after work is complete?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Has emergency communication procedures been checked?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is and ABC extinguisher present and is it in working order?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Have the tools and equipment been inspected for safety?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Is the correct PPE being worn?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Has the area been checked for flammable or explosive vapors?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Have containers been checked for explosive/ flammable residue or vapors? (drums and tanks)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Are torch hoses purged before lighting (torches only)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Are nozzles and hoses in good repair? (torches only)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMPLETE AFTER WORK

Time Start: 1:00PM Time Finished: 3:30 PM Fire Guard Released: 5:30

Superintendent: C. Heath Date: 7/15/99 SHSO: [Signature] Date: 7/15/99

Environmental Quality Control/Quality Assurance Report

(LR 415.1-302)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 99-011	Date or Time Period 7/16/99	Location and Team Gambell, Alaska	
Weather Conditions		Contractor	
Temp Low 43	Temp HI 48	Oil Spill Consultants, Inc.	
Wind Speed 5-15 Knots	Conditions LT Rain a.m., Cloudy p.m.		

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action)

Preparatory	<input type="checkbox"/> see attached checklist	
Initial	<input checked="" type="checkbox"/> see attached checklist	Debris Removal
Follow-Up	<input type="checkbox"/>	

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
	NO FIELD TESTING TODAY		

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
	NO SAMPLING TODAY	

Have required amount of QC trip blanks and rinsates been achieved?	N/A	Yes <input type="checkbox"/> No <input type="checkbox"/>
Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.)		Yes <input type="checkbox"/> No <input type="checkbox"/>
Have QA and QC samples been collected in the specified quantity?	N/A	Yes <input type="checkbox"/> No <input type="checkbox"/>
Have samples been properly labeled and packaged?	N/A	Yes <input type="checkbox"/> No <input type="checkbox"/>

Health and Safety

Worker protection levels this date Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

Safety meeting covered: Lifting, Argo Operation, General safe work practices

The safety meeting addressed the hazards of operating ATVs in the village. The numerous ATVs driven by local residents often travel at high rates of speed. The lack of defined roads and numerous buildings blocking visibility create a situation requiring extreme attention to the driving environment. A policy of always yielding to local traffic was instituted.

A vehicle safety inspection was performed on project equipment as part of the initial inspection for the debris removal activity. It was noted that emergency equipment had been stolen from the Argos. This deficiency was corrected before midday. Two backup alarms were found inoperative. These were ordered from Nome to arrive the next day.

The QAR pointed out the need for a safety plan to prevent the stockpiles of debris that were being constructed from being a hazard to local ATV users. The need for protective measure for personnel gathering debris along traveled roads also needed to be addressed. The QAR reviewed and approved the plan later in the day. A copy is attached.

The Nodwell was found unfit for service due to numerous problems. The Machine was removed from operations. Later in the day, a mechanic arrived from anchorage and started repairs. The contractor initiated plans to mobilize alternate vehicles.

Special recognition due to Michael Chilberto, a laborer on the project, for developing an expedient gas tank guard design, and implementing modification in the field. This enhanced the safety of field personnel who utilize these vital two vehicles.

QAR SAFETY COMMENTS:

ATV 4 WHEELERS - SINGLE RIDER ONLY WITH CYCLE HELMET, NOT HARBOR

ATV 3 WHEELERS - HARBOR ONLY, NO FALL PROT REQ'D BY MFR.

ALL VEHICLES INSPECTED, ONLY NODWELL REBUILT FOR MECH/SAFETY UNSUITABILITY FOR WORK. LOADER WILL SIT UNTIL B/UP ALARM FIXED,

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)

Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Set up Staging Area(NAS ID 0009)	Lined staging area, moved connexes. Completed this activity today	100%	
Debris Removal (NAS ID 0020, 02050)	Stockpiled metal debris from Area 8 (the runway and west beach area) Specific areas worked include the south overrun of the runway	10% of metal stockpiled none yet weighed	

Manpower and Equipment

Labor			Equipment		
Classification	Number	ManHours	Type	Number	Hours Used
Project Manager	1	13	4 wheeler	3	33
CQC System Manager	1	13	Cat 428 loader	1	0
Superintendent	1	11	Argo	2	22
Archeologist	1	10	Nodwell	1	0
Operator	1	11	Pickup	1	0
Laborers	7	62	Cat 966 Loader	1	2
Total Hours		120	Total Hours		57

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks)
none Verbal Written

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

One additional laborer arrived on project in the afternoon.

Nodwell mechanic arrived initiated repair to correct deficiencies found during initial inspection.

The Project Archeologist coordinated with Native Village of Gambell IRA Council General Manager Deborah Apatiki concerning procedures for disposition of human remains if encountered on the project. He received direction that Sivuqaq Corporation would coordinate actions in this area. He then Initiated coordination with the corporation.

Serialized letter DO4/12 identifying differing site conditions (boulder field Area 4, and wet tundra, Area 10) issued by contractor to Fairbanks Resident Office.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above

Quality Control Manager Signature *[Signature]* Date 7/17/99

Government Quality Assurance Comments

Concurs with the QC report? Yes No
 Additional comments or exceptions:

CONTRACTOR LETTERS TO CUE OFFICE AT FAO FOR RESOLUTION.
 BOULDER FIELD WAS UNANTICIPATED, TUNDRA WAS ADDRESSED IN MOD 402.
 FURTHER THOUGHT NEEDED TO OVERCOME BULDERS. TRAVEL IN THIS
 TERRAIN IS SLOW AND LIMITED TO TRAILS ALTERED WITH NATIVE ROCK
 TO SMOOTH THE HOLES AND DISJECTING ROCK IN TRAIL. WILL TEST VEHICLES
 LATER.

IAF Signature *[Signature]* Date 7-18-99 Supervisor's Initial _____ Date _____

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7-16 1999 Time: 8:00 Briefing Location: INN

Activities Planned: Debris Removal

Briefer: Randy E. Easley

Topic: General Safety Practices

C. Heath

Topic: _____

Topic: Argo Safety

Briefer: P. Rein

Topic: lifting.

Topic: _____

Topic: _____

Attendees

Chuck Heath

Chuck Mabley

STEVE PALMER

Robert Tungujan

Guff Blakeley

of Oil

Steve Clear

Site Health and Safety Officer: Randy E. Easley

Date: _____ 1999

HOT WORK PERMIT

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Type of Work: Torch Cutting

Heat Producing Device Cutting torch Operator: C. Blakely

Location: WEST BEACH SITE Fire Guard: C. Blakely

Scheduled Work Date: 7/16/99 Time Start: 1100PM Time Finished: _____

The Checklist Below Was Reviewed

Superintendent: C. Heath Date: 7/16/99 SHSO: [Signature] Date: 9/16/99

COMPLETE IMMEDIATELY PRIOR TO WORK

Hot Work Checklist

Item	N/A	Yes	No
1. Are all flammables and at least 50 ft away?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Is the operator fully qualified to operate the equipment?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has the Fire Guard been identified and briefed to observe the area for 1 hour after work is complete?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Has emergency communication procedures been checked?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is and ABC extinguisher present and is it in working order?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Have the tools and equipment been inspected for safety?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Is the correct PPE being worn?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Has the area been checked for flammable or explosive vapors?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Have containers been checked for explosive/ flammable residue or vapors? (drums and tanks)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Are torch hoses purged before lighting (torches only)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Are nozzles and hoses in good repair? (torches only)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMPLETE AFTER WORK

Time Start: None Time Finished: None Fire Guard Released: [Signature] N/A

Superintendent: [Signature] Date: 9/17/99 SHSO: _____ Date: _____

LOCAL RESIDENT HAZARD ABETEMENT PLAN FOR DEBRIS REMOVAL

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Type of Work: Collecting metal debris and Construction Debris Stockpiles

Hazard Description: Stockpiles of Metal create a potential hazard to area residents travelling on ATS, especially in low visibility. Some work areas are adjacent to heavily traveled roads. Stockpiles adjacent to the road may create a hazard to ATV traffic. ATV traffic may be a hazard to work crews collecting and handling debris.

Stockpile Precautions

The site for each proposed stockpile will be inspected for traffic hazards prior to construction.

No stockpiles will be constructed on ATV trails or within 10 yards of a regularly traveled trails.

All stockpiles will be at least four feet high to provide a visible silhouette above adjacent terrain.

Stockpiles shall be marked by four evenly spaced stakes minimum, of 2.5 ft above terrain minimum, with orange or yellow flagging 2 ft. long minimum, one stake placed at each corner.

Drums, planking, signage, or metal planking may be utilized as a suitable as outer warning markers along the axis of travel if heavily flagged or painted with fluorescent marker paint.

Precautions for heavily Traveled Areas.

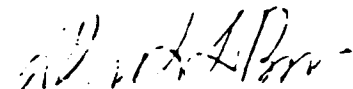
In areas adjacent to regularly traveled roads the following precautions will be implemented in addition to the above.

A warning sign will be staked on the road edge, 50 yards from the road in either direction from the nearest area of work activity or stockpile.

Personnel working within 10 yards of the road will wear fluorescent visibility vests.

Personnel will be especially briefed of the hazards of passing traffic.

Oil Spill Consultants, Inc.



David L. Rein
Project Engineer

INSPECTION CHECKLIST

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Feature of Work: Debris Removal

CLIN: 2

Inspection: Initial

Relevant Specifications: SOW 1.3.1, SOW Table 2, 02050, 01130, 01450

Submittals: Work Plan, Health and Safety Plan, Environmental Protection Plan

Inspection Checklist

<u>Item</u>	<u>Yes</u>	<u>Not</u>	<u>Obsrvd</u>
1. Is the proper PPE being worn?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is the work being conducted a safe manner?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Is metal scrap being removed to a sufficient depth?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Are haul routes being maintained in a manner safe for vehicles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Are appropriate lifting and tie-down methods being used?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Are excavated areas being restored?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Are personnel on foot cognizant of vehicle haul routes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Are loads being numbered and recorder as to the area originated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. Are all flammable materials kept away from hot work areas.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Is refueling of saws and equipment performed in a lined area.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Is metal scrap free of dirt, wood, and other foreign matter prior to weighing.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. Is debris being weighed and weights recorded against the correct ledger?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

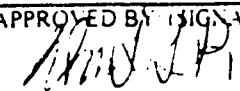
Comments: - Parts potted Required for work area.
 - Need fire → asbestos hazard created to located ATF truck by stockpiled Debris
 - Vehicle / Equipment inspection
 - Area red lined, Cat 426 & 966 need backup alarms

Paul D. [Signature]
 CQC System Manager

7/16
 Date

SAFETY INSPECTION CHECKLIST FOR CONSTRUCTION EQUIPMENT					
CONTRACTOR: <i>OIL SPILL CONSULTANTS</i>		CONTRACT NUMBER: <i>VIC 301 02-07.000-1/21</i>			
TYPE OF EQUIPMENT: <i>YAMAHA 4 WHEELER COV</i>	EQUIPMENT NUMBER: <i>#4</i>	DATE OF INSPECTION: <i>7/15/99</i>			
CORPS OF ENGINEERS SAFETY AND HEALTH REQUIREMENTS MANUAL. EM 385-1-1. REVISION 92. REFERENCES ARE IN PARENTHESES.					
INDICATE ANSWERS BY PLACING "X" IN PROPER COLUMN.			YES	NO	N/A
MOTOR VEHICLES:					
NO MOTOR VEHICLE SHALL BE PLACED IN SERVICE UNTIL IT HAS BEEN INSPECTED BY A MECHANIC AND FOUND TO BE IN SAFE OPERATING CONDITION					
1	Vehicle has been checked to insure that the equipment and accessories are in safe operating conditions and free of apparent damage that could cause failure while in use. (18.A.02)(c)	<input checked="" type="checkbox"/>			
2	Lights: (18.A.04) All vehicles or combination of vehicles operated between the sunset and sunrise shall have the following lights: a. Two headlights, one on each side of the front; b. At least one red taillight and one red or amber stoplight on each side of the rear; c. Directional signal lights - both front and back; and d. Three emergency flares, reflective markers, or equivalent portable warning device.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Brake system: (18.A.05) Service brakes and manually-operated parking brakes				
4	Each vehicle shall have, in working order: (18.A.06) a. A speedometer b. Fuel gage c. An audible warning device (horn and or backup alarm) d. A windshield equipped with an adequate windshield wiper e. Defrosting and defogging device f. Adequate rear view mirror or mirrors g. Cabs, cab shields, and other protection to protect the driver from the elements and falling or shifting materials h. Nonslip surfaces on steps i. A power-operated starting device	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Glass: (18.A.07) Is windshield, windows, and doors safety glass? Any cracked or broken glass shall be replaced.				
6	Trailers: (18.A.08) a. Structurally adequate for the weight drawn? b. Locking device or double safety system provided and working? c. Safety chains and or cables? d. Trailers with power brakes equipped with break-away device which will effectively lock-up brakes in event of separation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Dump trucks: (18.A.10) a. Equipped with a holding device to prevent to prevent accidental lowering of body during maintenance or inspection? b. Hoist levers can be secured to prevent accidental starting or tripping?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Emergency equipment: (18.A.11) Minimum for vehicles of 11 2 ton or over operated on public highways shall be what is required by state law but not less than: a. One red flag not less than 12" square with standard and three reflective markers b. Two wheel chocks or each unit or a combination of vehicles c. At least one 2A:10B:C fire extinguisher (two properly rated for flammable cargoes)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
REMARKS (USE REVERSE SIDE IF NECESSARY)					
INSPECTED AND CERTIFIED BY (SIGNATURE OF MECHANIC) <i>C. Heath</i>			APPROVED BY: (SIGNATURE OF COMPANY OFFICIAL) <i>[Signature]</i>		

Y 600-1

MACHINERY AND MECHANICAL EQUIPMENT:			
NO MACHINERY OR MECHANICAL EQUIPMENT SHALL BE PLACED IN SERVICE UNTIL IT HAS BEEN INSPECTED AND TESTED BY A COMPETENT PERSON AND CERTIFIED TO BE IN SAFE OPERATING CONDITION.			
INDICATE ANSWERS BY PLACING "X" IN PROPER COLUMN.			
	YES	NO	✓
1. Equipment requirements: (16.A.07)			
a. Seats or equal protection provided for each person required to ride equipment	X	—	—
b. When operated on the highway, headlights, taillights, brake lights, backup lights, and turn signals visible from front and rear must be provided	—	—	X
c. With windshields, shall be equipped with power wiper and defogging/defrosting devices	—	X	—
d. Service brake system, parking brake system, and emergency (manually operated from driver's position)	—	X	—
e. At a minimum, one dry chemical or carbon-dioxide fire extinguisher with a rating of 5-B:C (tagged, charged, and ready for use)	—	X	—
2. Reverse signal (BACK-UP) alarms (16.B.01)			
3. Guarding (16.B.03) is required for the following:			
a. All belts, gears, shafts, pulleys, sprockets, spindles, drums, flywheels, chains, or other reciprocating, rotating, or moving parts of equipment	X	—	—
b. Hot surfaces including exhaust pipes or other lines	X	—	X
c. Charging skip shall be provided with guards on both sides and open ends of skip area	—	—	X
d. Platforms, catwalks, steps, handholds	—	—	X
4. Fuel tanks located not to allow spills or overflows to run onto engine, exhaust, or electrical equipment (16.B.04)	X		
5. Exhaust or discharges do not endanger workmen or obstruct view of operator (16.B.05)	X		
6. Seatbelts comply with 49CFR 571 (16.B.08)			X
7. Falling object protective structures (FOPS) (16.B.11) (a through c)			X
8. Rollover protective structures (ROPS) (16.B.12) (a through g)			X
9. Is glass installed in operator's compartment safety glass? (16.B.10)			X
10. Points requiring lubrication during operation shall have fittings so located or guarded to be accessible without hazardous exposure. (16.B.13)	X		
11. Whenever long-bed end-dump trailers are used: (16.B.15) provide a roll-over warning device: the device shall have a continuous monitoring display at the operator station to provide the operator with a quick and easily-read indicator and audible warning of an unsafe condition.			X
REMARKS: (USE REVERSE SIDE IF NECESSARY)			
INSPECTED AND CERTIFIED BY: (SIGNATURE OF MECHANIC)		APPROVED BY: (SIGNATURE OF COMPANY OFFICIAL)	
			

SAFETY INSPECTION CHECKLIST FOR CONSTRUCTION EQUIPMENT

CONTRACTOR: OIL SPILL CONSULTANTS	CONTRACT NUMBER: DACA 85-97-PCD/004
TYPE OF EQUIPMENT: YAMAHA 4 WHEELER - 600	EQUIPMENT NUMBER: # 3
DATE OF INSPECTION: 7/15/99	
CORPS OF ENGINEERS SAFETY AND HEALTH REQUIREMENTS MANUAL, EM 385-1-1, REVISION 92. REFERENCES ARE IN PARENTHESES.	

INDICATE ANSWERS BY PLACING "X" IN PROPER COLUMN. YES NO N/A

MOTOR VEHICLES:

NO MOTOR VEHICLE SHALL BE PLACED IN SERVICE UNTIL IT HAS BEEN INSPECTED BY A MECHANIC AND FOUND TO BE IN SAFE OPERATING CONDITION

1. Vehicle has been checked to insure that the equipment and accessories are in safe operating conditions and free of apparent damage that could cause failure while in use. (18.A.02)(c)	X		
2. Lights: (18.A.04) All vehicles or combination of vehicles operated between the sunset and sunrise shall have the following lights: a. Two headlights, one on each side of the front; b. At least one red taillight and one red or amber spotlight on each side of the rear; c. Directional signal lights - both front and back; and d. Three emergency flares, reflective markers, or equivalent portable warning device.	X — — —	— — —	— X X X
3. Brake system: (18.A.05) Service brakes and manually-operated parking brakes			
4. Each vehicle shall have, in working order: (18.A.06) a. A speedometer b. Fuel gage c. An audible warning device (horn and or backup alarm) d. A windshield equipped with an adequate windshield wiper e. Defrosting and defogging device f. Adequate rear view mirror or mirrors g. Cabs, cab shields, and other protection to protect the driver from the elements and falling or shifting materials h. Nonslip surfaces on steps i. A power-operated starting device	X X — — — — — — — —	— — — — — — — — — —	— — — X X X X X X X —
5. Glass: (18.A.07) Is windshield, windows, and doors safety glass? Any cracked or broken glass shall be replaced.			X
6. Trailers: (18.A.08) a. Structurally adequate for the weight drawn? b. Locking device or double safety system provided and working? c. Safety chains and or cables? d. Trailers with power brakes equipped with break-away device which will effectively lock-up brakes in event of separation?	X — — — —	— — — —	— X X X X
7. Dump trucks: (18.A.10) a. Equipped with a holding device to prevent to prevent accidental lowering of body during maintenance or inspection? b. Hoist levers can be secured to prevent accidental starting or tripping?	— —	— —	— —
8. Emergency equipment: (18.A.11) Minimum for vehicles of 1 1/2 ton or over operated on public highways shall be what is required by state law but not less than: a. One red flag not less than 12" square with standard and three reflective markers b. Two wheel chocks or each unit of a combination of vehicles c. At least one 2A:10B:C fire extinguisher (two properly rated for flammable cargoes)	— — —	— — —	— X X

REMARKS: (USE REVERSE SIDE IF NECESSARY)

INSPECTED AND CERTIFIED BY: (SIGNATURE OF MECHANIC) C. Heath	APPROVED BY: (SIGNATURE OF COMPANY OFFICIAL) Adrian J. M...
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4 C.02 #3

MACHINERY AND MECHANICAL EQUIPMENT:			
NO MACHINERY OR MECHANICAL EQUIPMENT SHALL BE PLACED IN SERVICE UNTIL IT HAS BEEN INSPECTED AND TESTED BY A COMPETENT PERSON AND CERTIFIED TO BE IN SAFE OPERATING CONDITION			
INDICATE ANSWERS BY PLACING "X" IN PROPER COLUMN.	YES	NO	N/A
1. Equipment requirements: (16.A.07) a. Seats or equal protection provided for each person required to ride equipment b. When operated on the highway, headlights, taillights, brake lights, backup lights, and turn signals visible from front and rear must be provided c. With windshields: shall be equipped with power wiper and defogging/defrosting devices d. Service brake system, parking brake system, and emergency (manually operated from driver's position) e. At a minimum, one dry chemical or carbon-dioxide fire extinguisher with a rating of 5-B:C (tagged, charged, and ready for use)	X	—	—
2. Reverse signal (BACK-UP) alarms (16.B.01)	—	—	—
3. Guarding (16.B.03) is required for the following: a. All belts, gears, shafts, pulleys, sprockets, spindles, drums, flywheels, chains, or other reciprocating, rotating, or moving parts of equipment b. Hot surfaces including exhaust pipes or other lines c. Charging skip shall be provided with guards on both sides and open ends of skip area d. Platforms, catwalks, steps, handholds	X	—	—
4. Fuel tanks located not to allow spills or overflows to run onto engine, exhaust, or electrical equipment (16.B.04)	X	—	—
5. Exhaust or discharges do not endanger workmen or obstruct view of operator (16.B.05)	X	—	—
6. Seatbelts comply with 49CFR 571 (16.B.08)	—	—	X
7. Falling object protective structures (FOPS) (16.B.11) (a through c)	—	—	X
8. Rollover protective structures (ROPS) (16.B.12) (a through g)	—	—	X
9. Is glass installed in operator's compartment safety glass? (16.B.10)	—	—	—
10. Points requiring lubrication during operation shall have fittings so located or guarded to be accessible without hazardous exposure. (16.B.13)	X	—	—
11. Whenever long-bed end-dump trailers are used: (16.B.15) provide a roll-over warning device: the device shall have a continuous monitoring display at the operator station to provide the operator with a quick and easily-read indicator and audible warning of an unsafe condition.	—	—	X
REMARKS: (USE REVERSE SIDE IF NECESSARY)			
INSPECTED AND CERTIFIED BY: (SIGNATURE OF MECHANIC)		APPROVED BY: (SIGNATURE OF COMPANY OFFICIAL)	

Y-0092

SAFETY INSPECTION CHECKLIST FOR CONSTRUCTION EQUIPMENT					
CONTRACTOR: OIL SPILL CONSULTANTS		CONTRACT NUMBER: DLR 85A7-D-0010/04			
TYPE OF EQUIPMENT: YAMAHA 4 WHEELER - 400	EQUIPMENT NUMBER: # 2	DATE OF INSPECTION: 7/15/99			
CORPS OF ENGINEERS SAFETY AND HEALTH REQUIREMENTS MANUAL, EM 385-1-1, REVISION 92. REFERENCES ARE IN PARENTHESES.					
INDICATE ANSWERS BY PLACING "X" IN PROPER COLUMN.			YES	NO	N/A
MOTOR VEHICLES:					
NO MOTOR VEHICLE SHALL BE PLACED IN SERVICE UNTIL IT HAS BEEN INSPECTED BY A MECHANIC AND FOUND TO BE IN SAFE OPERATING CONDITION					
1. Vehicle has been checked to insure that the equipment and accessories are in safe operating conditions and free of apparent damage that could cause failure while in use. (18.A.02)(c)	<input checked="" type="checkbox"/>				
2. Lights: (18.A.04) All vehicles or combination of vehicles operated between the sunset and sunrise shall have the following lights: a. Two headlights, one on each side of the front; b. At least one red taillight and one red or amber stoplight on each side of the rear; c. Directional signal lights - both front and back; and d. Three emergency flares, reflective markers, or equivalent portable warning device.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
3. Brake system: (18.A.05) Service brakes and manually-operated parking brakes					
4. Each vehicle shall have, in working order: (18.A.06) a. A speedometer b. Fuel gage c. An audible warning device (horn and or backup alarm) d. A windshield equipped with an adequate windshield wiper e. Defrosting and defogging device f. Adequate rear view mirror or mirrors g. Cabs, cab shields, and other protection to protect the driver from the elements and falling or shifting materials h. Nonslip surfaces on steps i. A power-operated starting device	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
5. Glass: (18.A.07) Is windshield, windows, and doors safety glass? Any cracked or broken glass shall be replaced.					<input checked="" type="checkbox"/>
6. Trailers: (18.A.08) a. Structurally adequate for the weight drawn? b. Locking device or double safety system provided and working? c. Safety chains and or cables? d. Trailers with power brakes equipped with break-away device which will effectively lock-up brakes in event of separation?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
7. Dump trucks: (18.A.10) a. Equipped with a holding device to prevent to prevent accidental lowering of body during maintenance or inspection? b. Hoist levers can be secured to prevent accidental starting or tripping?					<input checked="" type="checkbox"/>
8. Emergency equipment: (18.A.11) Minimum for vehicles or 112 ton or over operated on public highways, shall be what is required by state law but not less than: a. One red flag not less than 12" square with standard and three reflective markers b. Two wheel chocks or each unit of a combination of vehicles c. At least one 2A:10B:C fire extinguisher (two properly rated for flammable cargoes)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
REMARKS: (USE REVERSE SIDE IF NECESSARY)					
INSPECTED AND CERTIFIED BY: (SIGNATURE OF MECHANIC)			APPROVED BY: (SIGNATURE OF COMPANY OFFICIAL)		
<i>C. Heath</i>			<i>[Signature]</i>		

YUO-2

MACHINERY AND MECHANICAL EQUIPMENT:			
NO MACHINERY OR MECHANICAL EQUIPMENT SHALL BE PLACED IN SERVICE UNTIL IT HAS BEEN INSPECTED AND TESTED BY A COMPETENT PERSON AND CERTIFIED TO BE IN SAFE OPERATING CONDITION			
INDICATE ANSWERS BY PLACING "X" IN PROPER COLUMN.	YES	NO	N/A
1. Equipment requirements: (16.A.07)			
a. Seats or equal protection provided for each person required to ride equipment	✓	—	—
b. When operated on the highway, headlights, taillights, brake lights, backup lights, and turn signals visible from front and rear must be provided	—	—	✓
c. With windshields: shall be equipped with power wiper and defogging/defrosting devices	—	—	✓
d. Service brake system, parking brake system, and emergency (manually operated from driver's position)	✓	—	—
e. At a minimum, one dry chemical or carbon-dioxide fire extinguisher with a rating of 5-B:C (tagged, charged, and ready for use)	—	—	✓
2. Reverse signal (BACK-UP) alarms (16.B.01)			
3. Guarding (16.B.03) is required for the following:			
a. All belts, gears, shafts, pulleys, sprockets, spindles, drums, flywheels, chains, or other reciprocating, rotating, or moving parts of equipment	✓	—	—
b. Hot surfaces including exhaust pipes or other lines	✓	—	—
c. Charging skip shall be provided with guards on both sides and open ends of skip area	✓	—	—
d. Platforms, catwalks, steps, handholds			✓
4. Fuel tanks located not to allow spills or overflows to run onto engine, exhaust, or electrical equipment (16.B.04)	✓		
5. Exhaust or discharges do not endanger workmen or obstruct view of operator (16.B.05)	✓		
6. Seatbelts comply with 49CFR 571 (16.B.08)			✓
7. Falling object protective structures (FOPS) (16.B.11) (a through c)			✓
8. Rollover protective structures (ROPS) (16.B.12) (a through g)			✓
9. Is glass installed in operator's compartment safety glass? (16.B.10)			✓
10. Points requiring lubrication during operation shall have fittings so located or guarded to be accessible without hazardous exposure. (16.B.13)	✓		
11. Whenever long-bed end-dump trailers are used: (16.B.15) provide a roll-over warning device: the device shall have a continuous monitoring display at the operator station to provide the operator with a quick and easily-read indicator and audible warning of an unsafe condition.			✓
REMARKS: (USE REVERSE SIDE IF NECESSARY)			
INSPECTED AND CERTIFIED BY: (SIGNATURE OF MECHANIC)		APPROVED BY: (SIGNATURE OF COMPANY OFFICIAL)	

SAFETY INSPECTION CHECKLIST FOR CONSTRUCTION EQUIPMENT					
CONTRACTOR <i>Oil Spill Consultants</i>		CONTRACT NUMBER. <i>DPA 85-77-CAS/DRW</i>			
TYPE OF EQUIPMENT <i>YAMAHA 4 WHEELER-400</i>	EQUIPMENT NUMBER. <i>#1</i>	DATE OF INSPECTION: <i>7/14/99</i>			
CORPS OF ENGINEERS SAFETY AND HEALTH REQUIREMENTS MANUAL, EM 385-1-1, REVISION 92. REFERENCES ARE IN PARENTHESES					
INDICATE ANSWERS BY PLACING "X" IN PROPER COLUMN.			YES	NO	N/A
MOTOR VEHICLES.					
NO MOTOR VEHICLE SHALL BE PLACED IN SERVICE UNTIL IT HAS BEEN INSPECTED BY A MECHANIC AND FOUND TO BE IN SAFE OPERATING CONDITION					
1. Vehicle has been checked to insure that the equipment and accessories are in safe operating conditions and free of apparent damage that could cause failure while in use. (18.A.02)(c)	X				
2. Lights: (18.A.04) All vehicles or combination of vehicles operated between the sunset and sunrise shall have the following lights:	X				
a. Two headlights, one on each side of the front;	|	|	|	|	|
b. At least one red taillight and one red or amber stoplight on each side of the rear;	|	|	|	|	|
c. Directional signal lights - both front and back; and	|	|	|	|	|
d. Three emergency flares, reflective markers, or equivalent portable warning device.	|	|	|	|	|
3. Brake system: (18.A.05) Service brakes and manually-operated parking brakes					
4. Each vehicle shall have, in working order: (18.A.06)	X				
a. A speedometer	|	|	|	|	|
b. Fuel gage	|	|	|	|	|
c. An audible warning device (horn and/or backup alarm)	|	|	|	|	|
d. A windshield equipped with an adequate windshield wiper	|	|	|	|	|
e. Defrosting and defogging device	|	|	|	|	|
f. Adequate rear view mirror or mirrors	|	|	|	|	|
g. Cabs, cap shields, and other protection to protect the driver from the elements and falling or shifting materials	|	|	|	|	|
h. Nonslip surfaces on steps	|	|	|	|	|
i. A power-operated starting device	|	|	|	|	|
5. Glass: (18.A.07) Is windshield, windows, and doors safety glass? Any cracked or broken glass shall be replaced.					F
6. Trailers: (18.A.08)	X				
a. Structurally adequate for the weight drawn?	|	|	|	|	|
b. Locking device or double safety system provided and working?	|	|	|	|	|
c. Safety chains and/or cables?	|	|	|	|	|
d. Trailers with power brakes equipped with break-away device which will effectively lock-up brakes in event of separation?	|	|	|	|	|
7. Dump trucks: (18.A.10)					
a. Equipped with a holding device to prevent to prevent accidental lowering of body during maintenance or inspection?	|	|	|	|	|
b. Hoist levers can be secured to prevent accidental starting or tripping?	|	|	|	|	|
8. Emergency equipment: (18.A.11) Minimum for vehicles of 1 1/2 ton or over operated on public highways shall be what is required by state law but not less than:					
a. One red flag not less than 12" square with standard and three reflective markers	|	|	|	|	|
b. Two wheel chocks on each unit of a combination of vehicles	|	|	|	|	|
c. At least one 2A, 10B, C fire extinguisher (two properly rated for flammable cargoes)	|	|	|	|	|
REMARKS: (USE REVERSE SIDE IF NECESSARY)					
INSPECTED AND CERTIFIED BY (SIGNATURE OF MECHANIC)			APPROVED BY (SIGNATURE OF COMPANY OFFICIAL)		
<i>C. Heath</i>			<i>W. A. M.</i>		

MACHINERY AND MECHANICAL EQUIPMENT:

NO MACHINERY OR MECHANICAL EQUIPMENT SHALL BE PLACED IN SERVICE UNTIL IT HAS BEEN INSPECTED AND TESTED BY A COMPETENT PERSON AND CERTIFIED TO BE IN SAFE OPERATING CONDITION

INDICATE ANSWERS BY PLACING "X" IN PROPER COLUMN.		YES	NO	N/A
1. Equipment requirements: (16.A.07)				
a. Seats or equal protection provided for each person required to ride equipment	✓	—	—	—
b. When operated on the highway, headlights, taillights, brake lights, backup lights, and turn signals visible from front and rear must be provided	—	—	—	✓
c. With windshields, shall be equipped with power wiper and defogging/defrosting devices	✓	—	—	✓
d. Service brake system, parking brake system, and emergency (manually operated from driver's position)	—	—	—	✓
e. At a minimum, one dry chemical or carbon-dioxide fire extinguisher with a rating of 5-B C (tagged, charged, and ready for use)	—	—	—	✓
2. Reverse signal (BACK-UP) alarms (16.B.01)				
3. Guarding (16.B.03) is required for the following:				
a. All belts, gears, shafts, pulleys, sprockets, spindles, drums, flywheels, chains, or other reciprocating, rotating, or moving parts of equipment	✓	—	—	—
b. Hot surfaces including exhaust pipes or other lines	✓	—	—	—
c. Charging skid shall be provided with guards on both sides and open ends of skid area	✓	—	—	—
d. Platforms, catwalks, steps, handholds	—	—	—	✓
4. Fuel tanks located not to allow spills or overflows to run onto engine, exhaust, or electrical equipment (16.B.04)	✓	—	—	—
5. Exhaust or discharges do not endanger workmen or obstruct view of operator (16.B.05)	✓	—	—	—
6. Seatbelts comply with 49CFR 571 (16.B.08)				✓
7. Falling object protective structures (FOPS) (16.B.11) (a through c)				✓
8. Rollover protective structures (ROPS) (16.B.12) (a through g)				✓
9. Is glass installed in operator's compartment safety glass? (16.B.10)				✓
10. Points requiring lubrication during operation shall have fittings so located or guarded to be accessible without hazardous exposure (16.B.13)	✓	—	—	—
11. Whenever long-lead end-dump trailers are used, (16.B.15) provide a roll-over warning device; the device shall have a continuous monitoring display at the operator station to provide the operator with a quick and easily-read indicator and audible warning of an unsafe condition.				✓

REMARKS: (USE REVERSE SIDE IF NECESSARY)

INSPECTED AND CERTIFIED BY (SIGNATURE OF MECHANIC)

APPROVED BY (SIGNATURE OF COMPANY OFFICIAL)

SAFETY INSPECTION CHECKLIST FOR CONSTRUCTION EQUIPMENT

CONTRACTOR: <i>OIL SPILL CONSULTANTS</i>	CONTRACT NUMBER: <i>DHCA 85-77 2-0010/034</i>
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TYPE OF EQUIPMENT: <i>ARGO #2</i>	EQUIPMENT NUMBER: <i>#2</i>	DATE OF INSPECTION: <i>7/15/99</i>
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CORPUS OF ENGINEERS SAFETY AND HEALTH REQUIREMENTS MANUAL, EM 585-1-1, REVISION 92.
 REFERENCES ARE IN PARENTHESES

INDICATE ANSWERS BY PLACING "X" IN PROPER COLUMN. YES | NO | N/A

MOTOR VEHICLES:			
NO MOTOR VEHICLE SHALL BE PLACED IN SERVICE UNTIL IT HAS BEEN INSPECTED BY A MECHANIC AND FOUND TO BE IN SAFE OPERATING CONDITION			
1. Vehicle has been checked to insure that the equipment and accessories are in safe operating conditions and free of apparent damage that could cause failure while in use. (18.A.02)(c)	<input checked="" type="checkbox"/>		
2. Lights: (18.A.04) All vehicles or combination of vehicles operated between the sunset and sunrise shall have the following lights: a. Two headlights, one on each side of the front; b. At least one red taillight and one red or amber stoplight on each side of the rear; c. Directional signal lights - both front and back; and d. Three emergency flares, reflective markers, or equivalent portable warning device.	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
3. Brake system: (18.A.05) Service brakes and manually-operated parking brakes			
4. Each vehicle shall have, in working order: (18.A.06) a. A speedometer b. Fuel gage c. An audible warning device (horn and or backup alarm) d. A windshield equipped with an adequate windshield wiper e. Defrosting and defogging device f. Adequate rear view mirror or mirrors g. Cabs, cab shields, and other protection to protect the driver from the elements and falling or shifting materials h. Nonslip surfaces on steps i. A power-operated starting device	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
5. Glass: (18.A.07) Is windshield, windows, and doors safety glass? Any cracked or broken glass shall be replaced.	<input checked="" type="checkbox"/>		
6. Trailers: (18.A.08) a. Structurally adequate for the weight drawn? b. Locking device or double safety system provided and working? c. Safety chains and or cables? d. Trailers with power brakes equipped with break-away device which will effectively lock-up brakes in event of separation?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
7. Dump trucks: (18.A.10) a. Equipped with a holding device to prevent to prevent accidental lowering of body during maintenance or inspection? b. Hoist levers can be secured to prevent accidental starting or tripping?	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
8. Emergency equipment: (18.A.11) Minimum for vehicles of 11,200 or over operated on public highways shall be what is required by state law but not less than: a. One red flag not less than 12" square with standard and three reflective markers b. Two wheel chocks or each unit of a combination of vehicles c. At least one 2A:10B C fire extinguisher (two properly rated for flammable cargoes)	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

REMARKS (USE REVERSE SIDE IF NECESSARY)

INSPECTED AND CERTIFIED BY (SIGNATURE OF MECHANIC) <i>C. Hoett</i>	APPROVED BY (SIGNATURE OF COMPANY OFFICIAL) <i>[Signature]</i>
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ARAG 2

MACHINERY AND MECHANICAL EQUIPMENT:			
NO MACHINERY OR MECHANICAL EQUIPMENT SHALL BE PLACED IN SERVICE UNTIL IT HAS BEEN INSPECTED AND TESTED BY A COMPETENT PERSON AND CERTIFIED TO BE IN SAFE OPERATING CONDITION			
INDICATE ANSWERS BY PLACING "X" IN PROPER COLUMN			
	YES	NO	NA
1. Equipment requirements. (16.A.07)			
a. Seats or equal protection provided for each person required to use equipment	X	—	—
b. When operated on the highway, headlights, taillights, brake lights, backup lights, and turn signals visible from front and rear must be provided	X	—	—
c. With windshields, shall be equipped with power wiper and defogging/defrosting devices	X	—	—
d. Service brake system, parking brake system, and emergency (manually operated from driver's position)	—	X	—
e. At a minimum, one dry chemical or carbon-dioxide fire extinguisher with a rating of 5-B:C (tagged, charged, and ready for use)	X	—	—
2. Reverse signal (BACK-UP) alarms (16.B.01)			
3. Guarding (16.B.03) is required for the following:			
a. All belts, gears, shafts, pulleys, sprockets, spindles, drums, flywheels, chains, or other reciprocating, rotating, or moving parts of equipment	X	—	—
b. Hot surfaces including exhaust pipes or other lines	—	X	—
c. Charging skip shall be provided with guards on both sides and open ends of skip area	—	—	X
d. Platforms, catwalks, steps, handholds	—	—	X
4. Fuel tanks located not to allow spills or overflows to run onto engine, exhaust, or electrical equipment (16.B.04)	X		
5. Exhaust or discharges do not endanger workmen or obstruct view of operator (16.B.05)	X		
6. Seatbelts comply with 49CFR 571 (16.B.08)		X	
7. Falling object protective structures (FOPS) (16.B.11) (a through c)	X		
8. Rollover protective structures (ROPS) (16.B.12) (a through g)	X		
9. Is glass installed in operator's compartment safety glass? (16.B.10)	X		
10. Points requiring lubrication during operation shall have fittings so located or guarded to be accessible without hazardous exposure (16.B.13)	X		
11. Whenever long-bed end-dump trailers are used, (16.B.15) provide a roll-over warning device; the device shall have a continuous monitoring display at the operator station to provide the operator with a quick and easily-read indicator and audible warning of an unsafe condition.			X
REMARKS: (USE REVERSE SIDE IF NECESSARY)			
INSPECTED AND CERTIFIED BY (SIGNATURE OF MECHANIC)		APPROVED BY (SIGNATURE OF COMPANY OFFICIAL)	

SAFETY INSPECTION CHECKLIST FOR CONSTRUCTION EQUIPMENT					
CONTRACTOR: <i>OIL SPILL CONSULTANTS</i>		CONTRACT NUMBER: <i>DACA 85-97 D-CALC/PCD</i>			
TYPE OF EQUIPMENT: <i>ARGO II</i>	EQUIPMENT NUMBER: <i>#1</i>	DATE OF INSPECTION: <i>7/15/99</i>			
CORPS OF ENGINEERS SAFETY AND HEALTH REQUIREMENTS MANUAL, EM 385-1-1, REVISION 92. REFERENCES ARE IN PARENTHESES.					
INDICATE ANSWERS BY PLACING "X" IN PROPER COLUMN.			YES	NO	N/A
MOTOR VEHICLES.					
1. MOTOR VEHICLE SHALL BE PLACED IN SERVICE UNTIL IT HAS BEEN INSPECTED BY A MECHANIC AND FOUND TO BE IN SAFE OPERATING CONDITION					
1. Vehicle has been checked to insure that the equipment and accessories are in safe operating conditions and free of apparent damage that could cause failure while in use. (18.A.02)(c)					
2. Lights: (18.A.04) All vehicles or combination of vehicles operated between the sunset and sunrise shall have the following lights: a. Two headlights, one on each side of the front; b. At least one red taillight and one red or amber stoplight on each side of the rear; c. Directional signal lights - both front and back; and d. Three emergency flares, reflective markers, or equivalent portable warning device.		X			X
3. Brake system: (18.A.05) Service brakes and manually-operated parking brakes		X			
4. Each vehicle shall have, in working order: (18.A.06) a. A speedometer b. Fuel gage c. An audible warning device (horn and or backup alarm) d. A windshield equipped with an adequate windshield wiper e. Defrosting and defogging device f. Adequate rear view mirror or mirrors g. Cabs, cab shields, and other protection to protect the driver from the elements and falling or shifting materials h. Nonslip surfaces on steps i. A power-operated starting device		X	X	X	
5. Glass: (18.A.07) Is windshield, windows, and doors safety glass? Any cracked or broken glass shall be replaced.		X			
6. Trailers: (18.A.08) a. Structurally adequate for the weight drawn? b. Locking device or double safety system provided and working? c. Safety chains and or cables? d. Trailers with power brakes equipped with break-away device which will effectively lock-up brakes in event of separation?		X			X
7. Dump trucks: (18.A.10) a. Equipped with a holding device to prevent to prevent accidental lowering of body during maintenance or inspection? b. Hoist levers can be secured to prevent accidental starting or inpping?					
8. Emergency equipment: (18.A.11) Minimum for vehicles of 11 2 ton or over operated on public highways. shall be what is required by state law but not less than: a. One red flag not less than 12" square with standard and three reflective markers b. Two wheel chocks or each unit of a combination of vehicles c. At least one 2A, 10B C fire extinguisher (two properly rated for flammable cargoes)		X			X
REMARKS (USE REVERSE SIDE IF NECESSARY)					
INSPECTED AND CERTIFIED BY (SIGNATURE OF MECHANIC)			APPROVED BY (SIGNATURE OF COMPANY OFFICIAL)		
<i>C. Heath</i>			<i>Nick...</i>		

600

MACHINERY AND MECHANICAL EQUIPMENT			
NO MACHINERY OR MECHANICAL EQUIPMENT SHALL BE PLACED IN SERVICE UNTIL IT HAS BEEN INSPECTED AND TESTED BY A COMPETENT PERSON AND CERTIFIED TO BE IN SAFE OPERATING CONDITION			
INDICATE ANSWERS BY PLACING "X" IN PROPER COLUMN.			
	YES	NO	N/A
1. Equipment requirements: (16.A.07)			
a. Seats or equal protection provided for each person required to ride equipment	<u>X</u>	<u>X</u>	—
b. When operated on the highway, headlights, taillights, brake lights, backup lights, and turn signals visible from front and rear must be provided	<u>X</u>	—	—
c. Wind windshields, shall be equipped with power wiper and defogging/defrosting devices	<u>X</u>	<u>X</u>	—
d. Service brake system, parking brake system, and emergency (manually operated from driver's position)	—	<u>X</u>	—
e. At a minimum, one dry chemical or carbon-dioxide fire extinguisher with a rating of 5-B-C (tagged, charged, and ready for use)	<u>X</u>	—	—
2. Reverse signal (BACK-UP) alarms (16.B.01)		<u>X</u>	
3. Guarding (16.B.03) is required for the following:			
a. All belts, gears, shafts, pulleys, sprockets, spindles, drums, flywheels, chains, or other reciprocating, rotating, or moving parts of equipment	<u>γ</u>	—	—
b. Hot surfaces including exhaust pipes or other lines	—	<u>X</u>	—
c. Charging skip shall be provided with guards on both sides and open ends of skip area	—	—	<u>γ</u>
d. Platforms, catwalks, steps, handholds			<u>γ</u>
4. Fuel tanks located not to allow spills or overflows to run onto engine, exhaust, or electrical equipment (16.B.04)	<u>γ</u>		
5. Exhaust or discharges do not endanger workmen or obstruct view of operator (16.B.05)	<u>X</u>		
6. Seatbelts comply with 49CFR 371 (16.B.08)		<u>X</u>	
7. Falling object protective structures (FOPS) (16.B.11) (a through c)	<u>X</u>		
8. Rollover protective structures (ROPS) (16.B.12) (a through g)	<u>X</u>		
9. Is glass installed in operator's compartment safety glass? (16.B.10)	<u>γ</u>		
10. Points requiring lubrication during operation shall have fittings so located or guarded to be accessible without hazardous exposure. (16.B.13)	<u>X</u>		
11. Whenever long-bed end-dump trailers are used: (16.B.15) provide a roll-over warning device: the device shall have a continuous monitoring display at the operator station to provide the operator with a quick and easily-read indicator and audible warning of an unsafe condition.			<u>X</u>
REMARKS (USE REVERSE SIDE IF NECESSARY)			
INSPECTED AND CERTIFIED BY (SIGNATURE OF MECHANIC)		APPROVED BY (SIGNATURE OF COMPANY OFFICIAL)	

SAFETY INSPECTION FOR MISCELLANEOUS EQUIPMENT
U.S. Army Engineer District, Alaska

Date of Inspection:
 7/15/99

Contractor or Unit 966 Leader

Contract No. or Activity Proj. 37-775 101001

Inspected by (Signature) C. Hart

Witness (Signature) [Signature]

RUBBER TIRED FARM TRACTORS, BACKHOES, FRONT END LOADERS
 NOTE: Safety and Health Requirements Manual (EM385-1-1) references in parentheses.

	Yes	No	N/A
1 Is protection (grills, canopies, screens) provided to shield operator from falling or flying objects? (16.B.10 and 16.B.11)	✓		
2 Is adequate roll-over protection provided? (16.B.12)	✓		
3 Are seat belts provided? (16.B.08)		✓	
4 Are only designated qualified operators being assigned to operate mechanized equipment? (16.A.04)	✓		
5 Does the unit have a suitable fire extinguisher? 5 BC (16.A.26)	✓		
6 Is there an effective, working, reverse alarm? (16.B.01)		✓	
7 Are moving parts, shafts, sprockets, belts, etc., guarded? (16.B.03 (a) and 16.B.07 and 16.B.13)	✓		
8 Is protection against contact with hot surfaces, exhaust, etc., provided? (16.B.03 (6))	✓		
9 Are all screens, guards, shields in place and effective? (16.B.03)	✓		
10 Is a safe means of access to the cab provided (steps, grab bars, non-slip surfaces)? (16.B.03 (d))	✓		
11 Are pressurized cylinders, outriggers, etc., equipped with a pilot check valve? (20.A.17)			✓
12 Are sufficient lights provided for night operators? (16.A.11)	✓		
13 Are there initial inspections and scheduled inspections of the equipment at regular intervals? (16.A.02 (a) and (b))	✓		
14 Are fuel tanks located in a manner to prevent spills or overflows from running onto engine exhaust or electrical equipment? (16.B.04)	✓		
15 Are exhaust discharges from equipment so directed that they do not endanger persons or obstruct the view of the operator? (16.B.05)	✓		
16 Has the equipment been inspected and tested by a competent person? (16.A.01)	✓		
17 Are inspection records kept available as a part of the official project file? (16.A.01 (b))			✓

Remarks: 966 is a rental piece of equipment from the city of Gambell
 No windshield wiper - Philip ordered one
 handle sticks

SAFETY INSPECTION FOR MISCELLANEOUS EQUIPMENT
U.S. Army Engineer District, Alaska

Date of Inspection: 7/17/99

Contractor or Unit DESA

Contract No. or Activity AWA 2.1000

Inspected by (Signature) C. Bald + G. B. [unclear]

Witness (Signature)

SCRAPERS, MOTOR GRADERS, HEAVY HAULING UNITS

NOTE: Safety and Health Requirements Manual (EM385-1-1) references in parentheses.

	Yes	No	N/A
1 Is the unit equipped with a suitable fire extinguisher (5 BC)? (16.A.26)	✓		
2 Is a safe means of access to the cab provided (steps, grab bars, non-slip surfaces)? (16.B.03 (d))	✓		
3 Is the operator protected against weather, falling or flying objects? (16.B.10 and 16.B.11)	✓		
4 Are seat belts and adequate rollover protection provided where applicable? (16.B.08 & 16.B.12)	✓		
5 Are adequate head and tail lights provided? (16.A.07 (b))			✓
6 Have brakes been tested and found satisfactory? (16.A.07 (d))	✓		
7 Does the unit have an emergency brake system? (16.A.07 (d))	✓		
8 Can the emergency system be activated from cab? (16.A.07 (d))	✓		
9 Does the emergency brake work automatically when regular brakes fail? (16.A.07 (d))	✓		
10 Have air tanks been tested and certified? (20.A.01 (b))			✓
11 Is an air pressure gage in working condition installed on the unit? (20.A.12)			✓
12 Does the air tank have an accessible drain valve? (20.B.17)			✓
13 Are the units equipped with windshield wipers, defrosting and defogging equipment that are in good operating condition? (16.A.07)		✓	
14 Is there an effective reverse signal where applicable? (16.B.01)	✓		
15 Has the unit been inspected and certified mechanically safe by a qualified person before being placed in use? (16.A.01)		✓	
16 Is the record of the test available? (16.A.01 (b))		✓	
17 Is the unit shut down for servicing, fueling, etc.? (16.A.14)			
18 Are only designated qualified operators being assigned to operate mechanized equipment? (16.A.04)	✓		
19 Are fuel tanks located in a manner to prevent spills or overflows from running onto engine, exhaust, or electrical equipment? (16.B.04)	✓		
20 Are exhaust discharges from equipment so directed that they do not endanger persons or obstruct the view of the operator? (16.B.05)	✓		
21 Are seats provided for each person required to ride on equipment? (16.A.07 (a))	✓		
REMARKS: <u>Track Rotten - Many missing bolts in track</u>			
<u>Track splined cracked, track not riding on wheels</u>			
<u>2 tires practically shredded by bolts - Sary</u>			
<u>Rigged track fire, electrical problem - won't charge</u>			

LMN Form 385-32-R Drive sprockets worn down to metal | Proponent: CELMN-SC
Engines quit on us several times

Environmental Quality Control/Quality Assurance Report

(ER 415-1-102)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
QC Report Number 012	Date or Time Period 7/17/99	Location and Team Gambell, Alaska	
Weather Conditions		Contractor	
Temp Low 43	Temp HI 48	Oil Spill Consultants, Inc.	
Wind Speed 18-33 Knots	Conditions Cloudy		

Quality Control Inspections Performed This Date (include inspections, results, deficiencies observed, and corrective action)

Preparatory see attached checklist

Initial see attached checklist

Follow-Up

NO INSPECTIONS TODAY

Was the deficiency tracking list updated this date? Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
None			

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
None		

Have required amount of QC trip blanks and rinsates been achieved? **N/A** Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) Yes No

Have QA and QC samples been collected in the specified quantity? **N/A** Yes No

Have samples been properly labeled and packaged? **N/A** Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

Safety meeting covered: Hazards to and from area traffic

The potential for eye injury from blowing grit was stressed at the safety meeting. It was also determined that the ATV trailers could be used for crew transportation if they had sufficient seating and hand holds. The passengers must also wear the same PPE as the ATV operator. The ATV must not travel faster than 20 mph on improved roads and 10 mph off road while carrying passengers in the trailer.

Repairs were completed on the Nodwell. A safety inspection was accomplished and the machine put back into service.

A live power cable supporting FAA nav aids was discovered, on the surface of the soil, on east side of runway in Area 8. Personnel from the project had been collecting and stockpiling matting on foot and with heavy machinery in the area. The area was also a runway shoulder improvement project for Alaska DOT under construction by another contractor. The area was immediately marked and work suspended at that location. The contractor's Project Engineer reviewed the DOT project drawings indicating the presence of the buried utilities. The route of the cable was marked, and all personnel were briefed to keep clear of the area.

QAR SAFETY COMMENTS:

* **NODWELL REPAIRS QUESTIONABLE. MECHANIC WAS CONSIDERED NOT COMPETENT IN THE APPROVAL OF MACHINERY. OPERATORS OBSERVED SERIOUS PROBLEMS WITH STEERING, TRACKING AND GENERAL CONDITION OF TRACKS, LIKE CRACKED GRINDERS, TRACK OUT OF ALIGNMENT TIRES GUIDED, REINSPECTION REQUIRED.**

* **POWER CABLE IS UNKNOWN BUT LOOKS NEW. FAA MUST BE CONTACTED.**

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Continuation Sheet

Work Activities Performed This Date
Reference (NAS ID #/Tech Spec #)

Activity & Location

Quantity

Contractor

Debris Removal (NAS ID 0020, 02050)

Stockpiled metal debris from Area 8 (the runway and west beach area) Specific areas worked include the south overrun for the runway and the area between the runway and Troutman Lake

50% of metal stockpiled none yet weighed

Manpower and Equipment

Labor			Equipment		
Classification	Number	ManHours	Type	Number	Hours Used
Project Manager	1	13	4 wheeler	3	12
CQC System Manager	1	13	Cat 426 loader	1	0
Superintendent	1	13	Argo	2	18
Archeologist	1	10	Nodwell	1	8
Operator	1	12	Pickup	1	0
Laborers	6	73	Cat 966 Loader	1	3
Total Hours:		134	Total Hours:		41

Instructions Given by the Government to the Contractor (include names, reactions, and remarks.)

Verbal Written

none.

Work Progress Are there any Contractor caused delays or potential finding of fact? Yes No

Are there any Government caused delays or potential finding of fact? Yes No

Are there any unforeseeable or weather related delays? Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

Scheduled fuel barge did not arrive. Village store out of fuel. Now using limited drummed fuel brought out during mobilization.

Site reconnaissance of Area 12 conducted by Project Manager, CQC Systems manager, QAR and Archeologist.

Initial inspection on HTW removal requested for 7/19/99.

Initial inspection requested on weighing procedures requested for 7/19/99.

Archeologist researching past studies and preparing field reports.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above

Quality Control Manager Signature David L. Miller

Date 7/19/99

Government Quality Assurance Comments

Concurs with the QC report? Yes No

Additional comments or exceptions:

POWER CABLE EFFECTIVELY SUSPENDS WORK ON 1820 LP OF MARSTEN MATTING. THE 12LF WIDE SECTION IS SIGNIFICANT TONAGE. OTHER WORK WAS ACCOMPLISHED INSTEAD, HAD TO FIND INFO ON CABLE THAT IS RELIABLE. HIGH VOLTAGE TRANSFORMERS ARE IN THE PATH. DON'T KNOW WHERE CABLES RUN.

QAR Signature Steve L. Miller

Date 7-17-99

Supervisor's Initial _____

Date _____

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7/17/99 1999 Time: 0750 Briefing Location: Lodge

Activities Planned: Debris Collection, Area B

Briefer: Yusef Reza

Topic: Hazards from These Accidents

Topic: _____

Topic: _____

Briefer: Chuck Hackett

Topic: Misc Topics

Topic: _____

Topic: _____

Attendees

[Signature]
[Signature]
[Signature]
[Signature]
[Signature]
[Signature]
[Signature]
[Signature]

[Signature]
[Signature]

Site Health and Safety Officer: _____

Date: _____ 1999

HOT WORK PERMIT

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Type of Work: Metal Cutting

Heat Producing Device Torch / Cut-off Operator: Carl Siskala

Location: Low debris bin Fire Guard: Dave

Scheduled Work Date: 7/17/99 Time Start: 8:00 Time Finished: 12:00

The Checklist Below Was Reviewed

Supervisor Superintendent: [Signature] Date: 7/17/99 SHSO: [Signature] Date: 7/17/99

COMPLETE IMMEDIATELY PRIOR TO WORK

Hot Work Checklist

Item	N/A	Yes	No
1. Are all flammables and at least 50 ft away?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Is the operator fully qualified to operate the equipment?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Has the Fire Guard been identified and briefed to observe the area for 1 hour after work is complete?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Has emergency communication procedures been checked?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is and ABC extinguisher present and is it in working order?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Have the tools and equipment been inspected for safety?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Is the correct PPE being worn?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Has the area been checked for flammable or explosive vapors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Have containers been checked for explosive/ flammable residue or vapors? (drums and tanks)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Are torch hoses purged before lighting (torches only)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Are nozzles and hoses in good repair? (torches only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMPLETE AFTER WORK

Time Start: 4:00 PM Time Finished: 5:00 PM Fire Guard Released: 7:10 PM

Superintendent: [Signature] Date: 7/17/99 SHSO: [Signature] Date: 7/17/99

SAFETY INSPECTION FOR MISCELLANEOUS EQUIPMENT
U.S. Army Engineer District, Alaska

Date of Inspection:

7/17/99

Contractor or Unit *YODKIEL*

Contract No. or Activity

Inspected by (Signature) *Grant Klusby*

Witness (Signature)

SCRAPERS, MOTOR GRADERS, HEAVY HAULING UNITS

NOTE: Safety and Health Requirements Manual (EM385-1-1) references in parentheses.

Yes No N

1	Is the unit equipped with a suitable fire extinguisher (5 BC)? (16.A.26)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Is a safe means of access to the cab provided (steps, grab bars, non-slip surfaces)? (16.B.03 (d))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Is the operator protected against weather, falling or flying objects? (16.B.10 and 16.B.11)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Are seat belts and adequate rollover protection provided where applicable? (16.B.08 & 16.B.12)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Are adequate head and tail lights provided? (16.A.07 (b))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Have brakes been tested and found satisfactory? (16.A.07 (d))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Does the unit have an emergency brake system? (16.A.07 (d))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Can the emergency system be activated from cab? (16.A.07 (d))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Does the emergency brake work automatically when regular brakes fail? (16.A.07 (d))	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	Have air tanks been tested and certified? (20.A.01 (b))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	Is an air pressure gage in working condition installed on the unit? (20.A.12)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	Does the air tank have an accessible drain valve? (20.B.17)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	Are the units equipped with windshield wipers, defrosting and defogging equipment that are in good operating condition? (16.A.07)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	Is there an effective reverse signal where applicable? (16.B.01)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	Has the unit been inspected and certified mechanically safe by a qualified person before being placed in use? (16.A.01)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	Is the record of the test available? (16.A.01 (b))	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17	Is the unit shut down for servicing, fueling, etc.? (16.A.14)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	Are only designated qualified operators being assigned to operate mechanized equipment? (16.A.04)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	Are fuel tanks located in a manner to prevent spills or overflows from running onto engine, exhaust, or electrical equipment? (16.B.04)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	Are exhaust discharges from equipment so directed that they do not endanger persons or obstruct the view of the operator? (16.B.05)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	Are seats provided for each person required to ride on equipment? (16.A.07 (a))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS: *FOREEN MATERIAL IN FUEL SYSTEM, STEERING
 BRAKE STAYS LOCKED ON FIXED WITH BUNGY CORDS
 TRANSMISSION RESPONSE IS LIMITED, VERY
 UNRELIABLE THROTTLE ASSEMBLY*

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Contract Number / Delivery Order Number: DACAB5-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
QC Report Number 013	Date or Time Period 7/18/99	Location and Team Gambell, Alaska	
Weather Conditions		Contractor	
Temp Low 43	Temp HI 47	Oil Spill Consultants, Inc.	
Wind Speed 17-28	Knots Conditions		
Cloudy			

Quality Control Inspections Performed This Date (include inspections, results, deficiencies observed, and corrective action)

Preparatory see attached checklist

Initial see attached checklist

Follow-Up

NO INSPECTIONS TODAY

Was the deficiency tracking list updated this date? Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
--------------	---------------	---------------------	---------

None

Have Data Quality Objectives been achieved? N/A Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
--------------	------------------------	---------------------

None

Have required amount of QC trip blanks and rinsates been achieved? N/A Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) Yes No

Have QA and QC samples been collected in the specified quantity? N/A Yes No

Have samples been properly labeled and packaged? N/A Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The correct procedures for chop saw use were discussed at the safety meeting. Specifics includes rotation of personnel to avoid fatigue, correct PPE, and safe work distances. Crews were also briefed on the hazards caused by high winds. Handling sheet metal, flying debris, and potential grit in eyes were discussed.

A crew break shelter with hot drinks and a rest area was set up in a connex. This was implemented to prevent crew fatigue or hypothermia as winds increase and temperatures drop.

Heavy truck traffic was noticed along the road that parallels the runway. This transects our current work area. The superintendent briefed all personnel to use extra caution.

Extra overburden was placed in area of the buried electrical line discovered 7/17/99 to provide protection from equipment traffic along major haul routes.

OSAR SAFETY COMMENTS:

PERMANENT ARRANGEMENT WAS A SIMPLE HAZZOCK TYPE, NOT REGULATION HARD STRUCTURE OUTHOUSE. AREA WAS RUBBED, HARD TO GET TO. BACKWINDS RULES APPLY HERE (COMMON SENSE).

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)

Continuation Sheet

Work Activities Performed This Date reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Debris Removal (NAS ID 0020, 02050)	Stockpiled Metal, Area 8 area between east side of runway and parallel road. Trimmed exposed end of partially buried metal mat. Scale hung on gantry. Tare weights taken in preparation for debris weighing.	not yet weighed.	
HTRW Removal (NAS ID 0022, 02050)	Staked proposed area of Area 12 Drum Dump south of Troutman Lake		

Manpower and Equipment		Equipment	
Labor	Number	Type	Number
Classification <td></td> <td></td> <td></td>			
Project Manager	1	4 wheeler	3
QC System Manager	1	Cat 426 loader	1
Superintendent	1	Argo	2
Archeologist	1	Nodwell	1
Operator	1	Pickup	1
Laborers	5	Cat 966 Loader	1
	Total Hours		Total Hours
	102		47

Instructions Given by the Government to the Contractor (include names, reactions, and remarks) Verbal Written
none

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No
Are there any Government caused delays or potential finding of fact? Yes No
Are there any unforeseeable or weather related delays? Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)

Fuel barge still not in due to high winds. Less than two days of fuel on hand.

An attempt was made to deal with the exposed end of partially buried metal matting. Dirt was removed exposing approximately one to two additional feet of buried mat. A cut was made with a chop saw along the dirt line. 1/10 of a mile cut. The new cut edge was inspected by the QAR. He stated that the approach tried would not be acceptable.

Cat 426 had major hydraulic leak. Was removed from service.

Archeologist researching past studies and preparing field reports.

Archeologist Consulted with Mayor Winnie James and Sivuqaq Inc. President Job Koonooka about artifact/burial procedures. They agreed that relics were to be turned over to Sivuqaq Inc, and indicated preference for human bones to be reburied at the place of discovery, with the Project Liaison Burt Oozevasouk witnessing. Consulted with QAR Steve LeClerc about follow-through, and decided Corps will draft letter based on Mobley draft reviewed by James and Koonooka. The USAFCE will submit the letter to City of Gambell, Sivuqaq, Inc., and Gambell IRA council.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *[Signature]* Date 7/19/99

Government Quality Assurance Comments
Concurs with the QC report? Yes No

Additional comments or exceptions
COORDINATED THIS WITH SIZING B. AM. WILL WAIT FOR RESPONSE BEFORE DEALING WITH ANY REMAINS IN WORK AREAS. AREA 3, 4, 5 & 10 AFFECTED BY THIS. DEFINITION OF EXCAVATION IN QUESTION. YAKING OUT MAT EXPOSES MORE MAT. COVER ON MAT VARIES FROM 6 - 12" OR MORE. ALL MUST BE RILLED.

QAR Signature *[Signature]* Date 7-20-99 Supervisor's Initial _____ Date _____

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7/18 1999 Time: 0830 Briefing Location: WDE

Activities Planned: Debris Collection

Briefer: Chuck Skerby

Topic: Chop Saw Use

Topic: Utility Hazard

Topic: Winds

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

[Signature]
Wally Blaker
[Redacted]
Charles Mabley
Steve Palmer
Pat Tim
[Signature]
[Signature]

[Signature]
Chuck Skerby
Chad Smith
[Signature]

Site Health and Safety Officer: [Signature]

Date: 7/18 1999

HOT WORK PERMIT

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Type of Work: Chop saw, torch, welder

Heat Producing Device _____ Operator: Cuff Blakeley

Location: _____ Fire Guard: Robert

Scheduled Work Date: 7/18/1999 Time Start: 9:30 Time Finished: 7:00

The Checklist Below Was Reviewed

Superintendent: [Signature] Date: 7/18/1999 SHSO: [Signature] Date: 7/18/99

COMPLETE IMMEDIATELY PRIOR TO WORK

Hot Work Checklist

Item	N/A	Yes	No
1. Are all flammables and at least 50 ft away?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Is the operator fully qualified to operate the equipment?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has the Fire Guard been identified and briefed to observe the area for 1 hour after work is complete?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Has emergency communication procedures been checked?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is and ABC extinguisher present and is it in working order?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Have the tools and equipment been inspected for safety?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Is the correct PPE being worn?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Has the area been checked for flammable or explosive vapors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Have containers been checked for explosive/ flammable residue or vapors? (drums and tanks)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Are torch hoses purged before lighting (torches only)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Are nozzles and hoses in good repair? (torches only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMPLETE AFTER WORK

Time Start: 9:30 Time Finished: 2:30 Fire Guard Released: 3:30

Superintendent: [Signature] Date: 7/18/1999 SHSO: [Signature] Date: 7/19

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Contract Number / Delivery Order Number DACAB5-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 114	Date or Time Period 7/19/99	Location and Team Gambell, Alaska	
Weather Conditions Temp Low 43 Temp HI 47		Contractor Oil Spill Consultants, Inc.	
Wind Speed 17-28	Conditions Light Rain		

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action.)

Preparatory	<input checked="" type="checkbox"/> see attached checklist	Weighing, HTW Removal, Sampling
Initial	<input checked="" type="checkbox"/> see attached checklist	Sampling
Follow-Up	<input type="checkbox"/>	

Was the deficiency tracking list updated this date? Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
--------------	---------------	---------------------	---------

Have Data Quality Objectives been achieved? N/A Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
--------------	------------------------	---------------------

See Chain of Custody Form and Field notes Attached

Have required amount of QC trip blanks and rinsates been achieved?	N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.)	N/A <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Have QA and QC samples been collected in the specified quantity? Not required by Delivery Order	N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Have samples been properly labeled and packaged?	N/A <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

the safety meeting the presence of truck traffic from another contractor in the area was discussed and crews were alerted to yield to these vehicles and use extra caution. The presence of the underground electrical cable east of the runway and protective measures taken was briefed to the crew. All personnel were alerted to new excavations made by local residents in the road used to travel from the lodge to the lay down area. An alternate route was identified.

Later in day the a suspension of work for cutting, heavy debris removal, and equipment movement was given in the area of the buried electrical cable east of the runway.(see "directions" block)

QAR SAFETY COMMENTS:

- POWER CABLE REPORTED TO BE LIVE HIGH VOLTAGE. UNCOVERED IN 2 PLACES. VERY SHALLOW BURIAL. THIS SEEMS LIKE A MISTAKE OF SOMEKIND. WILL CALL FOR FRA & DOT LOCATES. WILL VACATE UNTIL THEN.
- TRUCK TRAFFIC HINDERS AREA WORK. KELLY RYAN CRUSHER OPERATIONS IS DIRECTLY ON THE ROADWAY, CAUTION NEEDED TO AVOID LARGE DUMP TRUCKS.
- EXCAVATIONS APPEAR IN ROADWAY WITHOUT WARNING IN AREA 206 DIG AREAS. GO SLOW IN THIS AREA WAS ADVISED. CHECKS FIND OLD DUCKY IN THESE DIGGINGS.
- BURIED METAL MATING WAS REMOVED EARLIER BY PULLING OUT WITH FORKLIFT BUCKET EXCAVATOR WAS NOT NECESSARY BUT COULD PULL HARDER BECAUSE IT WAS MORE POWERFUL. ISSUE HERE IS EXACT DEFINITION OF EXCAVATION. MY FEELING WAS THAT EXCAVATION WAS NOT DONE BECAUSE SMALL AMT OF OVERBURDEN DID NOT QUALIFY AS EXCAVATION. EXCAVATION IS NOT AUTHORIZED IN CONTRACT.

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Continuation Sheet

Activities Performed This Date (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Debris Removal (NAS ID #003, 02050)	Weighed previously stockpiled Metal, Area 8 west beach. Continued to collect and stockpile for area between runway and Troutman lake.	10,768 lb weighed to date 80% of area 8 completed	

Manpower and Equipment					
Labor Classification	Number	ManHours	Equipment Type	Number	Hours Used
Project Manager	1	13	4 wheeler	3	36
CQC System Manager	1	13	Cat 426 loader	1	4
Superintendent	1	13	Argo	2	12
Archeologist	1	10	Nodwell	1	0
Operator	1	12	Pickup	1	0
Laborers	6	72	Cat 966 Loader	1	0
Total Hours:					56

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks.) Verbal Written

QAR Directed suspension heavy debris removal, cutting, and equipment operations in the area of the underground electrical buried electrical cable between the runway and Troutman Lake. The area was marked with stakes and flagging, and all work in the area was suspended except for removal of light surface debris by personnel on foot. All project personnel were briefed of the hazard.

QAR directed suspension of work on the partially buried metal matting along the east side of the runway where a shoulder improvement contract was underway by another contractor. Personnel had been trimming the exposed edge of the mat to reduce the visible area (see remarks, below).

QAR directed that if human remains were encountered, they should not be disturbed in any way. The Archeologist should be alerted. The contractor would be responsible for interring the remains. This would be done only after the Archeologist had approved the action. The interment must be done in the presence of the Archeologist and the Project son from the Village of Gambell.

The QAR informed the Project Manager and the CQC that it may be permissible to use non-HazWOPR-trained local-hire personnel for debris removal with special stipulations. This issue is being coordinated between the contractor and the Fairbanks Resident Office of the USACE.

Work Progress Are there any Contractor caused delays or potential finding of fact?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Are there any Government caused delays or potential finding of fact?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Are there any unforeseeable or weather related delays?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

Fuel barge finally arrived. The pickup truck will be able to be used for crew transport once gasoline is available for sale by the village store.

An attempt was made to deal with the exposed end of buried metal matting. Dirt was removed exposing approximately one to two addition feet of buried mat. A cut was made with a chop saw along the dirt line. 1/10 of a mile cut. The new cut edge was inspected by the QAR. He stated that the approach tried would not be acceptable. A direction to suspend this work was subsequently given (see directions above).

The starter on the Nodwell failed and the unit was reviewed ^{moved} from service.

Cat 426 which had been removed from service for major hydraulic leak was repaired and returned to service.

Archeologist, the developer of the project archaeology/burial SOP for eventual USACE letter reviewed his latest draft with QAR, USACE Steve LeClerc.

Verify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *John L. L...* Date 7/29/99

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7/19 1999 Time: 0700 Briefing Location: Lodge

Activities Planned: Debris - Pick up

Briefer: Chuck Heath

Topic: Truck traffic

Topic: V/B Electrical

Topic: PPE for hazmat ops

Briefer: _____

Topic: Moles in the road.

Topic: _____

Topic: _____

Attendees

Steve Palmer
Andy Berglund
M. A. [unclear]
[unclear]
Paul [unclear]
Dan [unclear]
Will [unclear]

[redacted]
Chuck Heath
Chuck Noble
Steve LeDuc + 015

Site Health and Safety Officer: [Signature]

Date: 7/19 1999

Project: Debris Removal & Containerized Hazardous & Toxic Waste Removal
 Gambell, Alaska Contract No: DACA85-97-D-0010, Delivery Order #4

Authorization Number: OSCI Purchase Order No. 913

Client: Oil Spill Consultants, Inc.
 The Environmental Cleanup Company
 209 E. 51st Avenue, Anchorage, Alaska 99503
 Tel: (907) 562-7169 Fax: (907) 562-7225

Samplers: Randy E Easley
 (Signature) *[Signature]*
 Witness: David L. Rain
 (Signature) *[Signature]*

Analysis Required by: _____

Analysis Required

Field Screen	Sample Number	Sample Date	P.M. Time	PID Reading	Type	# of Cont.	Analysis Required										QA / QC Required
							GRO-AK101	DRO-AK102	RRO-AK103	TCLP Metals-1311, 7060, 6010, 7196, 7470, 7760, & 7740	Flash Point/NPH - EPA 1020 & 9045	PCBs, Herbicides, Pesticides - EPA - 1311, 8082, 8081, & 8150	VOA, Semi-VOA - EPA 1311, 8260, & 8270	Dioxin - EPA 8290			
	99-GAM-001-SL	7-19-99	2:45		Soil	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	III	
	99-GAM-002-SL	7-19-99	3:22		Soil	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	III	
	99-GAM-003-SL	7-19-99	3:35		Soil	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	III	
	99-GAM-004-SL	7-19-99	6:00		Soil	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	III	

Relinquished by: (Printed) _____ Date / Time _____

Received by: (Printed) _____

(Signature) _____

(Signature) _____

Relinquished by: (Printed) _____

Received by: (Printed) _____

(Signature) _____

(Signature) _____

Dispatched by: (Printed) _____

Received at Laboratory by: _____

(Signature) _____

Method of Shipment: _____

Condition of Containers

Received Temp: _____

Comments: _____

Good Fair Poor

No.	Identification	Site	Date	Time	Description
1	99-GAM-001-SL	8	7-19-99	2:45 pm +	Oil stained Soil from supersack
2	99-GAM-002-SL	12	7-19-99	3:22 pm	Soil under cluster of lead Acid Batteries
3	99-GAM-003-SL	12	7-19-99	3:35 pm	Oil stained Soil
4	99-GAM-004-SL	2	7-19-99	6:00 pm	Oil stained Soil

1-17-74

1 11 17
Site 12 is east of Kelly Ryan cru. and screening Plant. Access is by gravel road. This site contains many deteriorated drums. Nearly all drums empty. A few contained miscellaneous trash & debris. The empty drums have many holes in them which suggest that a pick was used to puncture them so they would drain.

Site 12 also contained about 12 batteries, deteriorated paint (5-gallon) and many small pieces of metal. The batteries are in pieces and contain liquids.

Three small pools of water are in this zone. Each one contains water.

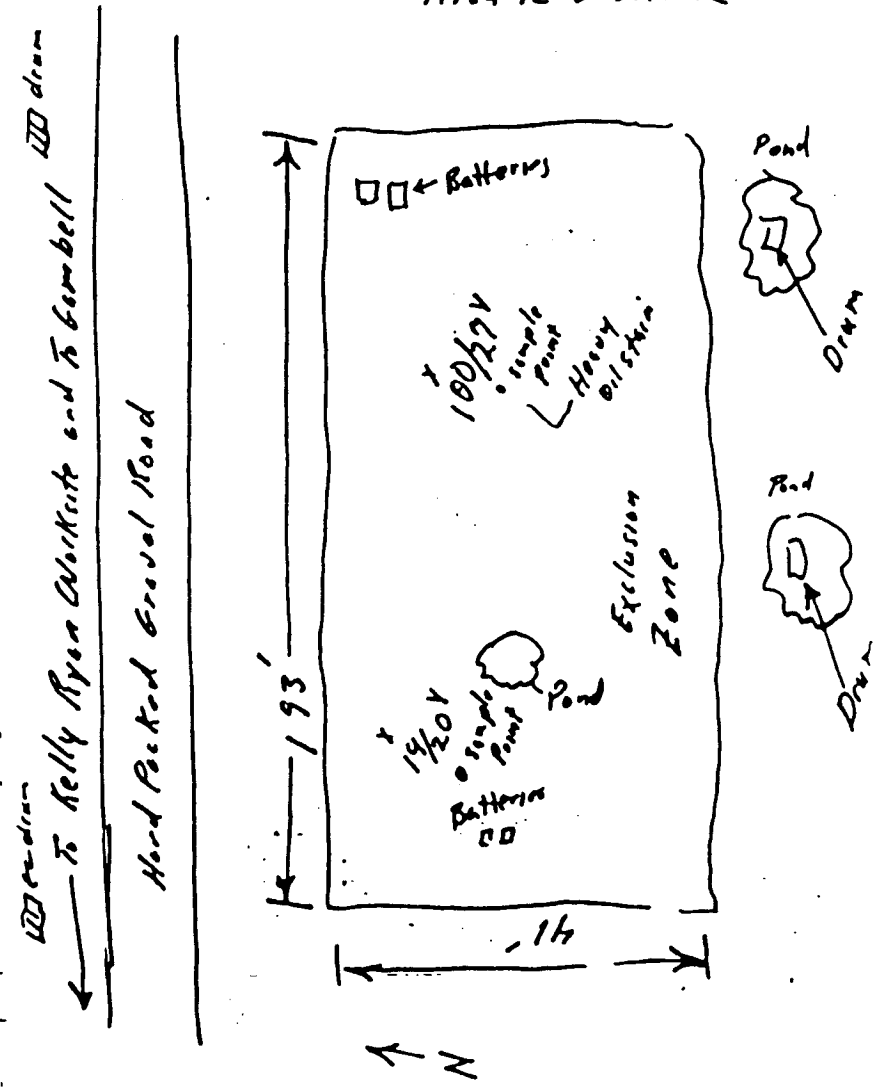
The exclusion zone around the drums was stakes.

Collected the following samples:

Soil under largest cluster of Batteries

Soil under heavy oil stain

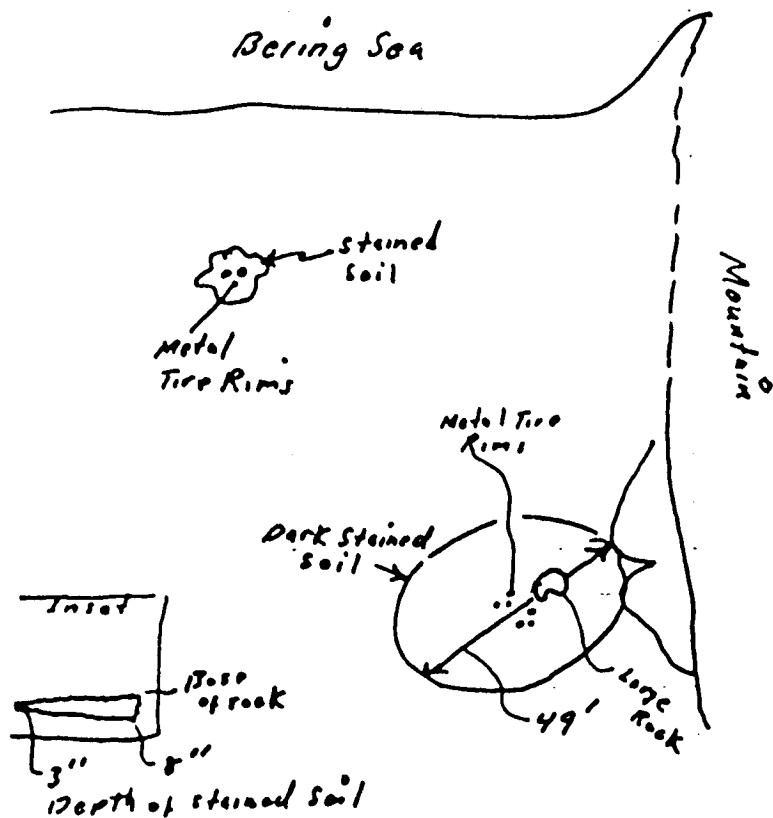
Area 12 or Site 12



7-19-99

Site 2 is located Northeast of Gambell Village at the base of Sevukuk Mountain about 150 yards from the shoreline.

Site 2 is identified by large rock surrounded by heavily stained soil. This area contains about six rims from 4-wheeler tires.



Estimated Quantity of Stained Soil:

$$A_1 = \pi r^2 = 3.14 (24.5)^2 = 1,884.79 \text{ ft}^2$$

subtract area of rock

$$A_r = \pi r^2 = 3.14 (10/2)^2 = 78.50 \text{ ft}^2$$

$$A_{\text{soil}} = 1,884.79 - 78.50 = 1,806.29$$

$$\text{Average Depth} = 5.5'' = 0.46'$$

$$\begin{aligned} \text{Volume} &= \text{Area} \times \text{Depth} \\ &= 0.46 \times 1,806.29 \\ &= 827.88 \text{ Cubic Feet} \\ &= 30.66 \text{ Yards} \end{aligned}$$

@ 1.75 tons per yard

$$\begin{aligned} \text{Estimated Quantity of Stained Soil} \\ &= 1.75 (\text{tons/yard}) \times 30.66 \text{ yard} \\ &= \underline{53.66 \text{ tons}} \end{aligned}$$

Estimate

say actually between 30 & 50 tons

Preparatory

Inspections ^{7/19}

David L. Rinn

David L. Rinn

EQC, BSCI

Charles M. Mobley

Charles M. Mobley

Paul Zimmerman

INSPECTION CHECKLIST

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Feature of Work: Drum Removal/HTW

CLIN: 3

Inspection: Preparatory

Relevant Specifications: SOW 1.3.1, SOW Table 2, 02050, 01130

Submittals: Work Plan, Health and Safety Plan, Environmental Protection Plan

Inspection Checklist

<u>Item</u>	<u>Yes</u>	<u>No</u>	<u>Not Obsrvd</u>
1. Have all required submittals been approved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Have the applicable section of the statement of work and specifications been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Has a safety meeting been held?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Have equipment and tools received a safety inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Has the hazard analysis been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have PPE requirements for the activity been established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Has the area of work been defined?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Have the drums been located?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Are required materials for spill containment available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have staging areas, access routes, and collection points been established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have procedures for handling drum liquids been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Have procedures for cleaning and crushing drums been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: - Do not mix battery types
- All animal carcasses to be left in place, on site!
- Do not collect paints!
- Progress

CQC System Manager

Date

SAFETY INSPECTION FOR MISCELLANEOUS EQUIPMENT U.S. Army Engineer District, Alaska	Date of Inspection: <i>7/15/99</i>
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Contractor or Unit <i>426 Backhoe.</i>	Contract No. or Activity <i>DACA-97-80010/0024</i>
Inspected by (Signature) <i>C. Heatt</i>	Witness (Signature) <i>Mark L...</i>

RUBBER TIRED FARM TRACTORS, BACKHOES, FRONT END LOADERS NOTE: Safety and Health Requirements Manual (EM385-1-1) references in parentheses.	Yes	No	N/A
--	-----	----	-----

1 Is protection (grills, canopies, screens) provided to shield operator from falling or flying objects? (16.B.10 and 16.B.11)	✓		
2 Is adequate roll-over protection provided? (16.B.12)	✓		
3 Are seat belts provided? (16.B.08)	✓		
4 Are only designated qualified operators being assigned to operate mechanized equipment? (16.A.04)	✓		
5 Does the unit have a suitable fire extinguisher? <i>5 BC</i> (16.A.26)	✓		
6 Is there an effective, working, reverse alarm? (16.B.01)	✓		
7 Are moving parts, shafts, sprockets, belts, etc., guarded? (16.B.03 (a) and 16.B.07 and 16.B.13)	✓		
8 Is protection against contact with hot surfaces, exhaust, etc., provided? (16.B.03 (6))	✓		
9 Are all screens, guards, shields in place and effective? (16.B.03)	✓		
10 Is a safe means of access to the cab provided (steps, grab bars, non-slip surfaces)? (16.B.03 (d))	✓		
11 Are pressurized cylinders, outriggers, etc., equipped with a pilot check valve? (20.A.17)	✓		
12 Are sufficient lights provided for night operators? (16.A.11)	✓		
13 Are there initial inspections and scheduled inspections of the equipment at regular intervals? (16.A.02 (a) and (b))	✓		
14 Are fuel tanks located in a manner to prevent spills or overflows from running onto engine exhaust or electrical equipment? (16.B.04)	✓		
15 Are exhaust discharges from equipment so directed that they do not endanger persons or obstruct the view of the operator? (16.B.05)	✓		
16 Has the equipment been inspected and tested by a competent person? (16.A.01)	✓		
17 Are inspection records kept available as a part of the official project file? (16.A.01 (b))			✓

Remarks: <i>Rental unit - Kelly Ryan</i> <i>Hydraulic leak on BU alarm repaired 7/19/99</i>			
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Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Nature of Work: Sampling

CLIN: 4, and 5

Inspection: Preparatory

Relevant Specifications: 1450

Submittals: Sampling and Analysis Plan

Inspection Checklist

<u>Item</u>	<u>Yes</u>	<u>No</u>	<u>Not Obsrvd</u>
1. Have all required submittals been approved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Have the applicable section of the statement of work and specifications been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Has a safety meeting been held?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Have equipment and tools received a safety inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Has the hazard analysis been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Have PPE requirements for the activity been established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has the area of work been defined?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Has stained soil been located?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Are required materials for spill containment available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have sampling locations been established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have procedures for handling IDW been defined?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Have procedures for cleaning and decontamination been established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: Site prep to be held before initial

[Signature]
IC System Manager

2/2/09
Date

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

ure of Work: Debris Removal

CLIN: 2

Inspection: Preparatory

Relevant Specifications: SOW 1.3.1, SOW Table 2, 02050, 01130, 01450

Submittals: Work Plan, Health and Safety Plan, Environmental Protection Plan

Inspection Checklist

<u>Item</u>	<u>Yes</u>	<u>No</u>	<u>Not Obsrvd</u>
1. Have all required submittals been approved?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Have the applicable section of the statement of work and specifications been reviewed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Has a safety meeting been held?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Have equipment and tools received a safety inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Has the hazard analysis been reviewed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Have PPE requirements for the activity been established?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Has the area of work been delineated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Has the scrap to be removed been identified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Are personnel operating cutting equipment fully trained?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have staging areas, haul routes, and collection points been established?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have hot work procedures and areas been identified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Have weighing procedures been established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Has site control been established?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Have procedures for cutting, loading, transporting, and off-loading metal debris been reviewed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: Modify Clin to make clearer

[Signature]
CQC System Manager

7/10
Date

Weigh Ticket
Debris Removal and Containerized HTW Removal, Gambell Alaska

Ticket # _____	Date Collected _____	Date Weighed _____	Date Loaded _____
Site _____	Description _____	Count: _____	BDR SS Other _____
Gross Weight _____	Tare Weight _____	Net Weight _____	HTW CS Initials _____
Net Weight _____	Tare to Connex _____	Gross to Connex _____	Connex# _____

Ticket # _____	Date Collected _____	Date Weighed _____	Date Loaded _____
Site _____	Description _____	Count: _____	BDR SS Other _____
Gross Weight _____	Tare Weight _____	Net Weight _____	HTW CS Initials _____
Net Weight _____	Tare to Connex _____	Gross to Connex _____	Connex# _____

Ticket # _____	Date Collected _____	Date Weighed _____	Date Loaded _____
Site _____	Description _____	Count: _____	BDR SS Other _____
Gross Weight _____	Tare Weight _____	Net Weight _____	HTW CS Initials _____
Net Weight _____	Tare to Connex _____	Gross to Connex _____	Connex# _____

CONTRACT LINE ITEM TRACKING SHEET
AREA 8

Debris Contract Line item 2

Wt Ticket #	Date Collected	Date Weighed	Description	Count	Net Wt	Date loaded	Connex #	Tare in connex	total Wt in connex
Current Total									

HTW Contract Line item 3

Wt Ticket #	Date Collected	Date Weighed	Description	Count	Net Wt	Date loaded	Connex #	Tare in connex	total Wt in connex
Current Total									

Stained Soil Contract Line item 4

Wt Ticket #	Date Collected	Date Weighed	Description	Count	Net Wt	Date loaded	Connex #	Tare in connex	total Wt in connex
Current Total									

Sites	Debris Table 1 Weight	ACT. Weight to Date	HTW Table 2 Weight	Weight to Date	Stained soil Weight to Date	Contaminated Soil Weight to Date
Site 2	1600		20			
Site 3	770		600			
Site 4/Area 4A	5410		2140			
Site 4/Area 4B	905		2230			
Site 4/Area 4D	1000		0			
Site 5	315		0			
Area between site 5 and 3	55		100			
Site 6	350		0			
Site 7	150		0			
Site 8	115000		6200			
Site 10	1300		2300			
Site 12	100		2550			
Site 13	300		0			
Totals	127255	0	16140	0	164000	0
Percent of Weight		0%		0%	40,700	0%

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

ure of Work: Sampling

CLIN: 4, and 5

Inspection: Initial

Relevant Specifications: 1450

Submittals: Sampling and Analysis Plan

Inspection Checklist

<u>Item</u>	<u>Yes</u>	<u>No</u>	<u>Not Obsrvd</u>
1. Are sample points correctly located and marked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Do collection methods meet requirements of analysis ordered?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Has a safety meeting been held?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Are proper precautions to prevent cross contamination being followed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Are field notes documenting sampling locations being made?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Is the proper PPE being worn?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Are clean sampling tools being used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Is only Stained soil being sampled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Are measurements of sample locations being made?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Is the proper sample i.d. used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Area procedures for handling IDW being followed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Is the COC form being filled out with all the proper data fields?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: _____


System Manager

7/20/99
Date

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 99-015	Date or Time Period 7/20/99	Location and Team Gambell, Alaska	
Weather Conditions Temp Low 47 Temp Hi 52		Contractor Oil Spill Consultants, Inc.	
Wind Speed 10-21 Knots	Conditions <u>Cloudy a.m. Sunny, p.m.</u>		

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action.)

Preparatory	<input type="checkbox"/> see attached checklist	HTW Removal
Initial	<input checked="" type="checkbox"/> see attached checklist	Sampling
Follow-Up	<input checked="" type="checkbox"/>	

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
--------------	---------------	---------------------	---------

Have Data Quality Objectives been achieved? N/A Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
--------------	------------------------	---------------------

See Chain of Custody Form and Field notes Attached

Have required amount of QC trip blanks and rinsates been achieved?	N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.)	N/A <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Have QA and QC samples been collected in the specified quantity? Not required by Delivery Order	N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Have samples been properly labeled and packaged?	N/A <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The safety meeting addressed the hazards of handling landing mat. Workers loading landing mat into connexes while standing in close proximity to each other must exercise caution to avoid striking each other with the jagged metal. The correct PPE and material collection procedures for drums and batteries was also discussed. This was in preparation for the removal of HTW from Area 12 that would start that day.

QAR SAFETY COMMENTS:

PPE CHECKED ON ALL CREWS. NO PROBLEMS OBSERVED
CORRECT HELMETS WORN IN TRAILOR.

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Continuation Sheet

Work Activities Performed This Date (Reference (NAS ID #/Tech Spec #))	Activity & Location	Quantity	Contractor
HTRW Removal (NAS ID 0022, 02050)	Initial HTRW removal on Area 12, drum dump south of Troutman Lake. Drums and batteries removed.	75% of drums at this site collected 35% of drums at this site weighed, 4,448 lb to date	
Stained Soil Removal (NAS ID 0019, 02050)	Stained soil associated with drums and batteries at Area 12 excavated, containerized and weighed	75% of stained soil at this site collected 50% of stained soil at this site weighed, 2,594 lb to date	
Debris Removal (NAS ID 0020, 02050)	Area 12, small amounts of non-HTW metal debris segregated from drums	not yet weighed	

Manpower and Equipment

Labor Classification	Number	ManHours	Equipment	Number	Hours Used
			Type		
Project Manager	1	13	4 wheeler	3	36
CQC System Manager	1	13	Cat 426 loader	1	4
Superintendent	1	13	Argo	2	16
Archeologist	1	10	Nodwell	1	0
Operator	1	12	Pickup	1	0
Laborers	6	72	Cat 966 Loader	0	0
	Total Hours	133		Total Hours	56

Instructions Given by the Government to the Contractor (include names, reactions, and remarks.)

Verbal Written

QAR approved the substitute of an Argo for the Archeologists sole use in lieu of the four-wheeler identified by the modification extending the archeologists time on site.

QAR directed that the cans of solidified paint found during the cleanup of Area 12 (the drum dump south of Troutman Lake) were to be left on site.

Work Progress Are there any Contractor caused delays or potential finding of fact?
Are there any Government caused delays or potential finding of fact?
Are there any unforeseeable or weather related delays?

Yes No
Yes No
Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)

With only approximately 50% of the drums in Area 12 weighed, the recorded weight to date of 4,484 lb already exceeds the Delivery Order estimate of 2,550 lb for that site. Visual estimates of non-hazardous metal debris exceed the 100 lb estimate in the delivery order.

The Archeologist coordinated with Suzanne Beauchamp, Project Manager for the Corps of Engineers, concerning details of artifact/burial Standard Operating Procedure to be agreed upon between the Corps and the to City of Gambell, Sivuuqaq Inc, and Gambell IRA. Later that day he briefed the contractor's Project Manager, Randy Easley.

During a Reconnaissance of Area 4, (the mountain top) conducted later that evening by the Archeologist, the QAR and the Contractor's Project manager, several graves, one rockshelter with a hearth, were discovered along with military features. The contractor's Argo mechanic also noticed one burial at which the bones had scattered.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *[Signature]*

Date 8/21/89

Government Quality Assurance Comments

Concurs with the QC report?
Additional comments or exceptions

Yes No
 DIRECTION WILL BE SOUGHT FOR SOLID PAINT CANS (5 ea)
 PROBABLY NEED TO LINE & DRUM THESE. (CHUCK MOBLEY)
 SHELTER IS CONSIDERED HISTORICAL AND MAY HAVE VALUE. ARCHEOLOGIST
 WILL HANDLE LISTING AND CATALOGUE. HIS REPORT WILL ELABORATE LATER

QAR Signature *[Signature]*

Date 8/22/89

Supervisor's Initial _____ Date _____

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contractac t Wt	Actual Weight to Date	Contractac t Wt	Actual Weight to Date	Contractac t Wt	Actual Weight to Date	Contractac t Wt	Actual Weight to Date
Site 2	1600		20					
Site 3	770		600					
Site 4/Area 4A	5410		2140					
Site 4/Area 4B	905		2230					
Site4/Area 4D	1000		0				104000	
Site 5	315		0					
Area between site 5 and 3	55		100					
Site 6	350		0					
Site 7	150		0					
Site 8	115000	12233	6200	0		0		
Site 10	1300		2300					
Site 12	100	0	2550	4484		2594		
Site 13	300		0					
Totals	127255	12233	16140	4484	40000	2594	104000	0
Percent of Contract Wt		10%		28%		6%		0%

Chain of Custody

Project: Debris Removal & Containerized Hazardous & Toxic Waste Removal
 Gambell, Alaska **Contract No:** DACA85-97-D-0010, Delivery Order #4

Authorization Number: OSCI Purchase Order No. 913

Client:
 Oil Spill Consultants, Inc.
 The Environmental Cleanup Company
 209 E. 51st Avenue, Anchorage, Alaska 99503
 Tel: (907) 562-7169 Fax: (907) 562-7225

Samplers: *Randy E Easley*
 (Signature) *[Signature]*
Witness: *David L. Rain*
 (Signature) *[Signature]*

Analysis Required by: _____

Analysis Required

Field Screen	Sample Number	Sample Date	P.M. Time	PID Reading	Type	# of Cont.	Analysis Required										QA / QC Required
							GRO-AK101	DRO-AK102	RRO-AK103	TCLP Metals-1311, 7060, 6010, 7196, 7470, 7760, & 7740	Flash Point/PH - EPA 1020 & 9045	PCBs, Herbicides, Pesticides - EPA - 1311, 8082, 8081, & 8150	VOA, Semi-VOA - EPA 1311, 8260, & 8270	Dioxin - EPA 8290			
99-GAM-001-SL	99-GAM-001-SL	7-14-99	2:45		Soil	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	III	
99-GAM-002-SL	99-GAM-002-SL	7-19-99	3:22		Soil	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	III	
99-GAM-003-SL	99-GAM-003-SL	7-19-99	3:35		Soil	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	III	
99-GAM-004-SL	99-GAM-004-SL	7-19-99	6:00		Soil	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	III	
99-GAM-005-SL	99-GAM-005-SL	7-20-99	8:50		Soil	6	✓	✓	✓	✓	✓	✓	✓	✓	✓	III	

Relinquished by: (Printed) _____ Date / Time _____
 (Signature) _____

Received by: (Printed) _____
 (Signature) _____

Relinquished by: (Printed) _____
 (Signature) _____

Received by: (Printed) _____
 (Signature) _____

Dispatched by: (Printed) _____
 (Signature) _____

Received at Laboratory by: _____

Method of Shipment: _____
 Comments: _____

Condition of Containers Received Temp:
 Good Fair Poor

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7/20 1999 Time: 0700 Briefing Location: Lodge

Activities Planned: HTW Removal

Briefer: Chuck Deeth

Topic: Handling Loading Mt.

Topic: HTW PROCEDURES

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

MATT
Chuck Moly
Paul E. Egan
[Signature]
Steve Palmer
[Redacted]
David J. [Signature]
[Signature]

Harold Ogden
[Signature]
Steve Keller

Site Health and Safety Officer: [Signature]

Date: 7/20 1999

Field Memo

July 20, 1999

To: Mr. Steve Le Clerc

From: Randy Kasley

Subj: Comments and Clarification on PPE Requirements for Handling Batteries.

Site 12 contains about 12 deteriorated lead-acid batteries. Questions have been raised regarding PPE requirements for handling batteries:

Work Plan - Section 4.3.1 Requires an exclusion zone to minimize the spread of hazardous substances.

This section says all personnel in exclusion zones will wear Level "C" PPE.

Under Titles 40 & 49 of the Code of Federal Regulations, lead acid batteries are hazardous substances. Therefore section 4.3.1 identifies the required PPE for handling batteries.

Safety Plan - Section 7.1 Identifies chemical exposure hazards. Corrosive materials are listed as one of our chemical exposure hazards. Level "C" PPE is specified for this hazard.

Please note that we identify chemical exposure in most of our Activity Hazard Analysis. "Batteries present chemical exposure!"

Our Safety Plan was reviewed and approved by our CIH 5-13-

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Feature of Work: Drum Removal/HTW

CLIN: 3

Inspection: Initial

Relevant Specifications: SOW 1.3.1, SOW Table 2, 02050, 01130

Submittals: Work Plan, Health and Safety Plan, Environmental Protection Plan

Inspection Checklist

<u>Item</u>	<u>Yes</u>	<u>No</u>	<u>Not Obsrvd</u>
1. Is the proper PPE being worn?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is the work being conducted a safe manner?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Is spill containment being place correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Are drum inspected for liquids before the drums are disturbed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Are haul routes being maintained in a manner safe for vehicles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Are appropriate lifting and tie-down methods being used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Are staging areas fully-lined and liquid tight?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Are generators grounded?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. Is all fuel-powered equipment within lined areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Are GFI's in use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Are drum liquids and solids removed before rinsing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are drum solids and liquids properly contained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Are drums being triple rinsed? - <i>Drums dry & clean</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14. Is hot water being used for drum washing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. Is drum washing area fully contained and liquid tight?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16. Are washed drums free of any residue?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Are rinsates being properly collected for treatment.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18. Are drums fully crushed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. Are drum weights being entered on the correct ledger?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Amel Khan
CQC System Manager

7/20
Date

Environmental Quality Control/Quality Assurance Report

(ER 415-1-102)

Contract Number / Delivery Order Number ACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
C Report Number 016	Date or Time Period 7/21/99	Location and Team Gambell, Alaska	
Weather Conditions		Contractor	
Temp Low 43	Temp HI 49	Oil Spill Consultants, Inc.	
Wind Speed 3-10	Knots Conditions Sunny		

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action)

Preparatory see attached checklist

Initial see attached checklist

Follow-Up

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
--------------	---------------	---------------------	---------

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
--------------	------------------------	---------------------

Have required amount of QC trip blanks and rinsates been achieved? N/A Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) N/A Yes No

Have QA and QC samples been collected in the specified quantity? **Not required by Delivery Order** N/A Yes No

Have samples been properly labeled and packaged? N/A Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

afety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The safety meeting addressed the continuing hazards of the large earth moving trucks on the roads throughout the project area. All personnel were instructed to yield right of way to these vehicles at all times. Drivers were cautioned to maintain a safe travel speed while transporting debris. Debris falling from the vehicles while hauling must be avoided. The superintendent directed that chocks be made for ATV-drawn trailers. These trailers must be chocked while parked on sloped terrain.

A water heater was identified in west beach area (Area 8). The item was listed in the Delivery Order table as a "metal debris" item. Workers observed crumbling refractory material spilling from the unit. The CQC contacted the QAR to determine if the item had been previously been examined for asbestos. The QAR directed that the water heater be left in place pending a determination of asbestos content.

QAR SAFETY COMMENTS:

TRUCKS AND ATV'S ARE DRIVING CAUTIOUSLY. BOTH ARE LOCALS AND YIELD TO EACH OTHER. NO ONE IS HOT RODDING OR PASSING AT HIGH SPEEDS. TURNOUTS HAVE BEEN CONSTRUCTED TO EASE PASSING AT SOUTH END. TRUCKS ARE RESTRICTED TO SOUTH AND WEST ROADS,

WATER HEATER HAS A NEW PIBOX REFRACORY MADE MOSTLY OF PERALITE, THIS WAS NOT AN ASBESTOS SUSPECT MATERIAL AND WAS ON THE CATALOG.

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
HTRW Removal (NAS ID 0022, 02050)	HTW removal on Area 12, drum dump south of Troutman Lake, was completed today	100% of drums and other HTW at this site collected 100 % of drums and HTE. 6,873 lb to date	
Stained Soil Removal (NAS ID 0019, 02050)	Excavation of Stained soil associated with drums at Area 12 was completed today	100% of stained soil at this site collected 100 % of stained soil at this site weighed. 5,754 lb to date	
Debris Removal (NAS ID 0020, 02050)	Area, 12, small amounts of non-HTW metal debris segregated from drums was completed today	100% of metal debris at this site collected 100% of metal debris at this site weighed. 798 lb to date	

Manpower and Equipment

Labor Classification	Number	ManHours	Equipment Type	Number	Hours Used
Project Manager	1	3	4 wheeler	3	36
CQC System Manager	1	12	Cat 426 loader	1	2
Supenintendent	1	13	Argo	2	12
Archeologist	1	12	Nodwell	1	0
Operator	1	12	Pickup	1	12
Laborers	6	72	Cat 966 Loader	0	6
	Total Hours	124		Total Hours	68

Instructions Given by the Government to the Contractor (include names, reactions, and remarks.) Verbal Written
 The QAR directed that the water heater found on Area 8 be left in place pending a determination of Asbestos content.(see safety remarks)

Work Progress Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)

HTW removed from Area 12 totaled 6,873 lbs. Most of this was drums and batteries. This exceeds the Delivery Order estimate for that site of 2,550 lb. 798 lbs of non-hazardous metal debris was also removed, exceeding the 100 lb estimate in the delivery order.

Mr. Easley, the Contractor's Project Manager left the site today.

The Archeologist spent most of the day in Area 4 (the mountain top) with the, USACE village liaison Bert Oozevasouk. The Archeologist recorded: 1) human skull fragment within military dump at burned radar dish site on edge of cliff above old village well, along with military debris, and reburied it; 2) closed grave box with associated wood sled (first reported in Daily Report of 7/20/99) and nearby human phalange, reburied phalange; 3) open grave box with associated wood sled and ice probe (first reported in Daily Report of 7/20/99); 4) open grave box with associated wood sled and widely scattered human bones; 5) two isolated human phalanges.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above

Quality Control Manager Signature *[Signature]*

Date 7/23/99

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Continuation Sheet

Government Quality Assurance Comments

Concurs with the QC report?

Yes No

Additional comments or exceptions:

- HW DRUMS ALL TAKE A SCREENING PROCESS TO DETERMINE IF CONTAMINATED. CONTAMINATED DRUMS TAKE SPECIAL HANDLING. ALL CLOSED DRUMS ARE DESTROYED. ALL DRUMS UNLESS THEY ARE OBVIOUSLY DEBRIS FRAGMENTS ARE INCLUDED WITH HW. THIS SEEMS REASONABLE.
- STAINED SOIL IS TAKEN FROM UNDER DRUMS UNLESS IT IS WATER OR MUD AREA. NO OBVIOUS SIGNS OF PRODUCT HAVE YET BEEN FOUND.
- REBURY OF REMAINS CONTINUES, VERBAL OK TO PROCEED GIVEN TO ARCTED (CHUCK MORTZEL)
- NOD WELL IS STILL IN BAD SHAPE
- AREA 12 NEEDS TO BE GIVEN QC CHECK BEFORE FINAL. SOME DEBRIS IS REAPPEARING, PROBABLY BY WELL MEANING LOCUS.
- DAILY QUANTITIES ARE CAREFULLY TALLY'D AT END OF DAY.

QAR Signature

Steve L. Allen

Date

7-26-99

Supervisor's Initial

Date

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract t Wt	Actual Weight to Date	Contract t Wt	Actual Weight to Date	Contract t Wt	Actual Weight to Date	Contract t Wt	Actual Weight to Date
Site 2	1600		20					
Site 3	770		600					
Site 4/Area 4A	5410		2140					
Site 4/Area 4B	905		2230					
Site 4/Area 4D	1000		0				104000	
Site 5	315		0					
Area between site 5 and 3	55		100					
Site 6	350		0					
Site 7	150		0					
Site 8	115000	15372	6200	4025		0		
Site 10	1300		2300					
Site 12	100	798	2550	6873		5754		
Site 13	300		0					
Totals	127255	16170	16140	10898	40000	5754	104000	0
Percent of Contract Wt		13%		68%		14%		0%

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7/21 1999 Time: 0700 Briefing Location: Lodge

Activities Planned: Debris and Haz. HW Removal

Briefer: Chuck Heath

Topic: Checking trailers

Topic: Travel speed with load

Topic: Truck traffic

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Steve Palmer
Chuck Mobley
Chuck Heath
Carl Blakely
M. S.
John Baker
Bob Good
Mark Bin

Attendees Steve Miller
~~_____~~
Pat Kelly
Mark Cannon
Mark J. J.
James L. Clew
Tim E. E.

Site Health and Safety Officer: David S. P.

Date: 7/21 1999

Environmental Quality Control/Quality Assurance Report

(ER 415-1-102)

Contract Number / Delivery Order Number

DACA85-97-D-0010/D.O. 0004

UPC/Project Title

Debris Removal and Containerized Hazardous and Toxic Waste Removal

QC Report Number

99-017

Date or Time Period

7/22/99

Location and Team

Gambell, Alaska

Weather Conditions

Temp Low 39

Temp Hi 47

Wind Speed

10-25

Knots

Conditions Cloudy, Lt. rain

Contractor

Oil Spill Consultants, Inc.

Quality Control Inspections Performed This Date (include inspections, results, deficiencies observed, and corrective action)

Preparatory

see attached checklist

Initial

see attached checklist

Follow-Up

Was the deficiency tracking list updated this date

Yes No

Field Sampling and Testing

Has field testing been performed this date?

Yes No

Type of test

Method/Matrix

Quantity of samples

Results

Have Data Quality Objectives been achieved? N/A

Yes No

Have Samples Been Collected for Laboratory Analysis?

Yes No

Type of Test

EPA Test Method/Matrix

Quantity of Samples

Have required amount of QC trip blanks and rinsates been achieved?

N/A Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.)

N/A Yes No

Have QA and QC samples been collected in the specified quantity? Not required by Delivery Order

N/A Yes No

Have samples been properly labeled and packaged?

N/A Yes No

Health and Safety

Worker protection levels this date

Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space?

Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health?

Yes No

Were approved decontamination procedures used on workers and equipment as required?

Yes No

Safety Comments (include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The safety meeting addressed the need to keep ATV speeds at or below a reasonable level the Superintendent complimented the crew on their performance in this area. Employee rights with respect to safety and hazard communication was also addressed.

QAR SAFETY COMMENTS:

- 4 WHEEL ATV'S ARE MUCH FASTER THAN 8 WHEEL ARGO AND CAN APPROACH ARGO FROM REAR AT HIGH SPEEDS, ARGO IS HARD TO TRACK STRAIGHT ON NARROW FIELDS
- 'SOON ARGO NEEDS EMPLOYEE HAZARD NOTIFICATION (LUMBIED). WILL USE INITIAL INSP TO COMMUNICATE THIS

Environmental Quality Control/Quality Assurance Report
(EP 415 1 302)
Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Locate Sites(NAS ID 0011)	The boundaries of the following sites were surveyed, staked and reviewed by the QAR, completing this activity Site 2 on the level area northeast of the village Site 3 Along the base of the mountain near the village Site 5 the cable burial area from the village up the side of the mountain Site 6 in the center of the village near the high school Site 7 in the village near the municipal building	100% of sites surveyed	
HTRW Removal (NAS ID 0022, 02050)	HTW removal was started on Site 10 the road system HTW removal continued on Site 8 the west beach	717 lbs of HTW removed 4,025 lbs of HTW removed	
Stained Soil Removal (NAS ID 0019, 02050)	Stained Soil removal continued on Site 8, the west beach	1,259 lbs of stained soil at this site collected/weighed	
Debris Removal (NAS ID 0020, 02050)	Debris removal was completed on Area 13, a low density debris area east of the southern tip of Troutman lake Debris collection continued at Site 8 east of the northern end of the runway, between the runway and Troutman Lake	100% of metal debris, 25,419 lbs at this site collected 25,419 lbs of metal debris collected at this site to date	

Manpower and Equipment					
Labor Classification	Number	ManHours	Equipment Type	Hours Used	
				Number	Hours Used
Project Manager	1	3	4 wheeler	3	36
CQC System Manager	1	12	Cat 426 loader	3	2
Superintendent	1	13	Argo	4	28
Archeologist	1	12	Nodwell	1	0
Operator	1	12	Pickup	1	12
Laborers	6	72	Cat 966 Loader	1	11
Total Hours		124	Total Hours		89

Instructions Given by the Government to the Contractor (include names, reactions, and remarks) Verbal Written

The presence of drums in Site 6, near the High School, and Site 13 at the south end of Troutman Lake was brought to the attention of the QAR. No drums had been identified in these areas on the CON/HTW table in the delivery order. The QAR reviewed the drums and approved removal under the HTW line item of contract.

The QAR directed that the slopes of the mountain be placed "off limits" for CON/HTW and debris survey and removal. Work crews were not to enter these areas. The only exceptions were for the Project Archeologist who has rock climbing experience and the Project Liaison who is native to the area and very familiar with the terrain.

Work Progress Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work)

Telephone service off the Island was intermittently down today.
 Two additional Argos were mobilized to the site today.
 The QAR and the CQC toured Site 1 today. It was noted that this site, while not addressed in the delivery order, did contain metal debris that could be a hazard to the local community.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature  Date 

Environmental Quality Control/Quality Assurance Report

(ER 415 1 302)

Continuation Sheet

Government Quality Assurance Comments
concur with the QC report?
Additional comments or exceptions

Yes No

- DRUMS WERE MILITARY, NEAR SITE 6. PROBABLY MOVED BY KIDS. TOOK THEM AS PART OF AREA 6 HFW. FIELD CALL.
- STEEP SLOPE AREAS OFF LIMITS BECAUSE OF LACK OF CONTRACTOR PLANNING FOR EXECUTION HERE. NEEDED ROPES & GEAR AT DEBRIS FIELDS NEAR 4A, 4B. SOME MILD SLOPE WORK AT AREA 5 IS OK. CHECK MOBLEY AND BERT Q ARE EXCEPTIONS. THEY DO NOT MOVE DEBRIS AND DO NOT WORK WHERE IT IS UNSAFE TO GO. (CONTRACTOR CONTENDS THE SLOPE WORK WAS EXCLUDED BY UNDERSTANDING AT NEGOTIATIONS (UNWRITTEN) AND THIS WOULD BE DONE ONLY WITH MODIFICATION & NOTICE. SINCE THIS IS A DELAY ITEM.

QAR Signature

Steve Lohr

Date

7-25-99

Supervisor's Initial

Date

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract t Wt	Actual Weight to Date	Contract t Wt	Actual Weight to Date	Contract t Wt	Actual Weight to Date	Contract t Wt	Actual Weight to Date
Site 2	1600		20					
Site 3	770		600					
Site 4/Area 4A	5410		2140					
Site 4/Area 4B	905		2230					
Site4/Area 4D	1000		0				104000	
Site 5	315		0					
Area between site 5 and 3	55		100					
Site 6	350		0					
Site 7	150		0					
Site 8	115000	25419	6200	4025		1259		
Site 10	1300	0	2300	717		0		
Site 12	100	798	2550	7829		6302		
Site 13	300	343	0	0		0		
Totals	127255	26560	16140	12571	40000	7561	104000	0
Percent of Contract Wt		21%		78%		19%		0%

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 1/27/99 1999 Time: 10:00 Briefing Location: 20072

Activities Planned: 45 min meeting with site manager

Briefer: John Smith Topic: Site Safety

Topic: _____

Topic: _____

Briefer: John Smith

Topic: Site Safety

Topic: Site Safety

Topic: _____

Attendees

John Smith

Charles McMillan

~~_____~~

John Smith

John Smith

John Smith

John Smith

John Smith

Charles McMillan

Charles McMillan

John Smith

Site Health and Safety Officer: John Smith

Date: 1/27 1999

HOT WORK PERMIT

Contract: DACA95-97-D-0010. D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Type of Work: CHIP SAW SAWING

Heat Producing Device: CHIP SAW Operator: CURT BASKIN

Location: AREA 13 Fire Guard: CRAIG BLANCH

Scheduled Work Date: 7/22/99 Time Start: 1:00 PM Time Finished: 3:00 PM

The Checklist Below Was Reviewed

Superintendent: C. Heath Date: 7/22/99 SHSO: [Signature] Date:

COMPLETE IMMEDIATELY PRIOR TO WORK

Hot Work Checklist

Item	N/A	Yes	No
1. Are all flammables and at least 50 ft away?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Is the operator fully qualified to operate the equipment?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Has the Fire Guard been identified and briefed to observe the area for 1 hour after work is complete?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Has emergency communication procedures been checked?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is and ABC extinguisher present and is it in working order?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Have the tools and equipment been inspected for safety?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Is the correct PPE being worn?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Has the area been checked for flammable or explosive vapors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Have containers been checked for explosive/ flammable residue or vapors? (drums and tanks)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Are torch hoses purged before lighting (torches only)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Are nozzles and hoses in good repair? (torches only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMPLETE AFTER WORK

Time Start: 2:00 PM Time Finished: 4:00 PM Fire Guard Released: 5:00 PM

Superintendent: [Signature] Date: 7/22/99 SHSO: [Signature] Date:

Environmental Quality Control/Quality Assurance Report

(REVISED)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 99-018	Date or Time Period 7/23/99	Location and Team Gambell, Alaska	
Weather Conditions		Contractor	
Temp Low 45	Temp Hi 47		
Wind Speed 27-36	Knots	Conditions Cloudy, Blowing Rain	Oil Spill Consultants, Inc.

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action.)

Preparatory see attached checklist

Initial see attached checklist

Follow-Up

NO INSPECTIONS TODAY

Was the deficiency tracking list updated this date? Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
--------------	---------------	---------------------	---------

NO FIELD TESTING TODAY

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
--------------	------------------------	---------------------

NO SAMPLING TODAY

Have required amount of QC trip blanks and rinsates been achieved? **N/A** Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) **N/A** Yes No

Have QA and QC samples been collected in the specified quantity? **Not required by Delivery Order** **N/A** Yes No

Have samples been properly labeled and packaged? **N/A** Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D **N/A**

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

At the safety meeting, the Argo operators video was shown to the crew. The superintendent address the importance of operating these machines within their designed performance limits. The difference between Argos and four wheelers including the wider stance and lower ground clearance was emphasized.

A high wind warning was issued later in the day as peak gusts approached 40 knots. Personnel were advised to use extra caution and be prepared to seek shelter if necessary.

QAR SAFETY COMMENTS:

HIGH WINDS A PROBLEM TODAY

Environmental Quality Control/Quality Assurance Report

(ER 475 1 JG2)

Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Locate Sites(NAS ID 0011)	The archeological site added to Site 8 was surveyed, staked and reviewed by the QAR	100% of sites surveyed and one new site added	
HTRW Removal (NAS ID 0022 02050)	6 Tar barrels were removed from Site 8 the west beach	6 235 lb removed to date from this site	
	Drums and 2 Tanks removed from Site 3 at the mountain base	653 lbs of HTW removed This site 100%	
	Drum removal was completed on Site 6 North of the High School	100% complete 2 418 lb of debris removed	
Stained Soil Removal (NAS ID 0019, 02050)	Stained Soil removal continued on Site 8 the west beach	6,235 lbs of stained soil at this site collected/weighed	
Debris Removal (NAS ID 0020, 02050)	Debris removal was completed except for final pickup on Site 3 at the base of the mountain	95% of metal debris, 159 lbs at this site collected	
	Debris removal was completed except for final pickup on Site 2 east of the mountain on the gravel flats	95% complete Debris was weighed with Site 3 Debris	
	Debris removal was completed except for final pickup on Site 6 North of the High School	95% complete 7897 lb of debris removed	
	Debris removal was completed except for final pickup on Site 7 west of the High School	95% complete No measurable debris recovered	

Manpower and Equipment

Labor Classification	Number	ManHours	Equipment Type	Number	Hours Used
Project Manager	1	3	4 wheeler	3	36
CQC System Manager	1	12	Cat 426 loader	1	3
Superintendent	1	13	Argo	4	36
Archeologist	1	12	Nodwell	1	0
Operator	1	12	Pickup	1	4
Laborers	7	84	Cat 966 Loader	1	10
Total Hours		124	Total Hours		89

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks)

Verbal Written

After a tour of the historic site between the north end of the runway and the village, and west of the village road, by the QAR, Superintendent, and Project Archeologist, the Archeologist determined that the surface debris could be recovered without significant archeological impact. The QAR directed that the boundaries of Site 8 (the West Beach) be expanded to incorporate the historic site. The QAR further directed that work must be performed by local labor and the Archeologist would supervise. Mechanical excavation would not be permitted, with all debris collection being performed by hand.

Work Progress Are there any Contractor caused delays or potential finding of fact?
 Are there any Government caused delays or potential finding of fact?
 Are there any unforeseeable or weather related delays?

Yes No
 Yes No
 Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work)

High cross winds kept planes from landing. This prevented a USACE staff visit.

The CQC requested a preparatory inspection for debris, soil, and HTW removal in Sites 10 (the trail system and tundra) and Site 4 (the mountain top) for the morning of 7/26.

The archeologist coordinated grave protection and archeology procedures with USACE Project Manager Suzanne Beauchamp via telephone. Later in the day he monitored debris clean-up in Area 3 and reburied six human bones with Project Liaison Bert Oozevaseuk as villager witness.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above

Quality Control Manager Signature *[Signature]*

Date *7/26/02*

Environmental Quality Control/Quality Assurance Report

(ER 415 1 302)

Continuation Sheet

Government Quality Assurance Comments

Concurs with the QC report?

Additional comments or exceptions

Yes No

METAL DEBRIS REMOVED IN NEUTRIONAL AREA WAS
DUE TO EXCESS MATERIAL. TENAGE LEFT AFTER POWER
CABLE INTERFERENCE, PHONE CONVERSATIONS WITH RENE NESS
INDICATED THIS WOULD BE OK IF AMOUNTS WERE NOT EXCEEDED.
WILL DISCUSS WITH PM LATER.

QAR Signature Steve Lohr Date 7-24-99 Supervisor's Initial _____ Date _____

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract t Wt	Actual Weight to Date	Contract t Wt	Actual Weight to Date	Contract t Wt	Actual Weight to Date	Contract t Wt	Actual Weight to Date
Site 2	1600		20					
Site 3	770	159	600	653		0		
Site 4/Area 4A	5410		2140					
Site 4/Area 4B	905		2230					
Site4/Area 4D	1000		0				104000	
Site 5	315		0					
Area between site 5 and 3	55		100					
Site 6	350	2418	0	7897		0		
Site 7	150		0					
Site 8	115000	25419	6200	6235		2470		
Site 10	1300	0	2300	717		0		
Site 12	100	798	2550	7829		6302		
Site 13	300	343	0	0		0		
Totals	127255	29137	16140	23331	40000	8772	104000	0
Percent of Contract Wt		23%		145%		22%		0%

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7/23 1999 Time: 3:00 Briefing Location: Lodge

Activities Planned: Debris Removal

Briefer: Chuck Heath Topic: Argo Operation

Briefer: _____ Topic: _____
Topic: _____
Topic: _____
Topic: _____

Dave Smith
Chuck Heath
Wally Hays
[Redacted]
MA Tim
Robert Ogden
Mark Smith

Attendees

Charles M. Mollie
M. S. [Redacted]
Steve Papen
[Redacted]
Steve Lohman

Site Health and Safety Officer: [Signature]

Date: 7/23 1999

HOT WORK PERMIT

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Type of Work: CHOP SAW METAL

Heat Producing Device CHOP SAW Operator: COFF BLAKELEY

Location: AREA SIX Fire Guard: GRANT BLAKELEY

Scheduled Work Date: 7/23/99 Time Start: 1:00 PM Time Finished: _____

The Checklist Below Was Reviewed

Superintendent: [Signature] Date: 7/23/99 SHSO: [Signature] Date: 7/23

COMPLETE IMMEDIATELY PRIOR TO WORK

Hot Work Checklist

Item	N/A	Yes	No
1. Are all flammables and at least 50 ft away?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Is the operator fully qualified to operate the equipment?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Has the Fire Guard been identified and briefed to observe the area for 1 hour after work is complete?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Has emergency communication procedures been checked?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is and ABC extinguisher present and is it in working order?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Have the tools and equipment been inspected for safety?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Is the correct PPE being worn?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Has the area been checked for flammable or explosive vapors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Have containers been checked for explosive/ flammable residue or vapors? (drums and tanks)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Are torch hoses purged before lighting (torches only)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Are nozzles and hoses in good repair? (torches only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMPLETE AFTER WORK

Time Start: 1:00 PM Time Finished: 3:00 PM Fire Guard Released: 4:00 PM

Superintendent: [Signature] Date: 7/23/99 SHSO: [Signature] Date: _____

Environmental Quality Control/Quality Assurance Report

(FR 4151-102)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 99-019	Date or Time Period 7/24/99	Location and Team Gambell, Alaska	
Weather Conditions Temp Low 42 Temp HI 47		Contractor Oil Spill Consultants, Inc.	
Wind Speed 10-21	Knots	Conditions Cloudy, Intermittent rain	

Quality Control Inspections Performed This Date (Include inspections results deficiencies observed and corrective action)

Preparatory see attached checklist
 Initial see attached checklist
 Follow-Up

NO INSPECTIONS TODAY

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
NO FIELD TESTING TODAY			

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
NO SAMPLING TODAY		

Have required amount of QC trip blanks and rinsates been achieved? N/A Yes No
 Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) N/A Yes No
 Have QA and QC samples been collected in the specified quantity? **Not required by Delivery Order** N/A Yes No
 Have samples been properly labeled and packaged? N/A Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The dangers of high winds were discussed at the safety meeting. The potential for serious injury from wind-blown objects was emphasized. The Superintendent also stress precautionary steps to take in the event of high winds. These included limiting activities that involved sheet metal and other material that could create hazardous conditions during high winds. The Need to stay dry while working and the dangers of hypothermia was also discussed.

QAR SAFETY COMMENTS:

WARMUP SITE/TEX IN PLACE AT CONEXES. HOT DRINKS ARE AVAILABLE, CHECKED PPE. HARD HATS & BOOTS OK. NEED MORE SAFETY SHOES, THEY ARE ON ORDER.

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)
Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
HTRW Removal (NAS ID 0022, 02050)	Drums and 2 Tanks removed from Site 3 at the mountain base	1 150 lb of HTW removed	This site 100%
Stained Soil Removal (NAS ID 0019, 02050)	Stained Soil removal started at oil spill site in Site 2 Work halted when extensive contamination was discovered	24,985 lb of stained soil at this site collected/weighed	
Debris Removal (NAS ID 0020, 02050)	Debris removal was completed on Site 3 at the base of the mountain	100% of metal debris removed	
	Debris removal was completed on Site 2 east of the mountain on the gravel flats	100% complete	Debris was weighed with Site 3 Debris
	Debris removal was completed except for final pickup on Site 6 North of the High School	100% complete	7897 lb of debris removed
	Debris removal was completed except for final pickup on Site 7 west of the High School	100% complete	No measurable debris recovered
	Debris removal started on Site 5 the cable area up the slope east of the High School	2,418 lbs removed to date	20% complete
Contaminated Soil (NAS ID 0016, 02220)	A trail was blazed through the tundra to the Mountain Top and through the boulder field to Site 4B Trail improvements made and field survey made for possible staging areas		

Manpower and Equipment

Labor			Equipment		
Classification	Number	ManHours	Type	Number	Hours Used
Project Manager	1	0	4 wheeler	3	36
CQC System Manager	1	14	Cat 426 loader	1	5
Supenntendent	1	13	Argo	4	36
Archeologist	1	12	Nodwell	1	0
Operator	1	12	Pickup	1	0
Laborers	7	84	Cat 966 Loader	1	10
Total Hours:		135	Total Hours:		87

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks) Verbal Written

Excavation of stained soil was initiated at the oil spill site near the base of the mountain in Site 3. It soon was discovered that significant amounts of product had penetrated deeper then 3 ft. and laterally greater than 30 ft. An inspection of the excavation of the site was made by CQC Dave Rein. He suspend the work as it appeared to be beyond the contract intent to removed stained soil associated with drums and other debris. The CQC contacted the QAR Steve LeClerc and who concurred with the interpretation of the contract and decision to suspend work in that area.

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work)

Richard Jackson, of the Environmental Engineering section of the USACE Alaska District arrived on site today. He and QAR Steve LeClerc coordinated on technical issues and toured the cleanup sites.

The Project Archeologists received a copy of USACE letter to three Gambell government. entities regarding artifact and burial protection protocols. Later in the day he interviewed Cheryl Koonooka about her 1997 4-wheeler accident on military debris. This type of information will be used for project context in the final report.

I certify that the above report is complete and correct and that all materials and equipment used work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above

Quality Control Manager Signature *David L. K...*

Date 1/25/99

Environmental Quality Control/Quality Assurance Report

(ER 415-1 302)

Continuation Sheet

Government Quality Assurance Comments

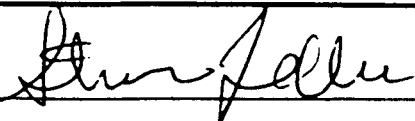
Concurs with the QC report?

Additional comments or exceptions

Yes No

WORK SUSPENSION OF STAINED SOIL AFTER MANY CYCLES
TAKEN FROM THIS AREA ALREADY. INSPECTION OF EI, FOUND
IN LOCAL LIBRARY, SHOWED THIS AREA WAS AN OIL SPILL SITE.
IT WAS NOT MARKED AS SUCH ON ONE CONTRACT DOCUMENTS.
RICHARD & SUZANNE WILL ADVISE MEDIATOR.

QAR Signature



Date

7-26-99

Supervisor's Initial

Date

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract t Wt	Actual Weight to Date	Contract t Wt	Actual Weight to Date	Contract t Wt	Actual Weight to Date	Contract t Wt	Actual Weight to Date
Site 2	1600	0	20	0		24985		
Site 3	770	159	600	1150		0		
Site 4/Area 4A	5410		2140					
Site 4/Area 4B	905		2230					
Site4/Area 4D	1000		0				104000	
Site 5	315	2418	0	7897		574		
Area between site 5 and 3	55		100					
Site 6	350	0	0	0		0		
Site 7	150		0					
Site 8	115000	25419	6200	6235		2470		
Site 10	1300	0	2300	717		0		
Site 12	100	798	2550	7829		6302		
Site 13	300	343	0	0		0		
Totals	127255	29137	16140	23828	40000	34331	104000	0
Percent of Contract Wt		23%		148%		86%		0%

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7/24 1999 Time: 10:00 Briefing Location: 1000

Activities Planned: Cutting off debris collection

Briefer: Chuck Hood Topic: High Winds

Topic: Storage

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

[Signature]
[Signature]
[Signature]
[Signature]
[Signature]
[Signature]
[Signature]

[Signature]

Site Health and Safety Officer: _____

Date: _____ 1999

Environmental Quality Control/Quality Assurance Report

(ER 415-1-102)

Contract Number / Delivery Order Number: **DACA85-97-D-0010/D.O. 0004** UPC/Project Title: **Debris Removal and Containerized Hazardous and Toxic Waste Removal**

QC Report Number: **9-020** Date or Time Period: **7/25/99** Location and Team: **Gambell, Alaska**

Weather Conditions: **Temp Low 45 Temp Hi 47**
 Wind Speed: **calm-3 Knots** Conditions: **Cloudy** Contractor: **Oil Spill Consultants, Inc.**

Quality Control Inspections Performed This Date (Include inspections results deficiencies observed, and corrective action)
 Preparatory: see attached checklist
 Initial: see attached checklist
 Follow-Up: Follow up inspection of drum processing and loading identified incompletely washed drums (See deficiency tracking form 001)

Was the deficiency tracking list updated this date: Yes No

Field Sampling and Testing
 Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
NO FIELD TESTING TODAY			

Have Data Quality Objectives been achieved? N/A Yes No

Have Samples Been Collected for Laboratory Analysis?
 Type of Test EPA Test Method/Matrix Quantity of Samples Yes No

NO SAMPLING TODAY
 Have required amount of QC trip blanks and rinsates been achieved? N/A Yes No
 Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) N/A Yes No
 Have QA and QC samples been collected in the specified quantity? Not required by Delivery Order N/A Yes No
 Have samples been properly labeled and packaged? N/A Yes No

Health and Safety
 Worker protection levels this date: Level A Level B Level C Level D N/A
 Was any work activity conducted within a confined space? Yes No
 Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No
 Were approved decontamination procedures used on workers and equipment as required? Yes No
 Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken)

The superintendent addressed the need for extreme caution while operating ATVs near the cliff edge at the top of the mountain. This was in connection with the preparations that were being made for the work in Site 4 at the top of the mountain. Safe speeds and loading of ATV trailers while transporting debris was also discussed.

QAR SAFETY COMMENTS:

- 2 CONEXES CHECKED AND ARE SUSPECT CONTAMINATED. SPT WILL TRACK ON DEFICIENCY LIST UNTIL CLEARED.
- MOBILIZING TOP OF MT (SITE 4) DEBRIS GATHERING TO START SOONER THAN 4D, 4B.
- ATV TRACKS ON ^{WATER} ATV ARE BEST FOR TUNDRA WORK. TIRES ARE FASTER BUT PUT RUTS IN STEEP SLOPES.

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
HTRW Removal (NAS ID 0022, 02050)	Drums removed from Site 10, off the roads near the south end of Troutman Lake	5,990 lb of HTW removed to date	This site 20%
Debris Removal (NAS ID 0020, 02050)	Previously-stockpiled debris from Site 8 (the west beach) was weighed and loaded	39,621 lb of HTW removed to date	This site 60%
Contaminated Soil (NAS ID 0016, 02220)	A trail work continued onn trail improvements to the Mountain Top and through the boulder field to Site 4B		

Manpower and Equipment		Labor		Equipment	
Classification	Number	ManHours	Type	Number	Hours Used
Project Manager	1	0	4 wheeler	3	36
QC System Manager	1	12	Cat 426 loader	1	0
Supennitent	1	13	Argo	4	36
Archeologist	1	12	Nodwell	1	0
Operator	1	12	Pickup	1	12
Laborers	7	84	Cat 966 Loader	1	10
Total Hours:		133	Total Hours:		94

Instructions Given by the Government to the Contractor (include names, reactions, and remarks) Verbal Written
 The government officially removed the soil dumping area site near the base of the mountain in Site 3 from the project. The QAR confirmed that it was beyond the contract intent of removing stained soil associated with drums and other debris. The QAR further confirmed that this was a major spill area that had only been included in the contract because of government error.

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)
 Richard Jackson, of the Environmental Engineering section of the USACE Alaska District departed site today.
 The Project Archeologist gather taped interviews for background material associated with the final report.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above

Quality Control Manager Signature *[Signature]* Date 7/25

Government Quality Assurance Comments Yes No
 Concur with the QC report?
 Additional comments or exceptions:
 PROPOSED SOLUTIONS TO ALL ISSUES WERE RETURNED BACK TO PM BY RICHARD JACKSON. TENTATIVE SOLUTIONS WERE DEFERRED UNTIL PM ADVISES. ALSO WAITING FOR JOHN JACKSON TO GIVE ME FINAL WORDS. CONTRACTOR HAS PLenty TO WORK ON NOW, SO THERE IS NO GENERAL WORK STOPPAGE AT THE SITE.
 DEFINITION OF STAINED SOIL CLARIFIED AS PRODUCT STAINS. RUST STAINS WILL NOT BE PICKED UP AGAIN.

QAR Signature *[Signature]* Date 7-26-99 Supervisor's Initial _____ Date _____

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract t Wt	Actual Weight to Date	Contract t Wt	Actual Weight to Date	Contract t Wt	Actual Weight to Date	Contract t Wt	Actual Weight to Date
Site 2	1600	0	20	0		24985		
Site 3	770	159	600	1150		0		
Site 4/Area 4A	5410		2140					
Site 4/Area 4B	905		2230					
Site4/Area 4D	1000		0				104000	
Site 5	315	2992	0	7897		0		
Area between site 5 and 3	55		100					
Site 6	350	0	0	0		0		
Site 7	150		0					
Site 8	115000	39621	6200	7494		1211		
Site 10	1300	0	2300	5990		0		
Site 12	100	798	2550	7829		6302		
Site 13	300	343	0	0		0		
Totals	127255	43913	16140	30360	40000	32498	104000	0
Percent of Contract Wt		35%		188%		81%		0%

Deficiency Tracking Report

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
DTL 001	Date or Time Period 7/25/99	Location and Team Gambell, Alaska	

Description of deficiency:

Inspection of processed drums in connexes 201291 and 205563 noted the following deficiencies:

1. A petroleum odor indicated that at least one drum in each connex had been insufficiently cleaned.
2. A bent and perforated but otherwise intact drum indicated that drums had not been deheaded.
3. Excessive dirt on the surfaces of some drum remnants indicated that soil was not being removed before processing.

Corrective Action:

1. Connexes to be unpacked.
2. Processed drums to be inspected.
3. Drums requiring deheading and washing to be processed accordingly.
4. Connexes to be decontaminated.
5. Contaminated soil from floor of connex to be containerized for disposal.
6. Connexes to be reinspected.

CQC Signature *[Signature]* Date 7/29/99

Government Quality Assurance Comments

Concurs with the corrective action?

Yes No

Additional comments or exceptions:

CONCUR WITH PIK STATES

QAR Signature *[Signature]* Date 7-25-99

Reinspection of Corrected Deficiency

CQC Signature _____ Date _____

Government Quality Assurance Comments

Deficiency corrected?

Yes No

Additional comments or exceptions

QAR Signature _____ Date _____

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7/29 1999 Time: 0700 Briefing Location: hedge

Activities Planned: DEBRIS / HTW REMOVAL

Briefer: CHUCK HEATH

Topic: Driving along Cliff

Topic: Speed W/ATV Rentals

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

[Signature]
Charles M. Medley
[Signature]
[Signature]
[Signature]
[Signature]
[Signature]
[Signature]

[Signature]
[Signature]
[Signature]
[Signature]

Site Health and Safety Officer: _____

Date: _____ 1999

Environmental Quality Control/Quality Assurance Report

(ER 415-1-30C)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 99-021	Date or Time Period 7/26/99	Location and Team Gambell, Alaska	
Weather Conditions		Contractor	
Temp Low 45	Temp HI 48	Oil Spill Consultants, Inc.	
Wind Speed calm-3	Knots		
Conditions Cloudy, intermittent light rain			

Quality Control Inspections Performed This Date (include inspections, results, deficiencies observed, and corrective action)

Preparatory	<input checked="" type="checkbox"/> see attached checklist	Preparatory inspection for debris, HTW, and contaminated soil removal from Site 4, the mountain top
Initial	<input type="checkbox"/> see attached checklist	
Follow-Up	<input checked="" type="checkbox"/>	Follow up inspection of drum processing and loading identified open seam in staging area liner (See deficiency DTL 001) Follow up inspection of drum processing showed corrected deficiencies (See deficiencies DTL 001, and DTL 002)

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
--------------	---------------	---------------------	---------

NO FIELD TESTING TODAY

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
--------------	------------------------	---------------------

NO SAMPLING TODAY

Have required amount of QC trip blanks and rinsates been achieved?	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.)	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Have QA and QC samples been collected in the specified quantity? Not required by Delivery Order	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Have samples been properly labeled and packaged?	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>

Health and Safety

Worker protection levels this date Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The superintendent addressed the need to work with the new local-hire personnel that were added to the project today. These people needed to be integrated into the buddy system, and assisted to insure that they were fully aware of the required safety practices. The need to use caution while operating around equipment was addressed. The requirement for only one spotter as well as the need for personnel on the ground to be cognizant of the equipment movement area was emphasized. Other potential hazards addressed at the meeting included the safe use of portable generators and loading metal into connexes

QAR SAFETY COMMENTS:

FOG & RAIN OBSCURES AREA, NEEDED TO STAY TOGETHER. SEARCH IS DIFFICULT IN THIS WEATHER.

Environmental Quality Control/Quality Assurance Report

(ER 415-1 302)

Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
HTRW Removal (NAS ID 0022, 02050)	Previously removed drums from Site 10, were sorted and processed	5,990 lb of HTW removed to date	This site 20%
Debris Removal (NAS ID 0020, 02050)	Sweeps by personnel on foot were conducted in 8, (the west beach) along the west shore of Troutman Lake	39,621 lb of Debris removed to date	This site 60%
Contaminated Soil (NAS ID 0016, 02220)	Trail work continued on trail improvements to the Mountain Top and through the boulder field to Site 4B. Argos were modified to carry loads over the Tundra, and emergency equipment was prepared for transport to the mountain top		

Manpower and Equipment		Equipment	
Labor Classification	Number	Type	Hours Used
Project Manager	1	4 wheeler	36
CQC System Manager	1	Cat 426 loader	4
Superintendent	1	Argo	36
Archeologist	1	Nodwell	0
Operator	1	Pickup	12
Laborers	13	Cat 966 Loader	4
Total Hours: 178		Total Hours: 92	

Instructions Given by the Government to the Contractor (include names, reactions, and remarks) Verbal Written

The QAR informed the CQC and Superintendent that he wish to be present for the operating load test of the Argos crossing the tundra.

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)

Four new local-hire personnel were added to the project today.

The Contractor's Project manager arrived on site today.

The Project Archeologist delivered an archaeology and human bone protection briefing to the field crew at morning safety meeting. He coordinated with the QAR on the potential use of additional Native liaisons. He also collected more verbal histories to use as contextual material in the final report.

The QAR informed the CQC that the water heater with suspect asbestos had been previously sampled. It had been determined to contain no asbestos.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above

Quality Control Manager Signature *[Signature]* Date 7/27

Government Quality Assurance Comments Yes No
 Concur with the QC report?
 Additional comments or exceptions

WATER HEATER WAS NON FIBROUS, NOT SUSPECT. PLACED AS CATALOG. 3 HOURS.
 LOAD TEST OF MCO NEEDED TO ASCERTAIN TUNDRA DAMAGE AND OBSERVE LOAD LIMITS OF MACHINES.

QAR Signature *[Signature]* Date 7-27-99 Supervisor's Initial _____ Date _____

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contractac t Wt	Actual Weight to Date	Contractac t Wt	Actual Weight to Date	Contractac t Wt	Actual Weight to Date	Contractac t Wt	Actual Weight to Date
Site 2	1600	0	20	0		24985		
Site 3	770	159	600	1150		0		
Site 4/Area 4A	5410		2140					
Site 4/Area 4B	905		2230					
Site4/Area 4D	1000		0				104000	
Site 5	315	0	0	0		0		
Area between site 5 and 3	55		100					
Site 6	350	2992	0	7897		0		
Site 7	150		0					
Site 8	115000	39621	6200	7494		1211		
Site 10	1300	0	2300	5990		540		
Site 12	100	798	2550	7829		7830		
Site 13	300	343	0	0		0		
Totals	127255	43913	16140	30360	40000	34566	104000	0
Percent of Contract Wt		35%		188%		86%		0%

Deficiency Tracking Report

Contract Number / Delivery Order Number: **DACA85-97-D-0010/D.O. 0004**
UPC/Project Title: **Debris Removal and Containerized Hazardous and Toxic Waste Removal**
DTL: **001** Date or Time Period: **7/25/99** Location and Team: **Gambell, Alaska**

Description of deficiency:

Inspection of processed drums in connexes 201291 and 205563 noted the following deficiencies:

1. A petroleum odor indicated that at least one drum in each connex had been insufficiently cleaned.
2. A bent and perforated but otherwise intact drum indicated that drums had not been deheaded.
3. Excessive dirt on the surfaces of some drum remnants indicated that soil was not being removed before processing.

Corrective Action:

1. Connexes to be unpacked.
2. Processed drums to be inspected.
3. Drums requiring deheading and washing to be processed accordingly.
4. Connexes to be decontaminated.
5. Contaminated soil from floor of connex to be containerized for disposal.
6. Connexes to be reinspected.

CQC Signature: [Signature] Date: 7/25/99

Government Quality Assurance Comments

Concurs with the corrective action? Yes No

Additional comments or exceptions:

REINSPECTION SUCCESSFUL. SAFETY GUARDS ARE IN EFFECT TO PREVENT FURTHER OCCURRENCE.

QAR Signature: [Signature] Date: 7-26-99

Reinspection of Corrected Deficiency

Partial reinspection of connex 201291, 0900 hrs, 7/26/99:

Results: Connex fully decontaminated (clean of dirt, no diesel smell) suspect drums segregated. Clean drums repacked into new connex. No diesel smell, minimal dirt residue.

Final reinspection of connex 205563, 1800 hrs, 7/26/99:

Results: Connex fully decontaminated (clean of dirt, no diesel smell) suspect drums segregated. Clean drums repacked into new connex. No diesel smell, minimal dirt residue.

A suspect drums staged in bermed and lined area, heads cut open for inspection and cleaning.

CQC Signature: [Signature] Date: 7/26 Deficiency corrected? Yes No

Government Quality Assurance Comments

Deficiency corrected? Yes No

Additional comments or exceptions:

QAR Signature: [Signature] Date: 7.26.99

Deficiency Tracking Report

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal
DTL 002	Date or Time Period 7/26/99	Location and Team Gambell, Alaska

Description of deficiency:

Inspection of the lined area where incoming drums are opened and inspected reveal an unsealed seam across the center of the containment area. This created the potential for leaks.

Corrective Action:

1. Improved the integrity of the lined area to prevent the potential for leaks

CQC Signature *And L Br.* Date 7/26/99

Government Quality Assurance Comments

Concurs with the corrective action?

Yes No

Additional comments or exceptions:

QAR Signature *Steve Liden* Date 7-26-99

Reinspection of Corrected Deficiency

Reinspection of the lined area at 1800 hrs. on 7/26/99 revealed that an additional layer of liner had been placed over the center section restoring the integrity of the seamed area. Plywood had been added on top of the liner to protect the liner from puncture from the staged drums.

CQC Signature *And L Br.* Date 7/26/99 Deficiency corrected? Yes No

Government Quality Assurance Comments

Deficiency corrected? Yes No

Additional comments or exceptions:

QAR Signature *Steve Liden* Date 7-26-99

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7/26/ 1999 Time: 7:00 AM Briefing Location: LODGE

Activities Planned: 4000 Debris Collection

Briefer: HEATH

Topic: NEW HIRES

Topic: THROWING METAL IN CAN

Topic: GENERATOR PROBLEMS

Briefer: _____

Topic: WORKING AROUND LOAD

Topic: _____

Topic: _____

Attendees

Chuck Heath
M. D.
Chuck Mobley
Pat Ting
Mark Green
Don Green
Debbie O'Connell
W. Kelly

Steve Lellan
George
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Site Health and Safety Officer: [Signature]

Date: 7/26 1999

HOT WORK PERMIT

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Type of Work: CUTTING PIPE + MISC. METALS

Heat Producing Device CHOP SAW Operator: C. BLAKELY

Location: SOUTH CONCRETES Fire Guard: G. BLAKELY

Scheduled Work Date: 7/26/99 Time Start: 9:00 Time Finished: _____

The Checklist Below Was Reviewed

Superintendent: C. Heath Date: 7/26/99 SHSO: _____ Date: _____

COMPLETE IMMEDIATELY PRIOR TO WORK

Hot Work Checklist

Item	N/A	Yes	No
1. Are all flammables and at least 50 ft away?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Is the operator fully qualified to operate the equipment?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Has the Fire Guard been identified and briefed to observe the area for 1 hour after work is complete?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Has emergency communication procedures been checked?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is an ABC extinguisher present and is it in working order?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Have the tools and equipment been inspected for safety?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Is the correct PPE being worn?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Has the area been checked for flammable or explosive vapors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Have containers been checked for explosive/ flammable residue or vapors? (drums and tanks)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Are torch hoses purged before lighting (torches only)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Are nozzles and hoses in good repair? (torches only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMPLETE AFTER WORK

Time Start: 8:50 Time Finished: 3:00 Fire Guard Released: 40

Superintendent: [Signature] Date: 7/26 SHSO: [Signature] Date: 7/26

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Feature of Work: Contaminated Soil Removal, Debris Removal, HTW Removal, Site 4 **Inspection:** Initial

Relevant Specifications: SOW 1.3.1, SOW Table 1, SOW Table 2, 02220, 01130, 01450,

Submittals: Work Plan

Inspection Checklist

<u>Item</u>	<u>Yes</u>	<u>No</u>	<u>Not Obsr'd</u>
1. Have the limits of excavation for contaminated soil been defined?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Have vehicle routes been explored and marked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Have debris, HTW, and soil staging and transfer points been identified and marked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Has the method of crew shelter been defined and sited and the structure inspected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Have crew subsistence procedures been coordinated with the kitchen?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Have storm, emergency evacuation, and communications procedures been developed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Has the method of containerizing excavated soil been developed and Sufficient containers on hand?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Have the modifications to the Argos been tested to insure that they can carry the anticipated weight and loading method over the terrain anticipated.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Have Argo operators been tested to insure they can operate safely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have PPE for each activity been defined?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have decontamination procedures been defined?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Have vehicles been inspected for safety and operating condition??	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

- 1) Stake Site boundaries
- 2) Boundary stakes need to be differentiated from route stakes and marked.
- 3) List HTW items out in existing Table 2

[Signature]
CQC System Manager

7/21/11
Date

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Feature of Work: Contaminated Soil Removal, Debris Removal, HTW Removal, Site 4 Inspection: Initial

Remarks (continued)

- 4) inventory super drums / second hand cracker
- 5) check by item (7) and B
- 6) inspect tents for snow mold
- 7) see item (12) well not yet ready for service.

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Contract Number / Delivery Order Number
DACA85-97-D-0010/D.O. 0004

UPC/Project Title
Debris Removal and Containerized Hazardous and Toxic Waste Removal

Report Number
.22

Date or Time Period
7/27/99

Location and Team
Gambell, Alaska

Weather Conditions

Temp Low **45** Temp HI **48**

Wind Speed **calm-8** Knots

Conditions **Cloudy, intermittent light rain**

Contractor

Oil Spill Consultants, Inc.

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action)

Preparatory see attached checklist
 Initial see attached checklist
 Follow-Up Debris collection, Site 8, no deficiencies

Was the deficiency tracking list updated this date? Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
--------------	---------------	---------------------	---------

NO FIELD TESTING TODAY

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
--------------	------------------------	---------------------

NO SAMPLING TODAY

Have required amount of QC trip blanks and rinsates been achieved? **N/A** Yes No
 Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) **N/A** Yes No
 Have QA and QC samples been collected in the specified quantity? **Not required by Delivery Order** **N/A** Yes No
 Have samples been properly labeled and packaged? **N/A** Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D **N/A**
 Was any work activity conducted within a confined space? Yes No
 Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No
 Were approved decontamination procedures used on workers and equipment as required? Yes No
 Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The Superintendent addressed the need for caution while working on the mountain top, (Site 8). During periods of low visibility, personnel would only work in large groups at sites of concentrated debris. Picking up widely scattered debris in the boulder field would be reserved for periods of clear weather. When the winds were high, activities involving sheet metal or other debris that could be caught by the gusts would be suspended. Extreme caution would be used while working near the cliff face. The crew was also cautioned to use care while traveling over the boulder field, especially when rain makes the rocks extremely slippery.

QAR SAFETY COMMENTS:

LOW VISIBILITY IS A PROBLEM. HARD TO STAY WITH GROUP UNLESS VERY CLOSE BY. EXTRA CARE NEEDED. CREW'S BRIEFED ON NECESSITY OF BUDDY SYSTEM.

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Stained Soil Removal (NAS ID 0019, 02050)	Stained soil from Site 8 (the west beach) continued 603 lbs of stained soil collected from Site 8 today	35 614 lb of Stained soil removed to date project-wide	
HTRW Removal (NAS ID 0022, 02050)	No additional HTW was processed in today	30 360 lb of HTW removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	Debris collection in Site 8, (the west beach) Concentrated on the area north of the runway 1,895 lb today	45 808 lb of Debris removed to date project-wide	
Contaminated Soil (NAS ID 0016, 02220)	Mobilization to Site 4, the mountain top, continued Shelters, generators and emergency supplies were transported to the site and a top camp erected		

Manpower and Equipment

Labor			Equipment		
Classification	Number	ManHours	Type	Number	Hours Used
Project Manager	1	12	4 wheeler	3	36
QC System Manager	1	8	Cat 426 loader	1	0
Supernintendent	1	13	Argo	4	44
Archeologist	1	12	Nodwell	1	0
Operator	1	12	Pickup	1	12
Laborers	13	144	Cat 966 Loader	1	4
Total Hours:		198	Total Hours:		96

Instructions Given by the Government to the Contractor (include names, reactions, and remarks.) Verbal Written

NONE

Work Progress Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work)

The project instituted a "tracked vehicle only" policy while crossing the tundra to avoid tundra damage.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above

Quality Control Manager Signature *[Signature]* Date 7/28/99

Government Quality Assurance Comments
 Concurs with the QC report? Yes No
 Additional comments or exceptions

TRACK VEHICLE ONLY RULE, NEEDED TO PRESERVE TUNDRA, ENVIRONMENT PLAN REQUIRES TRACKS ON VEHICLES, 8 & 4 WHEEL VEHICLES PUT RUTS IN TUNDRA, HASTENING THAT BREAKDOWN. STARTING TO LOOK LIKE WE WOULD SEED / FERTILIZER ON TUNDRA. THIS IS NOT IN CONTRACT

QAR Signature *[Signature]* Date 7/29/99 Supervisor's Initial _____ Date _____

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date
Site 2	1600	0	20	0		24985		
Site 3	770	159	600	1150		0		
Site 4/Area 4A	5410		2140					
Site 4/Area 4B	905		2230					
Site4/Area 4D	1000		0				104000	
Site 5	315	0	0	0		0		
Area between site 5 and 3	55		100					
Site 6	350	2992	0	7897		0		
Site 7	150		0					
Site 8	115000	41516	6200	7494		1814		
Site 10	1300	0	2300	5990		540		
Site 12	100	798	2550	7829		7830		
Site 13	300	343	0	0		0		
Totals	127255	45808	16140	30360	40000	35169	104000	0
Percent of Contract Wt		36%		188%		88%		0%

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7/27 1999 Time: 6:00 Briefing Location: Lodge

Activities Planned: Mobilization

Briefer: Mark Heath

Topic: Footage for Incident Party

Topic: High Winds

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

John Palm
Walter E. Grotte
Mark Gromie
R. + Tim
George Croyal
Clarence Arizaga
Rob Edwards
Chris Koorak

Randy E. Easley
Daryl Gromie
Mark Gromie
John + George
Mark Gromie
Charles M. Mally
Tim Folger

Site Health and Safety Officer: _____

Date: _____ 1999

HOT WORK PERMIT

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Type of Work: CHOP SAW METAL CUTTING

Heat Producing Device CHOP SAW Operator: CLIFF, GRANT, CLIFF

Location: AREA 8 Fire Guard: _____

Scheduled Work Date: 7-27-99 Time Start: 11:45am Time Finished: 3:00

The Checklist Below Was Reviewed

Superintendent: _____ Date: _____ SHSO: [Signature] Date: 7/27

COMPLETE IMMEDIATELY PRIOR TO WORK

Hot Work Checklist

Item	N/A	Yes	No
1. Are all flammables and at least 50 ft away?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Is the operator fully qualified to operate the equipment?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Has the Fire Guard been identified and briefed to observe the area for 1 hour after work is complete?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Has emergency communication procedures been checked?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is and ABC extinguisher present and is it in working order?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Have the tools and equipment been inspected for safety?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Is the correct PPE being worn?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Has the area been checked for flammable or explosive vapors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Have containers been checked for explosive/ flammable residue or vapors? (drums and tanks)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Are torch hoses purged before lighting (torches only)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Are nozzles and hoses in good repair? (torches only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMPLETE AFTER WORK

Time Start: 11:45 Time Finished: 3:00 Fire Guard Released: _____

Superintendent: [Signature] Date: _____ SHSO: [Signature] Date: 7/27

Environmental Quality Control/Quality Assurance Report

(LR 415-1-302)

Contract Number / Delivery Order Number: **DACABS-97-D-0010/D.O. 0004** UPC/Project Title: **Debris Removal and Containerized Hazardous and Toxic Waste Removal**

C Report Number: **-023** Date or Time Period: **7/28/99** Location and Team: **Gambell, Alaska**

Weather Conditions: _____ Contractor: **Oil Spill Consultants, Inc.**

Temp Low **43** Temp Hi **47**
 Wind Speed **15-20** Knots Conditions **Cloudy, windy, fog, intermittent light rain**

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action)

- Preparatory see attached checklist
- Initial see attached checklist
- Follow-Up

Was the deficiency tracking list updated this date? Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
NO FIELD TESTING TODAY			

Have Data Quality Objectives been achieved? N/A Yes No

Have Samples Been Collected for Laboratory Analysis?

Type of Test EPA Test Method/Matrix Quantity of Samples Yes No

SEE ATTACHED CHAIN OF CUSTODY

- Have required amount of QC trip blanks and rinsates been achieved? N/A Yes No
- Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) N/A Yes No
- Have QA and QC samples been collected in the specified quantity? Not required by Delivery Order N/A Yes No
- Have samples been properly labeled and packaged? N/A Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The Superintendent repeated the previous days cautions about working on the mountain top, (Site 8). He outlined the few shelter and emergency rescue facilities that would be available. These included a "weatherport" shelter stock with food, water, and dry clothing. He cautioned personnel to stay together in groups, and away from the cliff edge because of the low visibility that was currently in effect. These cautions also applied to the crews that would be recovering debris from Site 5, the cable burial area that runs up the side of the mountain.

QAR SAFETY COMMENTS:

SLOPE ISSUES DICTATE CLOSE LOOK AT DEBRIS IN CLIFFS. SOME SITES ARE LESS STEEP LIKE AREA 5 BUT THERE STILL IS SAFETY PROBLEM WITH FALLING ROCKS. CONTRACTOR CONTENDS CLIFFS ARE N/A. DETAIL WILL BE CONSULTED.

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Stained Soil Removal (NAS ID 0019, 02050)	no stained soil was collected today	35,614 lb of Stained soil removed to date project-wide	
HTRW Removal (NAS ID 0022, 02050)	Several drums were collected as part of debris removal activities at Site 5, these were stockpiled. No HTW was processed or weighed	30,360 lb of HTW removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	Debris collection in Site 8, (the west beach) Concentrated on the west side of the runway. Debris was stockpiled but not yet weighed. At Site 5 the cable burial area, personnel on foot collected debris working up the hill. 95% of debris is removed from this area, but not yet weighed. At Site 4, Area 4A, the mountain top, personnel collected and bundled quonset hut debris and other metal. 75% of debris from this area is stockpiled but not yet removed or weighed.	45,808 lb of Debris removed to date project-wide	
Contaminated Soil (NAS ID 0016, 02220)	Preparations for soil hauling continue. All Argos were mounted with tracks and the Nodwell tested.		

Manpower and Equipment			Equipment		
Labor Classification	Number	ManHours	Type	Number	Hours Used
Project Manager	1	12	4 wheeler	3	36
CQC System Manager	1	9	Cat 426 loader	1	3
Supintendent	1	13	Argo	4	24
Archeologist	1	12	Nodwell	1	2
Operator	1	12	Pickup	1	12
Laborers	12	137	Cat 966 Loader	1	0
		Total Hours:		Total Hours	77

Instructions Given by the Government to the Contractor (include names, reactions, and remarks) Verbal Written

The QAR directed the CQC that debris collection on both sides of the runway be suspended pending required coordination with the FAA.

The QAR emphasized to the CQC that Navy cable running from Site 5, up the slope, and running across the tundra in site 10 was not to be removed. It might be included in the contract at a later time.

The QAR informed the CQC that it had been determined that the oil spill disposal area in Site 2, at the north beach near the base of the mountain was officially removed from the contract. He further stated that it had only been included in the statement of work by government error.

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)

Clarification - The USACE concurred with the contractor's interpretation of the contract drawings that work along the steep slopes of the mountain was beyond the intent of the contract. Crews were not to proceed to remove debris in areas where they felt they could not work safely.

The inclusion in the contract of the archeological site north of the runway and west of the airport road is still undergoing final coordination.

The Project Archeologist monitored cleanup activities in Site 5, including archaeological site XSL-002. He had surveyed this area on the previous day with Native Liaison Bert Oozevaseuk. At that time they had reburied human remains numbered Reburial 12 to Reburial 16 (five reburials). Note was made of the remains of kayak frame, apparently instead of sled, as a grave item.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *Shond L. Br...*

Date 7/29/19

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Continuation Sheet

Government Quality Assurance Comments

Concurs with the QC report?

Additional comments or exceptions:

Yes No

- DEBRIS COLLECTION ON RUNWAY (AREA 8) WAS SUSPENDED BY INSTRUCTIONS FROM PRO DUE TO DOT CONTRACTOR - KELLY RYAN DIGGING UP DEBRIS AND CAUSING A RESURF IN THE AREA. THIS ADDITIONAL LABOR WAS UNACCEPTABLE TO THE OSI & PHILIPS CONTRACTORS. AREA 8 DOES HOWEVER HAS A POWERLINE PROBLEM AFFECTING 1820 LF OF MATING. THE WEST SIDE IS BEING EXCAVATED FOR A RIPRAP LAYER.
- NAUTICAL IS IDENTIFIED AND WILL BE LEFT UNTIL INSTRUCTIONS FROM DISTRICT IS GIVEN.
- OIL SPILL AREA WAS LEFT AS IS. THIS SITE 3 AREA (SOMETIMES CALLED SITE 2) WAS ERRONEOUSLY INCLUDED. THIS IS STAINED SOIL OVERUN.
- REBURIALS ARE DONE ACCORDING TO DIRECTIVE.

QAR Signature

Steven L. Allen

Date

7-31-99

Supervisor's Initial

Date

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date
Site 2	1600	0	20	0		24985		
Site 3	770	159	600	1150		0		
Site 4/Area 4A	5410		2140					
Site 4/Area 4B	905		2230					
Site4/Area 4D	1000		0				104000	
Site 5	315	0	0	0		0		
Area between site 5 and 3	55		100					
Site 6	350	2992	0	7897		0		
Site 7	150		0					
Site 8	115000	41516	6200	7494		1814		
Site 10	1300	0	2300	5990		540		
Site 12	100	798	2550	7829		7830		
Site 13	300	343	0	0		0		
Totals	127255	45808	16140	30360	40000	35169	104000	0
Percent of Contract Wt		36%		188%		88%		0%

Chain of Custody

Project: Debris Removal & Containerized Hazardous & Toxic Waste Removal
 Gambell, Alaska **Contract No:** DACA85-97-D-0010, Delivery Order #4

Authorization Number: OSCI Purchase Order No. 913

Client: Oil Spill Consultants, Inc.
 The Environmental Cleanup Company
 209 E. 51st. Avenue, Anchorage, Alaska 99503
 Tel: (907) 562-7169 Fax: (907) 562-7225

Samplers: Randy E Esley

(Signature) *Randy E Esley*

Witness: MICHAEL S CHILBERTO

(Signature) *M S Chilberto*

Analysis Required by: _____

Analysis Required

Field Screen	Sample Number	Sample Date	Time	PID Reading	Type	# of Cont.	Analysis Required										QA / QC Required			
							GRO-AK101	DRO-AK102	RRO-AK103	TCLP Metals-1311, 7060, 6010, 7196, 7470, 7760, & 7740	Flash Point/PH - EPA 1020 & 9045	PCBs, Herbicides, Pesticides - EPA - 1311, 8082, 8081, & 8150	VOA, Semi-VOA - EPA 1311, 8260, & 8270	Dioxin - EPA 8290						
	99-GAM-006-W	7-28-99	1:00		W	1												PCB 8082		III
	99-GAM-007-W	7-28-99	1:15		W	1												PCB 8082		III
	99-GAM-008-W	7-28-99	1:30		W	1												PCB 8082		III

Relinquished by: (Printed) _____	Date / Time _____	Received by: (Printed) _____
(Signature) _____		(Signature) _____
Relinquished by: (Printed) _____		Received by: (Printed) _____
(Signature) _____		(Signature) _____
Dispatched by: (Printed) _____		Received at Laboratory by: _____
(Signature) _____		
Method of Shipment: _____	Condition of Containers _____	
Comments: _____	Received Temp: _____	
	Good Fair Poor	

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7/29/99 1999 Time: 7:00 AM Briefing Location: LODGE

Activities Planned: _____

Briefer: HEATH

Topic: MOUNTAIN WORK SAFETY

Topic: AREAS CLEANUP

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

Cheryl Heath
Jeff Blodgett
Steve Tamm
Alvarado Briggs
Bob ...
Paul Tuzin
Paul ...
Frank ...

Robert ...
Dave ...
Chris Kooner
Chuck Mobley
Tim ...

Site Health and Safety Officer: [Signature]

Date: 7/29/99 1999

HOT WORK PERMIT

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Type of Work: METAL CUTTING

Heat Producing Device: CHIPS AW Operator: CLIFFORD

Location: AREA 5 Fire Guard: Jerome Bergeron

Scheduled Work Date: 7-28-97 Time Start: 3:45am Time Finished:

The Checklist Below Was Reviewed

Superintendent: Date: SHSO: Date:

COMPLETE IMMEDIATELY PRIOR TO WORK

Hot Work Checklist table with 11 items and columns for N/A, Yes, No. Includes items like 'Are all flammables and at least 50 ft away?' and 'Is the operator fully qualified to operate the equipment?'.

COMPLETE AFTER WORK

Time Start: 8:30 Time Finished: 10:15 Fire Guard Released:

Superintendent: Date: 7/28 SHSO: Date: 7/28

Environmental Quality Control/Quality Assurance Report

(ER 415-1-K02)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 99-024	Date or Time Period 7/29/98	Location and Team Gambell, Alaska	
Weather Conditions Temp Low 44 Temp HI 46 Wind Speed 10-35 <u>Knots</u> Conditions <u>Cloudy, windy, fog, intermittent light rain</u>		Contractor Oil Spill Consultants, Inc.	

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action)

Preparatory	<input type="checkbox"/> see attached checklist	
Initial	<input type="checkbox"/> see attached checklist	
Follow-Up	<input checked="" type="checkbox"/>	Staging Area Setup, No spill containment under generator (see DTL 003, attached) Staging Area Setup, Improper ground connection on generator (See DTL 004, attached) HTW Collection and Packaging, No liner under processed drums (see DTL 005, attached) Staging Area Setup, Improper ground connection on generator, Site 4 (See DTL 006, attached) Staging Area Setup, No spill containment under generator, Site 4 (see DTL 007, attached)

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results	
NO FIELD TESTING TODAY				

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples	
NO SAMPLING TODAY			

Have required amount of QC trip blanks and rinsates been achieved? N/A Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) N/A Yes No

Have QA and QC samples been collected in the specified quantity? **Not required by Delivery Order** N/A Yes No

Have samples been properly labeled and packaged? N/A Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken)

Cautions were given at the safety meeting about the sucking tundra mud. Personnel were advised to tread carefully in the soft and boggy terrain. The Superintendent stated that warm-up breaks were increased to help counter the effects of the cold, wet, windy weather.

It was noted that the project has accumulated over 2,000 man-hours without a single accident, incident, or injury

Later in the day the CQC performed safety inspections of the main staging as well as the upper camp area on the top of the mountain. No serious conditions were noted, and the work was generally being conducted in a safe manner. Improvements are needed however with respect to generator grounding and fuel storage. These are identified on the attached Deficiency Tracking Lists items.

QAR SAFETY COMMENTS:

HARD WALKING IN TUNDRA. SPRINKS COULD BE A PROBLEM. USE OF ARMO'S, MUCH AS POSSIBLE. WET TUNDRA KEEPS GETTING WETTER. ROTATE WORK ASSIGNMENTS TO LIMIT OVERSTRESS FEET & KNEES.

Environmental Quality Control/Quality Assurance Report

(ER 415-1 302)

Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Stained Soil Removal (NAS ID 0019, 02050)	Stained soil was collected from Area 4A at the top of the mountain but not yet weighed	35,614 lb of Stained soil removed to date project-wide	
HTRW Removal (NAS ID 0022, 02050)	HTW removal from area 4A is 99% complete. 583 lbs from the area has been weighed to date HTW removal from Area 4A is 95% complete. 1,688 lbs has been weighed to date with more stockpiled awaiting processing	32,631 lb of HTW removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	Previously stockpiled debris from Site 8, west side of the runway ways weighed At Site 4, Area 4A, the mountain top, personnel continued to collect quonset hut debris and other metal. 99% Of debris from this area is stockpiled but not yet removed or weighed At Site 4, Area 4B, the mountain top, personnel collected and stockpiled, metal debris. 95% Of debris from this area is	54,477 lb of Debris removed to date project-wide	

Manpower and Equipment

Labor			Equipment		
Classification	Number	ManHours	Type	Number	Hours Used
Project Manager	1	12	4 wheeler	3	24
CQC System Manager	1	12	Cat 426 loader	1	12
Superintendent	1	13	Argo	4	24
Archeologist	1	12	Nodwell	1	0
Operator	1	12	Pickup	1	12
Laborers	12	144	Cat 966 Loader	1	10
Total Hours:		205	Total Hours		82

Instructions Given by the Government to the Contractor (include names, reactions, and remarks.)

Verbal Written

NONE

Work Progress: Are there any Contractor caused delays or potential finding of fact?
Are there any Government caused delays or potential finding of fact?
Are there any unforeseeable or weather related delays?

Yes No
Yes No
Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)

The Project Archeologist inspected archaeological site XSL-005 containing drums and runway mat, with Bert Oozeva and Steve LeClerc. This area is a candidate for being added to the cleanup project. He concluded that with archaeological monitor on-site, the proposed cleanup work should pose no archaeological jeopardy. Later in the day he supported cleanup efforts at the mountain top in Site 4. Here he reinterred Reburial 18 (femur) and Reburial 19 (cranium with .22 cal. bullet hole) in Area 4, with Bert Oozeva. He also collected Isolated Artifact #1 (minimally-carved walrus bone) in Area 4 with Bert Oozeva.

The QAR reviewed debris and HTW weighing and packaging. He later commented to the CQC that the personnel involved with the process were performing well and were meticulous in their weighing and weight recording.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *Donald L. Kerr*

Date 7/30/99

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Continuation Sheet

Government Quality Assurance Comments
Concurs with the QC report?
Additional comments or exceptions

Yes No

- AREA ADJOINING NORTH END OF AREA 8 CONTAINS TECHNOLOGICAL SITES. THE MATERIAL NAT OF DRUMS SHOULD BE REMOVED FROM THIS AREA. CHECK WITH SHIPPER THRU CHECK MUFFLET AND SURTUNE MUST BE COMPLETED.
- WEIGHT & PACKAGING OPERATION GOING WELL, DAILY REPORTING ON QUANTITY AFTER SHIFT IS DONE.

QAR Signature Steven L. Lee Date 7/31/99 Supervisor's Initial _____ Date _____

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date
Site 2	1600	0	20	0		24985		
Site 3	770	159	600	1150		0		
Site 4/Area 4A	5410	0	2140	583		0		
Site 4/Area 4B	905	0	2230	1688		0	104000	
Site4/Area 4D	1000		0					
Site 5	315	0	0	0		0		
Area between site 5 and 3	55		100					
Site 6	350	2992	0	7897		0		
Site 7	150		0					
Site 8	115000	50285	6200	7494		1814		
Site 10	1300	0	2300	5990		540		
Site 12	100	798	2550	7829		7830		
Site 13	300	343	0	0		0		
Totals	127255	54577	16140	32631	40000	35169	104000	0
Percent of Contract Wt		43%		202%		88%		0%

Deficiency Tracking Report

Contract Number / Delivery Order Number
DACA85-97-D-0010/D.O. 0004

UPC/Project Title
Debris Removal and Containerized Hazardous and Toxic Waste Removal

DTL
003

Date or Time Period
7/29/99

Location and Team
Gambell, Alaska

Description of deficiency:

Inspection of the generator at the main staging area revealed that there was no spill containment under the generator as required by the work plan. This condition creates the potential for soil contamination should an inadvertent spill occur during refueling.

Note: This condition had been brought to the attention of the Superintendent on not less than three separate occasions previously and no action was taken

Corrective Action:

1. Place spill containment under the generator
2. Check for similar conditions elsewhere throughout the project.

CQC Signature

Date

7/29/99

Government Quality Assurance Comments

Concurs with the corrective action?
Additional comments or exceptions:

Yes No

SMALL DEFICIENCIES CORRECTED SATISFACTORILY.

QAR Signature

Date

7-30-99

Reinspection of Corrected Deficiency

Reinspection at 1630 hours at revealed that spill containment had been satisfactory installed under the generator.

CQC Signature

Date

7/29/99

Deficiency corrected? Yes No

Government Quality Assurance Comments

Deficiency corrected? Yes No
Additional comments or exceptions

QAR Signature

Date

Deficiency Tracking Report

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
DTL 004	Date or Time Period 7/29/99	Location and Team Gambell, Alaska	

Description of deficiency:

SAFETY DEFICIENCY

Inspection of the generator at the main staging area revealed that the ground wire was so loosely connected to the ground rod that the wire came loose and the clamp slid down the grounding rod when wire was touched lightly.

Corrective Action:

1. Reconnect the grounding wire to the grounding rod in the correct manner.
2. Check for similar unsafe conditions throughout the project.

CQC Signature *[Signature]* Date 7/29/99

Government Quality Assurance Comments

Concurs with the corrective action?

Yes No

Additional comments or exceptions:

WIRE WAS FIXED

QAR Signature *[Signature]* Date 7-29-99

Reinspection of Corrected Deficiency

Reinspection at 1630 hrs on 7/29/99 revealed that the ground wire had been satisfactorily installed

CQC Signature *[Signature]* Date 7/29/99 Deficiency corrected? Yes No

Government Quality Assurance Comments

Deficiency corrected? Yes No

Additional comments or exceptions

QAR Signature _____ Date _____

Deficiency Tracking Report

Contract Number / Delivery Order Number
DACA85-97-D-0010/D.O. 0004

UPC/Project Title
Debris Removal and Containerized Hazardous and Toxic Waste Removal

OTL
006

Date or Time Period
7/29/99

Location and Team
Gambell, Alaska

Description of deficiency:

SAFETY DEFFICIENCY

Inspection of the generator at the site 4 top camp revealed that the ground wire was loosely connected to the generator. The wing nut intended to insure a positive connection was backed off greater than 1/2 inch. Consequently a positive connection was not made.

Note: The CQC finger-tightened the connection before leaving the site.

Corrective Action:

1. Tighten the grounding wired connection at the generator.
2. Check for similar unsafe conditions throughout the project.

CQC Signature

Date

7/29/99

Government Quality Assurance Comments

Concurs with the corrective action?
Additional comments or exceptions

Yes No

WIRE WAS FIXED

QAR Signature

Date

7-29-99

Reinspection of Corrected Deficiency

CQC Signature

Date

Deficiency corrected? Yes No

Government Quality Assurance Comments

Deficiency corrected? Yes No
Additional comments or exceptions

QAR Signature

Date

Deficiency Tracking Report

Contract Number / Delivery Order Number: **DACA85-97-D-0010/D.O. 0004**
UPC/Project Title: **Debris Removal and Containerized Hazardous and Toxic Waste Removal**
YTL: **005** Date or Time Period: **7/29/99** Location and Team: **Gambell, Alaska**

Description of deficiency:

Inspection of drum staging and processing at the main staging area revealed that staged drums were being placed directly on the ground. Temporary liner was available, but not being used. This practice risks staining additional soil

Note: This issue had been brought to the attention of the superintendent on not less than two previous occasions.

Corrective Action:

1. Use Temporary liner while staging HTW items.
2. Check for similar conditions at HTW staging points throughout the project.

CQC Signature *[Signature]* Date 7/29/99

Government Quality Assurance Comments

Concurs with the corrective action?
Additional comments or exceptions:

Yes No

LINER WAS USED

QAR Signature *[Signature]* Date 7-31-99

Reinspection of Corrected Deficiency

Reinspection at 1630 on 7/29/99 revealed that liner was being used to stage drums during processing to avoid the potential for staining soil.

CQC Signature *[Signature]* Date 7/29/99 Deficiency corrected? Yes No

Government Quality Assurance Comments

Deficiency corrected? Yes No
Additional comments or exceptions:

QAR Signature _____ Date _____

Deficiency Tracking Report

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004	UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
ITL 007	Date or Time Period 7/29/99	Location and Team Gambell, Alaska

Description of deficiency:

Inspection of the generator at the Site 4 staging area revealed that there was no spill containment under the generator as required by the work plan. This condition creates the potential for soil contamination should an inadvertent spill occur during refueling.

Note: This condition had been brought to the attention of the Superintendent on not less than three separate occasions at a different location in the project.

Corrective Action:

1. Place spill containment under the generator
2. Check for similar conditions elsewhere throughout the project.

CQC Signature *Shirley L. Ben* Date 7/29/99

Government Quality Assurance Comments
Concurs with the corrective action?
Additional comments or exceptions:

Yes No

LINEX LIDS INSTALLED

QAR Signature *Steve L. Ben* Date 7-29-99

Reinspection of Corrected Deficiency

CQC Signature _____ Date _____ Deficiency corrected? Yes No

Government Quality Assurance Comments
Deficiency corrected? Yes No
Additional comments or exceptions:

QAR Signature _____ Date _____

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7/27 1999 Time: 0700 Briefing Location: hangar

Activities Planned: Debris & PTH Removal

Briefer: C. Heath

Topic: Toxic Mud

Topic: Wastewater

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

Andy Pahn
[Redacted]
[Redacted]
Mr. Turin
Chuck Mebley
[Redacted]
[Redacted]
[Redacted]
[Redacted]
[Redacted]

Dan [Redacted]
[Redacted]
[Redacted]
[Redacted]
[Redacted]
[Redacted]
[Redacted]
[Redacted]

Site Health and Safety Officer: [Redacted]

Date: 7/27 1999

HOT WORK PERMIT

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Type of Work: _____

Heat Producing Device: CHOP 540 Operator: CLIFFORD J. ...

Location: AREA 4 Fire Guard: _____

Scheduled Work Date: 7-21-99 Time Start: _____ Time Finished: _____

The Checklist Below Was Reviewed

Superintendent: [Signature] Date: 7-21-99 SHSO: [Signature] Date: 7-21-99

COMPLETE IMMEDIATELY PRIOR TO WORK

+811

Hot Work Checklist

Item	N/A	Yes	No
1. Are all flammables and at least 50 ft away?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Is the operator fully qualified to operate the equipment?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Has the Fire Guard been identified and briefed to observe the area for 1 hour after work is complete?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Has emergency communication procedures been checked?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is and ABC extinguisher present and is it in working order?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Have the tools and equipment been inspected for safety?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Is the correct PPE being worn?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Has the area been checked for flammable or explosive vapors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Have containers been checked for explosive/ flammable residue or vapors? (drums and tanks)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Are torch hoses purged before lighting (torches only)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Are nozzles and hoses in good repair? (torches only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMPLETE AFTER WORK

Time Start: 10:00 Time Finished: 5:30 Fire Guard Released: 6:30

Superintendent: _____ Date: _____ SHSO: _____ Date: _____

Environmental Quality Control/Quality Assurance Report

(LR 415.1.02)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 99-025	Date or Time Period 7/30/99	Location and Team Gambell, Alaska	
Weather Conditions Temp Low 42 Temp Hi 46		Contractor Oil Spill Consultants, Inc.	
Wind Speed 3-17 Knots	Conditions <u>Cloudy, windy, fog, intermittent light rain</u>		

Quality Control Inspections Performed This Date (include inspections, results, deficiencies observed, and corrective action)

Preparatory	<input type="checkbox"/> see attached checklist	
Initial	<input checked="" type="checkbox"/> see attached checklist	Contaminated Soil Excavation
Follow-Up	<input type="checkbox"/>	

Was the deficiency tracking list updated this date? Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
NO FIELD TESTING TODAY			

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
NO SAMPLING TODAY		

Have required amount of QC trip blanks and rinsates been achieved? **N/A** Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) **N/A** Yes No

Have QA and QC samples been collected in the specified quantity? **Not required by Delivery Order** Yes No

Have samples been properly labeled and packaged? **N/A** Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D **N/A**

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The Crew Foreman, a local resident, highlighted the hazards posed by wildlife. Of special concern were foxes. The normally-shy animals could carry rabies. Any fox that approached closer than 50 yards was not behaving in a normal manner should be assumed to be diseased. Steps should be taken to avoid coming in contact with the animal. The Superintendent repeated his cautions of the previous day for personnel to use extreme care while travelling on foot over the boulder field. The rain-slick boulders present the potential for slips and falls. The need for care while travelling the foot trail to the mountain top was also discussed.

After the safety meeting the CQC and the Superintendent reviewed the results of the previous day's safety inspection. Possible improvements in generator grounding, spill containment, and fuel storage were discussed.

In the evening the Site Safety and Health Officer reviewed with work crew the results of the samples of the Area 4B contaminated soil taken during previous study. The origins of the contaminants found, their effects, and appropriate PPE was discussed.

QAR SAFETY COMMENTS:

Soil Removal Hazards Reviewed. Evacuation Zones to be set up per raised plan. All PPE in place.

Environmental Quality Control/Quality Assurance Report

(ER 415-1 302)

Continuation Sheet

Work Activities Performed This Date (reference (NAS ID #/Tech Spec #))	Activity & Location	Quantity	Contractor
Stained Soil Removal (NAS ID 0019, 02050)	Stained soil was collected from Area 4A at the top of the mountain but not yet weighed	35,614 lb of Stained soil removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	At Site 4, Areas 4D, 4B, and 4A, the mountain top personnel collected and stockpiled. None yet weighed ways weighed	54,477 lb of Debris removed to date project-wide	
Contaminated Soil (NAS ID 0016, 02220)	Site control was established and excavation started. All digging by hand. Approximately 1 cu y dug and containerized		

Manpower and Equipment

Labor Classification	Number	ManHours	Equipment Type	Number	Hours Used
Project Manager	1	2	4 wheeler	3	12
CQC System Manager	1	12	Cat 426 loader	1	0
Superintendent	1	13	Argo	6	24
Archeologist	1	12	Nodwell	1	0
Operator	1	12	Pickup	1	12
Laborers	10	116	Cat 966 Loader	1	0
Total Hours		167	Total Hours		48

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks) Verbal Written

NONE

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

o new Argos were delivered to the project today.

The Contractor's Project Manager left the site today.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *[Signature]* Date 1/30/99

Government Quality Assurance Comments

Concurs with the QC report? Yes No

Additional comments or exceptions

- SITE EXCAVATION CLOSE TO PROCEEDED. SOME UNCERTAINTY WITH LIMIT OF DEPTH OF EXCAVATION. DIGGING TO BEDROCK IS IMPOSSIBLE. BOULDERS ARE RIGGURED. SITUATION AT PM IS ADUSED OF SITUATION. PROBLEMS WITH TRANSPORT IN BE-VIDERFIELD IS DEVELOPING. EQUIPMENT BREAKDOWNS ARE A PROBLEM. NODWELL IS NOT FIXED

QAR Signature *[Signature]* Date 3-1-99 Supervisor's Initial _____ Date _____

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7-30 1999 Time: 7/30 Briefing Location: ledge

Activities Planned: Debris Collection

Briefer: Chuck Heath Topic: wild life Hazards

Topic: Slippery Rock

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

Chris Kee
Chris Kee
David
Barbara
Paul
David
[Redacted]
[Redacted]

[Redacted]
[Redacted]
[Redacted]
Chuck Mobley
Theresa E. [Redacted]
Christ [Redacted]
[Redacted]

Site Health and Safety Officer: [Signature]

Date: 7/30 1999

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Containerized and Hazardous and Toxic Waste Removal
Location: Gambell, Saint Lawrence Island, Alaska

Feature of Work: Contaminated Soil Removal, Site 4 Inspection: Initial

Relevant Specifications: SOW 1.3.1, SOW Table 1, SOW Table 2, 02220, 01130, 01450.

Submittals: Work Plan

Inspection Checklist

<u>Item</u>	<u>Yes</u>	<u>No</u>	<u>Not Obsrvd</u>
1. Have the limits of excavation for contaminated soil been defined?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Have vehicle routes been explored and marked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Have debris, HTW, and soil staging and transfer points been identified and marked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Has the method of crew shelter been defined and sited and the structure inspected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Have crew subsistence procedures been coordinated with the kitchen?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Have storm, emergency evacuation, and communications procedures been developed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Has the method of containerizing excavated soil been developed and Sufficient containers on hand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Have the modifications to the Argos been tested to insure that they can carry the anticipated weight and loading method over the terrain anticipated.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Have Argo operators been tested to insure they can operate safely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have PPE for each activity been defined?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have decontamination procedures been defined?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Have vehicles been inspected for safety and operating condition??	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: Documentation changes from the workplan
driven by current conditions (attached)


CQC System Manager

7/30/99
Date

WORK PLAN AMMENDMENT 1

for

Debris and containerized Hazardous Waste and Toxic Waste Reomval
Gambell, Alaska

Indefinite Delivery order Type Remedial Action Contract DACA85-97-D-0010
Delivery Order No. 0004

SOIL REMOVAL

The following, when approved, supercedes sections 9.2 through 9.6 and 9.8 of the approved.
final Work Plan (dated June 29, 1999) for the project above.



Figure 1: Verifying contaminated soil excavation site

I certify that the following plan amendment is in accordance with the contract requirements of USACE contract DACA
DACA85-97-D-0010, Delivery Order No. 0004, and the applicable state and federal regulations as referenced in the contract.

CQC Systems Manager *Robert L. Br...* Date 7/30/99

APPROVED/DISAPPROVED

Quality Assurance Representative *[Signature]* Date _____

SOIL REMOVAL

The following, when approved, supercedes sections 9.2 through 9.6, and 9.8 of the approved, final Work Plan (dated June 29, 1999) for the project above.

9.2 Verification of Excavation Site

A visual survey will be made of the area to locate landmarks shown on the Delivery Order Drawing "Figure 3-2. Site 4, Area 4B, "Sample Locations", ". Landmarks include an upright wooden pole, to the northwest, and charred timbers on the northwest edge of the excavation site. The site itself is described as an elliptical area of "visibly stained" soil 36' 6" east-to-west by 29' north-to-south, with a patch of metal debris in the center.

Once the site is located, verification will be made by measuring the distance from the upright wooden pole to the corners of the excavation area with a 100' surveyors tape. The distance and approximate bearing of the measurement will be compared to the reference drawing. The east-to-west and north-to-south measurements of the stained area will be made in a similar manner and compared to those on the drawing in the delivery order.

Once the site of the proposed excavation is verified, the site will be inspected by the Quality Assurance Representative (QAR). The measurements will be repeated in the presence of the QAR if desired.

9.3 Cultural and Archeological Impact

The Project Archeologist will survey the site prior to excavation. Should the presence of artifacts or human remains be suspected, the Archeologist will make a detailed search of the area. Any artifacts will be removed and human remains reinterred prior to excavation and in the presence of the Project Liaison from the Village of Gambell. These actions will also be recorded by the Archeologist for inclusion in the daily CQC report and in the Archeological report at the end of the project.

9.3 Site Access and Control

The proposed excavation site is near the center of an extensive, level, talus field at the top of Mount Sevokuk. There is one access point, a rough trail approximately 4' wide. The access to the area for personnel and ATVs into the site will be through this one trail.

An exclusion zone will be established around the excavation area. This zone will be delineated by a ribbon of "caution" tape strung on surveyors stake. Flagging with surveyors tape may be substituted for the "caution" tape.

Entry to and from the exclusion zone will be via a contamination reduction zone or "decon" area. This area will be delineated by a piece of 10 mil (or 6 mil reinforced) liner placed on the ground to prevent the spread of contamination. The liner will be weighted with rocks at the perimeter due to the high winds in the area. Additional pieces of liner will be placed outside the perimeter of the exclusion area to stage tools, soil containers, and excavated soil.

These and other features are shown in Figure 2 on the following page.

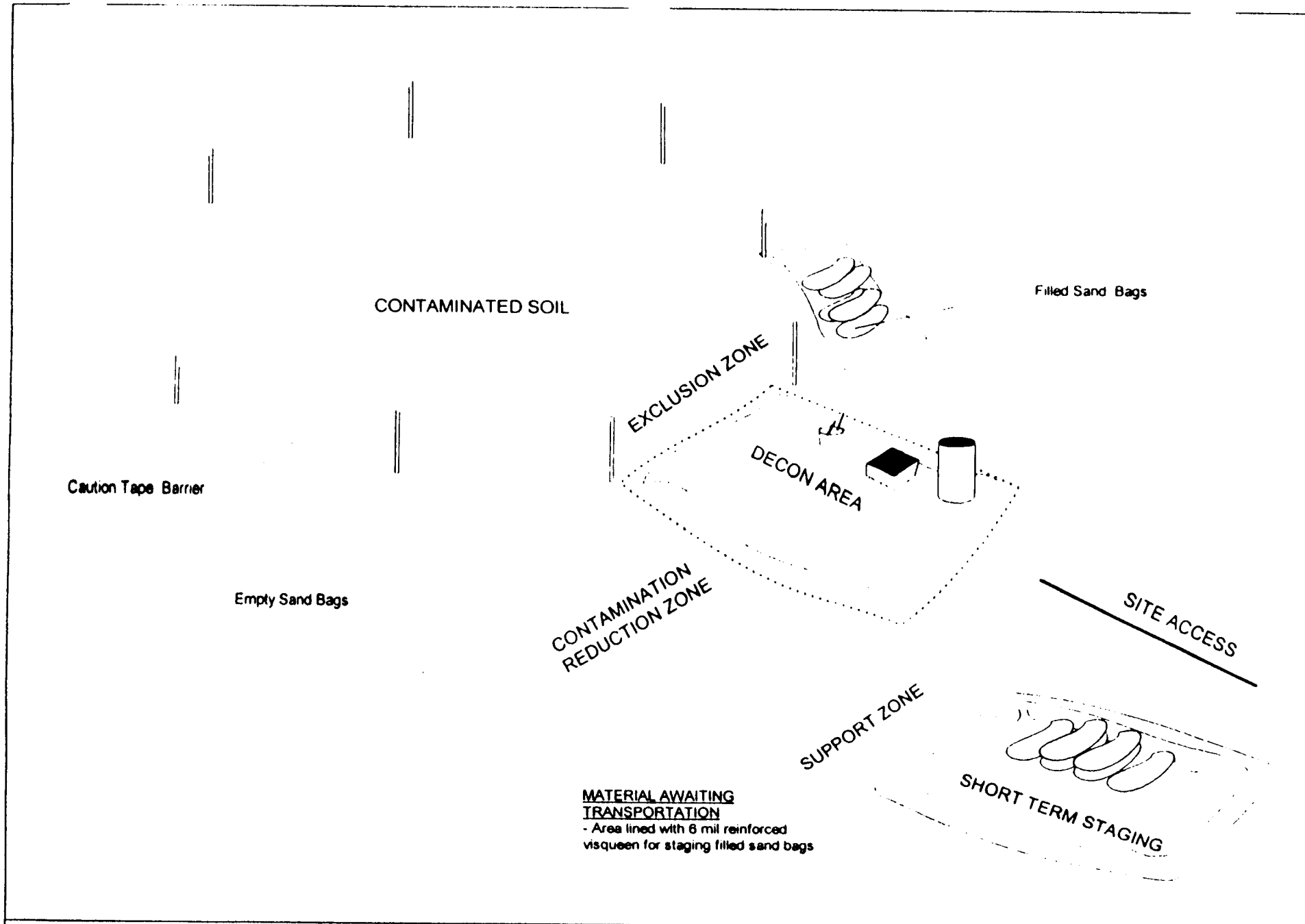


Figure 2

Contaminated Soil Excavation Site Control

9.4 PPE and Contamination Control

The minimum PPE for soil excavation will be Level D upgraded with "tyvek" suit or other impervious disposable clothing and boot covers, if visible dust becomes an inhalation hazard, the PPE will be upgraded to Level C with half-face respirators or better equipped with HEPA filters.

All personnel will enter and exit through the contamination reduction zone. Before exiting the contamination reduction zone into the support area, personnel will remove their boot covers and use brushes to remove any visible soil from their suits. The liner in the contamination reduction zone will be kept clean by brushing contaminated soil back into the excavation area. ATVs arriving to collect excavated soil will move onto the liner. All loading will take place over the liner.

9.5 Excavation

Due to the inability of construction machinery to access the site, all excavation will be performed by hand. Round pointed shovels will be the primary tool used. These will be augmented with square shovels or scoops for collecting loose sand. Rebar dowels and other tools may be used to loosen compacted sand.

Excavation will proceed from the surface, down to the boulders in underlying talos field. Excavation will proceed into the crevices between the boulders as far as practical as determined in the field by the QAR. At no time will excavation proceed below the water table.

9.6 Containerizing Excavated Material

Excavated material will be placed in sand bags of woven nylon or other artificial tear-resistant and rot-resistant material. The sand bags will be lined with material impervious to fine sand grains and dust. Empty sandbags will be staged on liner outside the exclusion zone. Filled sand bags will be staged on separate liner near the contamination reduction zone. Loose surface sand will be brushed from the exterior of the bag before it is removed from the exclusion zone.

9.7 Post Excavation Sampling

(No change from original plan)

9.8 Backfilling

After excavation, the site will be left in a condition resembling the surrounding talos field as closely as possible. No backfilling or importation of material not native to the talos field around the site will be performed.

END OF WORK PLAN AMMENDMENT 1

Environmental Quality Control/Quality Assurance Report

(ER 413-1-302)

Contract Number / Delivery Order Number DACAB5-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 99-026	Date or Time Period 7/31/99	Location and Team Gambell, Alaska	
Weather Conditions Temp Low 44 Temp Hi 46 Wind Speed calm-15 Knots Conditions Cloudy, fog, intermittent light rain		Contractor Oil Spill Consultants, Inc.	

Quality Control Inspections Performed This Date (include inspections, results, deficiencies observed, and corrective action)

Preparatory	<input type="checkbox"/> see attached checklist	
Initial	<input type="checkbox"/> see attached checklist	
Follow-Up	<input checked="" type="checkbox"/>	Debris collection and containerizing Work going well, no deficiencies

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
NO FIELD TESTING TODAY			

Have Data Quality Objectives been achieved? N/A Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
NO SAMPLING TODAY		

Have required amount of QC trip blanks and rinsates been achieved? N/A Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) N/A Yes No

Have QA and QC samples been collected in the specified quantity? Not required by Delivery Order N/A Yes No

Have samples been properly labeled and packaged? N/A Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments (include any infractions of approved safety plan, and include instructions from Government personnel Specify corrective action taken)

At the safety meeting the Superintendent addressed problems that could be caused by working while injured or sick. Personnel were urged to avoid aggravating small injuries by reporting the condition, seeking necessary treatment, and avoid activities that would make the condition worse.

Later in the day, the CQC and the QAR reviewed the limitations that were in place to protect non-HazWopr-trained workers.

QAR SAFETY COMMENTS:

NON HAZ TRAINED WORKERS HAVE SIMULATION'S, BEFORE ENTERING A SITE FOR CLEANUP, HAZ DRUMS AND MATERIALS ARE EITHER REMOVED OR MARKED FOR HAZ REMOVAL ONLY. SAFETY BRIEFINGS ARE REQUIRED FOR THESE NEARLY AS WELL AS PROPER PPE GEAR. RANGING IS ALSO NEEDED.

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Continuation Sheet

Activities Performed This Date ence (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Stained Soil Removal (NAS ID 0019, 02050)	No Activities involving stained soil today	35,619 lb of Stained soil removed to date project-wide	
HTW Removal (NAS ID 0022, 02050)	Sites, 2, 3, 5, 6, 7, 12, and 13 complete All HTW at site 4 stockpiled awaiting transportation	32,631 lb of HTW removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	Sites, 2, 3, 5, 6, 7, 12, and 13 complete 8,803 lbs of debris at Site 8 weighed and loaded All debris at Site 4 collected	63,380 lb of Debris removed to date project-wide	
Contaminated Soil (NAS ID 0016, 02220)	Excavated soil was transported the staging area and Weighed. 10,117 lbs weighed today, more stockpiled	10,117 lb of contaminated Soil removed to date	

Manpower and Equipment

Labor			Equipment		
Classification	Number	ManHours	Type	Number	Hours Used
Project Manager	0	0	4 wheeler	3	24
CQC System Manager	1	12	Cat 426 loader	1	3
Superintendent	1	13	Argo	6	60
Archeologist	1	12	Nodwell	1	0
Operator	1	12	Pickup	1	12
Laborers	10	116	Cat 966 Loader	1	10
Total Hours		165	Total Hours		109

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks) Verbal Written

NONE

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

Two new Argos with bad clutches were repaired today and returned to service. The Cat 973 track-loader was repaired today.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above

Quality Control Manager Signature *[Signature]* Date 7/31/99

Government Quality Assurance Comments

Concurs with the QC report? Yes No
 Additional comments or exceptions:

EXCAVATED SOIL WAS FIRST WEIGHED. THERE IS STILL NO
 ROLLING ON QUANTITIES OR WITH LIMITATIONS, SOME MUST
 CLARIFY THIS,

QAR Signature *[Signature]* Date 7-31-99 Supervisor's Initial _____ Date _____

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7/31 1999 Time: 0700 Briefing Location: Wentgo

Activities Planned: _____

Briefer: CHUCK HEATH Topic: working table layout

Topic: _____

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

Chuck Heath
Steve Helm
My [unclear]
M. [unclear]
Carmen [unclear]
Mark Tuzin
Chuck Mobley
[unclear]

[Redacted]
[Redacted]
[Redacted]
[Redacted]
[Redacted]
[Redacted]
[Redacted]
[Redacted]

Site Health and Safety Officer: [Signature]

Date: 7/31/99 1999

HOT WORK PERMIT

Contract: DACA95-97-D-0010, D.O. 0004

Project: Debris Removal and Contaminated and Hazardous and Toxic Waste Removal

Location: Gambell, Saint Lawrence Island, Alaska

Type of Work: ~~_____~~ ~~_____~~ ~~_____~~

Heat Producing Device

chainsaw torch welder

Operator:

Curt Blakely

Location:

4

Fire Guard:

Grant Blakely

Scheduled Work

Date:

7/31/99

Time Start:

8:00

is Finished:

3:00

The Checklist Below Was Reviewed

Superintendent:

CHUCK HENRI

Date:

7/31/99

SHSO:

Date:

COMPLETE IMMEDIATELY PRIOR TO WORK

Hot Work Checklist

Item	N/A	Yes	No
1. Are all flammables and at least 50 ft away?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Is the operator fully qualified to operate the equipment?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Has the Fire Guard been identified and briefed to observe the area for 30 minutes after work is complete?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Has emergency communication procedures been checked?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is an ABC extinguisher present and is it in working order?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Have the tools and equipment been inspected for safety?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Is the correct PPE being worn?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Has the area been checked for flammable or explosive vapors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Have containers been checked for explosive/ flammable residue or vapors? (drums and tanks)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Are torch hoses purged before lighting (torches only)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Are nozzles and hoses in good repair? (torches only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMPLETE AFTER WORK

Time Start:

9:00

Time Finished:

4:30

Fire Guard Released:

5:50

Superintendent:

Date:

SHSO:

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date
Site 2	1600	0	20	0		24985		
Site 3	770	159	600	1150		0		
Site 4/Area 4A	5410	0	2140	583		0		
Site 4/Area 4B	905	0	2230	1688		0	104000	10117
Site4/Area 4D	1000		0					
Site 5	315	0	0	0		0		
Area between site 5 and 3	55		100					
Site 6	350	2992	0	7897		0		
Site 7	150		0					
Site 8	115000	59088	6200	7494		1814		
Site 10	1300	0	2300	5990		540		
Site 12	100	798	2550	7829		7830		
Site 13	300	343	0	0		0		
Totals	127255	63380	16140	32631	40000	35169	104000	10117
Percent of Contract Wt		50%		202%		88%		10%

Environmental Quality Control/Quality Assurance Report

(ER 415-1-J02)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title: Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 127	Date or Time Period 8/1/99	Location and Team Gambell, Alaska	
Other Conditions		Contractor	
Temp Low 44	Temp HI 47		
Wind Speed	calm-15 Knots	Conditions	Cloudy, fog, intermittent light rain
		Oil Spill Consultants, Inc.	

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action.)

Preparatory see attached checklist

Initial see attached checklist

Follow-Up Debris collection and containerizing: Work going well, no deficiencies
Reinspection of deficiencies DTL 006, and DTL 007. Deficiencies closed

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
NO FIELD TESTING TODAY			

Have Data Quality Objectives been achieved? N/A Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
NO SAMPLING TODAY		

Have required amount of QC trip blanks and rinsates been achieved? N/A Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) N/A Yes No

Have QA and QC samples been collected in the specified quantity? Not required by Delivery Order N/A Yes No

Have samples been properly labeled and packaged? N/A Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments. (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken)

At the safety meeting the Superintendent discussed the need for correct equipment spotting techniques. This included use of one and only one spotter, and insuring that there was eye contact between the spotter and the operator. The use of standard hand signals was also discussed. This topic was particularly relevant as the activities currently underway included use of machinery to lift and transfer loads. The hazards of working around moving equipment and the treacherous footing in the boulder field was also discussed.

QAR SAFETY COMMENTS:

EQUIPMENT USE HAS INCREASED. EMPHASIS NOW PUT ON LEHULE SAFETY AND AWARENESS. LOCAL DUMP TRUCKS ARE OPERATING IN OUR AREA. BACKUP MACHINES USED APPEAR TO BE AND FUNCTIONAL. DAILY EQUIPMENT CHECKS MADE.

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Continuation Sheet

Work Activities Performed This Date (Reference (NAS ID #/Tech Spec #))	Activity & Location	Quantity	Contractor
Stained Soil Removal (NAS ID 0019, 02050)	Stained soil from Site 4B was transported and weighed today. 526 lb from the site processed today	35,695 lb of Stained soil removed to date project-wide	
HTW Removal (NAS ID 0022, 02050)	HTW from Site 8, Site 4A, and Site 4B was weighed and processed today. 2,776 lbs processed today	35,407 lb of HTW removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	Previously stockpiled debris at Site 8 was processed And Debris from Site 4A was transported to the mountain and processed. 9,246 weighed and loaded today	72,626 lb of Debris removed to date project-wide	
Contaminated Soil (NAS ID 0016, 02220)	Excavated soil was transported to the staging area and Weighed. 6,815 lbs weighed today, more stockpiled	16,932 lb of contaminated Soil weighed to date	

Manpower and Equipment

Labor Classification	Number	ManHours	Equipment Type	Number	Hours Used
Project Manager	0	0	4 wheeler	3	24
CQC System Manager	1	12	Cat 426 loader	1	2
Superintendent	1	13	Argo	6	66
Archeologist	1	12	Nodwell	1	0
Operator	1	12	Pickup	1	12
Laborers	12	146	Cat 986 Loader	1	10
			Cat 973 Track Loader	1	3
Total Hours:		195	Total Hours		117

Instructions Given by the Government to the Contractor (include names, reactions, and remarks.) Verbal Written

NONE

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)

The Cat 973 track-loader performed its first work on the project, moving loaded connexes to the north beach barge loading site. (Inspection Checklist attached)

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *And. Lyle* Date 8/1/99

Government Quality Assurance Comments Yes No
 Concur with the QC report?
 Additional comments or exceptions

TRACK LOADER IS LOCAL RENTED EQUIPMENT IN QUESTIONABLE SHAPE.
 WORK IDLES ON FIRM TEND TO LOOSEN TRACK UNIDOC LOAD FROM
 CONNEX, MINIMAL USE NEEDED TO ASSURE THIS CRITICAL EQUIP FUNCTIONS.

QAR Signature *Steven Lellan* Date 8-2-99 Supervisor's Initial _____ Date _____
 99-027 2

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 3/1 1999 Time: 0700 Briefing Location: Wadage

Activities Planned: Soil tests

Briefer: CHUCK HEATH

Topic: Equipment Issues

Topic: Machine Equipment

Topic: Soil found in waste tank

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

Jeff Alden
Mark Ginn
Wonne Dreyer
Pat Tuzin
Paul ...
Chuck Heath
Steve ...
[Redacted]

M. S. ...
Chuck Mobley
Jan ...
Bob ...
[Redacted]
Dr. ...
Cliff ...
Steve ...

Site Health and Safety Officer: _____

Date: _____ 1999

SAFETY INSPECTION FOR MISCELLANEOUS EQUIPMENT
U.S. Army Engineer District, Alaska

Date of Inspection:

8/1/99

Contractor or Unit **CAR 973**

Contract No. or Activity **Cumber!**

Inspected by (Signature) *[Signature]*

Witness (Signature) *[Signature]*

CRAWLER MOUNTED BACKHOES, POWER SHOVELS, EXCAVATORS, FRONT-END LOADERS

NOTE: Safety and Health Requirements Manual (EM385-1-1) references in parentheses.

	Yes	No	N/A
1 Is the unit equipped with a suitable fire extinguisher (58C)? (16.A.26)			
2 Is a safe means of access to the cab provided (steps, grab bars, non-slip surfaces)? (16.B.03 (d))	X		
3 Is the operator protected against weather, falling or flying objects? (16.B.10 and 16.B.11)		X	
4 Are seat belts and adequate rollover protection provided where applicable? (16.B.08 & 16.B.12)	X		
5 Are sufficient lights provided for night operations? (16.A.11)	X		
6 Have brakes been tested and found satisfactory? (16.A.07 (d))	X		
7 Does the unit have an emergency brake system? (16.A.07 (d))			X
8 Can the emergency system be activated from cab? (16.A.07 (d))			X
9 Have air tanks been tested and certified? (20.A.01 (b))			X
10 Is an air pressure gage in working condition installed on the unit? (20.A.12)			X
11 Does the air tank have an accessible drain valve? (20.B.17)			X
12 Are the units equipped with windshield wipers, defrosting and defogging equipment that are in good operating condition? (16.A.07)			X
13 Is there an effective reverse signal where applicable? (16.B.01)	X		
14 Has the unit been inspected and certified mechanically safe by a qualified person before being placed in use? (16.A.01)	X		
15 Is the record of the test available? (16.A.01 (b))			
16 Are pressurized cylinders, actuating booms, outriggers, etc., equipped with pilot check valves? (20.A.17)		X	
17 Are only designated qualified operators being assigned to operate mechanized equipment? (16.A.04)	X		
18 Are fuel tanks located in a manner to prevent spills or overflows from running onto engine, exhaust, or electrical equipment? (16.B.04)	X		
19 Are exhaust discharges from equipment so directed that they do not endanger persons or obstruct the view of the operator? (16.B.05)	X		

REMARKS:

Deficiency Tracking Report

Contract Number / Delivery Order Number
DACA85-97-D-0010/D.O. 0004

UPC/Project Title
Debris Removal and Containerized Hazardous and Toxic Waste Removal

Date of Time Period
7/29/99

Location and Team
Gambell, Alaska

Description of deficiency:

SAFETY DEFICIENCY

Inspection of the generator at the site 4 top camp revealed that the ground wire was loosely connected to the generator. The wing nut intended to insure a positive connection was backed off greater than 1/2 inch. Consequently a positive connection was not made.

Note: The CQC finger-tightened the connection before leaving the site.

Corrective Action:

1. Tighten the grounding wired connection at the generator.
2. Check for similar unsafe conditions throughout the project.

CQC Signature _____ Date _____

Government Quality Assurance Comments
Concurs with the corrective action?
Additional comments or exceptions:

Yes No

QAR Signature _____ Date _____

Reinspection of Corrected Deficiency

A reinspection of the condition at 14:30 on 8/1/99 revealed that the ground wire had been securely fastened to the generator frame insuring a positive connection.

CQC Signature *[Signature]* Date 8/1/99 Deficiency corrected? Yes No

Government Quality Assurance Comments
Deficiency corrected? Yes No
Additional comments or exceptions:

JAR Signature *[Signature]* Date 8/2/99

Deficiency Tracking Report

Contract Number / Delivery Order Number :
DACA85-97-D-0010/D.O. 0004

UPC/Project Title:
Debris Removal and Containerized Hazardous and Toxic Waste Removal

DTL
007

Date or Time Period
7/29/99

Location and Team
Gambell, Alaska

Description of deficiency:

Inspection of the generator at the Site 4 staging area revealed that there was no spill containment under the generator required by the work plan. This condition creates the potential for soil contamination should an inadvertent spill occur during refueling.

Corrective Action:

1. Place spill containment under the generator
2. Check for similar conditions elsewhere throughout the project.

CQC Signature _____ Date _____

Government Quality Assurance Comments

Concurs with the corrective action?
Additional comments or exceptions:

Yes No

QAR Signature _____ Date _____

Reinspection of Corrected Deficiency

Reinspection of the condition at 1430 on 8/1/99 revealed that adequate spill containment had been placed under the generator to prevent soil contamination due to spills while refueling.

CQC Signature *[Signature]* Date 8/1/99 Deficiency corrected? Yes No

Government Quality Assurance Comments

Deficiency corrected? Yes No
Additional comments or exceptions:

QAR Signature *[Signature]* Date 8.2.99

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date
Site 2	1600	0	20	0		24985		
Site 3	770	159	600	1150		0		
Site 4/Area 4A	5410	3205	2140	2278		0		
Site 4/Area 4B	905	0	2230	1688		526	104000	16932
Site 4/Area 4D	1000		0					
Site 5	315	0	0	0 + 470		0		
Area between site 5 and 3	55		100					
Site 6	350	2992	0	7897		0		
Site 7	150		0					
Site 8	115000	65129	6200	7494		1814		
Site 10	1300	0	2300	7071		540		
Site 12	100	798	2550	7829		7830		
Site 13	300	343	0	0		0		
Totals	127255	72626	16140	35407	40000	35695	104000	16932
Percent of Contract Wt		57%		219%		89%		16%

Environmental Quality Control/Quality Assurance Report

(ER 415-1-X02)

Contract Number / Delivery Order Number :
DACA85-97-D-0010/D.O. 0004

UPC/Project Title:
Debris Removal and Containerized Hazardous and Toxic Waste Removal

QC Report Number
-028

Date or Time Period
8/2/99

Location and Team
Gambell, Alaska

Weather Conditions

Temp Low **44** Temp HI **47**
 Wind Speed **5-15** Knots

Conditions Cloudy

Contractor

Oil Spill Consultants, Inc.

Quality Control Inspections Performed This Date (include inspections, results, deficiencies observed, and corrective action)

Preparatory see attached checklist
 Initial see attached checklist
 Follow-Up

Debris collection and containerizing: Work going well, no deficiencies

Was the deficiency tracking list updated this date

Yes No

Field Sampling and Testing

Has field testing been performed this date?

Yes No

Type of test

Method/Matrix

Quantity of samples

Results

NO FIELD TESTING TODAY

Have Data Quality Objectives been achieved? **N/A**

Yes No

Have Samples Been Collected for Laboratory Analysis?

Yes No

Type of Test

EPA Test Method/Matrix

Quantity of Samples

NO SAMPLING TODAY

Have required amount of QC trip blanks and rinsates been achieved?

N/A Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.)

N/A Yes No

Have QA and QC samples been collected in the specified quantity? **Not required by Delivery Order**

N/A Yes No

Have samples been properly labeled and packaged?

N/A Yes No

Health and Safety

Worker protection levels this date:

Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space?

Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health?

Yes No

Were approved decontamination procedures used on workers and equipment as required?

Yes No

Safety Comments (include any infractions of approved safety plan, and include instructions from Government personnel Specify corrective action taken)

At the safety meeting the Superintendent highlighted the potential for brake overheating on the Argos. Drivers were cautioned to avoid a constant drag on either side of the steering brake. Loads needed to be centered and tire pressure checked to make sure that the Argos ran true. All fire extinguishers needed to be checked and bad ones replaced. The wire on the tundra was identified as a hazard to ATV and foot Travel.

QAR SAFETY COMMENTS:

LIVE ELECTRICAL CABLES WERE LOCATED BY FNA TECH. MUCH OF CABLE WAS WITHIN EASY REACHING DEPTH OF OUR INTERMEDIARY. SOME WAS 6-10' DEEP. FNA TECH SAID THE CABLE WAS BURIED TOO SHALLOW BY A SUBCONTRACTOR AND MUST BE REBURIED. CABLE RUN CAME WITHIN 4' OF MATTING ON 1 END. UNDUO COORDINATION WOULD BE REQUIRED TO WORK AROUND THIS PROBLEM. SIZANNE B. -PM SAID "ITS NOT WORTH THE RISK" WILL WAIT FOR OFFICIAL RULING, FOR NOW THIS WORK ALONG THE CABLE IS CONSTRUCTIVELY SUSPENDED DUE TO SAFETY CONCERNS.

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)

Continuation Sheet

Work Activities Performed This Date (reference (NAS ID #/Tech Spec #))	Activity & Location	Quantity	Contractor
Stained Soil Removal (NAS ID 0019, 02050)	No stained soil collected today	35,695 lb of Stained soil removed to date project-wide	
HTW Removal (NAS ID 0022, 02050)	Previously collected HTW from Site 5, was weighed today 470 lbs processed today	35,877 lb of HTW removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	Previously stockpiled debris at Site 8 was processed And Debris from Site 4A was transported off the mountain and processed. 13,993 weighed and loaded today.	72,626 lb of Debris removed to date project-wide	
Contaminated Soil (NAS ID 0016, 02220)	Excavated soil was transported to the staging area No additional soil excavated or weighed	16,932 lb of contaminated Soil weighed to date	

Manpower and Equipment

Labor Classification	Labor		Equipment Type	Equipment	
	Number	ManHours		Number	Hours Used
Project Manager	0	0	4 wheeler	3	24
CQC System Manager	1	12	Cat 426 loader	1	3
Superintendent	1	13	Argo	6	66
Archeologist	1	12	Nodwell	1	0
Operator	1	12	Pickup	1	12
Laborers	9	108	Cat 966 Loader	1	10
			Cat 973 Track Loader	1	3
Total Hours:		157	Total Hours		118

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks.)

Verbal Written

NONE

Work Progress Are there any Contractor caused delays or potential finding of fact?

Yes No

Are there any Government caused delays or potential finding of fact?

Yes No

Are there any unforeseeable or weather related delays?

Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

The CQC and a facilities technician from the FAA used test equipment to locate and mark the live electric cable that had been discovered between the east side of the runway and the road in Site 8. The live cable was found to be buried less than one foot deep along the run from the power enclosure at the mid-point of the runway to the junction box at the south end of the runway. In all other areas it was buried 6 to 10 feet below grade.

The Project Archeologist called SHPO representative Tim Smith and asked him (he agreed) to call Suzanne Beauchamp to confirm no problem with cleanup in archaeological site XSL-005, at end of airstrip adjacent to Area 8. This area is a candidate for inclusion in the project.

Later he met with Sivuqaq Inc. President Job Koonooka and Native Liaison Bert Oozevaseuk regarding disposition of rockshelter with hearth in Area 4. Koonooka favors protection if site proves to be archaeologically significant. Koonooka's decision was to: a) confer privately with elder Conrad Oozeva rather than whole Board; b) depending on that conversation, he would request that the Archeologist and Bert test site to determine age (not outside the usual compliance parameters for a project such as this); and c) depending on that conversation, the full Board would decide the Corporation's protection strategy (protection from villagers, not from our cleanup work). Also delivered Artifact #1 and obtained signed receipt.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature



Date

8/2/99

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)

Continuation Sheet

Government Quality Assurance Comments

Concurs with the QC report?

Yes No

Additional comments or exceptions:

- POWER CABLE ^{WERE} SUSPENDED - SEE SAFETY COMMENTS
- LOCATED SONAR CABLE RUN ALONG N/S RUN FROM CLIFF TO SOUTHERN END OF PROJECT LINES. CABLE HAD TO BE PULLED UP TO MAP AND LOCATE. LOCATION WAS NOT AS SHOWN ON DRAWINGS.
- GAS RECORD MADE FOR LATER PLOT ON MAP.
- AIRBORNE TRAIL IS ALSO VERY DISTANT, POSSIBLY $\frac{1}{2}$ TO $\frac{3}{4}$ MILE FROM ARMY TRAIL. CONTRACT DRAWING MISREPRESENTS LOCATION WITH INCORRECT SCALE AND RELATIVE LOCATION.

QAR Signature

Steven J. Ller

Date

8/3/79

Supervisor's Initial

Date

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 8/2 1999 Time: 0700 Briefing Location: Lodge

Activities Planned: Transporting Debris

Briefer: Chuck Heath

Topic: Brake over heating

Topic: Fire extinguisher

Topic: Wipe on the ground

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

Chuck Mobley

M. [Signature]

[Signature]

[Redacted]

Chig Koonoo

Doug [Signature]

[Signature]

Mit [Signature]

[Signature]

[Signature]

[Signature]

[Signature]

[Signature]

Site Health and Safety Officer: [Signature]

Date: 8/2 1999

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date
Site 2	1600	0	20	0		24985		
Site 3	770	159	600	1150		0		
Site 4/Area 4A	5410	7260	2140	2278		0		
Site 4/Area 4B	905	0	2230	1688		526	104000	16932
Site4/Area 4D	1000		0					
Site 5	315	1131	0	470		0		
Area between site 5 and 3	55		100					
Site 6	350	2992	0	7897		0		
Site 7	150		0					
Site 8	115000	73936	6200	7494		1814		
Site 10	1300	0	2300	7071		540		
Site 12	100	798	2550	7829		7830		
Site 13	300	343	0	0		0		
Totals	127255	86619	16140	35877	40000	35695	104000	16932
Percent of Contract Wt		68%		222%		89%		16%

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Contract Number / Delivery Order Number : **DACAB5-97-D-0010/D.O. 0004** UPC/Project Title **Debris Removal and Containerized Hazardous and Toxic Waste Removal**

QC Report Number **J-029** Date or Time Period **8/3/99** Location and Team **Gambell, Alaska**

Weather Conditions Contractor **Oil Spill Consultants, Inc.**
 Temp Low **44** Temp Hi **47**
 Wind Speed **15-25** Knots Conditions **windy and rainy.**

Quality Control Inspections Performed This Date (include inspections, results, deficiencies observed, and corrective action.)
 Preparatory see attached checklist
 Initial see attached checklist
 Follow-Up HTW collection, Drum staging and processing: Work going well, no deficiencies
 Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing
 Has field testing been performed this date? Yes No
 Type of test Method/Matrix Quantity of samples Results
NO FIELD TESTING TODAY

Have Data Quality Objectives been achieved? N/A Yes No
 Have Samples Been Collected for Laboratory Analysis? Yes No
 Type of Test EPA Test Method/Matrix Quantity of Samples
NO SAMPLING TODAY
 Have required amount of QC trip blanks and rinsates been achieved? N/A Yes No
 Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) N/A Yes No
 Have QA and QC samples been collected in the specified quantity? Not required by Delivery Order N/A Yes No
 Have samples been properly labeled and packaged? N/A Yes No

Health and Safety
 Worker protection levels this date: Level A Level B Level C Level D N/A
 Was any work activity conducted within a confined space? Yes No
 Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No
 Were approved decontamination procedures used on workers and equipment as required? Yes No
 Safety Comments: (include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken)

The Superintendent addressed the need for proper lifting techniques while loading drums into Argos. This was in concert with the tundra drum collection that was scheduled to start that day. The correct way to safely load the Argos, and the tie-down methods for loads was also discussed.

It was announced at the safety meeting that the project had amassed over 3,000 hours without a single accident.

QAR SAFETY COMMENTS:
PPE CHECKED AT SAFETY MEETING. WEATHER TOO BAD FOR SITE VISITS, MILES AWAY.

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Continuation Sheet

Work Activities Performed This Date reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Stained Soil Removal (NAS ID 0019, 02050)	No stained soil collected today	35,895 lb of Stained soil removed to date project-wide	
HTW Removal (NAS ID 0022, 02050)	HTW removal from mountain top site 4B and 4D was completed today, 2,157 lbs processed today 100 drums were collected from site 10, none yet weighed	38,034 lb of HTW removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	Previously stockpiled debris at Site 8 was processed Debris removal from Site 4A and 4D was completed today 8,036 weighed and loaded today.	94,855 lb of Debris removed to date project-wide	
Contaminated Soil (NAS ID 0016, 02220)	No activity with contaminated soil today No additional soil excavated or weighed	16,932 lb of contaminated Soil weighed to date	

Manpower and Equipment

Labor Classification	Number	ManHours	Equipment	Number	Hours Used
			Type		
Project Manager	0	0	4 wheeler	3	24
CQC System Manager	1	12	Cat 426 loader	1	3
Supenntendent	1	12	Argo	6	66
Archeologist	1	12	Nodwell	1	0
Operator	1	10	Pickup	1	12
Laborers	12	111	Cat 966 Loader	1	10
			Cat 973 Track Loader	1	0
Total Hours:		157		Total Hours 125	

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks.)

Verbal Written

The QAR informed the CQC that removal of 2.2 miles of navy sonar wire and the associated spools and equipment shed is to be include within the scope of Site 10 work. This work could now proceed when the project schedule should accommodate it. The southern terminus should be marked for future removal work.

The QAR also gave approval to the CQC to containerize and remove the solidified paint cans that had been found during the cleanup of site 12.

The QAR directed that excavation of contaminated soil should proceed up to, but not beyond, the contract limit. Excavation should be performed to provide a uniform finished elevation throughout the excavation area.

Work Progress: Are there any Contractor caused delays or potential finding of fact?
Are there any Government caused delays or potential finding of fact?
Are there any unforeseeable or weather related delays?

Yes No
Yes No
Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

Severe weather, (cold temperatures, strong winds, blowing rain) forced a cessation of cleanup activities on the mountain. Crews continued to work removing drums from the tundra, at lower elevations in the lee of the mountain.

Three new HazMat laborers arrived from anchorage and were assigned to the project today.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature



Date

8/14/99

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)

Continuation Sheet

Government Quality Assurance Comments

Concurs with the QC report?

Yes No

Additional comments or exceptions:

- DIRECTION ON NAVY MATERIAL, PAINT CANS AND CONTAMINATED SOIL WAS RECEIVED AND ACTED UPON.
- HIGH WINDS CAUSING DELAYS AT MOUNTAINTOP, OTHER WORK WAS SCHEDULED FOR CREWS
- NEW HIRE MAT MEN ARRIVED DUE TO SHORTAGE OF LOCAL TRIMME PERSONS. ~~UP~~ KONIKA OBJECTED BUT WAS INFORMED OF REASON FOR THIS ACTION.

QAR Signature

Steven To Case

Date

8/5/99

Supervisor's Initial

Date

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 8/9 1999 Time: 0730 Briefing Location: Lodge

Activities Planned: Lodge

Briefer: Chuck Heath

Topic: Lifting techniques
Topic: Lead Tie-downs

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

Chuck Noble,
M. S.

Chuck Heath
Steve Keller

Mr. A. Turin
[Signature]

Chris Cooney

George O'Connell

Don Gould

Don Pi

Site Health and Safety Officer: [Signature]

Date: 8/3 1999

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date
Site 2	1600	0	20	0		24985		
Site 3	770	159	600	1150		0		
Site 4/Area 4A	5410	12348	2140	2278		0		
Site 4/Area 4B	905	0	2230	1688		526	104000	16932
Site4/Area 4D	1000	2948	0	2157		0		
Site 5	315	1131	0	470		0		
Area between site 5 and 3	55		100					
Site 6	350	2992	0	7897		0		
Site 7	150		0					
Site 8	115000	73936	6200	7494		1814		
Site 10	1300	0	2300	7071		540		
Site 12	100	798	2550	7829		7830		
Site 13	300	343	0	0		0		
Totals	127255	94655	16140	38034	40000	35695	104000	16932
Percent of Contract Wt		74%		236%		89%		16%

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Contract Number / Delivery Order Number : **DACA85-97-D-0010/D.O. 0004** UPC/Project Title: **Debris Removal and Containerized Hazardous and Toxic Waste Removal**

QC Report Number: **9-030** Date or Time Period: **8/4/99** Location and Team: **Gambell, Alaska**

Weather Conditions: Contractor: **Oil Spill Consultants, Inc.**
 Temp Low **44** Temp Hi **47**
 Wind Speed **15-35** **Knots** Conditions **windy and rainy**

Quality Control Inspections Performed This Date (include inspections, results, deficiencies observed, and corrective action.)
 Preparatory see attached checklist
 Initial see attached checklist
 Follow-Up

Was the deficiency tracking list updated this date? Yes No

Field Sampling and Testing
 Has field testing been performed this date? Yes No
 Type of test Method/Matrix Quantity of samples Results

NO FIELD TESTING TODAY

Have Data Quality Objectives been achieved? N/A Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No
 Type of Test EPA Test Method/Matrix Quantity of Samples

NO SAMPLING TODAY

Have required amount of QC trip blanks and rinsates been achieved? N/A Yes No
 Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) N/A Yes No
 Have QA and QC samples been collected in the specified quantity? Not required by Delivery Order N/A Yes No
 Have samples been properly labeled and packaged? N/A Yes No

Health and Safety
 Worker protection levels this date: Level A Level B Level C Level D N/A
 Was any work activity conducted within a confined space? Yes No
 Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No
 Were approved decontamination procedures used on workers and equipment as required? Yes No
 Safety Comments: (include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The Superintendent addressed importance of wearing the minimum level of PPE during all activities. This includes hard hats, steel-toed boots, and safety glasses. The PPE upgrades for ATV use were also stressed as was the general safety practices for operating ATVs. These practices included safe travel speed, awareness of terrain, and proper cargo loading. The need for the buddy system, during periods of low visibility, was also stressed.

QAR SAFETY COMMENTS:

HIGH WIND & RAIN DANGER - CREWS ON STANDBY, NO WORK TODAY.

Environmental Quality Control/Quality Assurance Report.

(ER 415-1-302)

Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
CREW ON STANDBY DUE TO WEATHER ALL DAY			
Stained Soil Removal (NAS ID 0019, 02050)	No activity today	35,695 lb of Stained soil removed to date project-wide	
HTW Removal (NAS ID 0022, 02050)	No activity today	38,034 lb of HTW removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	No activity today	94,855 lb of Debris removed to date project-wide	
Contaminated Soil (NAS ID 0016, 02220)	No activity today	16,932 lb of contaminated Soil weighed to date	

Manpower and Equipment					
Labor			Equipment		
Classification	Number	ManHours	Type	Number	Hours Used
Project Manager	0	0	4 wheeler	3	6
QC System Manager	1	8	Cat 426 loader	1	0
Superintendent	1	8	Argo	6	6
Archeologist	1	8	Nodwell	1	0
Operator	1	8	Pickup	1	0
Laborers	13	104	Cat 966 Loader	1	0
			Cat 973 Track Loader	1	0
Total Hours:		136	Total Hours		12

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks.) Verbal Written

NONE

Work Progress Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

Severe weather, (cold temperatures, strong winds, blowing rain) forced a cessation of all cleanup activities for the entire day. Crew on standby for 8 hours.

One additional HazWopr laborer arrived on the project today.

A four-man USCG helicopter Search and Rescue (SAR) team led by Lt. Orin Rush arrive on sight today. Their mission was to search for skiffs and people missing at sea from the flotilla of Russian natives that had left Gambell for Russia on the previous day. Contractor-provided support to the SAR team included evening meals, ground transportation, and phone and fax support.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *Steve L. Lini* Date 8/5/99

Government Quality Assurance Comments
 Concur with the QC report? Yes No
 Additional comments or exceptions:

CONTACTED OFFICE ABOUT SAR SUPPORT, LIME RELATED THAT WE DON'T HAVE INTER-AGENCY SUPPORT. STATE DISASTER COORDINATOR 907-425-7000 COULD NOT BE REACHED. GENERAL SUPPORT WILL BE OFFERED AS CASUAL ASSISTANCE OF AN INSIGNIFICANT NATURE.

QAR Signature *Steve L. Lini* Date 8/7/99 Supervisor's Initial _____ Date _____

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 8/4/ 1999 Time: 7:00 AM Briefing Location: LODGE

Activities Planned: _____

Briefer: CHUCK HEATH

Topic: HARD HATS

Topic: ATV SAFETY

Topic: PPE in Excavation Area

Briefer: _____

Topic: Safety Glasses in Argon

Topic: Traveling in Fog

Topic: _____

Attendees

David Olson

FRED HURSON

LOUIE THOMAS

[Signature]

Clay Bridges

[Signature]

[Redacted]

[Redacted]

Chuck Heath

[Redacted]

Chuck Moly

Scott [Signature]

Site Health and Safety Officer: [Signature]

Date: 8/4/99 1999

Environmental Quality Control/Quality Assurance Report

(ER 415-1-X02)

Contract Number / Delivery Order Number: DACAB5-97-D-0010/D.O. 0004		UPC/Project Title: Debris Removal and Containerized Hazardous and Toxic Waste Removal	
QC Report Number: J-031	Date or Time Period: 8/5/99	Location and Team: Gambell, Alaska	
Weather Conditions: Temp Low 48 Temp Hi 48		Contractor: Oil Spill Consultants, Inc.	
Wind Speed: 15-35 Knots	Conditions: windy and rainy		

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action)

Preparatory see attached checklist

Initial see attached checklist

Follow-Up

Was the deficiency tracking list updated this date? Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
NO FIELD TESTING TODAY			

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
NO SAMPLING TODAY		

Have required amount of QC trip blanks and rinsates been achieved? **N/A** Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) **N/A** Yes No

Have QA and QC samples been collected in the specified quantity? **Not required by Delivery Order** **N/A** Yes No

Have samples been properly labeled and packaged? **N/A** Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D **N/A**

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken)

The Superintendent addressed importance of using the buddy system while working in remote areas. This was particularly important during periods of low visibility and while working near the cliff. Crews assigned to work near the cliff were advised to use extreme caution, and stay in close contact with other team members.

OSAR SAFETY COMMENTS:

NO CLEANUP BEING DONE NEAR CLIFF. MUST HAS BEEN STAGED. DEBRIS IS BEING LOADED AND TRANSPORTED TO CONNER. SAFETY EMPHASIS SHIFTING TO VEHICLE SAFETY AND CARE WALKING ON TUNDRA.

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Stained Soil Removal (NAS ID 0019, 02050)	Stained soil previously collected from Site 4 (the mountain top) was weighed and loaded. 463 lbs processed today	36,158 lb of Stained soil removed to date project-wide	
HTW Removal (NAS ID 0022, 02050)	Drums from Site 10 (the tundra) and Site 4 (the mountain top) were collected and weighed. 5,659 lb or drums processed	43,893 lb of HTW removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	No debris was processed today	94,655 lb of Debris removed to date project-wide	
Contaminated Soil (NAS ID 0016, 02220)	Previously excavated soil was weighed and loaded today	24,795 lb of contaminated Soil weighed to date	

Environmental Quality Control/Quality Assurance Report
(ER 413-1-302)

Continuation Sheet

Manpower and Equipment

Labor Classification	Number	ManHours	Equipment Type	Number	Hours Used
Project Manager	0	0	4 wheeler	3	36
CQC System Manager	1	12	Cat 425 loader	1	4
Superintendent	1	14	Argo	6	66
Archeologist	1	12	Nodwell	1	0
Operator	1	12	Pickup	1	12
Laborers	11	132	Cat 966 Loader	1	10
			Cat 973 Track Loader	1	0
Total Hours:		182	Total Hours		128

Instructions Given by the Government to the Contractor (include names, reactions, and remarks)

Verbal Written

NONE

Work Progress: Are there any Contractor caused delays or potential finding of fact?
 Are there any Government caused delays or potential finding of fact?
 Are there any unforeseeable or weather related delays?

Yes No
 Yes No
 Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)

One additional HazWopr operator arrived on the project today.

The Archeologist, the Native Liaison Bert Oozevaseuk, and the CQC inspected archaeological site XSL-003 between Areas 2 and 5. No debris aside from two pipes which were removed from surface. They then inspected archaeological sites XSL-002 and XSL-001 for Navy sub-detection wire, in Area 5, and flagged it. Removal should be possible with archaeological supervision. Also flagged guy-cable on south side of XSL-002, just outside Area 5.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature

[Handwritten Signature]

Date

8/5/99

Government Quality Assurance Comments

Concurs with the QC report?

Yes No

Additional comments or exceptions:

- NAVY WIRE ROUTE WAS LOCATED FROM CAMP AND FLAGGED TO TERMINUS 2.2 MILES AWAY (SOUTH END). THIS WIRE GOES 30 MILES BUT IT IS OFF THE PROJECT SCOPE TO RETRIEVE THIS. THERE IS ANOTHER RUN OF NAVY CABLE BUT IT HAS NOT YET BEEN LOCATED. THERE IS A 2 SQUARE MILE SEARCH AREA TO FIND IT. TUNDRA OBSCURED MOST OF IT.
- SOIL CONTAMINATED PROCEEDING. TAGGING ONLY. WINDS TOO HIGH
- PLOTTED SOME POINTS FOR CABLE, NAVY. USED MILITARY TACTIC MAPS TO PLOT USING UTM.

QAR Signature

[Handwritten Signature]

Date

8-7-99

Supervisor's Initial

Date

99-030

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 4/5 1999 Time: 0700 Briefing Location: Loofers

Activities Planned: Debris collection, Site 3, 4 & Area 11

Briefer: Chuck Heath

Topic: Avoiding Cliff Edge

Topic: Buddy System

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

[Signature]
[Signature]
[Signature]
David Olson
[Signature]
[Signature]
[Signature]
[Signature]

Chuck Mobley
[Signature]

Site Health and Safety Officer: _____

Date: _____ 1999

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date
Site 2	1600	0	20	0		24985		
Site 3	770	159	600	1150		0		
Site 4/Area 4A	5410	12348	2140	2278		0		
Site 4/Area 4B	905	0	2230	1688		526	104000	24795
Site4/Area 4D	1000	2948	0	4743		463		
Site 5	315	1131	0	470		0		
Area between site 5 and 3	55		100					
Site 6	350	2992	0	7897		0		
Site 7	150		0					
Site 8	115000	73936	6200	7494		1814		
Site 10	1300	0	2300	10144		540		
Site 12	100	798	2550	7829		7830		
Site 13	300	343	0	0		0		
Totals	127255	94655	16140	43693	40000	36158	104000	24795
Percent of Contract Wt		74%		271%		90%		24%

Environmental Quality Control/Quality Assurance Report

(LR 415-1-302)

Contract Number / Delivery Order Number: **DACA85-97-D-0010/D.O. 0004** UPC/Project Title: **Debris Removal and Containerized Hazardous and Toxic Waste Removal**

QC Report Number: **-032** Date or Time Period: **8/6/99** Location and Team: **Gambell, Alaska**

Weather Conditions: **Temp Low 46 Temp HI 48**
 Wind Speed: **5-15 Knots** Conditions: **cloudy** Contractor: **Oil Spill Consultants, Inc.**

Quality Control Inspections Performed This Date (include inspections, results, deficiencies observed, and corrective action.)
 Preparatory see attached checklist
 Initial see attached checklist
 Follow-Up Contaminated soil excavation and transport: Work going well. Corrections made on site for PPE. No other deficiencies.

Was the deficiency tracking list updated this date? Yes No

Field Sampling and Testing
 Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results	
NO FIELD TESTING TODAY				

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis?
 Type of Test EPA Test Method/Matrix Quantity of Samples Yes No

NO SAMPLING TODAY

Have required amount of QC trip blanks and rinsates been achieved? N/A Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) N/A Yes No

Have QA and QC samples been collected in the specified quantity? Not required by Delivery Order N/A Yes No

Have samples been properly labeled and packaged? N/A Yes No

Health and Safety
 Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The Superintendent repeated his previous day's address on the importance of using the buddy system while working in remote areas. This was particularly important during periods of low visibility and while working near the cliff. Crews assigned to work near the cliff were advised to use extreme caution, and stay in close contact with other team members.

During an inspection of Site 4 (the Mountain top) it was observed that hard hat, safety glass wear, and use of helmets while riding four wheelers was not consistently practiced. Corrections were made on the spot. The need to adhere to Hard hats, steel-toed boots, and safety glasses as the minimum level PPE for all activities and the wear of helmets while riding four-wheelers needs to be stressed to the crew.

QAR SAFETY COMMENTS:
 WIND AND RAIN MAKING PROBLEM WITH HATS, SWITCHING HELMETS FROM ATV TO HARD HATS DUE TO VEHICLE CHANGES MAKE SOME VARIATION TROUBLE. HARD HATS SHED RAIN, THAT IS DESIRABLE. EFFORTS BEING MADE TO COPE WITH HIGH WINDS.
 GENERAL GOOD SAFETY ATTITUDE OBSERVED.

Environmental Quality Control/Quality Assurance Report

(ER 413-1-302)

Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Stained Soil Removal (NAS ID 0019, 02050)	No stained soil collected today	36,158 lb of Stained soil removed to date project-wide	
HTW Removal (NAS ID 0022, 02050)	Previously-collected drums from Site 10 (the tundra) and Site 4 (the mountain top) were weighed 1,294 lb	44,943 lb of HTW removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	No debris was processed today	94,655 lb of Debris removed to date project-wide	
Contaminated Soil (NAS ID 0016, 02220)	21,294 lbs of soil was weighed and loaded today 7,863 lbs of soil.	46,089 lb of contaminated Soil weighed to date	

Manpower and Equipment

Labor Classification	Number	ManHours	Equipment Type	Number	Hours Used
Project Manager	0	0	4 wheeler	3	30
CQC System Manager	1	12	Cat 426 loader	1	4
Superintendent	1	14	Argo	6	66
Archeologist	1	12	Nodwell	1	0
Operator	1	12	Pickup	1	12
Laborers	11	132	Cat 966 Loader	1	10
			Cat 973 Track Loader	1	0
Total Hours:		182	Total Hours		128

Instructions Given by the Government to the Contractor (include names, reactions, and remarks.) Verbal Written

The QAR provided direction to the CQC to expand the cleanup effort in Site 8 (the west beach area) to incorporate the archeological site north of the runway and west of the road to the runway. Work must be done under the supervision of the Project Archeologist and local personnel will perform the work.

It was brought to the QAR's attention that earth work by another contractor was uncovering drums, previously buried, in the southeast corner of Site 8. This was increasing the amount of HTW material projected to be in the area. The QAR directed that no new drums be picked up in these areas.

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)

Native Liaison Bert Oozevaseuk, identified a sled frame in Site 5, east of the High School, that had not been previously catalogued for removal. The QAR was informed. The item will be considered for possible inclusion in the cleanup program.

The CQC and the QAR conducted a survey of the Air Force and Army Trails in the Tundra portion of Site 10. The QAR took GPS readings and plotted the location of the trails (Map attached). Approximately 600 lf of 6 ft galvanized chain link fence was found near the north end of the Air Force trail. The Native Liaison, Bert Oozevaseuk, identified this fence as the remains of a reindeer coral, not from previous military activities.

The USCG SAR Team stationed at Gambell left today.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature

[Handwritten Signature]

Date

8/6/94

Environmental Quality Control/Quality Assurance Report

(ER 415-2-302)

Continuation Sheet

Government Quality Assurance Comments

Concurs with the QC report?

Yes No

Additional comments or exceptions:

- NOTIFIED VIA EMAIL 8/6/99 9:35 AM. AREA 3 HISTORICAL CHL DEBRIS MAY BE REMOVED NOW. NTP APPROVED BY SHPO, LIE & CIVILIC M. CONTRACTOR NOTIFIED TO ADD TO DEBRIS LIST.
- WORK ON PERMITS QUANTITIES FOR CHANGES ORDER WORKED ON TODAY. SORTING THRU ALL AREA LIMITS AND PROVIDED AMOUNTS
- SLED AT SITE 5 ID'D AS MILITARY BY LAISON. WILL CONTACT SERVICE ABOUT POSITION LATER.
- SEARCH & RESCUE VISITED SITE TODAY AND LEFT.

QAR Signature

Steven Keller

Date

8-7-99

Supervisor's Initial

Date

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 8-6 1999 Time: 7:00 Briefing Location: LCDR's Conference

Activities Planned: _____

Briefer: CHUCK HEATH Topic: Buddy System

Topic: _____

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

Jim Palmer
Ronald Gussel
Walt Taylor
Scott Chapman
Tom K. ...
...
...
...

...
Chuck Mobley
M. ...
[REDACTED]
David Olson
Mul. ...
Steve Sellen

Site Health and Safety Officer: ...

Date: 7/6 1999

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date
Site 2	1600	0	20	0		24985		
Site 3	770	159	600	1150		0		
Site 4/Area 4A	5410	12348	2140	2278		0		
Site 4/Area 4B	905	0	2230	1688		526	104000	46089
Site4/Area 4D	1000	2948	0	5969		463		
Site 5	315	1131	0	470		0		
Area between site 5 and 3	55		100					
Site 6	350	2992	0	7897		0		
Site 7	150		0					
Site 8	115000	73936	6200	7494		1814		
Site 10	1300	0	2300	10168		540		
Site 12	100	798	2550	7829		7830		
Site 13	300	343	0	0		0		
Totals	127255	94655	16140	44943	40000	36158	104000	46089
Percent of Contract Wt		74%		278%		90%		44%

Environmental Quality Control/Quality Assurance Report

(CR 415-1-302)

Contract Number / Delivery Order Number : DACA85-87-D-0010/D.O. 0004 UPC/Project Title: Debris Removal and Containerized Hazardous and Toxic Waste Removal

Report Number 3 Date or Time Period 8/7/99 Location and Team Gambell, Alaska

Weather Conditions
Temp Low 44 Temp Hi 48 Contractor
Wind Speed calm - 16 Knots Conditions cloudy Oil Spill Consultants, Inc.

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action.)
Preparatory see attached checklist
Initial see attached checklist
Follow-Up Debris loading: 10 containers inspected and ready for movement to barge loading area. (Inspection list attached)

Was the deficiency tracking list updated this date? Yes No

Field Sampling and Testing
Has field testing been performed this date? Yes No
Type of test Method/Matrix Quantity of samples Results

NO FIELD TESTING TODAY

Have Data Quality Objectives been achieved? N/A Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No
Type of Test EPA Test Method/Matrix Quantity of Samples

NO SAMPLING TODAY

Have required amount of QC trip blanks and rinsates been achieved? N/A Yes No
Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) N/A Yes No
Have QA and QC samples been collected in the specified quantity? Not required by Delivery Order Yes No
Have samples been properly labeled and packaged? N/A Yes No

Health and Safety
Worker protection levels this date: Level A Level B Level C Level D N/A
Was any work activity conducted within a confined space? Yes No
Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No
Were approved decontamination procedures used on workers and equipment as required? Yes No
Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The Superintendent addressed the need to adhere to Hard hats, steel-toed boots, and safety glasses as the minimum PPE for all activities and the wear of helmets while riding four-wheelers. The Site Safety and Health Officer emphasized the need to avoid "going home syndrome." This is the condition where caution, attentiveness, and safety practices tend to lapse as field work nears completion. With no accidents or injuries on the project to date, personnel need to maintain the same level of safety awareness all the way through to the end of the project.

OSHA SAFETY COMMENTS:

WIND DIED OFF TODAY. LACK OF VEHICLES LIMITS MY MOBILITY, MECHANIC NEEDS PARTS TO KEEP US RUNNING.

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Stained Soil Removal (NAS ID 0019, 02050)	215 lb of previously-collected stained soil processed today	36,383 lb of Stained soil removed to date project-wide	
HTW Removal (NAS ID 0022, 02050)	Previously-collected drums from Site 10 (the tundra) and Site 4 (the mountain top) were weighed: 2,761 lb	47,704 lb of HTW removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	614 lb of previously-collected debris was processed today	95,169 lb of Debris removed to date project-wide	
Contaminated Soil (NAS ID 0016, 02220)	18,811 lbs of contaminated soil was weighed and loaded today Approximately 1,375 lb of soil bagged but not weighed	64,900 of contaminated Soil weighed to date.	

Manpower and Equipment

Labor Classification	Number	ManHours	Equipment Type	Number	Hours Used
Project Manager	0	0	4 wheeler	3	30
CQC System Manager	1	12	Cat 426 loader	1	4
Superintendent	1	13	Argo	6	66
Archeologist	1	12	Nodwell	1	0
Operator	1	12	Pickup	1	12
Laborers	12	144	Cat 966 Loader	1	10
			Cat 973 Track Loader	1	5
Total Hours:		193		Total Hours: 127	

Instructions Given by the Government to the Contractor (include names, reactions, and remarks.) Verbal Written

NONE

Work Progress Are there any Contractor caused delays or potential finding of fact? Yes No

Are there any Government caused delays or potential finding of fact? Yes No

Are there any unforeseeable or weather related delays? Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)

The Cat 973 was repaired and returned to service today. It moved 4 connexes from the staging area to the north Beach barge loading site.

During and Inspection of Site 12 It was noted that persons unknown had been digging in the area and unearthed additional debris. The QAR was informed.

The Superintendent reported the following sites complete and ready for CQC inspection: 2, 3, 6, 7, 12, 13.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *[Signature]* Date 8/17/99

Government Quality Assurance Comments

Concurs with the QC report? Yes No

Additional comments or exceptions:

- SITE 12 CONTAINS SOME ARTIFACTS. THESE ARE LOCAL DIG ARTIFACTS.
- LACK OF TRANSPORT LIMITS INSPECTIONS. INSPECTIONS WILL FOLLOW RETURN OF TRANSPORT RECON VEHICLES. SOME AREAS HAVE BEEN INUNDATED.

QAR Signature *[Signature]* Date 8-9/99 Supervisor's Initial _____ Date _____

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 8/7 1999 Time: 0700 Briefing Location: Judge

Activities Planned: soil excavation & transportation

Briefer: CHUCK HEATH Topic: Level D PPE

Topic: _____

Topic: _____

Briefer: Steve Rein

Topic: Boing home / Syndrome

Topic: _____

Topic: _____

Attendees

David Olson
W. H. H. H.
Chuck Heath
David L. R.
Chuck Mobley
Frank McKeon
Lois K. Thomas
David Quill

M. S. E.
M. A. J. J.
Paul J. J.
John J. J.
Steve Palmer
Steve LeClere

Site Health and Safety Officer: David L. R.

Date: 7/8 1999

LOADED CONNEX INSPECTION SHEET
Connexes Complete

Connex #	Wt ticket	Collected	Wheighed	Description	net Wt.	Loaded	Tare	Gross Wt	Total Wt.
2056766	153	7/30/99	7/31/99	Contaminated Soil	618	7/31/99	7	625	
2056766	154	7/30/99	7/31/99	Contaminated Soil	491	7/31/99	7	498	
2056766	155	7/30/99	7/31/99	Contaminated Soil	813	7/31/99	7	820	
2056766	156	7/30/99	7/31/99	Contaminated Soil	793	7/31/99	7	800	
2056766	157	7/30/99	7/31/99	Contaminated Soil	841	7/31/99	7	848	
2056766	158	7/30/99	7/31/99	Contaminated Soil	867	7/31/99	7	874	
2056766	159	7/30/99	7/31/99	Contaminated Soil	971	7/31/99	7	978	
2056766	160	7/31/99	7/31/99	Contaminated Soil	1020	7/31/99	7	1027	
2056766	161	7/31/99	7/31/99	Contaminated Soil	628	7/31/99	7	633	
2056766	162	7/31/99	7/31/99	Contaminated Soil	953	7/31/99	7	960	
2056766	163	7/31/99	7/31/99	Contaminated Soil	738	7/31/99	7	745	
2056766	164	7/31/99	7/31/99	Contaminated Soil	575	7/31/99	7	582	
2056766	165	7/31/99	7/31/99	Contaminated Soil	811	7/31/99	7	818	
2056766	169	7/31/99	8/1/99	Contaminated Soil	869	8/1/99	7	876	
2056766	170	7/31/99	8/1/99	Contaminated Soil	883	8/1/99	7	890	
2056766	171	7/31/99	8/1/99	Contaminated Soil	823	8/1/99	7	830	
2056766	172	7/31/99	8/1/99	Contaminated Soil	858	8/1/99	7	865	
2056766	173	7/31/99	8/1/99	Contaminated Soil	615	8/1/99	7	622	
2056766	174	7/31/99	8/1/99	Contaminated Soil	745	8/1/99	7	752	
2056766	175	7/31/99	8/1/99	Contaminated Soil	482	8/1/99	7	489	
2056766	176	7/31/99	8/1/99	Contaminated Soil	285	8/1/99	7	292	
2056766	177	7/31/99	8/1/99	Contaminated Soil	234	8/1/99	7	241	
2056766	178	7/31/99	8/1/99	Contaminated Soil	495	8/1/99	7	502	16567
				Connex			5000	5000	5000
				Connex Gross weight					21567

Inspection date, 8/7/99

LOADED CONNEX INSPECTION SHEET
Connexes Complete

Connex #	Wt ticket	Collected	Wheighed	Description	net Wt.	Loaded	Tare	Gross Wt	Total Wt.
100685	182	7/28/99	8/1/99	Drum Pieces	904	8/1/99	0	904	
100685	183	7/28/99	8/1/99	Drum Pieces	791	8/1/99	0	791	
100685	210	8/2/99	8/3/99	Drum parts	964	8/3/99	0	964	
100685	214	8/3/99	8/5/99	Drum Pieces	888	8/5/99	0	888	
100685	217	8/5/99	8/5/99	Drum Pieces	1184	8/5/99	0	1184	
100685	220	8/3/99	8/5/99	Drum parts	1151	8/5/99	0	1151	
100685	221	8/3/99	8/5/99	Drum Pieces	1001	8/5/99	0	1001	
100685	222	8/3/99	8/5/99	Drum parts	1435	8/5/99	0	1435	
100685	223	8/5/99	8/6/99	Drum parts	1226	8/6/99	0	1226	9544
				Connex			5000	5000	5000
				Connex Gross weight					14544
100716	195	7/25/99	8/2/99	Landing Mat	793	8/2/99	0	793	
100716	196	7/26/99	8/2/99	Landing Mat, Weasel Track, Misc	1131	8/2/99	0	1131	
100716	200	8/2/99	8/2/99	Misc Metal	1732	8/2/99	0	1732	
100716	201	8/2/99	8/2/99	Misc Metal	788	8/2/99	0	788	
100716	202	8/1/99	8/3/99	Quonset Hut Debris	1430	8/3/99	0	1430	
100716	203	8/1/99	8/3/99	Quonset Hut Debris	1276	8/3/99	0	1276	
100716	204	8/1/99	8/3/99	Quonset Hut Debris	1392	8/3/99	0	1392	
100716	206	8/2/99	8/3/99	Misc Metal debris	1092	8/3/99	0	1092	
100716	206	8/2/99	8/3/99	Misc Metal	990	8/3/99	0	990	
100716	207	8/2/99	8/3/99	Misc Metal	1050	8/3/99	0	1050	
100716	208	8/2/99	8/3/99	Misc Metal	806	8/3/99	0	806	12460
				Connex			5000	5000	5000
				Connex Gross weight					17460
201124	68	7/17/99	7/22/99	Landing Mat	1662	7/22/99	0	1662	
201124	69	7/17/99	7/22/99	Landing Mat	1448	7/22/99	0	1448	
201124	70	7/17/99	7/22/99	Landing Mat	1649	7/22/99	0	1649	
201124	71	7/17/99	7/22/99	Landing Mat	1769	7/22/99	0	1769	
201124	72	7/17/99	7/22/99	Landing Mat	1356	7/22/99	0	1356	
201124	147	7/20/99	7/31/99	Landing Mat	1209	7/31/99	0	1209	
201124	148	7/20/99	7/31/99	Landing Mat	1253	7/31/99	0	1253	
201124	149	7/20/99	7/31/99	Landing Mat	1063	7/31/99	0	1063	
201124	150	7/20/99	7/31/99	Landing Mat	1056	7/31/99	0	1056	12465
				Connex			5000	5000	5000
				Connex Gross weight					17465

Inspection date, 8/7/99

LOADED CONNEX INSPECTION SHEET
Connexes Complete

Connex #	Wt ticket	Collected	Wheighed	Description	net Wt.	Loaded	Tare	Gross Wt	Total Wt.
201153	111	7/17/99	7/25/99	Landing Mat	834	7/22/99	0	834	
201153	112	7/17/99	7/25/99	Landing Mat	1148	7/22/99	0	1148	
201153	113	7/17/99	7/25/99	Landing Mat	1591	7/22/99	0	1591	
201153	114	7/17/99	7/25/99	Landing Mat	1661	7/22/99	0	1661	
201153	115	7/17/99	7/25/99	Landing Mat	1933	7/22/99	0	1933	
201153	116	7/17/99	7/25/99	Landing Mat	1746	7/22/99	0	1746	
201153	117	7/17/99	7/25/99	Weasel Track	858	7/22/99	0	858	
201153	118	7/17/99	7/25/99	Landing Mat	1149	7/22/99	0	1149	
201153	119	7/17/99	7/25/99	Landing Mat	1251	7/22/99	0	1251	
201153	120	7/17/99	7/25/99	Landing Mat	2031	7/22/99	0	2031	
201153	146	7/20/99	7/31/99	Landing Mat	809	7/31/99	0	809	15011
				Connex			5000	5000	5000
				Connex Gross weight					20011
201216	124	7/25/99	7/25/99	Drum Pieces	1081	7/25/99	0	1081	
201216	125	7/25/99	7/25/99	Drum Pieces	751	7/25/99	0	751	
201216	126	7/25/99	7/25/99	Drum Pieces	982	7/25/99	0	982	
201216	127	7/25/99	7/25/99	Drum Pieces	999	7/25/99	0	999	
201216	128	7/25/99	7/25/99	Drum Pieces	895	7/25/99	0	895	
201216	129	7/25/99	7/25/99	Drum Pieces	565	7/25/99	0	565	
201216	139	7/29/99	7/29/99	Generator	136	7/29/99	0	136	
201216	140	7/28/99	7/29/99	Generators, 1 @ 10 kw generator, 1	1287	7/29/99	0	1287	
201216	141	7/28/99	7/29/99	Engine Block	401	7/29/99	0	401	
201216	181	7/22/99	8/1/99	Drum Pieces	1081	8/1/99	0	1081	
201216	197	7/26/99	8/2/99	Drum Parts	470	8/2/99	0	470	
201216	209	8/2/99	8/3/99	Drum parts	1193	8/3/99	0	1193	
201216	238	8/6/99	8/6/99	Drum Pieces	24	8/6/99	0	24	9865
				Connex			5000	5000	5000
				Connex Gross weight					14865
201278	151	7/20/99	7/31/99	Landing Mat	1278	7/31/99	0	1278	
201278	152	7/20/99	7/31/99	Landing Mat	1166	7/31/99	0	1166	
201278	166	7/20/99	8/1/99	Landing Mat	1881	8/1/99	0	1881	
201278	167	7/20/99	8/1/99	Landing Mat	1730	8/1/99	0	1730	
201278	168	7/20/99	8/1/99	Landing Mat	1670	8/1/99	0	1670	7725
				Connex			5000	5000	5000
				Connex Gross weight					12725

Inspection date, 8/7/99

LOADED CONNEX INSPECTION SHEET
Connexes Complete

Connex #	Wt ticket	Collected	Wheighed	Description	net Wt.	Loaded	Tare	Gross Wt	Total Wt.
201448	131	7/26/99	7/29/99	Misc Metal debris	1679	7/29/99	7	1686	
201448	132	7/26/99	7/29/99	Misc Metal debris	891	7/29/99	7	898	
201448	133	7/26/99	7/29/99	Misc Metal debris	1208	7/29/99	7	1215	
201448	137	7/26/99	7/29/99	Landing Mat	1689	7/29/99	0	1689	
201448	142	7/26/99	7/29/99	Landing Mat	771	7/29/99	0	771	
201448	143	7/26/99	7/29/99	Landing Mat	1130	7/29/99	0	1130	
201448	144	7/20/99	7/29/99	Landing Mat	1401	7/29/99	0	1401	
201448	145	7/20/99	7/31/99	Landing Mat	969	7/31/99	0	969	9759
				Connex			5000	5000	5000
				Connex Gross weight					14759
259232	226	8/6/99	8/6/99	Contaminated Soil	1434	8/6/99	7	1441	
259232	227	8/6/99	8/6/99	Contaminated Soil	1609	8/6/99	7	1616	
259232	228	8/6/99	8/6/99	Contaminated Soil	1431	8/6/99	7	1438	
259232	229	8/6/99	8/6/99	Contaminated Soil	1189	8/6/99	7	1196	
259232	230	8/6/99	8/6/99	Contaminated Soil	1434	8/6/99	7	1441	
259232	231	8/6/99	8/6/99	Contaminated Soil	1538	8/6/99	7	1545	
259232	232	8/6/99	8/6/99	Contaminated Soil	1421	8/6/99	7	1428	
259232	233	8/6/99	8/6/99	Contaminated Soil	1018	8/6/99	7	1025	
259232	234	8/6/99	8/6/99	Contaminated Soil	1386	8/6/99	7	1393	
259232	235	8/6/99	8/6/99	Contaminated Soil	1486	8/6/99	7	1493	
259232	236	8/6/99	8/6/99	Contaminated Soil	1496	8/6/99	7	1503	15519
				Connex			5000	5000	5000
				Connex Gross weight					20519
261068	189	7/25/99	8/2/99	Landing Mat	1229	8/2/99	0	1229	
261068	190	7/25/99	8/2/99	Landing Mat	1244	8/2/99	0	1244	
261068	191	7/25/99	8/2/99	Landing Mat	1755	8/2/99	0	1755	
261068	192	7/25/99	8/2/99	Landing Mat	745	8/2/99	0	745	
261068	193	7/25/99	8/2/99	Landing Mat	1014	8/2/99	0	1014	
261068	194	7/25/99	8/2/99	Landing Mat	1236	8/2/99	0	1236	
261068	198	7/28/99	8/2/99	Quonset Hut Debris	761	8/2/99	0	761	
261068	199	8/1/99	8/2/99	Quonset Hut Debris	794	8/2/99	0	794	8778
				Connex			5000	5000	5000
				Connex Gross weight					13778

Inspection date, 8/7/99

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date
Site 2	1600	0	20	0		24985		
Site 3	770	673	600	1150		0		
Site 4/Area 4A	5410	12348	2140	2424		0		
Site 4/Area 4B	905	0	2230	1764		225	104000	64900
Site4/Area 4D	1000	2948	0	7418		463		
Site 5	315	1131	0	470		0		
Area between site 5 and 3	55		100					
Site 6	350	2992	0	7897		0		
Site 7	150		0					
Site 8	115000	73936	6200	8584		2340		
Site 10	1300	0	2300	10168		540		
Site 12	100	798	2550	7829		7830		
Site 13	300	343	0	0		0		
Totals	127255	95169	16140	47704	40000	36383	104000	64900
Percent of Contract Wt		75%		296%		91%		62%

Environmental Quality Control/Quality Assurance Report

(ER 415-1-002)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title: Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 99-034	Date or Time Period 8/8/99	Location and Team Gambell, Alaska	
Weather Conditions		Contractor	
Temp Low 46	Temp Hi 48	Oil Spill Consultants, Inc.	
Wind Speed calm - 18 Knots	Conditions partly cloudy		

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action.)

Preparatory	<input type="checkbox"/> see attached checklist
Initial	<input type="checkbox"/> see attached checklist
Follow-Up	<input checked="" type="checkbox"/> Debris and HTW removal

CCQ performed final inspection on Sites 2, 3, 6, 7, 12, and 13. One item of debris found and flagged in Site 2. All sites ready for QAR inspection.

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
--------------	---------------	---------------------	---------

NO FIELD TESTING TODAY

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
--------------	------------------------	---------------------

NO SAMPLING TODAY

Have required amount of QC trip blanks and rinsates been achieved?	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.)	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Have QA and QC samples been collected in the specified quantity? Not required by Delivery Order	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Have samples been properly labeled and packaged?	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The Superintendent addressed the need to pay attention to your working environment. Awareness of the conditions and activities in your work site was emphasized as the foundation of "Safety Awareness." Examples of specific hazards in the working environment were discussed. These included heavy equipment operating nearby, slippery conditions while climbing over rocks, and sharp pieces of heavy metal debris.

QAR SAFETY COMMENTS:

WORK ON MOUNTAIN CONTINUES. SHORT VISITS TO SITE 4B SHOWED FEW PROBLEMS. FOG SEEMS TO COVER THIS SITE MOST OF THE TIME. WEIGHING OPERATIONS DONE WELL. SOME SAFETY CONCERNS ADDRESSED ABOUT WEATHER ON BAD DAYS WILL FOLLOW UP ON THIS.

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)

Continuation Sheet

Activities Performed This Date (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Stained Soil Removal (NAS ID 0019, 02050)	1,877 lb of previously-collected stained soil processed today	38,260 lb of Stained soil removed to date project-wide	
HTW Removal (NAS ID 0022, 02050)	No HTW was processed today	47,704 lb of HTW removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	9,531 lb of debris from sites 8, and for was processed today This included the first sections of the Navy sonar cable	95,189 lb of Debris removed to date project-wide	
Contaminated Soil (NAS ID 0018, 02220)	9,655 lbs of contaminated soil was weighed and loaded today Approximately 5,390 lb of soil bagged but not weighed	74,555 of contaminated Soil weighed to date	

Manpower and Equipment					
Labor			Equipment		
Classification	Number	ManHours	Type	Number	Hours Used
Project Manager	0	0	4 wheeler	3	30
QC System Manager	1	12	Cat 428 loader	1	3
Superintendent	1	13	Argo	6	48
Archeologist	1	12	Modwell	1	0
Operator	1	12	Pickup	1	12
Laborers	12	135	Cat 966 Loader	1	10
			Cat 973 Track Loader	1	3
Total Hours:		183		Total Hours: 108	

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks.) Verbal Written

NONE

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No

Are there any Government caused delays or potential finding of fact? Yes No

Are there any unforeseeable or weather related delays? Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

NONE.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications, except as noted above.

Quality Control Manager Signature *Robert C. King* Date 8/16/99

Government Quality Assurance Comments
Concurs with the QC report? Yes No

Additional comments or exceptions:

- NAVY SONAR CABLE COLLECTED. THERE IS 2 MILES OF THIS STUFF. CONVEYERS ARE CHECKED FOR ADEQUACY OF SHIPPING. MANIFESTING. NEEDS BETTER CONTROL OF WEIGHTS. THE APPROX WEIGHTS NEED TO ADD UP TO OUR CONTRACT WEIGHT.
- ALL ISSUES ARE UP TO DATE. SURNAME HAS APPROVED MOD PACKAGE. PAUL SUMMEYER IS WORKING. MOD. 403

QAR Signature *Thomas Keller* Date 8/16/99 Supervisor's Initial _____ Date _____

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 7-8 1999 Time: 7:00 Briefing Location: Lodge

Activities Planned: Soil Excavation/Hauling

Briefer: CHUCK HEATH

Topic: Site Overview to 2nd floor

Topic: _____

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

[Signature]
David Olson
[Signature]
Glenn Moberg
[Signature]
[Signature]
[Redacted]
[Signature]

[Signature]
[Signature]
[Signature]
[Signature]
[Signature]

Site Health and Safety Officer: [Signature]

Date: 8/8 1999

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date
Site 2	1600	0	20	0		24985		
Site 3	770	673	600	1150		0		
Site 4/Area 4A	5410	12348	2140	2424		1877		
Site 4/Area 4B	905	601	2230	1764		225	104000	74555
Site4/Area 4D	1000	6361	0	7418		463		
Site 5	315	2572	0	470		0		
Area between site 5 and 3	55		100					
Site 6	350	2992	0	7897		0		
Site 7	150		0					
Site 8	115000	77791	6200	8584		2340		
Site 10	1300	221	2300	10168		540		
Site 12	100	798	2550	7829		7830		
Site 13	300	343	0	0		0		
Totals	127255	104700	16140	47704	40000	38260	104000	74555
Percent of Contract Wt		82%		296%		96%		72%

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 99-035	Date or Time Period 8/9/99	Location and Team Gambell, Alaska	
Weather Conditions Temp Low 44 Temp Hi 44		Contractor Oil Spill Consultants, Inc.	
Wind Speed 16 - 31	Knots	Conditions partly cloudy	

Quality Control Inspections Performed This Date (include inspections, results, deficiencies observed, and corrective action)

Preparatory see attached checklist
 Initial see attached checklist
 Follow-Up Material weight tracking

The CQC completed an internal audit of weight tickets and the tracking data base. Several duplicate entries and one omitted data entry were found. The data base was corrected, and the audit routine rerun. No errors were then found.

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
NO FIELD TESTING TODAY			

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
NO SAMPLING TODAY		

Have required amount of QC trip blanks and rinsates been achieved? N/A Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) N/A Yes No

Have QA and QC samples been collected in the specified quantity? **Not required by Delivery Order** N/A Yes No

Have samples been properly labeled and packaged? N/A Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The Superintendent addressed/reemphasized the need to adhere to level D PPE. He stressed the importance of not letting wear of hard hats, steel-toed shoes, and safety glasses get lax in the closing days of the project. The Superintendent also cautioned personnel to use care while working on foot on rocky terrain. It was emphasized that slips, trips and falls were one of the most common causes of site injuries industry-wide.

QAR SAFETY COMMENTS:

VEHICLE CONDITION STRESSED FOR WORKER SAFETY. BOLTS ARE GETTING LOOSE AND DIRTY VEHICLES HINDER MAINTENANCE. ALGO'S ARE THE WORSE. ROCK FLIES UP AND HITS YOUR EYES. EYE PROTECTION IS REQUIRED.

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Stained Soil Removal (NAS ID 0019, 02050)	No stained soil was processed today	38,035 lb of Stained soil removed to date project-wide	
HTW Removal (NAS ID 0022, 02050)	No HTW was processed today	48,642 lb of HTW removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	No debris processed today	104,700 lb of Debris removed to date project-wide	
Contaminated Soil (NAS ID 0016, 02220)	9,655 lbs of contaminated soil was weighed and loaded today More soil bagged but, awaiting transportation	81,247 lb of contaminated Soil weighed to date.	

Environmental Quality Control/Quality Assurance Report
(ER 413-1-302)

Continuation Sheet

Manpower and Equipment

Labor Classification	Number	ManHours	Equipment Type	Number	Hours Used
Project Manager	0	0	4 wheeler	3	30
QC System Manager	1	12	Cat 426 loader	1	3
Superintendent	1	13	Argo	6	48
Archaeologist	1	12	Modwell	1	0
Operator	1	12	Pickup	1	12
Laborers	12	135	Cat 966 Loader	1	10
			Cat 973 Track Loader	1	3
Total Hours:		183	Total Hours		106

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks)

Verbal Written

NONE

Work Progress: Are there any Contractor caused delays or potential finding of fact?
 Are there any Government caused delays or potential finding of fact?
 Are there any unforeseeable or weather related delays?

Yes No
 Yes No
 Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

Preliminary results of samples taken earlier in the project were received to for the contractor's anchorage office and provided to the QAR.

A number of mechanical failures in the Argo fleet slowed production on stained soil excavation.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature

[Handwritten Signature]

Date

8/10/99

Government Quality Assurance Comments

Concurs with the QC report?

Yes No

Additional comments or exceptions:

VEHICLE SITUATION GETTING WORSE. LOTS OF GEMBLING. ABOUT MEALS AND FOOD IN GENERAL. WITH ONE WEEK LEFT TENSIONS ARE MOUNTING, VEHICLES BREAKING AND NOT GETTING FIXED.

QAR Signature

[Handwritten Signature]

Date

8/11/99

Supervisor's Initial

Date

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 8/9 1999 Time: 1:30pm Briefing Location: Workshop

Activities Planned: soil Excavation & hauling

Briefer: Chuck Hertz

Topic: Lead D PPE

Topic: Slip / Trips / Falls

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

David Olson
Eric Hertz
Quinn Johnson
Steve Palmer
David Gove
Cliff E. Gotsis
Mark Taylor
Eric Hertz

Site Health and Safety Officer: David Olson

Date: 8/9 1999

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date
Site 2	1600	0	20	0		24985		
Site 3	770	673	600	1150		0		
Site 4/Area 4A	5410	12348	2140	3362		1877		
Site 4/Area 4B	905	601	2230	1764		0	104000	81247
Site4/Area 4D	1000	6361	0	8306		463		
Site 5	315	2572	0	470		0		
Area between site 5 and 3	55		100					
Site 6	350	2992	0	7897		0		
Site 7	150		0					
Site 8	115000	77791	6200	8584		2340		
Site 10	1300	221	2300	9280		540		
Site 12	100	798	2550	7829		7830		
Site 13	300	343	0	0		0		
Totals	127255	104700	16140	48642	40000	38035	104000	81247
Percent of Contract Wt		82%		301%		95%		78%

Environmental Quality Control/Quality Assurance Report

(ER 415-1-102)

Contract Number / Delivery Order Number :
DACAS6-87-O-0010/D.O. 0004

UPC/Project Title:
Debris Removal and Containerized Hazardous and Toxic Waste Removal

CQC Report Number
89-03/ 30

Date or Time Period
8/10/89

Location and Team
Gambell, Alaska

Weather Conditions

Temp Low 44 Temp Hi 44

Wind Speed Calm - 16 Knots

Conditions partly cloudy, intermittent rain

Contractor

Oil Spill Consultants, Inc.

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action)

Preparatory see attached checklist

Initial see attached checklist

Follow-Up

Material weight tracking

The CQC and the Regulatory Specialist completed an internal audit of and connex loading weights and the material tracking data base. Several connex tare entry errors were found. These were corrected.

Was the deficiency tracking list updated this date

Yes No

Field Sampling and Testing

Has field testing been performed this date?

Yes No

Type of test

Method/Matrix

Quantity of samples

Results

NO FIELD TESTING TODAY

Have Data Quality Objectives been achieved? N/A

Yes No

Have Samples Been Collected for Laboratory Analysis?

Yes No

Type of Test

EPA Test Method/Matrix

Quantity of Samples

NO SAMPLING TODAY

Have required amount of QC trip blanks and rinsates been achieved?

N/A Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.)

N/A Yes No

Have QA and QC samples been collected in the specified quantity? Not required by Delivery Order

N/A Yes No

Have samples been properly labeled and packaged?

N/A Yes No

Health and Safety

Worker protection levels this date:

Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space?

Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health?

Yes No

Were approved decontamination procedures used on workers and equipment as required?

Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

Lon Putnam, the Physician's Assistant assigned to the village of Gambell, addressed the safety meeting as a guest speaker. He stressed the high frequencies with which accidents occur during the closing phases of a project. Fatigue, haste, and inattentiveness were cited as conditions that often exhibit themselves during the final activities on remote-site projects. Personnel were encouraged to maintain their safety awareness, and attention to their working environment all the way through to the end of the project.

QAR SAFETY COMMENTS:

CROW FEEDING HAS BEEN A CONCERN. TENSIONS ROSE SUDDENLY AT DINNER (CHILI & RICE). 4 PERSONS INVOLVED IN THREATS AND SHOUTING. 2 WERE SUIT & QC. CREW SUIT LATER THAT EVENING INFORMED ME THAT CREW DISATISFACTION WAS TO THE POINT OF STOP WORK. VOTE WAS NEAR UNANIMOUS. CALLED JOHN SHUMAN AT 10PM, HAD HIM TALK WITH SUPT ABOUT PROBLEMS. NOTHING RESULTED.

Work Activities Performed This Date

Reference (NAS ID #/Tech Spec #)

Activity & Location

Quantity

Contractor

Stained Soil Removal (NAS ID 0019, 02050) No stained soil was processed today

38,035 lb of Stained soil removed to date project-wide

HTW Removal (NAS ID 0022, 02060) No HTW was processed today

48,842 lb of HTW removed to date project-wide

Debris Removal (NAS ID 0020, 02050) No debris processed today

104,700 lb of Debris removed to date project-wide

Contaminated Soil (NAS ID 0018, 02220) Previously filled sand bags were transported to the weighing Location. No soil was dug or weighed today

82,258 lb of contaminated Soil weighed to date.

Equipment maintenance and improving the orderliness of the work area was emphasized today. Preparations for demobilization also started today. Movement of connexes from the staging area in the south to the barge loading area in the north. 10 Connexes were moved today.

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Continuation Sheet

Manpower and Equipment

Labor			Equipment		
Classification	Number	ManHours	Type	Number	Hours Used
Project Manager	0	0	4 wheeler	4	30
CQC System Manager	1	8	Cat 428 loader	1	2
Superintendent	1	8	Argo	6	24
Archaeologist	1	8	Modwell	1	0
Operator	1	13	Pickup	1	8
Laborers	12	124	Cat 988 Loader	1	12
			Cat 973 Track Loader	1	10
Total Hours:		162	Total Hours:		86

Instructions Given by the Government to the Contractor (include names, reactions, and remarks.)

Verbal Written

NONE

Work Progress Are there any Contractor caused delays or potential finding of fact?
 Are there any Government caused delays or potential finding of fact?
 Are there any unforeseeable or weather related delays?

Yes No
 Yes No
 Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)

A representative of the Alaska DOT called and requested that connexes be kept out of the north approach zone of the runway. All connexes were moved within 4 hours.

The QAR and the CQC presented a briefing to the local native corporation board of elders. The progress of the project to date and the projected schedule were covered. An question and answer session followed.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature

[Handwritten Signature]

Date

8/11/99

Government Quality Assurance Comments
 Concur with the QC report?
 Additional comments or exceptions:

Yes No

COORDINATION OF WORK AFFECTED BY CREW TENSIONS. SUPT AND QC NOT COMMUNICATING WELL. GENERAL DISATISFACTION WITH FOOD, VEHICLE AVAILABILITY, INSPECTIONS AND GENERAL MANAGEMENT OF WORK. SUPT IS PHILLIPS EMPLOYEE. NOT ENOUGH COORDINATION WITH MANAGEMENT. BIG MISTAKES ARE LIKELY UNDER THESE CONDITIONS. WORKING 7-12 HR SHIFTS CONSIDERED A LARGE CONTRIBUTING FACTOR. SUPT REFUSES TO STAND DOWN TO 6-10'S SHIRT. 2 MASTERS ~~ARE~~ SRAU TRUBLE. WILL RESOLVE THIS WITH MR LAYSON TOMMORROW. JAKE & ROY NOT AVAILBLE.

QAR Signature

[Handwritten Signature]

Date

8/12/99

Supervisor's Initial

Date

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 8/10 1999 Time: 0700 Briefing Location: hodge

Activities Planned: _____

Briefer: Lon Putnam Topic: _____

Topic: _____

Topic: _____

Briefer: _____ Topic: _____

Topic: _____

Topic: _____

Attendees

Carol L. R.
[Redacted]
[Signature]

Site Health and Safety Officer: _____

Date: _____ 1999

Environmental Quality Control/Quality Assurance Report

(ER 415-1-10C)

Contract Number / Delivery Order Number :
DACA85-97-D-0010/D.O. 0004

UPC/Project Title:
Debris Removal and Containerized Hazardous and Toxic Waste Removal

CQC Report Number
98-037

Date or Time Period
8/11/99

Location and Team
Gambell, Alaska

Weather Conditions

Temp Low **44** Temp Hi **48**

Wind Speed **Calm - 16** **Knots**

Conditions **partly cloudy**

Contractor

Off Spill Consultants, Inc.

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action.)

Preparatory see attached checklist

Initial see attached checklist

Follow-Up

Material handling

A final inspection of multiple sites was conducted in the evening by the QAR, contractor's Project Manager, and the CQC. The results are as follows:

Sites 2, 6, 7, 12, and 13 - Completed Satisfactorily

Site 3 - Complete debris removal at higher elevations but only where terrain will allow work to be done safely.

Was the deficiency tracking list updated this date

Yes No

Field Sampling and Testing

Has field testing been performed this date?

Yes No

Type of test

Method/Matrix

Quantity of samples

Results

NO FIELD TESTING TODAY

Have Data Quality Objectives been achieved? **N/A**

Yes No

Have Samples Been Collected for Laboratory Analysis?

Yes No

Type of Test

EPA Test Method/Matrix

Quantity of Samples

NO SAMPLING TODAY

Have required amount of QC trip blanks and rinsates been achieved?

N/A Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.)

N/A Yes No

Have QA and QC samples been collected in the specified quantity? **Not required by Delivery Order**

N/A Yes No

Have samples been properly labeled and packaged?

N/A Yes No

Health and Safety

Worker protection levels this date:

Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space?

Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health?

Yes No

Were approved decontamination procedures used on workers and equipment as required?

Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

At the safety meeting, the Superintendent focused on hazards associated with the ongoing operation to move connexes from the south staging area to the barge loading area in the north. Operations were planned to avoid routes heavily traveled by the equipment from another contractor in the area. The need to practice caution with respect to the ATV traffic from the village was heavily stressed. Work was scheduled to have operators move connexes in evening hours when local traffic is light. Special attention was given to total operating hours and crew rest for the operators working the evening shift.

Later in the day the Site Health and Safety Officer observed the connex moving operation. Operators were using care and interference with local traffic appeared minimal.

QAR SAFETY COMMENTS:

LOCAL HW WORKERS ASSIGNED TO UPPER ELEVATION DEBRIS SW AT AREA 3. PREVIOUS INSPECTION SHOWED LARGE AMT OF DEBRIS. SAFETY AT STEEPER SLOPES QUESTIONABLE. WE WILL NOT SWEEP IN AREAS WHERE WORKERS CANNOT STAND AND KEEP BALANCE, NO HI CLIMBING ALLOWED.

SHORT TERM EXTEND FOR OPERATOR HOURS. THIS IS A ONETIME EVENT. CREW REST IS ADJUSTED TO COMPENSATE (SLEEP IN)

Environmental Quality Control/Quality Assurance Report

(ER 415-1-3002)

Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Stained Soil Removal (NAS ID 0019, 02050)	No stained soil was processed today	38,035 lb of Stained soil removed to date project-wide	
HTW Removal (NAS ID 0022, 02050)	605 lb of HTW was processed today	49,245 lb of HTW removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	The last debris from Site 4B was moved today No debris was moved.	104,700 lb of Debris removed to date project-wide	
Contaminated Soil (NAS ID 0016, 02220)	8,834 lb of contaminated soil was weighed and loaded today Additional sand bags are waiting to be weighed Excavation estimated to be complete.	90,829 lb of contaminated Soil weighed to date	

Manpower and Equipment			Equipment		
Labor Classification	Number	ManHours	Type	Number	Hours Used
Project Manager	0	6	4 wheeler	4	48
QC System Manager	1	14	Cat 426 loader	1	2
Superintendent	1	13	Argo	8	40
Archeologist	1	12	Nodwell	1	0
Operator	1	13	Pickup	1	12
Laborers	12	136	Cat 966 Loader	1	10
			Cat 973 Track Loader	1	10
Total Hours:		193	Total Hours:		122

Instructions Given by the Government to the Contractor (include names, reactions, and remarks.) Verbal Written

NONE

Work Progress Are there any Contractor caused delays or potential finding of fact? Yes No

Are there any Government caused delays or potential finding of fact? Yes No

Are there any unforeseeable or weather related delays? Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)

The contractor's Project Manager, Mr. Randy E. Easley arrived on site today

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *Shirley L. King* Date 9/12/99

Government Quality Assurance Comments
 Concurs with the QC report? Yes No

Additional comments or exceptions:
 SITES 2,4,7,12,13 COMPLETED. DEFICIENCIES RECORDED FOR B. PUNCH LIST. PREPARING FOR BULK FINAL INSPECTION OF ALL AREAS. WAITING FOR REPAIRED BWD W/TRACT FOR MT WORK.

QA Signatures *Steve Tocher* Date 9/12/99 Supervisor's Initial _____ Date _____

0057
92-036

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 8/11/99 1999 Time: 0700 Briefing Location: lodge

Activities Planned: Soil Excavation, Debris Removal

Briefer: C Hawth

Topic: Operator Hours

Topic: _____

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

David Olson
He Palm
Chuck Noble
And Gud
Pat Ting
Louis Alon
D. Hayes
Tim Hester

M. J. [Redacted]
[Redacted]
[Redacted]
[Redacted]
Gene O'Connell
Jerry White
[Redacted]
Steve Keller

Site Health and Safety Officer: [Signature]

Date: 8/11/99 1999

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date
Site 2	1600	0	20	0		24985		
Site 3	770	673	600	1150		0		
Site 4/Area 4A	5410	12348	2140	3382		1877		
Site 4/Area 4B	905	601	2230	1764		0	104000	90892
Site 4/Area 4D	1000	6361	0	8306		463		
Site 5	315	2572	0	470		0		
Area between site 5 and 3	55		100					
Site 6	350	2992	0	7897		0		
Site 7	150		0					
Site 8	115000	77791	6200	8864		2340		
Site 10	1300	221	2300	9280		540		
Site 12	100	798	2550	8154		7830		
Site 13	300	343	0	0		0		
Totals	127255	104700	16140	49247	40000	38035	104000	90892
Percent of Contract Wt		82%		305%		95%		87%

Environmental Quality Control/Quality Assurance Report

(ER 415-L-302)

Contract Number / Delivery Order Number DACA85-87-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 99-038	Date or Time Period 8/12/99	Location and Team Gambell, Alaska	
Weather Conditions Temp Low 41 Temp Hi 44 Wind Speed 8-18 Knots Conditions fg		Contractor Oil Spill Consultants, Inc.	

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action.)

Preparatory see attached checklist
 Initial see attached checklist
 Follow-Up Debris Removal Stockpiling of debris removed Sites 8, 3, and 5 Work going well, no deficiencies

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing
 Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
NO FIELD TESTING TODAY			

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
NO SAMPLING TODAY		

Have required amount of QC trip blanks and rinsates been achieved? **N/A** Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) **N/A** Yes No

Have QA and QC samples been collected in the specified quantity? **Not required by Delivery Order** Yes No

Have samples been properly labeled and packaged? **N/A** Yes No

Health and Safety
 Worker protection levels this date: Level A Level B Level C Level D **N/A**

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

At the safety, the Superintendent again addressed the hazards associated with the ongoing operation to move connexes from the south staging area to the barge loading area in the north. Routes were planned to avoid interference with local traffic and avoid the construction area for an ongoing airfield paving project. Special attention was given to operator working hours and crew rest to insure that personnel were rested and alert while operating equipment.

Later in the day the Site Health and Safety Officer observed the connex moving operation. Work was being conducted safely and without interference with local traffic.

OSAR SAFETY COMMENTS:

AFTER REST PERIOD. OPERATOR AGAIN ALLOWED TO OPERATE AFTER HOURS. DUMP TRUCKS ARE SHARING LOAD WITH OUR CONNEXES. THIS UNSAFE SITUATION IS RELIEVED BY AFTER HOURS MOVING OF CONNEXES 2 MILES TO NORTH BEACH

Environmental Quality Control/Quality Assurance Report
(ER 415-1-3002)

Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Stained Soil Removal (NAS ID 0019, 02050)	2,450 lb of stained soil was processed today from drum cleaning and processing throughout the project.	40,085 lb of Stained soil removed to date project-wide	
HTW Removal (NAS ID 0022, 02050)	HTW removal from archeological site north of the runway in site 8, The mountain side, Site 3, and Site 5, the cable burial area up the mountain side was completed today. This HTW has yet to be weighed.	49,247 lb of HTW removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	Debris removal from archeological site north of the runway in site 8, The mountain side, Site 3, and Site 5, the cable burial area up the mountain side was completed today. The Navy cable in site 10 was picked up today. 537 lb of debris processed. More yet to be weighed.	105,237 lb of Debris removed to date project-wide	
Contaminated Soil (NAS ID 0016, 02220)	2,450 lb previously excavated contaminated soil was weighed and loaded today completing this item.	103,969 lb of contaminated Soil weighed to date. This item complete.	

Manpower and Equipment

Labor Classification	Number	ManHours	Equipment Type	Number	Hours Used
Project Manager	1	12	4 wheeler	4	48
QC System Manager	1	12	Cat 426 loader	1	0
Superintendent	1	13	Argo	6	44
Archeologist	1	12	Novwell	1	5
Operator	1	12	Pickup	1	12
Laborers	12	138	Cat 966 Loader	1	8
			Cat 973 Track Loader	1	0
Total Hours:		199	Total Hours:		117

Instructions Given by the Government to the Contractor (include names, reactions, and remarks.) Verbal Written

The QAR approved an alternate seed mix for tundra planting. Memo is attached

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)

Weather cancelled the scheduled arrival of the Resident Engineer from the Fairbanks Resident Office, USACE.

The Project Archeologist monitored debris removal from archaeological site XSL-005, annexed to Area 8., Monitored Navy sub-detection wire removal from archaeological site XSL-002, in Area 5, Navy sub-detection wire removal from hillside adjacent to archaeological site XSL-001, in Area 5, and Monitored debris removal from among grave boxes in Area 3.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *Amel LPR* Date 8/13/99

Government Quality Assurance Comments
 Concur with the QC report? Yes No
 Additional comments or exceptions:

FOG AND WIND LIMITS VISIBILITY. KEV LIESON'S TRIP DELAYED. LIMITED INSPECTION TODAY. AREAS ARE NOT YET READY TO INSPECT.

QAR Signature *Steven Tellure* Date 8/14/99 Supervisor's Initial _____ Date _____

8-12-99

Grass for Tundra Revegetation

Corps asked for: seed mixture

containing: 10% Rye

40% Red Fescue

50% Bering Hairgrass

Talked to Steve Rooke

@ Alaska Mill & Feed

said they do not have enough

Bering Hairgrass - Recommended

Tufted as a substitute

Recommended 20-20-10 Fertilizer

at 400 lb per acre.

Seven Acres

ARR accepted the amount of Fertilizer

Fertilizer.

Silt Fence across areas starting to erode.

Check with Dave on invoice for city

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date
Site 2	1600	0	20	0		24985		
Site 3	770	1210	600	1150		0		
Site 4/Area 4A	5410	12348	2140	3362		1877		
Site 4/Area 4B	905	601	2230	1764		0	104000	103969
Site 4/Area 4D	1000	6381	0	8306		463		
Site 5	315	2572	0	470		0		
Area between site 5 and 3	55		100					
Site 6	350	2992	0	7897		0		
Site 7	150		0					
Site 8	115000	77791	6200	8864		4790		
Site 10	1300	221	2300	9280		540		
Site 12	100	798	2550	8154		7830		
Site 13	300	343	0	0		0		
Totals	142,000 127265	105237	43,000 16148	49247	40000	40485	104000	103969
Percent of Contract Wt		83%		305%		101%		100%

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 10/12 1999 Time: 0700 Briefing Location: Rodge

Activities Planned: Debris Removal

Briefer: Chuck Heath

Topic: Moving Containers to local Traffic

Topic: _____

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

[Signature]
[Signature]
[Signature]
[Signature]
[Signature]
[Signature]
[Signature]
[Signature]
[Signature]

[Signature]
[Signature]
Chuck Mobley
[Signature]
[Signature]
[Signature]
[Signature]

Site Health and Safety Officer: [Signature]

Date: 10/12 1999

Environmental Quality Control/Quality Assurance Report

(ER 415-1-X02)

Contract Number / Delivery Order Number
DACA85-97-D-0010/D.O. 0004

UPC/Project Title
Debris Removal and Containerized Hazardous and Toxic Waste Removal

CQC Report Number
99-039

Date or Time Period
8/13/99

Location and Team
Gambell, Alaska

Weather Conditions
 Temp Low **44** Temp Hi **46**
 Wind Speed **8 - 15** Knots

Conditions fog a.m., sunny p.m.

Contractor
Oil Spill Consultants, Inc.

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action.)

Preparatory see attached checklist
 Initial see attached checklist
 Follow-Up Debris Removal Demolition of Navy Shack, Site 10 Work going well, no deficiencies

Final inspections: A final inspection of multiple sites was conducted by the CQC and the QAR. The following were the results:

- Site 3 - The deficiencies identified by the previous final inspection were corrected satisfactorily by Daniel Apassingok, Robert Tungiyang, and Gordon Oozovasek. The site was accepted by the QAR.
- Site 4a - The site was accepted by the QAR without deficiencies.
- Site 4b - The site was accepted by QAR contingent upon completion of the attached punchlist.
- Site 4d - The site was accepted by QAR contingent upon completion of the attached punchlist.
- Site 5 - The site was accepted by the QAR without deficiencies.
- Site 8 - The site was accepted by QAR contingent upon completion of the attached punchlist.

Was the deficiency tracking list updated this date? Yes No

Field Sampling and Testing
 Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
NO FIELD TESTING TODAY			

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
NO SAMPLING TODAY		

Have required amount of QC trip blanks and rinsates been achieved? **N/A** Yes No
 Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) **N/A** Yes No
 Have QA and QC samples been collected in the specified quantity? **Not required by Delivery Order** Yes No
 Have samples been properly labeled and packaged? **N/A** Yes No

Health and Safety
 Worker protection levels this date: Level A Level B Level C Level D **N/A**
 Was any work activity conducted within a confined space? Yes No
 Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No
 Were approved decontamination procedures used on workers and equipment as required? Yes No
 Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The Superintendent stressed the importance of radio communication and strict adherence to the buddy system for crews working in remote sections of the tundra. Planned work include collecting Navy signal cable from remote areas of the tundra. Crews working in pairs must insure that the buddy system would always been in effect and that effective radio communication was always maintained.

QAR SAFETY COMMENTS:

our small crew working. No safety problems.

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)

Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Stained Soil Removal (NAS ID 0019, 02050)	No stained soil was collected or processed.	40,085 lb of Stained soil removed to date project-wide	
HTW Removal (NAS ID 0022, 02050)	No HTW was collected or processed	49,247 lb of HTW removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	Debris removal activities included demolition of the Navy Cable shack and removal of the Navy signal wire form site 10	105,237 lb of Debris removed to date project-wide	
Contaminated Soil (NAS ID 0016, 02220)	Removal of support facilities at the excavation site started	103,989 lb of contaminated Soil weighed to date This item complete	

Manpower and Equipment

Labor			Equipment		
Classification	Number	ManHours	Type	Number	Hours Used
Project Manager	1	12	4 wheeler	4	48
CQC System Manager	1	13	Cat 426 loader	1	0
Superintendent	1	13	Argo	6	40
Archeologist	1	12	Nodwell	1	6
Operator	1	12	Pickup	1	0
Laborers	8	86	Cat 966 Loader	1	8
			Cat 973 Track Loader	1	0
Total Hours:		148	Total Hours		102

Instructions Given by the Government to the Contractor (include names, reactions, and remarks.) Verbal Written

NONE

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)

The scheduled visit by the Resident Engineer from the Fairbanks Resident Office, USACE was cancelled.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *[Signature]* Date 8/13/99

Government Quality Assurance Comments

Concurs with the QC report? Yes No

Additional comments or exceptions:

FINAL PUNCH LIST IS BEING PREPARED ON THIS DAILY AS DEMOB ACTIVITIES AND SAMPLING UNDER WAY. MODS 40: BEING PERFORMED. PREPARING FOR TUNNARDS. ROLF HAS DIRECTED ME TO RETURN IF ALL WORK DONE. I MUST RETN FOR MANIFESTING & SHAPING OF DEBAS.

QAR Signature *[Signature]* Date 8/13/99 Supervisor's Initial _____ Date _____

Continuation Sheet

PUNCH LIST

SITE INSPECTION 8/13/99

Perform By: Steve LeClerc (QAR), Dave Rein (CQC)

Site 4A: - Complete demobilization of Weatherport Shelter and contents.

Site 4B: - Remove metal bar and metal angles on timber at northwest edge of excavation.
- Remove plywood and sandbags from trail.

Site 4D: - Remove sheet metal and wire leaning on rocks.
- Sweep the area to insure no debris remains.

Site 8: - Remove matting sections from grassy area north of runway.
- Sweep grassy from runway north to Site 1 to insure no debris remains.

Quality Control Manager Signature



Date

8/13/99

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 8/13 1999 Time: 0700 Briefing Location: Lodge

Activities Planned: Debris, Removal, Navy house demolition

Briefer: CHUCK HEATH

Topic: Communication (Radios)

Topic: Navigation In the Fog

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

Art Tuzin
Dave Dean
Steve Walker
Paul E. Cook
Donnie R. Thomas
Gene W. ...
Chuck Mobley
Ann ...

[Signature]
[Signature]
[Signature]
[Signature]

Site Health and Safety Officer: Ann ...

Date: 8/14 1999

WEIGHT PROJECTIONS

Sites	Debris			HTW			Stained soil			Contaminated Soil		
	Projected Weight	Actual Weight to Date	% to Date	Projected Weight	Actual Weight to Date	% to Date	Projected Weight	Actual Weight to Date	% to Date	Projected Weight	Actual Weight to Date	% to Date
Site 2	0	0		20	0	0%	24985	24985	100%			
Site 3	159	1210	761%	1150	1150	100%	0	0				
Site 4/Area 4A	10260	12348	120%	2578	3362	130%	0	1877				
Site 4/Area 4B	300	601	200%	1838	1764	96%	526	0	0%	104000	103969	100%
Site 4/Area 4D	2500	6361	254%	700	8306	1187%	0	463				
Site 5	1131	2572	227%	470	470	100%	0	0				
Area between site 5 and 3	300	0	0%	300	0	0%	0	0				
Site 6	2992	2992	100%	7897	7897	100%	0	0				
Site 7	0			0	0		0	0				
Site 8	74963	77791	104%	9994	8864	89%	1814	4790	264%			
Site 10	1300	221	17%	14321	9280	65%	940	540	57%			
Site 12	798	798	100%	7829	8154	104%	7830	7830	100%			
Site 13	343	343	100%	0	0		0	0				
Totals	142000	105237	74%	48000	49247	103%	40000	40485	101%	104000	103969	100%

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Contract Number / Delivery Order Number:
DACA85-97-D-0010/D.O. 0004

UPC/Project Title:
Debris Removal and Containerized Hazardous and Toxic Waste Removal

CQC Report Number
99-040

Date or Time Period
8/14/99

Location and Team
Gambell, Alaska

Weather Conditions

Temp Low **44** Temp Hi **46**

Wind Speed **9-18** Knots

Conditions fog a.m., sunny p.m.

Contractor

Oil Spill Consultants, Inc.

Quality Control Inspections Performed This Date (include inspections, results, deficiencies observed, and corrective action.)

Preparatory see attached checklist
 Initial see attached checklist
 Follow-Up Field Sampling

The CQC directly observed all steps involved with collection of field samples at sites 4A, 4B, 8, 12, and 6.

Was the deficiency tracking list updated this date? Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
--------------	---------------	---------------------	---------

SEE ATTACHED FIELD NOTES

Have Data Quality Objectives been achieved? N/A Yes No

Have Samples Been Collected for Laboratory Analysis?

Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
--------------	------------------------	---------------------

SEE ATTACHED CHAIN OF CUSTODY

Have required amount of QC trip blanks and rinsates been achieved?	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.)	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Have QA and QC samples been collected in the specified quantity?	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Have samples been properly labeled and packaged?	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The Superintendent stressed the importance general safety awareness during the final days of the project. Key to this was avoiding haste and maintaining a high level of attentiveness to work. It was stressed that the majority of accidents often happen in the closing day of a project. Personnel were urged to maintain the high level of attention to safety that they had demonstrated to date.

QAR SAFETY COMMENTS:

CONFIRMATION SAMPLES TAKEN TODAY BY MC. EASLEY, OS)
 COMPLETING SAMPLE EVENT FOR THE PROJECT. CUSTODY FORMS
 ENCLOSED. ONLY SMALL CLEANUP CREW TODAY. SAFETY AWARENESS
 DUE TO LONG HOURS MAINTAINED

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Continuation Sheet

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Stained Soil Removal (NAS ID 0019, 02050)	No stained soil was collected or processed.	40,065 lb of Stained soil removed to date project-wide	
HTW Removal (NAS ID 0022, 02050)	No HTW was collected or processed	49,247 lb of HTW removed to date project-wide	
Debris Removal (NAS ID 0020, 02050)	Debris removal activities included final cleanup of Site 5, and Site 10. Collected debris remains to be weighed	105,237 lb of Debris removed to date project-wide	
Contaminated Soil (NAS ID 0016, 02220)	Removal of support facilities at the excavation site was completed.	103,969 lb of contaminated Soil weighed to date	

Manpower and Equipment			Equipment		
Labor Classification	Number	ManHours	Type	Number	Hours Used
Project Manager	1	13	4 wheeler	4	48
CQC System Manager	1	13	Cat 426 loader	1	0
Superintendent	1	13	Argo	6	48
Archeologist	1	12	Noodwell	1	5
Operator	1	12	Pickup	1	0
Laborers	67	87	Cat 966 Loader	1	10
			Cat 973 Track Loader	1	1
Total Hours:		150	Total Hours:		102

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks.) Verbal Written

NONE

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No
 Are there any Government caused delays or potential finding of fact? Yes No
 Are there any unforeseeable or weather related delays? Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature David L. Lee Date 8/15/99

Government Quality Assurance Comments
 Concur with the QC report? Yes No
 Additional comments or exceptions:
 OAK WILL DEPART FOR TURN-AROUND SUNDAY 8/15/99 4:15 PM.
 WILL RETURN AS NEEDED OR UNTIL MANIFESTING IN 3 WEEKS.
 THIS IS A TRAVEL DAY FOR OAK. NO INSPECTIONS.

QAR Signature Steven Keller Date 8/15/99 Supervisor's Initial _____ Date _____

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 8/14 1999 Time: 0300 Briefing Location: Lodge

Activities Planned: Debris Removal

Briefer: CHUCK HEATH Topic: Safety Awareness

Topic: _____

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

Art Tye
Dave Olson
Steve
Paul & Carl
Boie R. Thomas
Jim
Chuck Mobley
David L. Per

Stratton

Site Health and Safety Officer: David L. Per

Date: 8/14 1999

MEMORANDUM OF INSPECTION

DEBRIS REMOVAL AND HAZARDOUS AND TOXIC WASTE REMOVAL
GAMBELL, ALASKA
DACA85-97-D-0010, TASK ORDER, 0004

Date: 8/13/99

Attendees: Steven LeClerc, USACE, Quality Assurance Representative
David L. Rein, Oil spill Consultants, Inc., Contractor Quality Control System Manager

The sites below area accepted by the government as complete and final pending certification of completion of the items listed below.

Site 2: No Deficiencies:

Site 3: No Deficiencies

Site 4A: - Demobilize Weatherport shelter and Contents *complete*

Site 4B: - Remove metal angles on wood columns and metal channel by excavation. *complete*
- Remove plywood and sandbags in trail

Site 4D: - Remove 5 sheets of sheet metal *complete*
- Sweep area to locate any remaining debris

Site 5: No Deficiencies

Site 6: No Deficiencies

Site 7: No Deficiencies

Site 8: - Sweep grassy area around north end of runway, past Archeological site for remaining metal debris

Site 10: - Remove plywood in trail near quarry road *done*
- Remove landing mat near south end of Army Trail *done*
- Fertilize and seed Army trail, erect sediment fence in areas of possible erosion

Site 12: No Deficiencies

Site 13: No Deficiencies

Certified *fl*
Steven LeClerc 8/15/99
Steven LeClerc

David L. Rein
David L. Rein

8-14-99 Confirmation Samples collected under case 403 and 404

No.	Identification	Site	Date	Time	Description
20	99-GAM-020-SL	S4-A ⁹ B	8-14-99	4:30	Bottom Near South wall of Excavation
21	99-GAM-021-SL	S4-A ⁹ B	8-14-99	4:30	" " " " "
22	99-GAM-022-SL	S4-A ⁹ B	8-14-99	4:30	" " " " "
23	99-GAM-023-SL	S4-A ⁹ B	8-14-99	4:45	Bottom at Middle rock in Excavation
24	99-GAM-024-SL	S4-A ⁹ B	8-14-99	5:00	Near North Wall - Soil looks Clean
25	99-GAM-025-SL	S4-A ⁹ B	8-14-99	5:30	Right hand side of "24" between rocks
26	99-GAM-026-SL	Site 6	8-14-99	6:47	Drum Dump Near School

8-14-99 Confirmation Samples Collected under Case 403 and 404

No.	Identification	Site	Date	Time	Description
9	99-GAM-009-SL	12	8-14-99	12:10	Excavated area - Former Battery site
10	99-GAM-010-SL	12	8-14-99	12:20	" " - Drum Dump 6" above under Table
11	99-GAM-011-SL	12	8-14-99	12:30	" " - Drum Dump " "
12	99-GAM-012-SL	8	8-14-99	11:29	Former tar drum site
13	99-GAM-013-SL	8	8-14-99	11:40	Weighing Station
14	99-GAM-014-SL "P"	4	8-14-99	2:40	Soil stain on North side of North Q-Hut
15	99-GAM-015-SL "QC"	4	8-14-99	2:40	" " " " " "
16	99-GAM-016-SL "QA"	4	8-14-99	2:40	" " " " " "
17	99-GAM-017-SL	4	8-14-99	3:15	Soil stain between Q-Hut
18	99-GAM-018-SL	4	8-14-99	3:30	Soil stain in front of South Q-Hut "East" side
19	99-GAM-019-SL	4	8-14-99	3:45	Soil stain near corner of South Q-Hut

Chain of Custody

Project: Debris Removal & Containerized Hazardous & Toxic Waste Removal
 Gambell, Alaska **Contract No:** DACA85-97-D-0010, Delivery Order #4

Authorization Number: OSCI Purchase Order No. 913

Client:
 Oil Spill Consultants, Inc.
 The Environmental Cleanup Company
 209 E. 51st. Avenue, Anchorage, Alaska 99503
 Tel: (907) 562-7169 Fax: (907) 562-7225

Samplers: Randy E. Easley

(Signature) *Randy E. Easley*

Witness: *David L. R. LIA*

(Signature) *David L. R. LIA*

Analysis Required by: _____

Analysis Required

Field Screen	Sample Number	Sample Date	Time	PID Reading	Type	# of Cont.	Analysis Required								QA / QC Required
							AK 101 EPA 8260	AK 102 AK 103	EPA 8270	EPA 8081	EPA 8082	TCLP Metals	Dioxin EPA 8290		
	99-GAM-016-SL	8-14-99	2:40		Grab	2	✓	✓	✓	✓	✓	✓			III
	99-GAM-022-SL	8-14-99	4:30		Grab	3	✓	✓	✓	✓	✓	✓			III

Relinquished by: (Printed) (Signature)	Date / Time	Received by: (Printed) (Signature)
Relinquished by: (Printed) (Signature)		Received by: (Printed) (Signature)
Dispatched by: (Printed) (Signature)		Received at Laboratory by:
Method of Shipment:		Condition of Containers
Comments:		Received Temp:
		Good Fair Poor

Chain of Custody

Project: Debris Removal & Containerized Hazardous & Toxic Waste Removal
 Gambell, Alaska **Contract No:** DACA85-97-D-0010, Delivery Order #4

Authorization Number: OSCI Purchase Order No. 913

Client:
 Oil Spill Consultants, Inc.
 The Environmental Cleanup Company
 209 E. 51st. Avenue, Anchorage, Alaska 99503
 Tel: (907) 562-7169 Fax: (907) 562-7225

Samplers: Randy E. Easley

(Signature) *Randy E. Easley*

Witness: David L. Rein

(Signature) *David L. Rein*

Analysis Required by: _____

Analysis Required

Field Screen	Sample Number	Sample Date	Time	PID Reading	Type	# of Cont.	Analysis Required								QA/QC Required
							AK101 EPA 8260	AK102 AK103	EPA 8270	EPA 8081	EPA 8082	TCLP Metals	Dioxin EPA 8290		
	99-GAM-020-SL	8-14-99	4:30		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	III
	99-GAM-021-SL	8-14-99	4:30		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	III
	99-GAM-023-SL	8-14-99	4:45		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	III
	99-GAM-024-SL	8-14-99	5:00		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	III
	99-GAM-025-SL	8-14-99	5:30		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	III
	99-GAM-026-SL	8-14-99	6:47		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	III

Relinquished by: (Printed) _____ Date / Time _____
 (Signature) _____

Received by: (Printed) _____
 (Signature) _____

Relinquished by: (Printed) _____
 (Signature) _____

Received by: (Printed) _____
 (Signature) _____

Dispatched by: (Printed) _____
 (Signature) _____

Received at Laboratory by: _____

Method of Shipment: _____
 Comments: _____

Condition of Containers

Received Temp: _____

Good Fair Poor

Chain of Custody

Project: Debris Removal & Containerized Hazardous & Toxic Waste Removal Gambell, Alaska Contract No: DACA85-97-D-0010, Delivery Order #4	Authorization Number: OSCI Purchase Order No. 913
Client: Oil Spill Consultants, Inc. The Environmental Cleanup Company 209 E. 51st. Avenue, Anchorage, Alaska 99503 Tel: (907) 562-7169 Fax: (907) 562-7225	Samplers: Randy E. Easley (Signature) <i>Randy E. Easley</i> Witness: <i>David L. Rein</i> (Signature) <i>David L. Rein</i>

Analysis Required by: _____

Field Screen	Sample Number	Sample Date	Time	PID Reading	Type	# of Cont.	Analysis Required							QA / QC Required
							AK101 EPA 8260	AK102 AK103	EPA 8270	8081	8082	TCLP Metals	Dioxin EPA 8290	
	99-GAM-009-SL	8-14-99	12:10		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-010-SL	8-14-99	12:20		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-011-SL	8-14-99	12:30		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-012-SL	8-14-99	11:29		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-013-SL	8-14-99	11:40		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-014-SL	8-14-99	2:40		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-015-SL	8-14-99	2:40		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-017-SL	8-14-99	3:15		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-018-SL	8-14-99	3:30		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-019-SL	8-14-99	3:45		Grab	2	✓	✓	✓	✓	✓	✓		III

Relinquished by: (Printed) _____ (Signature) _____	Received by: (Printed) _____ (Signature) _____
Relinquished by: (Printed) _____ (Signature) _____	Received by: (Printed) _____ (Signature) _____
Dispatched by: (Printed) _____ (Signature) _____	Received at Laboratory by: _____
Method of Shipment: _____ Comments: _____	Condition of Containers: _____ Received Temp: _____ Good Fair Poor

Environmental Quality Control/Quality Assurance Report

(ER 415-1-302)

Contract Number / Delivery Order Number: DACA88-97-D-0010/D.O. 0004		UPC/Project Title: Debris Removal and Contaminated Hazardous and Toxic Waste Removal	
CQC Report Number 99-041	Date or Time Period 8/15/99	Location and Team Gambell, Alaska	
Weather Conditions Temp Low 44 Temp Hi 58 Wind Speed 8-18 Knots		Contractor Oil Spill Consultants, Inc.	
Conditions fog a.m., sunny p.m.			

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action.)

Preparatory see attached checklist
 Initial see attached checklist
 Follow-Up

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
NONE			

Have Data Quality Objectives been achieved? N/A Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
NONE		

Have required amount of QC trip blanks and rinsates been achieved? N/A Yes No

Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) N/A Yes No

Have QA and QC samples been collected in the specified quantity? N/A Yes No

Have samples been properly labeled and packaged? N/A Yes No

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The Superintendent emphasized the need for teamwork as fundamental to a safe work environment. The concept goes beyond simply the buddy system and correct use of spotters when operating equipment. He urged personnel keep aware of their complete working environment. Communication of potential hazards to coworkers, synchronization of tasks between personnel working in close proximity, and general awareness of what those around were doing are vital to a safe working environment for everybody.

QAR SAFETY COMMENTS:

QAR NOT ON SITE

Work Activities Performed This Date

Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Site cleanup work completed. Weighing and loading of cleanup material completed today. Cleanup of contractor's staging area completed today. Packing of contractor's tools started today.			

Manpower and Equipment

Labor Classification	Number	ManHours	Equipment Type	Number	Hours Used
Project Manager	1	12	4 wheeler	4	48
CQC System Manager	1	11	Cat 426 loader	1	0
Superintendent	1	13	Argo	8	48
Archaeologist	0	0	Nodwell	1	4
Operator	1	4	Pickup	1	0
Laborers	7	78	Cat 906 Loader	1	10
			Cat 973 Track Loader	1	4
Total Hours:		128	Total Hours:		114

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks.) Verbal Written

NONE

Work Progress: Are there any Contractor caused delays or potential finding of fact? Yes No

Are there any Government caused delays or potential finding of fact? Yes No

Are there any unforeseeable or weather related delays? Yes No

Environmental Quality Control/Quality Assurance Report

(ER 416-1-302)

Continuation Sheet

Remarks (include any visitors to project and miscellaneous remarks pertinent to work.)

The Project Archeologist, QAR, and one operator left the site today.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature



Date

8/16/99

Government Quality Assurance Comments
Concurs with the QC report?
Additional comments or exceptions:

Yes No

QAR NOT ON SITE

QAR Signature _____

Date _____

Supervisor's Initial _____

Date _____

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 8/15 1999 Time: 0800 Briefing Location: Lodge

Activities Planned: weighing Metal, site cleanup

Briefer: Chuck Heath Topic: Teamwork

Topic: _____

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

Chuck Heath
[Redacted]
[Redacted]
Chuck Noble
Don Pruitt
Thom [unclear]

Site Health and Safety Officer: [Signature]

Date: 8/15/99 1999

Environmental Quality Control/Quality Assurance Report

(ER 415-1-WC)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 99-042	Date or Time Period 8/16/99	Location and Team Gambell, Alaska	
Weather Conditions		Contractor	
Temp Low 44	Temp HI 46	Oil Spill Consultants, Inc	
Wind Speed 15 - 20	Knots		
Conditions fog a.m. sunny p.m.			

Quality Control Inspections Performed This Date (include inspections results deficiencies observed and corrective action.)

- Preparatory see attached checklist
- Initial see attached checklist
- Follow-Up

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing

Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
--------------	---------------	---------------------	---------

NONE

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis?

Type of Test	EPA Test Method/Matrix	Quantity of Samples	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
--------------	------------------------	---------------------	---

NONE

- Have required amount of QC trip blanks and insates been achieved? N/A Yes No
- Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.) N/A Yes No
- Have QA and QC samples been collected in the specified quantity? N/A Yes No
- Have samples been properly labeled and packaged? N/A Yes No

Health and Safety

- Worker protection levels this date Level A Level B Level C Level D N/A
 - Was any work activity conducted within a confined space? Yes No
 - Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No
 - Were approved decontamination procedures used on workers and equipment as required? Yes No
- Safety Comments (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The Superintendent stressed the need to use care while operating ATVs on the tundra. This was important in light of the day's planned activities which included spreading fertilizer on the disturbed portions of the tundra. Drivers should not be distracted by the fertilizer spreading, maintaining their concentration on driving. The proper PPE for handling fertilizer was also discussed. This included gloves and dust mask type respirators.

QAR SAFETY COMMENTS:

QAR NOT ON SITE

Work Activities Performed This Date

Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
----------------------------------	---------------------	----------	------------

Spreading fertilizer was complete today.

Manpower and Equipment

Labor Classification	Number	ManHours	Equipment Type	Number	Hours Used
Project Manager	1	11	4 wheeler	4	48
CQC System Manager	1	11	Cat 426 loader	1	0
Superintendent	1	12	Argo	6	44
Archeologist	0	0	Nodwell	1	0
Laborers	6	58	Cat 973 Track Loader	1	0
Total Hours		92	Total Hours		92

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks) Verbal Written

NONE

- Work Progress Are there any Contractor caused delays or potential finding of fact? Yes No
- Are there any Government caused delays or potential finding of fact? Yes No
- Are there any unforeseeable or weather related delays? Yes No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)

2 laborers left the site today

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)

Continuation Sheet

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature *David L. [Signature]*

Date 8/17/99

Government Quality Assurance Comments
Concurs with the QC report?
Additional comments or exceptions.

Yes No

QAR NOT ON SITE

QAR Signature _____ Date _____ Supervisor's Initial _____ Date _____

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 8/16 1999 Time: 0700 Briefing Location: Lodge

Activities Planned: Seeding & Fertilizing⁰⁰

Briefer: Chuck Heath

Topic: Operating on Tundra

Topic: PPE for Fertilizing

Topic: _____

Briefer: Randy Easley

Topic: _____

Safety: Eye Protection
Hand Protection

Topic: _____

Topic: _____

Attendees

[Signature]
[Signature]
Chris Kosuotba
[Signature]
[Signature]
[Signature]
[Signature]
[Signature]

Site Health and Safety Officer: [Signature]

Date: 8/16 1999

Environmental Quality Control/Quality Assurance Report

(ER 415-1-002)

Contract Number / Delivery Order Number DACA85-97-D-0010/D.O. 0004		UPC/Project Title Debris Removal and Containerized Hazardous and Toxic Waste Removal	
CQC Report Number 99-043	Date or Time Period 8/17/99	Location and Team Gambell, Alaska	
Weather Conditions		Contractor	
Temp Low 44	Temp HI 48	Oil Spill Consultants, Inc.	
Wind Speed calm - 10	Knots		
Conditions fog, cloudy, intermittent light rain			

Quality Control Inspections Performed This Date (Include inspections, results, deficiencies observed, and corrective action)

Preparatory	<input type="checkbox"/> see attached checklist
Initial	<input type="checkbox"/> see attached checklist
Follow-Up	<input checked="" type="checkbox"/> Material Tracking

The regulatory specialist and the CQC performed final correction of the database, re-checking against all original weigh tickets. The final corrected numbers 142,324 lb for debris, 53,738 lb for HTW items, 39,889 lb for stained soil and 103,885 lb of contaminated soil removed by the project.

Was the deficiency tracking list updated this date Yes No

Field Sampling and Testing
Has field testing been performed this date? Yes No

Type of test	Method/Matrix	Quantity of samples	Results
NONE			

Have Data Quality Objectives been achieved? **N/A** Yes No

Have Samples Been Collected for Laboratory Analysis? Yes No

Type of Test	EPA Test Method/Matrix	Quantity of Samples
NONE		

Have required amount of QC trip blanks and rinsates been achieved?	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Have appropriate QC laboratory tests been ordered? (matrix spikes, method blanks, surrogates, reference standards, etc.)	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Have QA and QC samples been collected in the specified quantity?	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Have samples been properly labeled and packaged?	N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>

Health and Safety

Worker protection levels this date: Level A Level B Level C Level D N/A

Was any work activity conducted within a confined space? Yes No

Was any work activity conducted within an area determined to be immediately dangerous to life and health? Yes No

Were approved decontamination procedures used on workers and equipment as required? Yes No

Safety Comments: (Include any infractions of approved safety plan, and include instructions from Government personnel. Specify corrective action taken.)

The Superintendent stressed the need to use care while operating ATVs on the tundra. This was important in light of the day's planned activities which included spreading fertilizer on the disturbed portions of the tundra. Drivers should not be distracted by the fertilizer spreading, maintaining their concentration on driving. The proper PPE for handling fertilizer was also discussed. This included gloves and dust mask type respirators.

QAR SAFETY COMMENTS:

QAR NOT ON SITE

Work Activities Performed This Date Reference (NAS ID #/Tech Spec #)	Activity & Location	Quantity	Contractor
Seeding was completed today. The silt fence was not installed (see remarks section). All contract work for the project is complete. All punch list items were completed today. Mobilization started today.			

Manpower and Equipment		Labor		Equipment	
Classification	Number	ManHours	Type	Number	Hours Used
Project Manager	1	12	4 wheeler	4	24
CQC System Manager	1	14	Cat 426 loader	1	0
Superintendent	1	9	Argo	6	16
Archeologist	0	0	Nodwell	0	0
Laborers	5	57	Cat 973 Track Loader	1	0
Total Hours:		92	Total Hours:		40

Instructions Given by the Government to the Contractor (Include names, reactions, and remarks.) Verbal Written

NONE

Environmental Quality Control/Quality Assurance Report
(ER 415-1-302)

Continuation Sheet

Are there any unforeseeable or weather related delays?

Yes

No

Remarks (Include any visitors to project and miscellaneous remarks pertinent to work.)
The project manager for the sub contractor arrived today.

After seeding the crew started erecting silt fence across the few areas of potential erosion. Concerns were raised by the members of the crew who were local residents that placement of fence across trails might posed a hazard to ATV riders using the trails. During the lunch break the CQC, Superintendent, and members of the crew consulted with the Project Liaison, Burt Oosevaseuk. The Liaison confirmed that the silt fence could be a danger to those in the area. He also added that local residents would probably remove much of the fencing to salvage the materials. He confirmed that it would be in the best interest of the local community not to install any silt fencing. Silt fence installation was deleted at the request of the Project Liaison.

I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this period were in strict compliance with the contract plans and specifications except as noted above.

Quality Control Manager Signature

[Handwritten Signature]

Date

8/17/99

Government Quality Assurance Comments
Concurs with the QC report?
Additional comments or exceptions

Yes No

QAR NOT ON SITE

QAR Signature _____ Date _____ Supervisor's Initial _____ Date _____

OIL SPILL CONSULTANTS, INC.
209 E. 51st Avenue
Anchorage, Alaska 99503
(907) 562-7169

Safety Meeting Minutes

Project Title: Debris Removal and Containerized Hazardous Waste and Toxic Removal

Project Site Location: Gambell, Alaska

Date: 8/17 1999 Time: 0700 Briefing Location: LODGE

Activities Planned: Seeding, Demob

Briefer: CHURCH HEATH Topic: _____

Topic: _____

Topic: _____

Briefer: _____

Topic: _____

Topic: _____

Topic: _____

Attendees

David King
Andy Curran
Paul Grant
Paul E. King
Chun Heald
Jay K... ..
Chris Taylor Mr. Kowalick

Site Health and Safety Officer: R. L. ...

Date: 8/17 1999

Weight Summary
Debris removal and Containerized HTW Removal

Sites	Debris		HTW		Stained soil		Contaminated Soil	
	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date	Contract Wt	Actual Weight to Date
Site 2	1600	0	20	0		24982		
Site 3	770	1880	600	1150		0		
Site 4/Area 4A	5410	12348	2140	2424		1877		
Site 4/Area 4B	905	1052	2230	1764		0	104000	103885
Site 4/Area 4D	1000	6968	0	6008		463		
Site 5	315	6268	0	470		0		
Area between site 5 and 3	55	1441	100					
Site 6	350	1748	0	7897		0		
Site 7	150		0					
Site 8	115000	108090	6200	12807		4790		
Site 10	1300	1388	2300	12516		540		
Site 12	100	798	2550	8702		7237		
Site 13	300	343	0	0		0		
Totals	127255	142324	16140	53738	40000	39889	104000	103885
Percent of Contract Wt		112%		333%		100%		100%

RANDY EASLEY

LOT NUMBER: 425-081399

PERCENT	DESCRIPTION	GERM	ORIGIN	T/D
48.28%	Norran Tufted Hairgrass	85%	AK	Feb-99
39.10%	Arctared Fescue	85%	CAN	Mar-99
9.91%	Annual Rye	90%	OR	Jan-99
0.08%	OTHER CROP SEED			
2.38%	INERT MATTER			
0.26%	WEED SEED			
100.00%				

NO NOXIOUS WEEDS
NET WEIGHT 30 LBS

ALASKA GARDEN & PET SUPPLY
114 N. ORCA ST
ANCHORAGE, AK 99501

RANDY EASLEY

LOT NUMBER: 425-081399

PERCENT	DESCRIPTION	GERM	ORIGIN	T/D
48.28%	Norran Tufted Hairgrass	85%	AK	Feb-99
39.10%	Arctared Fescue	85%	CAN	Mar-99
9.91%	Annual Rye	90%	OR	Jan-99
0.08%	OTHER CROP SEED			
2.38%	INERT MATTER			
0.26%	WEED SEED			
100.00%				

NO NOXIOUS WEEDS
NET WEIGHT 30 LBS

ALASKA GARDEN & PET SUPPLY
114 N. ORCA ST.

RANDY EASLEY

LOT NUMBER: 425-081399

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48.28%	Norran Tufted Hairgrass	85%	AK	Feb-99
39.10%	Arctared Fescue	85%	CAN	Mar-99
9.91%	Annual Rye	90%	OR	Jan-99
0.08%	OTHER CROP SEED			
2.38%	INERT MATTER			
0.26%	WEED SEED			
100.00%				

PERCENT	DESCRIPTION	GERM.	ORIGIN	T/D
48.28%	Norran Tufted Hairgrass	85%	AK	Feb-99
39.10%	Arctared Fescue	85%	CAN	Mar-99
9.91%	Annual Rye	90%	OR	Jan-99
0.08%	OTHER CROP SEED			
2.38%	INERT MATTER			
0.26%	WEED SEED			
100.00%				

NO NOXIOUS WEEDS

RANDY EASLEY

LOT NUMBER: 425-081399

PERCENT	DESCRIPTION	GERM.	ORIGIN	T/D
48.28%	Norran Tufted Hairgrass	85%	AK	Feb-99
39.10%	Arctared Fescue	85%	CAN	Mar-99
9.91%	Annual Rye	90%	OR	Jan-99
0.08%	OTHER CROP SEED			
2.38%	INERT MATTER			
0.26%	WEED SEED			
100.00%				

RANDY EASLEY

LOT NUMBER: 425-081399

PERCENT	DESCRIPTION	GERM.	ORIGIN	T/D
48.28%	Norran Tufted Hairgrass	85%	AK	Feb-99
39.10%	Arctared Fescue	85%	CAN	Mar-99
9.91%	Annual Rye	90%	OR	Jan-99
0.08%	OTHER CROP SEED			
2.38%	INERT MATTER			
0.26%	WEED SEED			
100.00%				

NO NOXIOUS WEEDS
NET WEIGHT 30 LBS

ALASKA GARDEN & PET SUPPLY

Appendix E
Laboratory Data Summary

Appendix E

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Table 5A

TCLP VOA Results by EPA Method 8260 for Waste Identification Samples
Debris Removal and Containerized Hazardous and Toxic Waste Removal
Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
Sample Date: July 19, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-001-SL (Site 8)	Sample No. 99-GAM-002-SL (Site 12)	Sample No. 99-GAM-003-SL (Site 12)	Sample No. 99-GAM-004-SL (Site 2)	Sample No. 99-GAM-005-SL (Site 4/4B)
Benzene	mg/L	0.5	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Carbon tetrachloride	mg/L	0.5	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Chlorobenzene	mg/L	100.0	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Chloroform	mg/L	6.0	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
1,4-Dichlorobenzene	mg/L	7.5	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
1,2-Dichloroethane	mg/L	0.5	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
1,1-Dichloroethene	mg/L	0.7	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
2-Butanone (MEK)	mg/L	200.0	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)
Tetrachloroethene	mg/L	0.7	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Trichloroethene	mg/L	0.5	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Vinyl chloride	mg/L	0.2	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)

- Notes:
1. mg/L means milligrams per liter.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. TCLP extraction by EPA 1311 was performed for VOA.
 5. Regulatory limits are from 40 CFR 261.30, Table 1.

Table 5B

TCLP SVOA Results by EPA Method 8270 for Waste Identification Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: July 19, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-001-SL (Site 8)	Sample No. 99-GAM-002-SL (Site 12)	Sample No. 99-GAM-003-SL (Site 12)	Sample No. 99-GAM-004-SL (Site 2)	Sample No. 99-GAM-005-SL (Site 4/4B)
2-Methylphenol (o-Cresol)	mg/L	200.0	U (0.017)	U (0.018)	U (0.015)	U (0.014)	U (0.022)
3&4-Methylphenol (p&m-Cresol)	mg/L	200.0	U (0.017)	U (0.018)	U (0.015)	U (0.014)	U (0.022)
2,4-Dinitrotoluene	mg/L	0.13	U (0.017)	U (0.018)	U (0.015)	U (0.014)	U (0.022)
Hexachlorobenzene	mg/L	0.13	U (0.017)	U (0.018)	U (0.015)	U (0.014)	U (0.022)
Hexachlorobutadiene	mg/L	0.5	U (0.017)	U (0.018)	U (0.015)	U (0.014)	U (0.022)
Hexachloroethane	mg/L	3.0	U (0.017)	U (0.018)	U (0.015)	U (0.014)	U (0.022)
Nitrobenzene	mg/L	2.0	U (0.017)	U (0.018)	U (0.015)	U (0.014)	U (0.022)
Pentachlorophenol	mg/L	100.0	U (0.017)	U (0.018)	U (0.015)	U (0.014)	U (0.022)
Pyridine	mg/L	5.0	U (0.017)	U (0.018)	U (0.015)	U (0.014)	U (0.022)
2,4,5-Trichlorophenol	mg/L	400.0	U (0.017)	U (0.018)	U (0.015)	U (0.014)	U (0.022)
2,4,6-Trichlorophenol	mg/L	2.0	U (0.017)	U (0.018)	U (0.015)	U (0.014)	U (0.022)

- Notes:
1. mg/L means milligrams per liter.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. TCLP extraction by EPA 1311 was performed for SVOA.
 5. Regulatory limits are from 40 CFR 261.30, Table 1.

Table 5C-1

TCLP PCB Results by EPA Method 8082 for Waste Identification Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: July 19, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-001-SL (Site 8)	Sample No. 99-GAM-002-SL (Site 12)	Sample No. 99-GAM-003-SL (Site 12)	Sample No. 99-GAM-004-SL (Site 2)	Sample No. 99-GAM-005-SL (Site 4/4B)
Aroclor-1016	µg/L	0.5	U (0.179)	U (0.190)	U (0.151)	U (0.105)	U (0.279)
Aroclor-1221	µg/L	0.5	U (0.179)	U (0.190)	U (0.151)	U (0.105)	U (0.279)
Aroclor-1232	µg/L	0.5	U (0.179)	U (0.190)	U (0.151)	U (0.105)	U (0.279)
Aroclor-1242	µg/L	0.5	U (0.179)	U (0.190)	U (0.151)	U (0.105)	U (0.279)
Aroclor-1248	µg/L	0.5	U (0.179)	U (0.190)	U (0.151)	U (0.105)	U (0.279)
Aroclor-1254	µg/L	0.5	U (0.179)	U (0.190)	U (0.151)	U (0.105)	U (0.279)
Aroclor-1260	µg/L	0.5	U (0.179)	U (0.190)	U (0.151)	U (0.105)	U (0.279)

- Notes:
1. µg/L means microgram per liter.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. TCLP extraction by EPA 1311 was performed for PCB.
 5. Regulatory limit for PCBs obtained from 18 AAC 75.341, Table C.

Table 5C-2

**TCLP PCB Results by EPA Method 8082
for Transformer Wipe Samples**

Debris Removal and Containerized Hazardous and Toxic Waste Removal
Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
Sample Date: July 19, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-006-W (Site 4)	Sample No. 99-GAM-007-W (Site 4)	Sample No. 99-GAM-008-W (Site 4)
Aroclor-1016	µg/wipe	10 mg/100 cm ²	U (1.00)	U (1.00)	U (1.00)
Aroclor-1221	µg/wipe	10 mg/100 cm ²	U (1.00)	U (1.00)	U (1.00)
Aroclor-1232	µg/wipe	10 mg/100 cm ²	U (1.00)	U (1.00)	U (1.00)
Aroclor-1242	µg/wipe	10 mg/100 cm ²	U (1.00)	U (1.00)	U (1.00)
Aroclor-1248	µg/wipe	10 mg/100 cm ²	U (1.00)	U (1.00)	U (1.00)
Aroclor-1254	µg/wipe	10 mg/100 cm ²	U (1.00)	U (1.00)	U (1.00)
Aroclor-1260	µg/wipe	10 mg/100 cm ²	U (1.00)	U (1.00)	U (1.00)

Notes:

1. µg/wipe means micrograms per 100 cm² wipe.
2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
3. Laboratory data sheets are provided in Appendix F.
4. TCLP extraction by EPA 1311 was performed for PCB.
5. Sample collected by wiping the internal wall with a hexane wipe prepared by the project laboratory.
6. Regulatory limit for PCBs obtained from 40 CFR 761.3.

Table 5D

TCLP Pesticide Results by EPA Method 8081A for Waste Identification Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: July 19, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-001-SL (Site 8)	Sample No. 99-GAM-002-SL (Site 12)	Sample No. 99-GAM-003-SL (Site 12)	Sample No. 99-GAM-004-SL (Site 2)	Sample No. 99-GAM-005-SL (Site 4/4B)
gamma-Chlordane	µg/L		U (0.0179)	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
alpha-Chlordane	µg/L		U (0.0179)	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
alpha-BHC	µg/L		U (0.0179)	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
beta-BHC	µg/L		U (0.0179)	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
gamma-BHC(Lindane)	µg/L		U (0.0179)	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
delta-BHC	µg/L		U (0.0179)	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
Heptachlor	µg/L	0.008	U (0.0179)	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
Aldrin	µg/L		U (0.0179)	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
Heptachlor epoxide	µg/L	0.008	U (0.0179)	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
Endosulfan I	µg/L		U (0.0179)	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
4,4'-DDE	µg/L		U (0.0179)	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
Dieldrin	µg/L		U (0.0179)	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
Endrin	µg/L		0.0395	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
Endosulfan II	µg/L		U (0.0179)	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
4,4'-DDD	µg/L		0.0486	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
Endrin aldehyde	µg/L		U (0.0179)	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
4,4'-DDT	µg/L		0.0274	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
Endosulfan sulfate	µg/L		U (0.0179)	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
Endrin ketone	µg/L		U (0.0179)	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
Methoxychlor	µg/L	10.0	U (0.0179)	U (0.0190)	U (0.0151)	U (0.0105)	U (0.0279)
Toxaphene	µg/L	0.5	U (1.79)	U (1.90)	U (1.51)	U (1.05)	U (2.79)

- Notes:
1. µg/L means micrograms per liter.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. TCLP extraction by EPA 1311 was performed for pesticides.
 5. Regulatory limits are from 40 CFR 261.30, Table 1.
 6. Blank space in regulatory limits column means that no limit is cited in 40 CFR 261.30, Table 1.

Table 5E

TCLP Herbicide Results by EPA Method 8150 for Waste Identification Samples
Debris Removal and Containerized Hazardous and Toxic Waste Removal
Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
Sample Date: July 19, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-001-SL (Site 8)	Sample No. 99-GAM-002-SL (Site 12)	Sample No. 99-GAM-003-SL (Site 12)	Sample No. 99-GAM-004-SL (Site 2)	Sample No. 99-GAM-005-SL (Site 4/4B)
2,4-D	mg/L	10	U (0.010)	U (0.010)	U (0.010)	U (0.010)	U (0.010)
Silvex (2,4,5-TP)	mg/L	1.0	U (0.010)	U (0.010)	U (0.010)	U (0.010)	U (0.010)

- Notes:
1. mg/L means milligrams per liter.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. TCLP extraction by EPA 1311 was performed for herbicides.
 5. Regulatory limits are from 40 CFR 261.30, Table 1.

Table 6A-1

VOA Results by EPA Method 8260 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-009-SL (Site 12)	Sample No. 99-GAM-010-SL (Site 12)	Sample No. 99-GAM-011-SL (Site 12)
Dichlorodifluoromethane	mg/kg		U (0.034)	U (0.022)	U (0.019)
Chloromethane	mg/kg		U (0.034)	U (0.022)	U (0.019)
Vinyl chloride	mg/kg		U (0.034)	U (0.022)	U (0.019)
Bromomethane	mg/kg		U (0.34)	U (0.22)	U (0.19)
Chloroethane	mg/kg		U (0.34)	U (0.22)	U (0.19)
Trichlorofluoromethane	mg/kg		U (0.034)	U (0.022)	U (0.019)
1,1-Dichloroethene	mg/kg		U (0.034)	U (0.022)	U (0.019)
Carbon disulfide	mg/kg	17	U (0.34)	U (0.22)	U (0.19)
Methylene chloride	mg/kg	0.015	U (0.17)	U (0.11)	U (0.093)
trans-1,2-Dichloroethene	mg/kg		U (0.034)	U (0.022)	U (0.019)
1,1-Dichloroethane	mg/kg	12	U (0.034)	U (0.022)	U (0.019)
2-Butanone (MEK)	mg/kg		U (0.34)	U (0.22)	U (0.19)
2,2-Dichloropropane	mg/kg		U (0.034)	U (0.022)	U (0.019)
cis-1,2-Dichloroethene	mg/kg		U (0.034)	U (0.022)	U (0.019)
Bromochloromethane	mg/kg	0.35	U (0.034)	U (0.022)	U (0.019)
Chloroform	mg/kg	0.34	U (0.034)	U (0.022)	U (0.019)
1,1,1-Trichloroethane	mg/kg	1.0	U (0.034)	U (0.022)	U (0.019)
Carbon tetrachloride	mg/kg	0.03	U (0.034)	U (0.022)	U (0.019)
1,1-Dichloropropene	mg/kg		U (0.034)	U (0.022)	U (0.019)
Benzene	mg/kg	0.02	U (0.034)	U (0.022)	U (0.019)
1,2-Dichloroethane	mg/kg	0.015	U (0.034)	U (0.022)	U (0.019)
Trichloroethene	mg/kg		U (0.034)	U (0.022)	U (0.019)
1,2-Dichloropropane	mg/kg	0.017	U (0.034)	U (0.022)	U (0.019)
Dibromomethane	mg/kg		U (0.034)	U (0.022)	U (0.019)
Bromodichloromethane	mg/kg		U (0.034)	U (0.022)	U (0.019)
2-Chloroethyl Vinyl Ether	mg/kg		U (0.34)	U (0.22)	U (0.19)
cis-1,3-Dichloropropene	mg/kg		U (0.034)	U (0.022)	U (0.019)
4-Methyl-2-pentanone (MIBK)	mg/kg		U (0.34)	U (0.22)	U (0.19)
Toluene	mg/kg	5.4	U (0.0593)	U (0.022)	U (0.019)
trans-1,3-Dichloropropene	mg/kg		U (0.034)	U (0.022)	U (0.019)
1,1,2-Trichloroethane	mg/kg	0.017	U (0.034)	U (0.022)	U (0.019)
Tetrachloroethene	mg/kg		U (0.034)	U (0.022)	U (0.019)
1,3-Dichloropropane	mg/kg		U (0.034)	U (0.022)	U (0.019)
2-Hexanone	mg/kg		U (0.34)	U (0.22)	U (0.19)

Table 6A-1 (Continued)

VOA Results by EPA Method 8260 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-009-SL (Site 12)	Sample No. 99-GAM-010-SL (Site 12)	Sample No. 99-GAM-011-SL (Site 12)
Dibromochloromethane	mg/kg		U (0.034)	U (0.022)	U (0.019)
1,2-Dibromoethane	mg/kg		U (0.034)	U (0.022)	U (0.019)
Chlorobenzene	mg/kg	110	U (0.034)	U (0.022)	U (0.019)
1,1,1,2-Tetrachloroethane	mg/kg		U (0.034)	U (0.022)	U (0.019)
Ethylbenzene	mg/kg	5.5	U (0.034)	U (0.022)	U (0.019)
P&M-Xylene	mg/kg	78	U (0.034)	U (0.022)	U (0.019)
o-Xylene	mg/kg	78	U (0.034)	U (0.022)	U (0.019)
Styrene	mg/kg	1.3	U (0.034)	U (0.022)	U (0.019)
Bromoform	mg/kg	0.38	U (0.034)	U (0.022)	U (0.019)
Isopropylbenzene (Cumene)	mg/kg		U (0.034)	U (0.022)	U (0.019)
Bromobenzene	mg/kg		U (0.034)	U (0.022)	U (0.019)
1,1,2,2-Tetrachloroethane	mg/kg		U (0.034)	U (0.022)	U (0.019)
1,2,3-Trichloropropane	mg/kg		U (0.034)	U (0.022)	U (0.019)
n-Propylbenzene	mg/kg		U (0.034)	U (0.022)	U (0.019)
2-Chlorotoluene	mg/kg		U (0.034)	U (0.022)	U (0.019)
4-Chlorotoluene	mg/kg		U (0.034)	U (0.022)	U (0.019)
1,3,5-Trimethylbenzene	mg/kg		U (0.034)	U (0.022)	U (0.019)
tert-Butylbenzene	mg/kg		U (0.034)	U (0.022)	U (0.019)
1,2,4-Trimethylbenzene	mg/kg		U (0.034)	U (0.022)	U (0.019)
sec-Butylbenzene	mg/kg		U (0.034)	U (0.022)	U (0.019)
1,3-Dichlorobenzene	mg/kg		U (0.034)	U (0.022)	U (0.019)
4-Isopropyltoluene	mg/kg		U (0.034)	U (0.022)	U (0.019)
1,4-Dichlorobenzene	mg/kg	0.8	U (0.034)	U (0.022)	U (0.019)
1,2-Dichlorobenzene	mg/kg	7	U (0.034)	U (0.022)	U (0.019)
n-Butylbenzene	mg/kg		U (0.034)	U (0.022)	U (0.019)
1,2-Dibromo-3-chloropropane	mg/kg		U (0.34)	U (0.22)	U (0.19)
1,2,4-Trichlorobenzene	mg/kg	2	U (0.034)	U (0.022)	U (0.019)
Hexachlorobutadiene	mg/kg		U (0.034)	U (0.022)	U (0.019)
Naphthalene	mg/kg	43	U (0.034)	U (0.022)	U (0.019)
1,2,3-Trichlorobenzene	mg/kg		U (0.034)	U (0.022)	U (0.019)

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits are from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means that no limit is cited in 18 AAC 75.341.

Table 6A-1 (Continued)

VOA Results by EPA Method 8260 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-012-SL (Site 8)	Sample No. 99-GAM-013-SL (Site 8)
Dichlorodifluoromethane	mg/kg		U (0.018)	U (0.019)
Chloromethane	mg/kg		U (0.018)	U (0.019)
Vinyl chloride	mg/kg		U (0.018)	U (0.019)
Bromomethane	mg/kg		U (0.18)	U (0.19)
Chloroethane	mg/kg		U (0.18)	U (0.19)
Trichlorofluoromethane	mg/kg		U (0.018)	U (0.019)
1,1-Dichloroethene	mg/kg		U (0.018)	U (0.019)
Carbon disulfide	mg/kg	17	U (0.18)	U (0.19)
Methylene chloride	mg/kg	0.015	U (0.090)	U (0.095)
trans-1,2-Dichloroethene	mg/kg		U (0.018)	U (0.019)
1,1-Dichloroethane	mg/kg	12	U (0.018)	U (0.019)
2-Butanone (MEK)	mg/kg		U (0.18)	U (0.19)
2,2-Dichloropropane	mg/kg		U (0.018)	U (0.019)
cis-1,2-Dichloroethene	mg/kg		U (0.018)	U (0.019)
Bromochloromethane	mg/kg	0.35	U (0.018)	U (0.019)
Chloroform	mg/kg	0.34	U (0.018)	U (0.019)
1,1,1-Trichloroethane	mg/kg	1.0	U (0.018)	U (0.019)
Carbon tetrachloride	mg/kg	0.03	U (0.018)	U (0.019)
1,1-Dichloropropene	mg/kg		U (0.018)	U (0.019)
Benzene	mg/kg	0.02	U (0.018)	U (0.019)
1,2-Dichloroethane	mg/kg	0.015	U (0.018)	U (0.019)
Trichloroethene	mg/kg		U (0.018)	U (0.019)
1,2-Dichloropropane	mg/kg	0.017	U (0.018)	U (0.019)
Dibromomethane	mg/kg		U (0.018)	U (0.019)
Bromodichloromethane	mg/kg		U (0.018)	U (0.019)
2-Chloroethyl Vinyl Ether	mg/kg		U (0.18)	U (0.19)
cis-1,3-Dichloropropene	mg/kg		U (0.018)	U (0.019)
4-Methyl-2-pentanone (MIBK)	mg/kg		U (0.18)	U (0.19)
Toluene	mg/kg	5.4	U (0.018)	U (0.019)
trans-1,3-Dichloropropene	mg/kg		U (0.018)	U (0.019)
1,1,2-Trichloroethane	mg/kg	0.017	U (0.018)	U (0.019)
Tetrachloroethene	mg/kg		U (0.018)	U (0.019)
1,3-Dichloropropane	mg/kg		U (0.018)	U (0.019)
2-Hexanone	mg/kg		U (0.18)	U (0.19)

Table 6A-1 (Continued)

VOA Results by EPA Method 8260 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-012-SL (Site 8)	Sample No. 99-GAM-013-SL (Site 8)
Dibromochloromethane	mg/kg		U (0.018)	U (0.019)
1,2-Dibromoethane	mg/kg		U (0.018)	U (0.019)
Chlorobenzene	mg/kg	110	U (0.018)	U (0.019)
1,1,1,2-Tetrachloroethane	mg/kg		U (0.018)	U (0.019)
Ethylbenzene	mg/kg	5.5	U (0.018)	U (0.019)
P&M-Xylene	mg/kg	78	U (0.018)	U (0.019)
o-Xylene	mg/kg	78	U (0.018)	U (0.019)
Styrene	mg/kg	1.3	U (0.018)	U (0.019)
Bromoform	mg/kg	0.38	U (0.018)	U (0.019)
Isopropylbenzene (Cumene)	mg/kg		U (0.018)	U (0.019)
Bromobenzene	mg/kg		U (0.018)	U (0.019)
1,1,2,2-Tetrachloroethane	mg/kg		U (0.018)	U (0.019)
1,2,3-Trichloropropane	mg/kg		U (0.018)	U (0.019)
n-Propylbenzene	mg/kg		U (0.018)	U (0.019)
2-Chlorotoluene	mg/kg		U (0.018)	U (0.019)
4-Chlorotoluene	mg/kg		U (0.018)	U (0.019)
1,3,5-Trimethylbenzene	mg/kg		U (0.018)	U (0.019)
tert-Butylbenzene	mg/kg		U (0.018)	U (0.019)
1,2,4-Trimethylbenzene	mg/kg		U (0.018)	U (0.019)
sec-Butylbenzene	mg/kg		U (0.018)	U (0.019)
1,3-Dichlorobenzene	mg/kg		U (0.018)	U (0.019)
4-Isopropyltoluene	mg/kg		U (0.018)	U (0.019)
1,4-Dichlorobenzene	mg/kg	0.8	U (0.018)	U (0.019)
1,2-Dichlorobenzene	mg/kg	7	U (0.018)	U (0.019)
n-Butylbenzene	mg/kg		U (0.018)	U (0.019)
1,2-Dibromo-3-chloropropane	mg/kg		U (0.18)	U (0.19)
1,2,4-Trichlorobenzene	mg/kg	2	U (0.018)	U (0.019)
Hexachlorobutadiene	mg/kg		U (0.018)	U (0.019)
Naphthalene	mg/kg	43	U (0.018)	U (0.019)
1,2,3-Trichlorobenzene	mg/kg		U (0.018)	U (0.019)

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits are from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means that no limit is cited in 18 AAC 75.341.

Table 6A-1 (Continued)

VOA Results by EPA Method 8260 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-014-SL (Site 4A/Area 4A)	Sample No. 99-GAM-015-SL (Site 4A/Area 4A)	Sample No. 99-GAM-016-SL (Site 4A/Area 4A)
Dichlorodifluoromethane	mg/kg		U (0.030)	U (0.030)	U (0.075)
Chloromethane	mg/kg		U (0.030)	U (0.030)	U (0.160)
Vinyl chloride	mg/kg		U (0.030)	U (0.030)	U (0.130)
Bromomethane	mg/kg		U (0.30)	U (0.30)	U (0.160)
Chloroethane	mg/kg		U (0.30)	U (0.30)	U (0.087)
Trichlorofluoromethane	mg/kg		U (0.030)	U (0.030)	U (0.160)
1,1-Dichloroethene	mg/kg		U (0.030)	U (0.030)	U (0.024)
Carbon disulfide	mg/kg	17	U (0.30)	U (0.30)	U (0.022)
Methylene chloride	mg/kg	0.015	U (0.15)	U (0.15)	U (0.031)
trans-1,2-Dichloroethene	mg/kg		U (0.030)	U (0.030)	U (0.025)
1,1-Dichloroethane	mg/kg	12	U (0.030)	U (0.030)	U (0.021)
2-Butanone (MEK)	mg/kg		U (0.30)	U (0.30)	U (0.150)
2,2-Dichloropropane	mg/kg		U (0.030)	U (0.030)	U (0.027)
cis-1,2-Dichloroethene	mg/kg		U (0.030)	U (0.030)	U (0.018)
Bromochloromethane	mg/kg	0.35	U (0.030)	U (0.030)	U (0.030)
Chloroform	mg/kg	0.34	U (0.030)	U (0.030)	U (0.015)
1,1,1-Trichloroethane	mg/kg	1.0	U (0.030)	U (0.030)	U (0.017)
Carbon tetrachloride	mg/kg	0.03	U (0.030)	U (0.030)	U (0.020)
1,1-Dichloropropene	mg/kg		U (0.030)	U (0.030)	U (0.015)
Benzene	mg/kg	0.02	U (0.030)	U (0.030)	U (0.018)
1,2-Dichloroethane	mg/kg	0.015	U (0.030)	U (0.030)	U (0.045)
Trichloroethene	mg/kg		U (0.030)	U (0.030)	U (0.015)
1,2-Dichloropropane	mg/kg	0.017	U (0.030)	U (0.030)	U (0.020)
Dibromomethane	mg/kg		U (0.030)	U (0.030)	U (0.019)
Bromodichloromethane	mg/kg		U (0.030)	U (0.030)	U (0.025)
2-Chloroethyl Vinyl Ether	mg/kg		U (0.30)	U (0.30)	U (0.056)
cis-1,3-Dichloropropene	mg/kg		U (0.030)	U (0.030)	U (0.015)
4-Methyl-2-pentanone (MIBK)	mg/kg		U (0.30)	U (0.30)	U (0.095)
Toluene	mg/kg	5.4	U (0.030)	U (0.030)	U (0.015)
trans-1,3-Dichloropropene	mg/kg		U (0.030)	U (0.030)	U (0.016)
1,1,2-Trichloroethane	mg/kg	0.017	U (0.030)	U (0.030)	U (0.015)
Tetrachloroethene	mg/kg		U (0.030)	U (0.030)	U (0.016)
1,3-Dichloropropane	mg/kg		U (0.030)	U (0.030)	U (0.023)
2-Hexanone	mg/kg		U (0.30)	U (0.30)	U (0.110)

Table 6A-1 (Continued)

VOA Results by EPA Method 8260 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-014-SL (Site 4A/Area 4A)	Sample No. 99-GAM-015-SL (Site 4A/Area 4A)	Sample No. 99-GAM-016-SL (Site 4A/Area 4A)
Dibromochloromethane	mg/kg		U (0.030)	U (0.030)	U (0.021)
1,2-Dibromoethane	mg/kg		U (0.030)	U (0.030)	U (0.029)
Chlorobenzene	mg/kg	110	U (0.030)	U (0.030)	U (0.015)
1,1,1,2-Tetrachloroethane	mg/kg		U (0.030)	U (0.030)	U (0.015)
Ethylbenzene	mg/kg	5.5	U (0.030)	U (0.030)	U (0.015)
P&M-Xylene	mg/kg	78	U (0.030)	U (0.030)	U (0.030)
o-Xylene	mg/kg	78	U (0.030)	U (0.030)	U (0.015)
Styrene	mg/kg	1.3	U (0.030)	U (0.030)	U (0.016)
Bromoform	mg/kg	0.38	U (0.030)	U (0.030)	U (0.024)
Isopropylbenzene (Cumene)	mg/kg		U (0.030)	U (0.030)	U (0.015)
Bromobenzene	mg/kg		U (0.030)	U (0.030)	U (0.021)
1,1,2,2-Tetrachloroethane	mg/kg		U (0.030)	U (0.030)	U (0.068)
1,2,3-Trichloropropane	mg/kg		U (0.030)	U (0.030)	U (0.017)
n-Propylbenzene	mg/kg		U (0.030)	U (0.030)	U (0.022)
2-Chlorotoluene	mg/kg		U (0.030)	U (0.030)	U (0.015)
4-Chlorotoluene	mg/kg		U (0.030)	U (0.030)	U (0.017)
1,3,5-Trimethylbenzene	mg/kg		U (0.030)	U (0.030)	U (0.022)
tert-Butylbenzene	mg/kg		U (0.030)	U (0.030)	U (0.018)
1,2,4-Trimethylbenzene	mg/kg		U (0.030)	U (0.030)	U (0.018)
sec-Butylbenzene	mg/kg		U (0.030)	U (0.030)	U (0.021)
1,3-Dichlorobenzene	mg/kg		U (0.030)	U (0.030)	U (0.015)
4-Isopropyltoluene	mg/kg		U (0.030)	U (0.030)	U (0.020)
1,4-Dichlorobenzene	mg/kg	0.8	U (0.030)	U (0.030)	U (0.015)
1,2-Dichlorobenzene	mg/kg	7	U (0.030)	U (0.030)	U (0.015)
n-Butylbenzene	mg/kg		U (0.030)	U (0.030)	U (0.029)
1,2-Dibromo-3-chloropropane	mg/kg		U (0.30)	U (0.30)	U (0.067)
1,2,4-Trichlorobenzene	mg/kg	2	U (0.030)	U (0.030)	U (0.044)
Hexachlorobutadiene	mg/kg		U (0.030)	U (0.030)	U (0.077)
Naphthalene	mg/kg	43	U (0.030)	U (0.030)	U (0.047)
1,2,3-Trichlorobenzene	mg/kg		U (0.030)	U (0.030)	U (0.052)

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits are from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means that no limit is cited in 18 AAC 75.341.
 6. Samples 99-GAM-014-SL, 99-GAM-015-SL, and 99-GAM-016-SL are parts of a triplicate sample where 99-GAM-014 is the project sample, 99-GAM-015-SL is the quality control sample, and 99-GAM-016-SL is the quality assurance sample.

Table 6A-1 (Continued)

VOA Results by EPA Method 8260 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-017-SL (Site 4A/Area 4A)	Sample No. 99-GAM-018-SL (Site 4A/Area 4A)	Sample No. 99-GAM-019-SL (Site 4A/Area 4A)
Dichlorodifluoromethane	mg/kg		U (0.019)	U (0.027)	U (0.029)
Chloromethane	mg/kg		U (0.019)	U (0.027)	U (0.029)
Vinyl chloride	mg/kg		U (0.019)	U (0.027)	U (0.029)
Bromomethane	mg/kg		U (0.19)	U (0.27)	U (0.29)
Chloroethane	mg/kg		U (0.19)	U (0.27)	U (0.29)
Trichlorofluoromethane	mg/kg		U (0.019)	U (0.027)	U (0.029)
1,1-Dichloroethene	mg/kg		U (0.019)	U (0.027)	U (0.029)
Carbon disulfide	mg/kg	17	U (0.19)	U (0.27)	U (0.29)
Methylene chloride	mg/kg	0.015	U (0.094)	U (0.13)	U (0.14)
trans-1,2-Dichloroethene	mg/kg		U (0.019)	U (0.027)	U (0.029)
1,1-Dichloroethane	mg/kg	12	U (0.019)	U (0.027)	U (0.029)
2-Butanone (MEK)	mg/kg		U (0.19)	U (0.27)	U (0.29)
2,2-Dichloropropane	mg/kg		U (0.019)	U (0.027)	U (0.029)
cis-1,2-Dichloroethene	mg/kg		U (0.019)	U (0.027)	U (0.029)
Bromochloromethane	mg/kg	0.35	U (0.019)	U (0.027)	U (0.029)
Chloroform	mg/kg	0.34	U (0.019)	U (0.027)	U (0.029)
1,1,1-Trichloroethane	mg/kg	1.0	U (0.019)	U (0.027)	U (0.029)
Carbon tetrachloride	mg/kg	0.03	U (0.019)	U (0.027)	U (0.029)
1,1-Dichloropropene	mg/kg		U (0.019)	U (0.027)	U (0.029)
Benzene	mg/kg	0.02	U (0.019)	U (0.027)	U (0.029)
1,2-Dichloroethane	mg/kg	0.015	U (0.019)	U (0.027)	U (0.029)
Trichloroethene	mg/kg		U (0.019)	U (0.027)	U (0.029)
1,2-Dichloropropane	mg/kg	0.017	U (0.019)	U (0.027)	U (0.029)
Dibromomethane	mg/kg		U (0.019)	U (0.027)	U (0.029)
Bromodichloromethane	mg/kg		U (0.019)	U (0.027)	U (0.029)
2-Chloroethyl Vinyl Ether	mg/kg		U (0.19)	U (0.27)	U (0.29)
cis-1,3-Dichloropropene	mg/kg		U (0.019)	U (0.027)	U (0.029)
4-Methyl-2-pentanone (MIBK)	mg/kg		U (0.19)	U (0.27)	U (0.29)
Toluene	mg/kg	5.4	U (0.019)	U (0.027)	U (0.029)
trans-1,3-Dichloropropene	mg/kg		U (0.019)	U (0.027)	U (0.029)
1,1,2-Trichloroethane	mg/kg	0.017	U (0.019)	U (0.027)	U (0.029)
Tetrachloroethene	mg/kg		U (0.019)	U (0.027)	U (0.029)
1,3-Dichloropropane	mg/kg		U (0.019)	U (0.027)	U (0.029)
2-Hexanone	mg/kg		U (0.19)	U (0.27)	U (0.29)

Table 6A-1 (Continued)

VOA Results by EPA Method 8260 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-017-SL (Site 4A/Area 4A)	Sample No. 99-GAM-018-SL (Site 4A/Area 4A)	Sample No. 99-GAM-019-SL (Site 4A/Area 4A)
Dibromochloromethane	mg/kg		U (0.019)	U (0.027)	U (0.029)
1,2-Dibromoethane	mg/kg		U (0.019)	U (0.027)	U (0.029)
Chlorobenzene	mg/kg	110	U (0.019)	U (0.027)	U (0.029)
1,1,1,2-Tetrachloroethane	mg/kg		U (0.019)	U (0.027)	U (0.029)
Ethylbenzene	mg/kg	5.5	U (0.019)	U (0.027)	U (0.029)
P&M-Xylene	mg/kg	78	U (0.019)	U (0.027)	U (0.029)
o-Xylene	mg/kg	78	U (0.019)	U (0.027)	U (0.029)
Styrene	mg/kg	1.3	U (0.019)	U (0.027)	U (0.029)
Bromoform	mg/kg	0.38	U (0.019)	U (0.027)	U (0.029)
Isopropylbenzene (Cumene)	mg/kg		U (0.019)	U (0.027)	U (0.029)
Bromobenzene	mg/kg		U (0.019)	U (0.027)	U (0.029)
1,1,2,2-Tetrachloroethane	mg/kg		U (0.019)	U (0.027)	U (0.029)
1,2,3-Trichloropropane	mg/kg		U (0.019)	U (0.027)	U (0.029)
n-Propylbenzene	mg/kg		U (0.019)	U (0.027)	U (0.029)
2-Chlorotoluene	mg/kg		U (0.019)	U (0.027)	U (0.029)
4-Chlorotoluene	mg/kg		U (0.019)	U (0.027)	U (0.029)
1,3,5-Trimethylbenzene	mg/kg		U (0.019)	U (0.027)	U (0.029)
tert-Butylbenzene	mg/kg		U (0.019)	U (0.027)	U (0.029)
1,2,4-Trimethylbenzene	mg/kg		U (0.019)	U (0.027)	U (0.029)
sec-Butylbenzene	mg/kg		U (0.019)	U (0.027)	U (0.029)
1,3-Dichlorobenzene	mg/kg		U (0.019)	U (0.027)	U (0.029)
4-Isopropyltoluene	mg/kg		U (0.019)	0.0396	U (0.029)
1,4-Dichlorobenzene	mg/kg	0.8	U (0.019)	U (0.027)	U (0.029)
1,2-Dichlorobenzene	mg/kg	7	U (0.019)	U (0.027)	U (0.029)
n-Butylbenzene	mg/kg		U (0.019)	U (0.027)	U (0.029)
1,2-Dibromo-3-chloropropane	mg/kg		U (0.19)	U (0.27)	U (0.29)
1,2,4-Trichlorobenzene	mg/kg	2	U (0.019)	U (0.027)	U (0.029)
Hexachlorobutadiene	mg/kg		U (0.019)	U (0.027)	U (0.029)
Naphthalene	mg/kg	43	U (0.019)	1.20	U (0.029)
1,2,3-Trichlorobenzene	mg/kg		U (0.019)	U (0.027)	U (0.029)

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits are from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means that no limit is cited in 18 AAC 75.341.

Table 6A-1 (Continued)

VOA Results by EPA Method 8260 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-020-SL (Site 4A/Area 4B)	Sample No. 99-GAM-021-SL (Site 4A/Area 4B)	Sample No. 99-GAM-022-SL (Site 4A/Area 4B)
Dichlorodifluoromethane	mg/kg		U (0.038)	U (0.039)	NR
Chloromethane	mg/kg		U (0.038)	U (0.039)	NR
Vinyl chloride	mg/kg		U (0.038)	U (0.039)	NR
Bromomethane	mg/kg		U (0.38)	U (0.39)	NR
Chloroethane	mg/kg		U (0.38)	U (0.39)	NR
Trichlorofluoromethane	mg/kg		U (0.038)	U (0.039)	NR
1,1-Dichloroethene	mg/kg		U (0.038)	U (0.039)	NR
Carbon disulfide	mg/kg	17	U (0.38)	U (0.39)	NR
Methylene chloride	mg/kg	0.015	U (0.19)	U (0.20)	NR
trans-1,2-Dichloroethene	mg/kg		U (0.038)	U (0.039)	NR
1,1-Dichloroethane	mg/kg	12	U (0.038)	U (0.039)	NR
2-Butanone (MEK)	mg/kg		U (0.38)	U (0.39)	NR
2,2-Dichloropropane	mg/kg		U (0.038)	U (0.039)	NR
cis-1,2-Dichloroethene	mg/kg		U (0.038)	U (0.039)	NR
Bromochloromethane	mg/kg	0.35	U (0.038)	U (0.039)	NR
Chloroform	mg/kg	0.34	U (0.038)	U (0.039)	NR
1,1,1-Trichloroethane	mg/kg	1.0	U (0.038)	U (0.039)	NR
Carbon tetrachloride	mg/kg	0.03	0.0496	0.0442	NR
1,1-Dichloropropene	mg/kg		U (0.038)	U (0.039)	NR
Benzene	mg/kg	0.02	U (0.038)	U (0.039)	NR
1,2-Dichloroethane	mg/kg	0.015	U (0.038)	U (0.039)	NR
Trichloroethene	mg/kg		U (0.038)	U (0.039)	NR
1,2-Dichloropropane	mg/kg	0.017	U (0.038)	U (0.039)	NR
Dibromomethane	mg/kg		U (0.038)	U (0.039)	NR
Bromodichloromethane	mg/kg		U (0.038)	U (0.039)	NR
2-Chloroethyl Vinyl Ether	mg/kg		U (0.38)	U (0.39)	NR
cis-1,3-Dichloropropene	mg/kg		U (0.038)	U (0.039)	NR
4-Methyl-2-pentanone (MIBK)	mg/kg		U (0.38)	U (0.39)	NR
Toluene	mg/kg	5.4	U (0.038)	U (0.039)	NR
trans-1,3-Dichloropropene	mg/kg		U (0.038)	U (0.039)	NR
1,1,2-Trichloroethane	mg/kg	0.017	U (0.038)	U (0.039)	NR
Tetrachloroethene	mg/kg		U (0.038)	U (0.039)	NR
1,3-Dichloropropane	mg/kg		U (0.038)	U (0.039)	NR
2-Hexanone	mg/kg		U (0.38)	U (0.39)	NR

Table 6A-1 (Continued)

VOA Results by EPA Method 8260 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-020-SL (Site 4A/Area 4B)	Sample No. 99-GAM-021-SL (Site 4A/Area 4B)	Sample No. 99-GAM-022-SL (Site 4A/Area 4B)
Dibromochloromethane	mg/kg		U (0.038)	U (0.039)	NR
1,2-Dibromoethane	mg/kg		U (0.038)	U (0.039)	NR
Chlorobenzene	mg/kg	110	U (0.038)	U (0.039)	NR
1,1,1,2-Tetrachloroethane	mg/kg		U (0.038)	U (0.039)	NR
Ethylbenzene	mg/kg	5.5	U (0.038)	U (0.039)	NR
P&M-Xylene	mg/kg	78	U (0.038)	U (0.039)	NR
o-Xylene	mg/kg	78	U (0.038)	U (0.039)	NR
Styrene	mg/kg	1.3	U (0.038)	U (0.039)	NR
Bromoform	mg/kg	0.38	U (0.038)	U (0.039)	NR
Isopropylbenzene (Cumene)	mg/kg		U (0.038)	U (0.039)	NR
Bromobenzene	mg/kg		U (0.038)	U (0.039)	NR
1,1,2,2-Tetrachloroethane	mg/kg		U (0.038)	U (0.039)	NR
1,2,3-Trichloropropane	mg/kg		U (0.038)	U (0.039)	NR
n-Propylbenzene	mg/kg		U (0.038)	U (0.039)	NR
2-Chlorotoluene	mg/kg		U (0.038)	U (0.039)	NR
4-Chlorotoluene	mg/kg		U (0.038)	U (0.039)	NR
1,3,5-Trimethylbenzene	mg/kg		0.0481	0.0430	NR
tert-Butylbenzene	mg/kg		0.0405	0.0414	NR
1,2,4-Trimethylbenzene	mg/kg		U (0.038)	U (0.039)	NR
sec-Butylbenzene	mg/kg		U (0.038)	U (0.039)	NR
1,3-Dichlorobenzene	mg/kg		U (0.038)	U (0.039)	NR
4-Isopropyltoluene	mg/kg		0.0961	0.0998	NR
1,4-Dichlorobenzene	mg/kg	0.8	U (0.038)	U (0.039)	NR
1,2-Dichlorobenzene	mg/kg	7	U (0.038)	U (0.039)	NR
n-Butylbenzene	mg/kg		U (0.038)	U (0.039)	NR
1,2-Dibromo-3-chloropropane	mg/kg		U (0.38)	U (0.39)	NR
1,2,4-Trichlorobenzene	mg/kg	2	U (0.038)	U (0.039)	NR
Hexachlorobutadiene	mg/kg		U (0.038)	U (0.039)	NR
Naphthalene	mg/kg	43	0.382	0.371	NR
1,2,3-Trichlorobenzene	mg/kg		U (0.038)	U (0.039)	NR

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits are from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means that no limit is cited in 18 AAC 75.341.
 6. Samples 99-GAM-020-SL, 99-GAM-021-SL, and 99-GAM-022-SL are parts of a triplicate sample where 99-GAM-020 is the project sample, 99-GAM-021-SL is the quality control sample, and 99-GAM-022-SL is the quality assurance sample.
 7. Based on Modification No. 04P4, VOA analyses were not required for Sample No. 99-GAM-020-SL through 99-GAM-025-SL.
 8. "NR" means not run.

Table 6A-1 (Continued)

VOA Results by EPA Method 8260 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-023-SL (Site 4A/Area 4B)	Sample No. 99-GAM-024-SL (Site 4A/Area 4B)
Dichlorodifluoromethane	mg/kg		U (0.027)	U (0.022)
Chloromethane	mg/kg		U (0.027)	U (0.022)
Vinyl chloride	mg/kg		U (0.027)	U (0.022)
Bromomethane	mg/kg		U (0.27)	U (0.22)
Chloroethane	mg/kg		U (0.27)	U (0.22)
Trichlorofluoromethane	mg/kg		U (0.027)	U (0.022)
1,1-Dichloroethene	mg/kg		U (0.027)	U (0.022)
Carbon disulfide	mg/kg	17	U (0.27)	U (0.22)
Methylene chloride	mg/kg	0.015	0.164	0.141
trans-1,2-Dichloroethene	mg/kg		U (0.027)	U (0.022)
1,1-Dichloroethane	mg/kg	12	U (0.027)	U (0.022)
2-Butanone (MEK)	mg/kg		U (0.27)	U (0.22)
2,2-Dichloropropane	mg/kg		U (0.027)	U (0.022)
cis-1,2-Dichloroethene	mg/kg		U (0.027)	U (0.022)
Bromochloromethane	mg/kg	0.35	U (0.027)	U (0.022)
Chloroform	mg/kg	0.34	U (0.027)	U (0.022)
1,1,1-Trichloroethane	mg/kg	1.0	U (0.027)	U (0.022)
Carbon tetrachloride	mg/kg	0.03	U (0.027)	U (0.022)
1,1-Dichloropropene	mg/kg		U (0.027)	U (0.022)
Benzene	mg/kg	0.02	U (0.027)	U (0.022)
1,2-Dichloroethane	mg/kg	0.015	U (0.027)	U (0.022)
Trichloroethene	mg/kg		U (0.027)	U (0.022)
1,2-Dichloropropane	mg/kg	0.017	U (0.027)	U (0.022)
Dibromomethane	mg/kg		U (0.027)	U (0.022)
Bromodichloromethane	mg/kg		U (0.027)	U (0.022)
2-Chloroethyl Vinyl Ether	mg/kg		U (0.27)	U (0.22)
cis-1,3-Dichloropropene	mg/kg		U (0.027)	U (0.022)
4-Methyl-2-pentanone (MIBK)	mg/kg		U (0.27)	U (0.22)
Toluene	mg/kg	5.4	U (0.027)	U (0.022)
trans-1,3-Dichloropropene	mg/kg		U (0.027)	U (0.022)
1,1,2-Trichloroethane	mg/kg	0.017	U (0.027)	U (0.022)
Tetrachloroethene	mg/kg		U (0.027)	U (0.022)
1,3-Dichloropropane	mg/kg		U (0.027)	U (0.022)
2-Hexanone	mg/kg		U (0.27)	U (0.22)

Table 6A-1 (Continued)

VOA Results by EPA Method 8260 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-023-SL (Site 4A/Area 4B)	Sample No. 99-GAM-024-SL (Site 4A/Area 4B)
Dibromochloromethane	mg/kg		U (0.027)	U (0.022)
1,2-Dibromoethane	mg/kg		U (0.027)	U (0.022)
Chlorobenzene	mg/kg	110	U (0.027)	U (0.022)
1,1,1,2-Tetrachloroethane	mg/kg		U (0.027)	U (0.022)
Ethylbenzene	mg/kg	5.5	U (0.027)	U (0.022)
P&M-Xylene	mg/kg	78	U (0.027)	U (0.022)
o-Xylene	mg/kg	78	U (0.027)	U (0.022)
Stryrene	mg/kg	1.3	U (0.027)	U (0.022)
Bromoform	mg/kg	0.38	U (0.027)	U (0.022)
Isopropylbenzene (Cumene)	mg/kg		U (0.027)	U (0.022)
Bromobenzene	mg/kg		U (0.027)	U (0.022)
1,1,2,2-Tetrachloroethane	mg/kg		U (0.027)	U (0.022)
1,2,3-Trichloropropane	mg/kg		U (0.027)	U (0.022)
n-Propylbenzene	mg/kg		U (0.027)	U (0.022)
2-Chlorotoluene	mg/kg		U (0.027)	U (0.022)
4-Chlorotoluene	mg/kg		U (0.027)	U (0.022)
1,3,5-Trimethylbenzene	mg/kg		U (0.027)	U (0.022)
tert-Butylbenzene	mg/kg		U (0.027)	U (0.022)
1,2,4-Trimethylbenzene	mg/kg		U (0.027)	U (0.022)
sec-Butylbenzene	mg/kg		U (0.027)	U (0.022)
1,3-Dichlorobenzene	mg/kg		U (0.027)	U (0.022)
4-Isopropyltoluene	mg/kg		0.0327	U (0.022)
1,4-Dichlorobenzene	mg/kg	0.8	U (0.027)	U (0.022)
1,2-Dichlorobenzene	mg/kg	7	U (0.027)	U (0.022)
n-Butylbenzene	mg/kg		U (0.027)	U (0.022)
1,2-Dibromo-3-chloropropane	mg/kg		U (0.27)	U (0.22)
1,2,4-Trichlorobenzene	mg/kg	2	U (0.027)	U (0.022)
Hexachlorobutadiene	mg/kg		U (0.027)	U (0.022)
Naphthalene	mg/kg	43	U (0.027)	U (0.022)
1,2,3-Trichlorobenzene	mg/kg		U (0.027)	U (0.022)

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits are from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means that no limit is cited in 18 AAC 75.341.
 6. Numbers printed in boldface exceed regulatory limit.

Table 6A-1 (Continued)

VOA Results by EPA Method 8260 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-025-SL (Site 4A/Area 4B)	Sample No. 99-GAM-026-SL (Site 6)	Sample No. 99-GAM-027-SL Methanol Field Blank
Dichlorodifluoromethane	mg/kg		U (0.020)	U (0.014)	U (0.0262)
Chloromethane	mg/kg		U (0.020)	U (0.014)	U (0.0262)
Vinyl chloride	mg/kg		U (0.020)	U (0.014)	U (0.0262)
Bromomethane	mg/kg		U (0.20)	U (0.14)	U (0.262)
Chloroethane	mg/kg		U (0.20)	U (0.14)	U (0.262)
Trichlorofluoromethane	mg/kg		U (0.020)	U (0.014)	U (0.0262)
1,1-Dichloroethene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
Carbon disulfide	mg/kg	17	U (0.20)	U (0.14)	U (0.262)
Methylene chloride	mg/kg	0.015	U (0.10)	0.101	U (0.131)
trans-1,2-Dichloroethene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
1,1-Dichloroethane	mg/kg	12	U (0.020)	U (0.014)	U (0.0262)
2-Butanone (MEK)	mg/kg		U (0.20)	U (0.14)	U (0.262)
2,2-Dichloropropane	mg/kg		U (0.020)	U (0.014)	U (0.0262)
cis-1,2-Dichloroethene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
Bromochloromethane	mg/kg	0.35	U (0.020)	U (0.014)	U (0.0262)
Chloroform	mg/kg	0.34	U (0.020)	U (0.014)	U (0.0262)
1,1,1-Trichloroethane	mg/kg	1.0	U (0.020)	U (0.014)	U (0.0262)
Carbon tetrachloride	mg/kg	0.03	U (0.020)	U (0.014)	U (0.0262)
1,1-Dichloropropene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
Benzene	mg/kg	0.02	U (0.020)	U (0.014)	U (0.0262)
1,2-Dichloroethane	mg/kg	0.015	U (0.020)	U (0.014)	U (0.0262)
Trichloroethene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
1,2-Dichloropropane	mg/kg	0.017	U (0.020)	U (0.014)	U (0.0262)
Dibromomethane	mg/kg		U (0.020)	U (0.014)	U (0.0262)
Bromodichloromethane	mg/kg		U (0.020)	U (0.014)	U (0.0262)
2-Chloroethyl Vinyl Ether	mg/kg		U (0.20)	U (0.14)	U (0.262)
cis-1,3-Dichloropropene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
4-Methyl-2-pentanone (MIBK)	mg/kg		U (0.20)	U (0.14)	U (0.262)
Toluene	mg/kg	5.4	U (0.020)	U (0.014)	U (0.0262)
trans-1,3-Dichloropropene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
1,1,2-Trichloroethane	mg/kg	0.017	U (0.020)	U (0.014)	U (0.0262)
Tetrachloroethene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
1,3-Dichloropropane	mg/kg		U (0.020)	U (0.014)	U (0.0262)
2-Hexanone	mg/kg		U (0.20)	U (0.14)	U (0.262)

Table 6A-1 (Continued)

VOA Results by EPA Method 8260 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-025-SL (Site 4A/Area 4B)	Sample No. 99-GAM-026-SL (Site 6)	Sample No. 99-GAM-027-SL Methanol Field Blank
Dibromochloromethane	mg/kg		U (0.020)	U (0.014)	U (0.0262)
1,2-Dibromoethane	mg/kg		U (0.020)	U (0.014)	U (0.0262)
Chlorobenzene	mg/kg	110	U (0.020)	U (0.014)	U (0.0262)
1,1,1,2-Tetrachloroethane	mg/kg		U (0.020)	U (0.014)	U (0.0262)
Ethylbenzene	mg/kg	5.5	U (0.020)	U (0.014)	U (0.0262)
P&M-Xylene	mg/kg	78	U (0.020)	U (0.014)	U (0.0262)
o-Xylene	mg/kg	78	U (0.020)	U (0.014)	U (0.0262)
Styrene	mg/kg	1.3	U (0.020)	U (0.014)	U (0.0262)
Bromoform	mg/kg	0.38	U (0.020)	U (0.014)	U (0.0262)
Isopropylbenzene (Cumene)	mg/kg		U (0.020)	U (0.014)	U (0.0262)
Bromobenzene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
1,1,2,2-Tetrachloroethane	mg/kg		U (0.020)	U (0.014)	U (0.0262)
1,2,3-Trichloropropane	mg/kg		U (0.020)	U (0.014)	U (0.0262)
n-Propylbenzene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
2-Chlorotoluene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
4-Chlorotoluene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
1,3,5-Trimethylbenzene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
tert-Butylbenzene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
1,2,4-Trimethylbenzene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
sec-Butylbenzene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
1,3-Dichlorobenzene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
4-Isopropyltoluene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
1,4-Dichlorobenzene	mg/kg	0.8	U (0.020)	U (0.014)	U (0.0262)
1,2-Dichlorobenzene	mg/kg	7	U (0.020)	U (0.014)	U (0.0262)
n-Butylbenzene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
1,2-Dibromo-3-chloropropane	mg/kg		U (0.020)	U (0.014)	U (0.0262)
1,2,4-Trichlorobenzene	mg/kg	2	U (0.020)	U (0.014)	U (0.0262)
Hexachlorobutadiene	mg/kg		U (0.020)	U (0.014)	U (0.0262)
Naphthalene	mg/kg	43	U (0.020)	U (0.014)	U (0.0262)
1,2,3-Trichlorobenzene	mg/kg		U (0.020)	U (0.014)	U (0.0262)

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits are from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means that no limit is cited in 18 AAC 75.341.
 6. Numbers printed in boldface exceed regulatory limits.

Table 6A-2

VOA Results by EPA Method 8260 for Confirmation Samples
Debris Removal and Containerized Hazardous and Toxic Waste Removal
Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-028-SL Methanol Trip Blank
Dichlorodifluoromethane	mg/L		U (0.00100)
Chloromethane	mg/L		U (0.00100)
Vinyl chloride	mg/L	0.2	U (0.00100)
Bromomethane	mg/L		U (0.00100)
Chloroethane	mg/L		U (0.00100)
Trichlorofluoromethane	mg/L		U (0.00100)
1,1-Dichloroethene	mg/L		U (0.00100)
Carbon disulfide	mg/L		U (0.0100)
Methylene chloride	mg/L		U (0.00500)
trans-1,2-Dichloroethene	mg/L		U (0.00100)
1,1-Dichloroethane	mg/L	0.5	U (0.00100)
2-Butanone (MEK)	mg/L		U (0.0100)
2,2-Dichloropropane	mg/L		U (0.00100)
cis-1,2-Dichloroethene	mg/L		U (0.00100)
Bromochloromethane	mg/L		U (0.00100)
Chloroform	mg/L	6.0	U (0.00100)
1,1,1-Trichloroethane	mg/L		U (0.00100)
Carbon tetrachloride	mg/L		U (0.00100)
1,1-Dichloropropene	mg/L		U (0.00100)
Benzene	mg/L	0.5	U (0.00100)
1,2-Dichloroethane	mg/L	0.5	U (0.00100)
Trichloroethene	mg/L		U (0.00100)
1,2-Dichloropropane	mg/L		U (0.00100)
Dibromomethane	mg/L		U (0.00100)
Bromodichloromethane	mg/L		U (0.00100)
2-Chloroethyl Vinyl Ether	mg/L		U (0.0100)
cis-1,3-Dichloropropene	mg/L		U (0.00100)
4-Methyl-2-pentanone (MIBK)	mg/L		U (0.0100)
Toluene	mg/L		U (0.00100)
trans-1,3-Dichloropropene	mg/L		U (0.00100)
1,1,2-Trichloroethane	mg/L		U (0.00100)
Tetrachloroethene	mg/L		U (0.00100)
1,3-Dichloropropane	mg/L		U (0.00100)
2-Hexanone	mg/L		U (0.0100)

Table 6A-2 (Continued)

VOA Results by EPA Method 8260 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-028-SL Methanol Trip Blank
Dibromochloromethane	mg/L		U (0.00100)
1,2-Dibromoethane	mg/L		U (0.00100)
Chlorobenzene	mg/L	100.0	U (0.00100)
1,1,1,2-Tetrachloroethane	mg/L		U (0.00100)
Ethylbenzene	mg/L		U (0.00100)
P&M-Xylene	mg/L		U (0.00100)
o-Xylene	mg/L		U (0.00100)
Styrene	mg/L		U (0.00100)
Bromocform	mg/L		U (0.00100)
Isopropylbenzene (Cumene)	mg/L		U (0.00100)
Bromobenzene	mg/L		U (0.00100)
1,1,2,2-Tetrachloroethane	mg/L		U (0.00100)
1,2,3-Trichloropropane	mg/L		U (0.00100)
n-Propylbenzene	mg/L		U (0.00100)
2-Chlorotoluene	mg/L		U (0.00100)
4-Chlorotoluene	mg/L		U (0.00100)
1,3,5-Trimethylbenzene	mg/L		U (0.00100)
tert-Butylbenzene	mg/L		U (0.00100)
1,2,4-Trimethylbenzene	mg/L		U (0.00100)
sec-Butylbenzene	mg/L		U (0.00100)
1,3-Dichlorobenzene	mg/L		U (0.00100)
4-Isopropyltoluene	mg/L		U (0.00100)
1,4-Dichlorobenzene	mg/L		U (0.00100)
1,2-Dichlorobenzene	mg/L	7.5	U (0.00100)
n-Butylbenzene	mg/L		U (0.00100)
1,2-Dibromo-3-chloropropane	mg/L		U (0.00100)
1,2,4-Trichlorobenzene	mg/L		U (0.00100)
Hexachlorobutadiene	mg/L	0.5	U (0.00100)
Naphthalene	mg/L		U (0.00100)
1,2,3-Trichlorobenzene	mg/L		U (0.00100)

- Notes:
1. mg/L means milligrams per liter.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits are from 40 CFR 261.30, Table 1.
 5. Blank space in regulatory limits column means that no limit is cited in 20 CFR 261.30.

Table 6B

SVOA Results by EPA Method 8270 for Confirmation Samples
Debris Removal and Containerized Hazardous and Toxic Waste Removal
Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-009-SL (Site 12)	Sample No. 99-GAM-010-SL (Site 12)	Sample No. 99-GAM-011-SL (Site 12)
N-Nitrosodimethylamine	mg/kg		U (11)	U (0.35)	U (0.35)
Pyridine	mg/kg		U (11)	U (0.35)	U (0.35)
Aniline	mg/kg		U (11)	U (0.35)	U (0.35)
Phenol	mg/kg	67	U (11)	U (0.35)	U (0.35)
Bis(2-Chloroethyl)ether	mg/kg	0.002	U (11)	U (0.35)	U (0.35)
2-Chlorophenol	mg/kg	1.4	U (11)	U (0.35)	U (0.35)
1,3-Dichlorobenzene	mg/kg		U (11)	U (0.35)	U (0.35)
1,4-Dichlorobenzene	mg/kg	0.8	U (11)	U (0.35)	U (0.35)
Benzyl Alcohol	mg/kg		U (11)	U (0.35)	U (0.35)
1,2-Dichlorobenzene	mg/kg	7	U (11)	U (0.35)	U (0.35)
2-Methylphenol (o-Cresol)	mg/kg	7	U (11)	U (0.35)	U (0.35)
bis(2-chloroisopropyl)ether	mg/kg		U (11)	U (0.35)	U (0.35)
3&4-Methylphenol (p&m-Cresol)	mg/kg		U (11)	U (0.35)	U (0.35)
N-Nitroso-di-n-propylamine	mg/kg	0.00036	U (11)	U (0.35)	U (0.35)
Hexachloroethane	mg/kg	1.6	U (11)	U (0.35)	U (0.35)
Nitrobenzene	mg/kg	0.06	U (11)	U (0.35)	U (0.35)
Isophorone	mg/kg	3	U (11)	U (0.35)	U (0.35)
2-Nitrophenol	mg/kg		U (11)	U (0.35)	U (0.35)
2,4-Dimethylphenol	mg/kg	0.2	U (11)	U (0.35)	U (0.35)
Benzoic Acid	mg/kg	390	U (56)	U (1.8)	U (1.8)
Bis(2-Chloroethoxy)methane	mg/kg		U (11)	U (0.35)	U (0.35)
1,2,4-Trichlorobenzene	mg/kg	2	U (11)	U (0.35)	U (0.35)
Naphthalene	mg/kg	43	U (11)	U (0.35)	U (0.35)
4-Chloroaniline	mg/kg	0.5	U (22)	U (0.71)	U (0.71)
Hexachlorobutadiene	mg/kg		U (11)	U (0.35)	U (0.35)
4-Chloro-3-methylphenol	mg/kg		U (22)	U (0.71)	U (0.71)
2,4-Dichlorophenol	mg/kg		U (11)	U (0.35)	U (0.35)
2-Methylnaphthalene	mg/kg		U (11)	U (0.35)	U (0.35)
Hexachlorocyclopentadiene	mg/kg	0.45	U (11)	U (0.35)	U (0.35)
2,4,6-Trichlorophenol	mg/kg	0.6	U (11)	U (0.35)	U (0.35)
2,4,5-Trichlorophenol	mg/kg	90	U (11)	U (0.35)	U (0.35)
2-Chloronaphthalene	mg/kg		U (11)	U (0.35)	U (0.35)
2-Nitroaniline	mg/kg		U (56)	U (1.8)	U (1.8)
Dimethylphthalate	mg/kg		U (11)	U (0.35)	U (0.35)
Acenaphthylene	mg/kg		U (11)	U (0.35)	U (0.35)
2,6-Dinitrotoluene	mg/kg	0.0044	U (11)	U (0.35)	U (0.35)
3-Nitroaniline	mg/kg		U (56)	U (1.8)	U (1.8)

Table 6B (Continued)

SVOA Results by EPA Method 8270 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-009-SL (Site 12)	Sample No. 99-GAM-010-SL (Site 12)	Sample No. 99-GAM-011-SL (Site 12)
Acenaphthene	mg/kg		U (11)	U (0.35)	U (0.35)
2,4-Dinitrophenol	mg/kg	0.2	U (56)	U (1.8)	U (1.8)
4-Nitrophenol	mg/kg		U (56)	U (1.8)	U (1.8)
Dibenzofuran	mg/kg		U (11)	U (0.35)	U (0.35)
2,4-Dinitrotoluene	mg/kg	0.005	U (11)	U (0.35)	U (0.35)
Diethylphthalate	mg/kg		U (11)	U (0.35)	U (0.35)
4-Chlorophenyl-phenylether	mg/kg		U (11)	U (0.35)	U (0.35)
Fluorene	mg/kg	270	U (11)	U (0.35)	U (0.35)
4-Nitroaniline	mg/kg		U (11)	U (0.35)	U (0.35)
2-Methyl-4,6-dinitrophenol	mg/kg		U (56)	U (1.8)	U (1.8)
N-Nitrosodiphenylamine	mg/kg	3.4	U (11)	U (0.35)	U (0.35)
4-Bromophenyl-phenylether	mg/kg		U (11)	U (0.35)	U (0.35)
Hexachlorobenzene	mg/kg	0.73	U (11)	U (0.35)	U (0.35)
Pentachlorophenol	mg/kg	0.01	U (56)	U (1.8)	U (1.8)
Phenanthrene	mg/kg		U (11)	U (0.35)	U (0.35)
Anthracene	mg/kg	4,300	U (11)	U (0.35)	U (0.35)
Di-n-butylphthalate	mg/kg	1,700	U (11)	U (0.35)	U (0.35)
Fluoranthene	mg/kg	2,100	U (11)	U (0.35)	U (0.35)
Pyrene	mg/kg	1,500	U (11)	U (0.35)	U (0.35)
Azobenzene	mg/kg		U (11)	U (0.35)	U (0.35)
Butylbenzylphthalate	mg/kg	5,600	U (11)	U (0.35)	U (0.35)
3,3-Dichlorobenzidine	mg/kg	0.02	U (22)	U (0.71)	U (0.71)
Benzo(a)Anthracene	mg/kg	6	U (11)	U (0.35)	U (0.35)
Chrysene	mg/kg	620	U (11)	U (0.35)	U (0.35)
bis(2-Ethylhexyl)phthalate	mg/kg	1,200	U (11)	U (0.35)	U (0.35)
Di-n-octylphthalate	mg/kg	810,000	U (11)	U (0.35)	U (0.35)
Benzo[b]Fluoranthene	mg/kg	20	U (11)	U (0.35)	U (0.35)
Benzo[k]fluoranthene	mg/kg	200	U (11)	U (0.35)	U (0.35)
Benzo[a]pyrene	mg/kg	3	U (11)	U (0.35)	U (0.35)
Indeno[1,2,3-c,d]pyrene	mg/kg	54	U (11)	U (0.35)	U (0.35)
Dibenzo[a,h]anthracene	mg/kg	6	U (11)	U (0.35)	U (0.35)
Benzo[g,h,i]perylene	mg/kg		U (11)	U (0.35)	U (0.35)

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits obtained from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means no limit was cited in 18 AAC 75.341.

Table 6B (Continued)

SVOA Results by EPA Method 8270 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-012-SL (Site 8)	Sample No. 99-GAM-013-SL (Site 8)
N-Nitrosodimethylamine	mg/kg		U (0.32)	U (0.32)
Pyridine	mg/kg		U (0.32)	U (0.32)
Aniline	mg/kg		U (0.32)	U (0.32)
Phenol	mg/kg	67	U (0.32)	U (0.32)
Bis(2-Chloroethyl)ether	mg/kg	0.002	U (0.32)	U (0.32)
2-Chlorophenol	mg/kg	1.4	U (0.32)	U (0.32)
1,3-Dichlorobenzene	mg/kg		U (0.32)	U (0.32)
1,4-Dichlorobenzene	mg/kg	0.8	U (0.32)	U (0.32)
Benzyl Alcohol	mg/kg		U (0.32)	U (0.32)
1,2-Dichlorobenzene	mg/kg	7	U (0.32)	U (0.32)
2-Methylphenol (o-Cresol)	mg/kg	7	U (0.32)	U (0.32)
bis(2-chloroisopropyl)ether	mg/kg		U (0.32)	U (0.32)
3&4-Methylphenol (p&m-Cresol)	mg/kg		U (0.32)	U (0.32)
N-Nitroso-di-n-propylamine	mg/kg	0.00036	U (0.32)	U (0.32)
Hexachloroethane	mg/kg	1.6	U (0.32)	U (0.32)
Nitrobenzene	mg/kg	0.06	U (0.32)	U (0.32)
Isophorone	mg/kg	3	U (0.32)	U (0.32)
2-Nitrophenol	mg/kg		U (0.32)	U (0.32)
2,4-Dimethylphenol	mg/kg	0.2	U (0.32)	U (0.32)
Benzoic Acid	mg/kg	390	U (1.6)	U (1.6)
Bis(2-Chloroethoxy)methane	mg/kg		U (0.32)	U (0.32)
1,2,4-Trichlorobenzene	mg/kg	2	U (0.32)	U (0.32)
Naphthalene	mg/kg	43	U (0.32)	U (0.32)
4-Chloroaniline	mg/kg	0.5	U (0.65)	U (0.65)
Hexachlorobutadiene	mg/kg		U (0.32)	U (0.32)
4-Chloro-3-methylphenol	mg/kg		U (0.65)	U (0.65)
2,4-Dichlorophenol	mg/kg		U (0.32)	U (0.32)
2-Methylnaphthalene	mg/kg		U (0.32)	U (0.32)
Hexachlorocyclopentadiene	mg/kg	0.45	U (0.32)	U (0.32)
2,4,6-Trichlorophenol	mg/kg	0.6	U (0.32)	U (0.32)
2,4,5-Trichlorophenol	mg/kg	90	U (0.32)	U (0.32)
2-Chloronaphthalene	mg/kg		U (0.32)	U (0.32)
2-Nitroaniline	mg/kg		U (1.6)	U (1.6)
Dimethylphthalate	mg/kg		U (0.32)	U (0.32)
Acenaphthylene	mg/kg		U (0.32)	U (0.32)
2,6-Dinitrotoluene	mg/kg	0.0044	U (0.32)	U (0.32)
3-Nitroaniline	mg/kg		U (1.6)	U (1.6)

Table 6B (Continued)

SVOA Results by EPA Method 8270 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-012-SL (Site 8)	Sample No. 99-GAM-013-SL (Site 8)
Acenaphthene	mg/kg		U (0.32)	U (0.32)
2,4-Dinitrophenol	mg/kg	0.2	U (1.6)	U (1.6)
4-Nitrophenol	mg/kg		U (1.6)	U (1.6)
Dibenzofuran	mg/kg		U (0.32)	U (0.32)
2,4-Dinitrotoluene	mg/kg	0.005	U (0.32)	U (0.32)
Diethylphthalate	mg/kg		U (0.32)	U (0.32)
4-Chlorophenyl-phenylether	mg/kg		U (0.32)	U (0.32)
Fluorene	mg/kg	270	U (0.32)	U (0.32)
4-Nitroaniline	mg/kg		U (0.32)	U (0.32)
2-Methyl-4,6-dinitrophenol	mg/kg		U (1.6)	U (1.6)
N-Nitrosodiphenylamine	mg/kg	3.4	U (0.32)	U (0.32)
4-Bromophenyl-phenylether	mg/kg		U (0.32)	U (0.32)
Hexachlorobenzene	mg/kg	0.73	U (0.32)	U (0.32)
Pentachlorophenol	mg/kg	0.01	U (1.6)	U (1.6)
Phenanthrene	mg/kg		U (0.32)	U (0.32)
Anthracene	mg/kg	4,300	U (0.32)	U (0.32)
Di-n-butylphthalate	mg/kg	1,700	U (0.32)	U (0.32)
Fluoranthene	mg/kg	2,100	U (0.32)	U (0.32)
Pyrene	mg/kg	1,500	U (0.32)	U (0.32)
Azobenzene	mg/kg		U (0.32)	U (0.32)
Butylbenzylphthalate	mg/kg	5,600	U (0.32)	U (0.32)
3,3-Dichlorobenzidine	mg/kg	0.02	U (0.65)	U (0.65)
Benzo(a)Anthracene	mg/kg	6	U (0.32)	U (0.32)
Chrysene	mg/kg	620	U (0.32)	U (0.32)
bis(2-Ethylhexyl)phthalate	mg/kg	1,200	U (0.32)	U (0.32)
Di-n-octylphthalate	mg/kg	810,000	U (0.32)	U (0.32)
Benzo[b]Fluoranthene	mg/kg	20	U (0.32)	U (0.32)
Benzo[k]fluoranthene	mg/kg	200	U (0.32)	U (0.32)
Benzo[a]pyrene	mg/kg	3	U (0.32)	U (0.32)
Indeno[1,2,3-c,d]pyrene	mg/kg	54	U (0.32)	U (0.32)
Dibenzo[a,h]anthracene	mg/kg	6	U (0.32)	U (0.32)
Benzo[g,h,i]perylene	mg/kg		U (0.32)	U (0.32)

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits obtained from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means no limit was cited in 18 AAC 75.341.

Table 6B (Continued)

SVOA Results by EPA Method 8270 for Confirmation Samples
Debris Removal and Containerized Hazardous and Toxic Waste Removal
Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-014-SL (Site 4A/Area 4A)	Sample No. 99-GAM-015-SL (Site 4A/Area 4A)	Sample No. 99-GAM-016-SL (Site 4A/Area 4A)
N-Nitrosodimethylamine	mg/kg		U (9.1)	U (9.0)	U (1.200)
Pyridine	mg/kg		U (9.1)	U (9.0)	U (0.890)
Aniline	mg/kg		U (9.1)	U (9.0)	U (0.700)
Phenol	mg/kg	67	U (9.1)	U (9.0)	U (0.620)
Bis(2-Chloroethyl)ether	mg/kg	0.002	U (9.1)	U (9.0)	U (0.680)
2-Chlorophenol	mg/kg	1.4	U (9.1)	U (9.0)	U (0.650)
1,3-Dichlorobenzene	mg/kg		U (9.1)	U (9.0)	U (0.660)
1,4-Dichlorobenzene	mg/kg	0.8	U (9.1)	U (9.0)	U (0.580)
Benzyl Alcohol	mg/kg		U (9.1)	U (9.0)	U (0.920)
1,2-Dichlorobenzene	mg/kg	7	U (9.1)	U (9.0)	U (0.500)
2-Methylphenol (o-Cresol)	mg/kg	7	U (9.1)	U (9.0)	U (0.990)
bis(2-chloroisopropyl)ether	mg/kg		U (9.1)	U (9.0)	U (0.790)
3&4-Methylphenol (p&m-Cresol)	mg/kg		U (9.1)	U (9.0)	NR
N-Nitroso-di-n-propylamine	mg/kg	0.00036	U (9.1)	U (9.0)	U (0.750)
Hexachloroethane	mg/kg	1.6	U (9.1)	U (9.0)	U (0.850)
Nitrobenzene	mg/kg	0.06	U (9.1)	U (9.0)	U (0.590)
Isophorone	mg/kg	3	U (9.1)	U (9.0)	U (0.680)
2-Nitrophenol	mg/kg		U (9.1)	U (9.0)	U (0.900)
2,4-Dimethylphenol	mg/kg	0.2	U (9.1)	U (9.0)	U (0.590)
Benzoic Acid	mg/kg	390	U (46)	U (46)	U (1.200)
Bis(2-Chloroethoxy)methane	mg/kg		U (9.1)	U (9.0)	U (0.720)
1,2,4-Trichlorobenzene	mg/kg	2	U (9.1)	U (9.0)	U (0.680)
Naphthalene	mg/kg	43	U (9.1)	U (9.0)	U (0.620)
4-Chloroaniline	mg/kg	0.5	U (18)	U (18)	U (0.790)
Hexachlorobutadiene	mg/kg		U (9.1)	U (9.0)	U (1.700)
4-Chloro-3-methylphenol	mg/kg		U (18)	U (18)	U (0.940)
2,4-Dichlorophenol	mg/kg		U (9.1)	U (9.0)	U (0.960)
2-Methylnaphthalene	mg/kg		U (9.1)	U (9.0)	U (0.660)
Hexachlorocyclopentadiene	mg/kg	0.45	U (9.1)	U (9.0)	U (0.540)
2,4,6-Trichlorophenol	mg/kg	0.6	U (9.1)	U (9.0)	U (0.740)
2,4,5-Trichlorophenol	mg/kg	90	U (9.1)	U (9.0)	U (0.800)
2-Chloronaphthalene	mg/kg		U (9.1)	U (9.0)	U (0.520)
2-Nitroaniline	mg/kg		U (46)	U (46)	U (0.650)
Dimethylphthalate	mg/kg		U (9.1)	U (9.0)	U (0.540)
Acenaphthylene	mg/kg		U (9.1)	U (9.0)	U (0.710)
2,6-Dinitrotoluene	mg/kg	0.0044	U (9.1)	U (9.0)	U (0.910)
3-Nitroaniline	mg/kg		U (46)	U (46)	U (0.770)

Table 6B (Continued)

SVOA Results by EPA Method 8270 for Confirmation Samples
Debris Removal and Containerized Hazardous and Toxic Waste Removal
Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-014-SL (Site 4A)	Sample No. 99-GAM-015-SL (Site 4A)	Sample No. 99-GAM-016-SL (Site 4A)
Acenaphthene	mg/kg		U (9.1)	U (9.0)	U (0.610)
2,4-Dinitrophenol	mg/kg	0.2	U (46)	U (46)	U (0.570)
4-Nitrophenol	mg/kg		U (46)	U (46)	U (0.570)
Dibenzofuran	mg/kg		U (9.1)	U (9.0)	U (0.560)
2,4-Dinitrotoluene	mg/kg	0.005	U (9.1)	U (9.0)	U (0.690)
Diethylphthalate	mg/kg		U (9.1)	U (9.0)	U (0.460)
4-Chlorophenyl-phenylether	mg/kg		U (9.1)	U (9.0)	U (0.540)
Fluorene	mg/kg	270	U (9.1)	U (9.0)	U (0.470)
4-Nitroaniline	mg/kg		U (9.1)	U (9.0)	U (0.720)
2-Methyl-4,6-dinitrophenol	mg/kg		U (46)	U (46)	U (0.650)
N-Nitrosodiphenylamine	mg/kg	3.4	U (9.1)	U (9.0)	U (0.920)
4-Bromophenyl-phenylether	mg/kg		U (9.1)	U (9.0)	U (0.780)
Hexachlorobenzene	mg/kg	0.73	U (9.1)	U (9.0)	U (0.450)
Pentachlorophenol	mg/kg	0.01	U (46)	U (46)	U (0.800)
Phenanthrene	mg/kg		U (9.1)	U (9.0)	U (0.370)
Anthracene	mg/kg	4,300	U (9.1)	U (9.0)	U (0.580)
Di-n-butylphthalate	mg/kg	1,700	U (9.1)	U (9.0)	U (0.610)
Fluoranthene	mg/kg	2,100	U (9.1)	U (9.0)	U (0.520)
Pyrene	mg/kg	1,500	U (9.1)	U (9.0)	U (0.760)
Azobenzene	mg/kg		U (9.1)	U (9.0)	U (0.690)
Butylbenzylphthalate	mg/kg	5,600	U (9.1)	U (9.0)	NR
3,3-Dichlorobenzidine	mg/kg	0.02	U (18)	U (18)	U (8.600)
Benzo(a)Anthracene	mg/kg	6	U (9.1)	U (9.0)	U (0.590)
Chrysene	mg/kg	620	U (9.1)	U (9.0)	U (0.540)
bis(2-Ethylhexyl)phthalate	mg/kg	1,200	U (9.1)	U (9.0)	U (0.780)
Di-n-octylphthalate	mg/kg	810,000	U (9.1)	U (9.0)	U (0.540)
Benzo[b]Fluoranthene	mg/kg	20	U (9.1)	U (9.0)	U (0.610)
Benzo[k]fluoranthene	mg/kg	200	U (9.1)	U (9.0)	U (0.620)
Benzo[a]pyrene	mg/kg	3	U (9.1)	U (9.0)	U (0.550)
Indeno[1,2,3-c,d]pyrene	mg/kg	54	U (9.1)	U (9.0)	U (0.520)
Dibenzo[a,h]anthracene	mg/kg	6	U (9.1)	U (9.0)	U (0.570)
Benzo[g,h,i]perylene	mg/kg		U (9.1)	U (9.0)	U (0.570)

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits obtained from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means no limit was cited in 18 AAC 75.341.
 6. Samples 99-GAM-017-SL are parts of a triplicate sample where 99-GAM-014-SL in the project sample, 99-GAM-015-SL is the quality control sample and 99-GAM-016-SL is the quality assurance sample.
 7. "NR" means not run.

Table 6B (Continued)

SVOA Results by EPA Method 8270 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-017-SL (Site 4A/Area 4A)	Sample No. 99-GAM-018-SL (Site 4A/Area 4A)	Sample No. 99-GAM-019-SL (Site 4A/Area 4A)
N-Nitrosodimethylamine	mg/kg		U (0.34)	U (18)	U (8.4)
Pyridine	mg/kg		U (0.34)	U (18)	U (8.4)
Aniline	mg/kg		U (0.34)	U (18)	U (8.4)
Phenol	mg/kg	67	U (0.34)	U (18)	U (8.4)
Bis(2-Chloroethyl)ether	mg/kg	0.002	U (0.34)	U (18)	U (8.4)
2-Chlorophenol	mg/kg	1.4	U (0.34)	U (18)	U (8.4)
1,3-Dichlorobenzene	mg/kg		U (0.34)	U (18)	U (8.4)
1,4-Dichlorobenzene	mg/kg	0.8	U (0.34)	U (18)	U (8.4)
Benzyl Alcohol	mg/kg		U (0.34)	U (18)	U (8.4)
1,2-Dichlorobenzene	mg/kg	7	U (0.34)	U (18)	U (8.4)
2-Methylphenol (o-Cresol)	mg/kg	7	U (0.34)	U (18)	U (8.4)
bis(2-chloroisopropyl)ether	mg/kg		U (0.34)	U (18)	U (8.4)
3&4-Methylphenol (p&m-Cresol)	mg/kg		U (0.34)	U (18)	U (8.4)
N-Nitroso-di-n-propylamine	mg/kg	0.00036	U (0.34)	U (18)	U (8.4)
Hexachloroethane	mg/kg	1.6	U (0.34)	U (18)	U (8.4)
Nitrobenzene	mg/kg	0.06	U (0.34)	U (18)	U (8.4)
Isophorone	mg/kg	3	U (0.34)	U (18)	U (8.4)
2-Nitrophenol	mg/kg		U (0.34)	U (18)	U (8.4)
2,4-Dimethylphenol	mg/kg	0.2	U (0.34)	U (18)	U (8.4)
Benzoic Acid	mg/kg	390	U (1.7)	U (89)	U (43)
Bis(2-Chloroethoxy)methane	mg/kg		U (0.34)	U (18)	U (8.4)
1,2,4-Trichlorobenzene	mg/kg	2	U (0.34)	U (18)	U (8.4)
Naphthalene	mg/kg	43	U (0.34)	U (18)	U (8.4)
4-Chloroaniline	mg/kg	0.5	U (0.69)	U (36)	U (17)
Hexachlorobutadiene	mg/kg		U (0.34)	U (18)	U (8.4)
4-Chloro-3-methylphenol	mg/kg		U (0.69)	U (36)	U (17)
2,4-Dichlorophenol	mg/kg		U (0.34)	U (18)	U (8.4)
2-Methylnaphthalene	mg/kg		U (0.34)	U (18)	U (8.4)
Hexachlorocyclopentadiene	mg/kg	0.45	U (0.34)	U (18)	U (8.4)
2,4,6-Trichlorophenol	mg/kg	0.6	U (0.34)	U (18)	U (8.4)
2,4,5-Trichlorophenol	mg/kg	90	U (0.34)	U (18)	U (8.4)
2-Chloronaphthalene	mg/kg		U (0.34)	U (18)	U (8.4)
2-Nitroaniline	mg/kg		U (1.7)	U (89)	U (43)
Dimethylphthalate	mg/kg		U (0.34)	U (18)	U (8.4)
Acenaphthylene	mg/kg		U (0.34)	U (18)	U (8.4)
2,6-Dinitrotoluene	mg/kg	0.0044	U (0.34)	U (18)	U (8.4)
3-Nitroaniline	mg/kg		U (1.7)	U (89)	U (43)

Table 6B (Continued)

SVOA Results by EPA Method 8270 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-017-SL (Site 4A/Area 4A)	Sample No. 99-GAM-018-SL (Site 4A/Area 4A)	Sample No. 99-GAM-019-SL (Site 4A/Area 4A)
Acenaphthene	mg/kg		U (0.34)	U (18)	U (8.4)
2,4-Dinitrophenol	mg/kg	0.2	U (1.7)	U (89)	U (43)
4-Nitrophenol	mg/kg		U (1.7)	U (89)	U (43)
Dibenzofuran	mg/kg		U (0.34)	U (18)	U (43)
2,4-Dinitrotoluene	mg/kg	0.005	U (0.34)	U (18)	U (8.4)
Diethylphthalate	mg/kg		U (0.34)	U (18)	U (8.4)
4-Chlorophenyl-phenylether	mg/kg		U (0.34)	U (18)	U (8.4)
Fluorene	mg/kg	270	U (0.34)	U (18)	U (8.4)
4-Nitroaniline	mg/kg		U (0.34)	U (18)	U (8.4)
2-Methyl-4,6-dinitrophenol	mg/kg		U (1.7)	U (89)	U (43)
N-Nitrosodiphenylamine	mg/kg	3.4	U (0.34)	U (18)	U (8.4)
4-Bromophenyl-phenylether	mg/kg		U (0.34)	U (18)	U (8.4)
Hexachlorobenzene	mg/kg	0.73	U (0.34)	U (18)	U (8.4)
Pentachlorophenol	mg/kg	0.01	U (1.7)	U (89)	U (43)
Phenanthrene	mg/kg		U (0.34)	U (18)	U (8.4)
Anthracene	mg/kg	4,300	U (0.34)	U (18)	U (8.4)
Di-n-butylphthalate	mg/kg	1,700	U (0.34)	U (18)	U (8.4)
Fluoranthene	mg/kg	2,100	U (0.34)	17.4	U (8.4)
Pyrene	mg/kg	1,500	U (0.34)	25.2	U (8.4)
Azobenzene	mg/kg		U (0.34)	U (18)	U (8.4)
Butylbenzylphthalate	mg/kg	5,600	U (0.34)	U (18)	U (8.4)
3,3-Dichlorobenzidine	mg/kg	0.02	U (0.69)	U (36)	U (17)
Benzo(a)Anthracene	mg/kg	6	U (0.34)	U (18)	U (8.4)
Chrysene	mg/kg	620	U (0.34)	U (18)	U (8.4)
bis(2-Ethylhexyl)phthalate	mg/kg	1,200	U (0.34)	U (18)	U (8.4)
Di-n-octylphthalate	mg/kg	810,000	U (0.34)	U (18)	U (8.4)
Benzo[b]Fluoranthene	mg/kg	20	U (0.34)	21.4	U (8.4)
Benzo[k]fluoranthene	mg/kg	200	U (0.34)	U (18)	U (8.4)
Benzo[a]pyrene	mg/kg	3	U (0.34)	U (18)	U (8.4)
Indeno[1,2,3-c,d]pyrene	mg/kg	54	U (0.34)	U (18)	U (8.4)
Dibenzo[a,h]anthracene	mg/kg	6	U (0.34)	U (18)	U (8.4)
Benzo[g,h,i]perylene	mg/kg		U (0.34)	U (18)	U (8.4)

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. "NR" means not run by laboratory.
 4. Laboratory data sheets are provided in Appendix F.
 5. Regulatory limits obtained from 18 AAC 75.341, Table B1, Method 2.
 6. Blank space in regulatory limits column means no limit was cited in 18 AAC 75.341.

Table 6B (Continued)

SVOA Results by EPA Method 8270 for Confirmation Samples
Debris Removal and Containerized Hazardous and Toxic Waste Removal
Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-020-SL (Site 4A/Area 4B)	Sample No. 99-GAM-021-SL (Site 4A/Area 4B)	Sample No. 99-GAM-022-SL (Site 4A/Area 4B)
N-Nitrosodimethylamine	mg/kg		U (9.4)	U (3.5)	NR
Pyridine	mg/kg		U (9.4)	U (3.5)	NR
Aniline	mg/kg		U (9.4)	U (3.5)	NR
Phenol	mg/kg	67	U (9.4)	U (3.5)	NR
Bis(2-Chloroethyl)ether	mg/kg	0.002	U (9.4)	U (3.5)	NR
2-Chlorophenol	mg/kg	1.4	U (9.4)	U (3.5)	NR
1,3-Dichlorobenzene	mg/kg		U (9.4)	U (3.5)	NR
1,4-Dichlorobenzene	mg/kg	0.8	U (9.4)	U (3.5)	NR
Benzyl Alcohol	mg/kg		U (9.4)	U (3.5)	NR
1,2-Dichlorobenzene	mg/kg	7	U (9.4)	U (3.5)	NR
2-Methylphenol (o-Cresol)	mg/kg	7	U (9.4)	U (3.5)	NR
bis(2-chloroisopropyl)ether	mg/kg		U (9.4)	U (3.5)	NR
3&4-Methylphenol (p&m-Cresol)	mg/kg		U (9.4)	U (3.5)	NR
N-Nitroso-di-n-propylamine	mg/kg	0.00036	U (9.4)	U (3.5)	NR
Hexachloroethane	mg/kg	1.6	U (9.4)	U (3.5)	NR
Nitrobenzene	mg/kg	0.06	U (9.4)	U (3.5)	NR
Isophorone	mg/kg	3	U (9.4)	U (3.5)	NR
2-Nitrophenol	mg/kg		U (9.4)	U (3.5)	NR
2,4-Dimethylphenol	mg/kg	0.2	U (9.4)	U (3.5)	NR
Benzoic Acid	mg/kg	390	U (48)	U (18)	NR
Bis(2-Chloroethoxy)methane	mg/kg		U (9.4)	U (3.5)	NR
1,2,4-Trichlorobenzene	mg/kg	2	U (9.4)	U (3.5)	NR
Naphthalene	mg/kg	43	U (9.4)	U (3.5)	NR
4-Chloroaniline	mg/kg	0.5	U (19)	U (7.2)	NR
Hexachlorobutadiene	mg/kg		U (9.4)	U (3.5)	NR
4-Chloro-3-methylphenol	mg/kg		U (19)	U (7.2)	NR
2,4-Dichlorophenol	mg/kg		U (9.4)	U (3.5)	NR
2-Methylnaphthalene	mg/kg		U (0.69)	U (3.5)	NR
Hexachlorocyclopentadiene	mg/kg	0.45	U (9.4)	U (3.5)	NR
2,4,6-Trichlorophenol	mg/kg	0.6	U (9.4)	U (3.5)	NR
2,4,5-Trichlorophenol	mg/kg	90	U (9.4)	U (3.5)	NR
2-Chloronaphthalene	mg/kg		U (9.4)	U (3.5)	NR
2-Nitroaniline	mg/kg		U (48)	U (18)	NR
Dimethylphthalate	mg/kg		U (9.4)	U (3.5)	NR
Acenaphthylene	mg/kg		U (9.4)	U (3.5)	NR
2,6-Dinitrotoluene	mg/kg	0.0044	U (9.4)	U (3.5)	NR
3-Nitroaniline	mg/kg		U (48)	U (18)	NR

Table 6B (Continued)

SVOA Results by EPA Method 8270 for Confirmation Samples
Debris Removal and Containerized Hazardous and Toxic Waste Removal
Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-020-SL (Site 4A/Area 4B)	Sample No. 99-GAM-021-SL (Site 4A/Area 4B)	Sample No. 99-GAM-022-SL (Site 4A/Area 4B)
Acenaphthene	mg/kg		U (9.4)	U (3.5)	NR
2,4-Dinitrophenol	mg/kg	0.2	U (48)	U (18)	NR
4-Nitrophenol	mg/kg		U (48)	U (18)	NR
Dibenzofuran	mg/kg		U (9.4)	U (3.5)	NR
2,4-Dinitrotoluene	mg/kg	0.005	U (9.4)	U (3.5)	NR
Diethylphthalate	mg/kg		U (9.4)	U (3.5)	NR
4-Chlorophenyl-phenylether	mg/kg		U (9.4)	U (3.5)	NR
Fluorene	mg/kg	270	U (9.4)	U (3.5)	NR
4-Nitroaniline	mg/kg		U (9.4)	U (3.5)	NR
2-Methyl-4,6-dinitrophenol	mg/kg		U (48)	U (18)	NR
N-Nitrosodiphenylamine	mg/kg	3.4	U (9.4)	U (3.5)	NR
4-Bromophenyl-phenylether	mg/kg		U (9.4)	U (3.5)	NR
Hexachlorobenzene	mg/kg	0.73	U (9.4)	U (3.5)	NR
Pentachlorophenol	mg/kg	0.01	U (48)	U (18)	NR
Phenanthrene	mg/kg		U (9.4)	U (3.5)	NR
Anthracene	mg/kg	4,300	U (9.4)	U (3.5)	NR
Di-n-butylphthalate	mg/kg	1,700	U (9.4)	U (3.5)	NR
Fluoranthene	mg/kg	2,100	U (9.4)	U (3.5)	NR
Pyrene	mg/kg	1,500	U (9.4)	U (3.5)	NR
Azobenzene	mg/kg		U (9.4)	U (3.5)	NR
Butylbenzylphthalate	mg/kg	5,600	U (9.4)	U (3.5)	NR
3,3-Dichlorobenzidine	mg/kg	0.02	U (19)	U (7.2)	NR
Benzo(a)Anthracene	mg/kg	6	U (9.4)	U (3.5)	NR
Chrysene	mg/kg	620	U (9.4)	U (3.5)	NR
bis(2-Ethylhexyl)phthalate	mg/kg	1,200	U (9.4)	U (3.5)	NR
Di-n-octylphthalate	mg/kg	810,000	U (9.4)	U (3.5)	NR
Benzo[b]Fluoranthene	mg/kg	20	U (9.4)	U (3.5)	NR
Benzo[k]fluoranthene	mg/kg	200	U (9.4)	U (3.5)	NR
Benzo[a]pyrene	mg/kg	3	U (9.4)	U (3.5)	NR
Indeno[1,2,3-c,d]pyrene	mg/kg	54	U (9.4)	U (3.5)	NR
Dibenzo[a,h]anthracene	mg/kg	6	U (9.4)	U (3.5)	NR
Benzo[g,h,i]perylene	mg/kg		U (9.4)	U (3.5)	NR

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits obtained from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means no limit was cited in 18 AAC 75.341.
 6. Samples 99-GAM-023-SL are parts of a triplicate sample where 99-GAM-020-SL is the project sample, 99-GAM-021-SL is the quality control sample and 99-GAM-022-SL is the quality assurance sample.
 7. Based on Modification No. 04P4, SVOA analytes were not required for Sample No. 99-GAM-020-SL through 99-GAM-025-SL.
 8. "NR" means not run.

Table 6B (Continued)

SVOA Results by EPA Method 8270 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-023-SL (Site 4A/Area 4B)
N-Nitrosodimethylamine	mg/kg		U (0.33)
Pyridine	mg/kg		U (0.33)
Aniline	mg/kg		U (0.33)
Phenol	mg/kg	67	U (0.33)
Bis(2-Chloroethyl)ether	mg/kg	0.002	U (0.33)
2-Chlorophenol	mg/kg	1.4	U (0.33)
1,3-Dichlorobenzene	mg/kg		U (0.33)
1,4-Dichlorobenzene	mg/kg	0.8	U (0.33)
Benzyl Alcohol	mg/kg		U (0.33)
1,2-Dichlorobenzene	mg/kg	7	U (0.33)
2-Methylphenol (o-Cresol)	mg/kg	7	U (0.33)
bis(2-chloroisopropyl)ether	mg/kg		U (0.33)
3&4-Methylphenol (p&m-Cresol)	mg/kg		U (0.33)
N-Nitroso-di-n-propylamine	mg/kg	0.00036	U (0.33)
Hexachloroethane	mg/kg	1.6	U (0.33)
Nitrobenzene	mg/kg	0.06	U (0.33)
Isophorone	mg/kg	3	U (0.33)
2-Nitrophenol	mg/kg		U (0.33)
2,4-Dimethylphenol	mg/kg	0.2	U (0.33)
Benzoic Acid	mg/kg	390	U (1.7)
Bis(2-Chloroethoxy)methane	mg/kg		U (0.33)
1,2,4-Trichlorobenzene	mg/kg	2	U (0.33)
Naphthalene	mg/kg	43	U (0.33)
4-Chloroaniline	mg/kg	0.5	U (0.67)
Hexachlorobutadiene	mg/kg		U (0.33)
4-Chloro-3-methylphenol	mg/kg		U (0.67)
2,4-Dichlorophenol	mg/kg		U (0.33)
2-Methylnaphthalene	mg/kg		U (0.33)
Hexachlorocyclopentadiene	mg/kg	0.45	U (0.33)
2,4,6-Trichlorophenol	mg/kg	0.6	U (0.33)
2,4,5-Trichlorophenol	mg/kg	90	U (0.33)
2-Chloronaphthalene	mg/kg		U (0.33)
2-Nitroaniline	mg/kg		U (1.7)
Dimethylphthalate	mg/kg		U (0.33)
Acenaphthylene	mg/kg		U (0.33)
2,6-Dinitrotoluene	mg/kg	0.0044	U (0.33)
3-Nitroaniline	mg/kg		U (1.7)

Table 6B (Continued)

SVOA Results by EPA Method 8270 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-023-SL (Site 4A/Area 4B)
Acenaphthene	mg/kg		U (0.33)
2,4-Dinitrophenol	mg/kg	0.2	U (1.7)
4-Nitrophenol	mg/kg		U (1.7)
Dibenzofuran	mg/kg		U (0.33)
2,4-Dinitrotoluene	mg/kg	0.005	U (0.33)
Diethylphthalate	mg/kg		U (0.33)
4-Chlorophenyl-phenylether	mg/kg		U (0.33)
Fluorene	mg/kg	270	U (0.33)
4-Nitroaniline	mg/kg		U (0.33)
2-Methyl-4,6-dinitrophenol	mg/kg		U (1.7)
N-Nitrosodiphenylamine	mg/kg	3.4	U (0.33)
4-Bromophenyl-phenylether	mg/kg		U (0.33)
Hexachlorobenzene	mg/kg	0.73	U (0.33)
Pentachlorophenol	mg/kg	0.01	U (1.7)
Phenanthrene	mg/kg		U (0.33)
Anthracene	mg/kg	4,300	U (0.33)
Di-n-butylphthalate	mg/kg	1,700	U (0.33)
Fluoranthene	mg/kg	2,100	U (0.33)
Pyrene	mg/kg	1,500	U (0.33)
Azobenzene	mg/kg		U (0.33)
Butylbenzylphthalate	mg/kg	5,600	U (0.33)
3,3-Dichlorobenzidine	mg/kg	0.02	U (0.67)
Benzo(a)Anthracene	mg/kg	6	U (0.33)
Chrysene	mg/kg	620	U (0.33)
bis(2-Ethylhexyl)phthalate	mg/kg	1,200	0.384
Di-n-octylphthalate	mg/kg	810,000	U (0.33)
Benzo[b]Fluoranthene	mg/kg	20	U (0.33)
Benzo[k]fluoranthene	mg/kg	200	U (0.33)
Benzo[a]pyrene	mg/kg	3	U (0.33)
Indeno[1,2,3-c,d]pyrene	mg/kg	54	U (0.33)
Dibenzo[a,h]anthracene	mg/kg	6	U (0.33)
Benzo[g,h,i]perylene	mg/kg		U (0.33)

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits obtained from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means no limit was cited in 18 AAC 75.341.

Table 6B (Continued)

SVOA Results by EPA Method 8270 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-024-SL (Site 4A/Area 4B)	Sample No. 99-GAM-025-SL (Site 4A/Area 4B)	Sample No. 99-GAM-026-SL (Site 4A/Area 4B)
N-Nitrosodimethylamine	mg/kg		U (0.31)	U (0.33)	U (0.31)
Pyridine	mg/kg		U (0.31)	U (0.33)	U (0.31)
Aniline	mg/kg		U (0.31)	U (0.33)	U (0.31)
Phenol	mg/kg	67	U (0.31)	U (0.33)	U (0.31)
Bis(2-Chloroethyl)ether	mg/kg	0.002	U (0.31)	U (0.33)	U (0.31)
2-Chlorophenol	mg/kg	1.4	U (0.31)	U (0.33)	U (0.31)
1,3-Dichlorobenzene	mg/kg		U (0.31)	U (0.33)	U (0.31)
1,4-Dichlorobenzene	mg/kg	0.8	U (0.31)	U (0.33)	U (0.31)
Benzyl Alcohol	mg/kg		U (0.31)	U (0.33)	U (0.31)
1,2-Dichlorobenzene	mg/kg	7	U (0.31)	U (0.33)	U (0.31)
2-Methylphenol (o-Cresol)	mg/kg	7	U (0.31)	U (0.33)	U (0.31)
bis(2-chloroisopropyl)ether	mg/kg		U (0.31)	U (0.33)	U (0.31)
3&4-Methylphenol (p&m-Cresol)	mg/kg		U (0.31)	U (0.33)	U (0.31)
N-Nitroso-di-n-propylamine	mg/kg	0.00036	U (0.31)	U (0.33)	U (0.31)
Hexachloroethane	mg/kg	1.6	U (0.31)	U (0.33)	U (0.31)
Nitrobenzene	mg/kg	0.06	U (0.31)	U (0.33)	U (0.31)
Isophorone	mg/kg	3	U (0.31)	U (0.33)	U (0.31)
2-Nitrophenol	mg/kg		U (0.31)	U (0.33)	U (0.31)
2,4-Dimethylphenol	mg/kg	0.2	U (0.31)	U (0.33)	U (0.31)
Benzoic Acid	mg/kg	390	U (1.6)	U (1.7)	U (1.6)
Bis(2-Chloroethoxy)methane	mg/kg		U (0.31)	U (0.33)	U (0.31)
1,2,4-Trichlorobenzene	mg/kg	2	U (0.31)	U (0.33)	U (0.31)
Naphthalene	mg/kg	43	U (0.31)	U (0.33)	U (0.31)
4-Chloroaniline	mg/kg	0.5	U (0.63)	U (0.68)	U (0.64)
Hexachlorobutadiene	mg/kg		U (0.31)	U (0.33)	U (0.31)
4-Chloro-3-methylphenol	mg/kg		U (0.63)	U (0.68)	U (0.64)
2,4-Dichlorophenol	mg/kg		U (0.31)	U (0.33)	U (0.31)
2-Methylnaphthalene	mg/kg		U (0.31)	U (0.33)	U (0.31)
Hexachlorocyclopentadiene	mg/kg	0.45	U (0.31)	U (0.33)	U (0.31)
2,4,6-Trichlorophenol	mg/kg	0.6	U (0.31)	U (0.33)	U (0.31)
2,4,5-Trichlorophenol	mg/kg	90	U (0.31)	U (0.33)	U (0.31)
2-Chloronaphthalene	mg/kg		U (0.31)	U (0.33)	U (0.31)
2-Nitroaniline	mg/kg		U (1.6)	U (1.7)	U (1.6)
Dimethylphthalate	mg/kg		U (0.31)	U (0.33)	U (0.31)
Acenaphthylene	mg/kg		U (0.31)	U (0.33)	U (0.31)
2,6-Dinitrotoluene	mg/kg	0.0044	U (0.31)	U (0.33)	U (0.31)
3-Nitroaniline	mg/kg		U (1.6)	U (1.7)	U (1.6)

Table 6B (Continued)

SVOA Results by EPA Method 8270 for Confirmation Samples
Debris Removal and Containerized Hazardous and Toxic Waste Removal
Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-024-SL (Site 4A/Area 4B)	Sample No. 99-GAM-025-SL (Site 4A/Area 4B)	Sample No. 99-GAM-026-SL (Site 4A/Area 4B)
Acenaphthene	mg/kg		U (0.31)	U (0.33)	U (0.31)
2,4-Dinitrophenol	mg/kg	0.2	U (1.6)	U (1.7)	U (1.6)
4-Nitrophenol	mg/kg		U (1.6)	U (1.7)	U (1.6)
Dibenzofuran	mg/kg		U (0.31)	U (0.33)	U (0.31)
2,4-Dinitrotoluene	mg/kg	0.005	U (0.31)	U (0.33)	U (0.31)
Diethylphthalate	mg/kg		U (0.31)	U (0.33)	U (0.31)
4-Chlorophenyl-phenylether	mg/kg		U (0.31)	U (0.33)	U (0.31)
Fluorene	mg/kg	270	U (0.31)	U (0.33)	U (0.31)
4-Nitroaniline	mg/kg		U (0.31)	U (0.33)	U (0.31)
2-Methyl-4,6-dinitrophenol	mg/kg		U (1.6)	U (1.7)	U (1.6)
N-Nitrosodiphenylamine	mg/kg	3.4	U (0.31)	U (0.33)	U (0.31)
4-Bromophenyl-phenylether	mg/kg		U (0.31)	U (0.33)	U (0.31)
Hexachlorobenzene	mg/kg	0.73	U (0.31)	U (0.33)	U (0.31)
Pentachlorophenol	mg/kg	0.01	U (1.6)	U (1.7)	U (1.6)
Phenanthrene	mg/kg		U (0.31)	U (0.33)	U (0.31)
Anthracene	mg/kg	4,300	U (0.31)	U (0.33)	U (0.31)
Di-n-butylphthalate	mg/kg	1,700	U (0.31)	U (0.33)	U (0.31)
Fluoranthene	mg/kg	2,100	U (0.31)	U (0.33)	U (0.31)
Pyrene	mg/kg	1,500	U (0.31)	U (0.33)	U (0.31)
Azobenzene	mg/kg		U (0.31)	U (0.33)	U (0.31)
Butylbenzylphthalate	mg/kg	5,600	U (0.31)	U (0.33)	U (0.31)
3,3-Dichlorobenzidine	mg/kg	0.02	U (0.63)	U (0.68)	U (0.64)
Benzo(a)Anthracene	mg/kg	6	U (0.31)	U (0.33)	U (0.31)
Chrysene	mg/kg	620	U (0.31)	U (0.33)	U (0.31)
bis(2-Ethylhexyl)phthalate	mg/kg	1,200	U (0.31)	U (0.33)	U (0.31)
Di-n-octylphthalate	mg/kg	810,000	U (0.31)	U (0.33)	U (0.31)
Benzo[b]Fluoranthene	mg/kg	20	U (0.31)	U (0.33)	U (0.31)
Benzo[k]fluoranthene	mg/kg	200	U (0.31)	U (0.33)	U (0.31)
Benzo[a]pyrene	mg/kg	3	U (0.31)	U (0.33)	U (0.31)
Indeno[1,2,3-c,d]pyrene	mg/kg	54	U (0.31)	U (0.33)	U (0.31)
Dibenzo[a,h]anthracene	mg/kg	6	U (0.31)	U (0.33)	U (0.31)
Benzo[g,h,i]perylene	mg/kg		U (0.31)	U (0.33)	U (0.31)

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits obtained from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means no limit was cited in 18 AAC 75.341.

Table 6C

PCB Results by EPA Method 8082 for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

No.	Sample No.	Site	Aroclor-1016 mg/kg	Aroclor-1221 mg/kg	Aroclor-1232 mg/kg	Aroclor-1242 mg/kg	Aroclor-1248 mg/kg	Aroclor-1254 mg/kg	Aroclor-1260 mg/kg
1	99-GAM-009-SL	12	U (0.0477)	U (0.0477)	U (0.0477)	U (0.0477)	U (0.0477)	U (0.0477)	U (0.0477)
2	99-GAM-010-SL	12	U (0.0365)	U (0.0365)	U (0.0365)	U (0.0365)	U (0.0365)	U (0.0365)	U (0.0365)
3	99-GAM-011-SL	12	U (0.00353)	U (0.00353)	U (0.00353)	U (0.00353)	U (0.00353)	U (0.00353)	U (0.00353)
4	99-GAM-012-SL	8	U (0.00319)	U (0.00319)	U (0.00319)	U (0.00319)	U (0.00319)	U (0.00319)	U (0.00319)
5	99-GAM-013-SL	8	U (0.00329)	U (0.00329)	U (0.00329)	U (0.00329)	U (0.00329)	U (0.00329)	U (0.00329)
6	99-GAM-014-SL (1)	4A	U (0.00338)	U (0.00338)	U (0.00338)	U (0.00338)	U (0.00338)	U (0.00338)	0.0317
7	99-GAM-015-SL (1)	4A	U (0.00353)	U (0.00353)	U (0.00353)	U (0.00353)	U (0.00353)	U (0.00353)	0.0111
8	99-GAM-016-SL (1)	4A	U (0.0033)	U (0.0037)	U (0.0088)	U (0.013)	U (0.0089)	U (0.0038)	U (0.0020)
9	99-GAM-017-SL	4A	U (0.00325)	U (0.00325)	U (0.00325)	U (0.00325)	U (0.00325)	U (0.00325)	U (0.00325)
10	99-GAM-018-SL	4A	U (0.349)	U (0.349)	U (0.349)	U (0.349)	U (0.349)	U (0.349)	U (0.349)
11	99-GAM-019-SL	4A	U (0.0314)	U (0.0314)	U (0.0314)	U (0.0314)	U (0.0314)	U (0.0314)	U (0.0314)
12	99-GAM-020-SL (2)	4B	U (0.0390)	U (0.0390)	U (0.0390)	U (0.0390)	U (0.0390)	U (0.0390)	U (0.0390)
13	99-GAM-021-SL (2)	4B	U (0.0386)	U (0.0386)	U (0.0386)	U (0.0386)	U (0.0386)	U (0.0386)	U (0.0386)
14	99-GAM-022-SL (2)	4B	NR	NR	NR	NR	NR	NR	NR
15	99-GAM-023-SL	4B	U (0.00343)	U (0.00343)	U (0.00343)	U (0.00343)	U (0.00343)	U (0.00343)	U (0.00343)
16	99-GAM-024-SL	4B	U (0.00317)	U (0.00317)	U (0.00317)	U (0.00317)	U (0.00317)	U (0.00317)	U (0.00317)
17	99-GAM-025-SL	4B	U (0.00341)	U (0.00341)	U (0.00341)	U (0.00341)	U (0.00341)	U (0.00341)	U (0.00341)
18	99-GAM-026-SL	6	U (0.00326)	U (0.00326)	U (0.00326)	U (0.00326)	U (0.00326)	U (0.00326)	U (0.00326)
19	99-GAM-027-SL	MFB	NR	NR	NR	NR	NR	NR	NR
20	99-GAM-028-SL	MTB	NR	NR	NR	NR	NR	NR	NR
ADEC Regulatory Limit - 18 AAC 75.341, Table B1			1	1	1	1	1	1	1

- Notes:
1. Samples 99-GAM-017-SL are parts of a triplicate sample where 99-GAM-014-SL is the project sample, 99-GAM-015-SL is the quality control sample, and 99-GAM-016-SL is the quality assurance sample.
 2. Samples 99-GAM-023-SL are parts of a triplicate sample where 99-GAM-020-SL is the project sample, 99-GAM-021-SL is the quality control sample, and 99-GAM-022-SL is the quality assurance sample.
 3. mg/kg means milligrams per kilogram.
 4. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 5. "MFB" means methanol field blank.
 6. "MTB" means methanol trip blank.
 7. Laboratory data sheets are provided in Appendix F.
 8. Regulatory limits are from 18 AAC 75.341, Table B1, Method 2.
 9. Based on Note 9 for Table B1 in 18 AAC 75.341, PCB limit is 1 mg/kg for residential areas.
 10. "NR" means not run. (PCB analysis was not required for Sample Numbers 99-GAM-020-SL, 99-GAM-021-SL, and 99-GAM-022-SL for per Modification No. 04P4.

Table 6D

Pesticide Results by EPA Method 8081A for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-009-SL (Site 12)	Sample No. 99-GAM-010-SL (Site 12)	Sample No. 99-GAM-011-SL (Site 12)
alpha-BHC	mg/kg		U (0.00477)	U (0.00364)	U (0.000353)
beta-BHC	mg/kg		0.0921	0.0438	U (0.000353)
gamma-Chlordane	mg/kg		U (0.00477)	U (0.00364)	U (0.000353)
alpha-Chlordane	mg/kg		U (0.00477)	U (0.00364)	U (0.000353)
gamma-BHC (Lindane)	mg/kg		U (0.00477)	U (0.00364)	U (0.000353)
delta-BHC	mg/kg		0.00668	U (0.00364)	U (0.000353)
Heptachlor	mg/kg	8	U (0.00477)	U (0.00364)	U (0.000353)
Aldrin	mg/kg	1.6	U (0.00477)	U (0.00364)	U (0.000353)
Heptachlor epoxide	mg/kg	0.2	U (0.00477)	U (0.00364)	U (0.000353)
Endosulfan I	mg/kg		U (0.00477)	U (0.00364)	U (0.000353)
4,4'-DDE	mg/kg		U (0.00477)	U (0.00364)	U (0.000353)
Dieldrin	mg/kg	0.015	U (0.00477)	U (0.00364)	U (0.000353)
Endrin	mg/kg	0.3	U (0.00477)	U (0.00364)	U (0.000353)
Endosulfan II	mg/kg		U (0.00477)	U (0.00364)	U (0.000353)
4,4'-DDD	mg/kg		0.0100	U (0.00364)	0.000494
Endrin aldehyde	mg/kg		U (0.00477)	U (0.00364)	U (0.000353)
4,4'-DDT	mg/kg		0.00668	U (0.00364)	0.000953
Endosulfan sulfate	mg/kg		U (0.00477)	U (0.00364)	U (0.000353)
Endrin ketone	mg/kg		U (0.00477)	U (0.00364)	U (0.000353)
Methoxychlor	mg/kg	52	U (0.00477)	U (0.00364)	U (0.000353)
Toxaphene	mg/kg	10	U (0.477)	U (0.364)	U 0.0353

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits are from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means that no limit is cited in 18 AAC 75.341.

Table 6D (Continued)

**Pesticide Results by EPA Method 8081A for Confirmation Samples
Debris Removal and Containerized Hazardous and Toxic Waste Removal
Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
Sample Date: August 14, 1999**

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-012-SL (Site 8)	Sample No. 99-GAM-013-SL (Site 8)
alpha-BHC	mg/kg		U (0.00319)	U (0.000329)
beta-BHC	mg/kg		0.0332	U (0.000329)
gamma-Chlordane	mg/kg		U (0.00319)	U (0.000329)
alpha-Chlordane	mg/kg		U (0.00319)	U (0.000329)
gamma-BHC (Lindane)	mg/kg		U (0.00319)	U (0.000329)
delta-BHC	mg/kg		U (0.00319)	U (0.000329)
Heptachlor	mg/kg	8	U (0.00319)	U (0.000329)
Aldrin	mg/kg	1.6	U (0.00319)	U (0.000329)
Heptachlor epoxide	mg/kg	0.2	U (0.00319)	U (0.000329)
Endosulfan I	mg/kg		U (0.00319)	U (0.000329)
4,4'-DDE	mg/kg		U (0.00319)	U (0.000329)
Dieldrin	mg/kg	0.015	U (0.00319)	U (0.000329)
Endrin	mg/kg	0.3	U (0.00319)	U (0.000329)
Endosulfan II	mg/kg		U (0.00319)	U (0.000329)
4,4'-DDD	mg/kg		U (0.00319)	U (0.000329)
Endrin aldehyde	mg/kg		U (0.00319)	U (0.000329)
4,4'-DDT	mg/kg		U (0.00319)	U (0.000329)
Endosulfan sulfate	mg/kg		U (0.00319)	U (0.000329)
Endrin ketone	mg/kg		U (0.00319)	U (0.000329)
Methoxychlor	mg/kg	52	U (0.00319)	U (0.000329)
Toxaphene	mg/kg	10	U (0.319)	U (0.0329)

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits are from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means that no limit is cited in 18 AAC 75.341.

Table 6D (Continued)

Pesticide Results by EPA Method 8081A for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analyses	Units	Regulatory Limits	Sample No. 99-GAM-014-SL (Site 4A/Area 4B)	Sample No. 99-GAM-015-SL (Site 4A/Area 4B)	Sample No. 99-GAM-016-SL (Site 4A/Area 4B)
alpha-BHC	mg/kg		U (0.00507)	U (0.00177)	U (0.00020)
beta-BHC	mg/kg		U (0.00507)	U (0.00177)	U (0.00047)
gamma-Chlordane	mg/kg		U (0.00507)	U (0.00177)	NR
alpha-Chlordane	mg/kg		U (0.00507)	U (0.00177)	NR
gamma-BHC (Lindane)	mg/kg		U (0.00507)	U (0.00177)	U (0.00020)
delta-BHC	mg/kg		U (0.00507)	U (0.00177)	U (0.00020)
Heptachlor	mg/kg	8	U (0.00507)	U (0.00177)	U (0.00023)
Aldrin	mg/kg	1.6	U (0.00507)	U (0.00177)	U (0.00020)
Heptachlor epoxide	mg/kg	0.2	U (0.00507)	U (0.00177)	U (0.00020)
Endosulfan I	mg/kg		U (0.00507)	U (0.00177)	U (0.00020)
4,4'-DDE	mg/kg		U (0.00507)	U (0.00177)	U (0.00020)
Dieldrin	mg/kg	0.015	U (0.00507)	U (0.00177)	U (0.00020)
Endrin	mg/kg	0.3	U (0.00507)	U (0.00177)	U (0.00020)
Endosulfan II	mg/kg		U (0.00507)	U (0.00177)	U (0.00044)
4,4'-DDD	mg/kg		U (0.00507)	U (0.00177)	U (0.00024)
Endrin aldehyde	mg/kg		U (0.00507)	U (0.00177)	U (0.00021)
4,4'-DDT	mg/kg		U (0.00507)	U (0.00177)	U (0.00044)
Endosulfan sulfate	mg/kg		U (0.00507)	U (0.00177)	U (0.00021)
Endrin ketone	mg/kg		U (0.00507)	U (0.00177)	U (0.00021)
Methoxychlor	mg/kg	52	U (0.00507)	U (0.00177)	U (0.00076)
Toxaphene	mg/kg	10	U (0.507)	U (0.177)	U (0.0030)

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits are from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means that no limit is cited in 18 AAC 75.341.
 6. Samples 99-GAM-014-SL, 99-GAM-015-SL, and 99-GAM-016-SL are parts of a triplicate sample where 99-GAM-014 is the project sample, 99-GAM-015-SL is the quality control sample, and 99-GAM-016-SL is the quality assurance sample.
 7. Based on Modification No. 04P4, pesticide analyes were not required for Sample No. 99-GAM-020-SL through 99-GAM-025-SL.
 8. "NR" means not run.

Table 6D (Continued)

Pesticide Results by EPA Method 8081A for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-017-SL (Site 4A/Area 4B)	Sample No. 99-GAM-018-SL (Site 4A/Area 4B)	Sample No. 99-GAM-019-SL (Site 4A/Area 4B)
alpha-BHC	mg/kg		U (0.000325)	U (0.697)	U (0.0110)
beta-BHC	mg/kg		U (0.000325)	U (0.697)	U (0.0110)
gamma-Chlordane	mg/kg		U (0.000325)	U (0.697)	U (0.0110)
alpha-Chlordane	mg/kg		U (0.000325)	U (0.697)	U (0.0110)
gamma-BHC (Lindane)	mg/kg		U (0.000325)	U (0.697)	U (0.0110)
delta-BHC	mg/kg		U (0.000325)	U (0.697)	U (0.0110)
Heptachlor	mg/kg	8	U (0.000325)	U (0.697)	U (0.0110)
Aldrin	mg/kg	1.6	U (0.000325)	U (0.697)	U (0.0110)
Heptachlor epoxide	mg/kg	0.2	U (0.000325)	U (0.697)	U (0.0110)
Endosulfan I	mg/kg		U (0.000325)	U (0.697)	U (0.0110)
4,4'-DDE	mg/kg		U (0.000325)	U (0.697)	U (0.0110)
Dieldrin	mg/kg	0.015	U (0.000325)	U (0.697)	U (0.0110)
Endrin	mg/kg	0.3	U (0.000325)	U (0.697)	U (0.0110)
Endosulfan II	mg/kg		U (0.000325)	U (0.697)	U (0.0110)
4,4'-DDD	mg/kg		U (0.000325)	U (0.697)	U (0.0110)
Endrin aldehyde	mg/kg		U (0.000325)	U (0.697)	U (0.0110)
4,4'-DDT	mg/kg		0.000358	U (0.697)	U (0.0110)
Endosulfan sulfate	mg/kg		U (0.000325)	U (0.697)	U (0.0110)
Endrin ketone	mg/kg		U (0.000325)	U (0.697)	U (0.0110)
Methoxychlor	mg/kg	52	U (0.000325)	U (0.697)	U (0.0110)
Toxaphene	mg/kg	10	U (0.0325)	U (69.7)	U (1.10)

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits are from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means that no limit is cited in 18 AAC 75.341.

Table 6D (Continued)

**Pesticide Results by EPA Method 8081A for Confirmation Samples
Debris Removal and Containerized Hazardous and Toxic Waste Removal
Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
Sample Date: August 14, 1999**

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-020-SL (Site 4A/Area 4B)	Sample No. 99-GAM-021-SL (Site 4A/Area 4B)	Sample No. 99-GAM-022-SL (Site 4A/Area 4B)
alpha-BHC	mg/kg		U (0.0117)	U (0.0116)	NR
beta-BHC	mg/kg		U (0.0117)	U (0.0116)	NR
gamma-Chlordane	mg/kg		U (0.0117)	U (0.0116)	NR
alpha-Chlordane	mg/kg		U (0.0117)	U (0.0116)	NR
gamma-BHC (Lindane)	mg/kg		U (0.0117)	U (0.0116)	NR
delta-BHC	mg/kg		U (0.0117)	U (0.0116)	NR
Heptachlor	mg/kg	8	U (0.0117)	U (0.0116)	NR
Aldrin	mg/kg	1.6	U (0.0117)	U (0.0116)	NR
Heptachlor epoxide	mg/kg	0.2	U (0.0117)	U (0.0116)	NR
Endosulfan I	mg/kg		U (0.0117)	U (0.0116)	NR
4,4'-DDE	mg/kg		U (0.0117)	U (0.0116)	NR
Dieldrin	mg/kg	0.015	U (0.0117)	U (0.0116)	NR
Endrin	mg/kg	0.3	U (0.0117)	U (0.0116)	NR
Endosulfan II	mg/kg		U (0.0117)	U (0.0116)	NR
4,4'-DDD	mg/kg		U (0.0117)	U (0.0116)	NR
Endrin aldehyde	mg/kg		U (0.0117)	U (0.0116)	NR
4,4'-DDT	mg/kg		U (0.0117)	U (0.0116)	NR
Endosulfan sulfate	mg/kg		U (0.0117)	U (0.0116)	NR
Endrin ketone	mg/kg		U (0.0117)	U (0.0116)	NR
Methoxychlor	mg/kg	52	U (0.0117)	U (0.0116)	NR
Toxaphene	mg/kg	10	U (1.17)	U (1.16)	NR

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits are from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means that no limit is cited in 18 AAC 75.341.
 6. Samples 99-GAM-020-SL, 99-GAM-021-SL, and 99-GAM-022-SL are parts of a triplicate sample where 99-GAM-020 is the project sample, 99-GAM-021-SL is the quality control sample, and 99-GAM-022-SL is the quality assurance sample.
 7. Based on Modification No. 04P4, pesticide analyses were not required for Sample No. 99-GAM-020-SL through 99-GAM-025-SL.
 8. "NR" means not run.

Table 6D (Continued)

Pesticide Results by EPA Method 8081A for Confirmation Samples
 Debris Removal and Containerized Hazardous and Toxic Waste Removal
 Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
 Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-024-SL (Site 4B/Ares 4B)	Sample No. 99-GAM-025-SL (Site 4B/Ares 4B)	Sample No. 99-GAM-023-SL (Site 4B/Ares 4B)
alpha-BHC	mg/kg		U (0.000317)	U (0.000341)	U (0.00171)
beta-BHC	mg/kg		U (0.000317)	U (0.000341)	U (0.00171)
gamma-Chlordane	mg/kg		U (0.000317)	U (0.000341)	U (0.00171)
alpha-Chlordane	mg/kg		U (0.000317)	U (0.000341)	U (0.00171)
gamma-BHC (Lindane)	mg/kg		U (0.000317)	U (0.000341)	U (0.00171)
delta-BHC	mg/kg		U (0.000317)	U (0.000341)	U (0.00171)
Heptachlor	mg/kg	8	U (0.000317)	U (0.000341)	U (0.00171)
Aldrin	mg/kg	1.6	U (0.000317)	U (0.000341)	U (0.00171)
Heptachlor epoxide	mg/kg	0.2	U (0.000317)	U (0.000341)	U (0.00171)
Endosulfan I	mg/kg		U (0.000317)	U (0.000341)	U (0.00171)
4,4'-DDE	mg/kg		U (0.000317)	U (0.000341)	U (0.00171)
Dieldrin	mg/kg	0.015	U (0.000317)	U (0.000341)	U (0.00171)
Endrin	mg/kg	0.3	U (0.000317)	U (0.000341)	U (0.00171)
Endosulfan II	mg/kg		U (0.000317)	U (0.000341)	U (0.00171)
4,4'-DDD	mg/kg		U (0.000317)	U (0.000341)	U (0.00171)
Endrin aldehyde	mg/kg		U (0.000317)	U (0.000341)	U (0.00171)
4,4'-DDT	mg/kg		U (0.000317)	U (0.000341)	U (0.00171)
Endosulfan sulfate	mg/kg		U (0.000317)	U (0.000341)	U (0.00171)
Endrin ketone	mg/kg		U (0.000317)	U (0.000341)	U (0.00171)
Methoxychlor	mg/kg	52	U (0.000317)	U (0.000341)	U (0.00171)
Toxaphene	mg/kg	10	U (0.0317)	U (0.0341)	U (0.171)

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits are from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means that no limit is cited in 18 AAC 75.341.

Table 6D (Continued)

Pesticide Results by EPA Method 8081A for Confirmation Samples
Debris Removal and Containerized Hazardous and Toxic Waste Removal
Delivery Order 0004, Contract No. DACA85-97-D-0010, Gambell, Alaska
Sample Date: August 14, 1999

Analytes	Units	Regulatory Limits	Sample No. 99-GAM-026-SL (Site 6)
alpha-BHC	mg/kg		U (0.000326)
beta-BHC	mg/kg		U (0.000326)
gamma-Chlordane	mg/kg		U (0.000326)
alpha-Chlordane	mg/kg		U (0.000326)
gamma-BHC (Lindane)	mg/kg		U (0.000326)
delta-BHC	mg/kg		U (0.000326)
Heptachlor	mg/kg	8	U (0.000326)
Aldrin	mg/kg	1.6	U (0.000326)
Heptachlor epoxide	mg/kg	0.2	U (0.000326)
Endosulfan I	mg/kg		U (0.000326)
4,4'-DDE	mg/kg		U (0.000326)
Dieldrin	mg/kg	0.015	U (0.000326)
Endrin	mg/kg	0.3	U (0.000326)
Endosulfan II	mg/kg		U (0.000326)
4,4'-DDD	mg/kg		U (0.000326)
Endrin aldehyde	mg/kg		U (0.000326)
4,4'-DDT	mg/kg		U (0.000326)
Endosulfan sulfate	mg/kg		U (0.000326)
Endrin ketone	mg/kg		U (0.000326)
Methoxychlor	mg/kg	52	U (0.000326)
Toxaphene	mg/kg	10	U (0.0326)

- Notes:
1. mg/kg means milligrams per kilogram.
 2. "U" means undetected. The number in parenthesis is the laboratory detection limit.
 3. Laboratory data sheets are provided in Appendix F.
 4. Regulatory limits are from 18 AAC 75.341, Table B1, Method 2.
 5. Blank space in regulatory limits column means that no limit is cited in 18 AAC 75.341.

Appendix F
Chain of Custody and Laboratory Data Reports

993654

Chain of Custody

Project: **Debris Removal & Containerized Hazardous & Toxic Waste Removal**
Gambell, Alaska Contract No: **DACA85-97-D-0010, Delivery Order #4**

Client: **Oil Spill Consultants, Inc.**
The Environmental Cleanup Company
209 E. 51st. Avenue, Anchorage, Alaska 99503
Tel: (907) 562-7169 Fax: (907) 562-7225

Authorization Number: **USC Purchase Order No. 913**

Samplers: **Randy E Easley**
 (Signature) *[Signature]*
 Witness: **David L. Rain**
 (Signature) *[Signature]*

Analysis Required by: _____

Analysis Required

Field Screen	Sample Number	Sample Date	P.M. Time	PID Reading	Type	# of Cont.	GRO-AK101	DRO-AK102	RRO-AK103	TCLP Metals-1311, 7060, 6010, 7196, 7470, 7760, & 7740	Flash Point/PH - EPA 1020 & 9045	PCBs, Herbicides, Pesticides - EPA - 1311, 8082, 8081, & 8150	VOA, Semi-VOA - EPA 1311, 8260, & 8270	Dioxin - EPA 8290	QA/QC Required
①	99-GAM-001-SL	7-19-99	2:45		Soil	2	✓	✓	✓	✓	✓	✓	✓		III
②	99-GAM-002-SL	7-19-99	3:22		Soil	2	✓	✓	✓	✓	✓	✓	✓		III
③	99-GAM-003-SL	7-19-99	3:35		Soil	2	✓	✓	✓	✓	✓	✓	✓		III
④	99-GAM-004-SL	7-19-99	6:00		Soil	2	✓	✓	✓	✓	✓	✓	✓		III
⑤	99-GAM-005-SL	7-20-99	8:30		Soil	6	✓	✓	✓	✓	✓	✓	✓	✓	III

Relinquished by: (Printed) **Randy E Easley**
 (Signature) *[Signature]* Date **7/20/99** Time **9:53**

Relinquished by: (Printed) _____
 (Signature) _____

Dispatched by: (Printed) _____
 (Signature) _____

Method of Shipment: **Hand Delivered**

Comments: _____

Received by: (Printed) _____
 (Signature) _____

Received by: (Printed) _____
 (Signature) _____

Received at Laboratory by: **Arvita Phillips** Date **7/21/99** Time **1550**

Condition of Containers: _____ Received Temp: **2.3**

Good Fair Poor



CT&E Environmental Services Inc.

SAMPLE RECEIPT FORM

993654

CT&E WO#:

Yes	No
_____	<input checked="" type="checkbox"/>
_____	<input checked="" type="checkbox"/>
_____	<input checked="" type="checkbox"/>
_____	<input checked="" type="checkbox"/>
_____	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	_____

Are samples **RUSH**, priority, or *within 72 hrs of hold time*?
 If yes, have you done *e-mail notification*?
 Are samples *within 24 hrs of hold time or due date*?
 If yes, have you *spoken with Supervisor*?
 Are there any **problems** (e.g., ids, analyses)?
 Were samples preserved correctly and pH verified?

_____	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	_____
<input checked="" type="checkbox"/>	_____
_____	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	_____
_____	<input checked="" type="checkbox"/>

Has Project Manager been notified of problems?
 Is this an ACOE/AFCEE/ADEC project?
 Will a **data package** be required?
 If this is for PWS, provide **PWSID**.
 Is there a **quote** for this project?
 Will **courier** charges apply?

Completed by (sign): Sarita Phillips (print): Sarita Phillips

*** The following *must* be completed for all ACOE & AFCEE projects: ***

Yes	No	Notes:
<input checked="" type="checkbox"/>	_____	_____
_____	<input checked="" type="checkbox"/>	_____
<input checked="" type="checkbox"/>	_____	_____
<input checked="" type="checkbox"/>	_____	_____
<input checked="" type="checkbox"/>	_____	_____
<input checked="" type="checkbox"/>	_____	_____
<input checked="" type="checkbox"/>	_____	_____
<input checked="" type="checkbox"/>	_____	_____
<input checked="" type="checkbox"/>	_____	_____
<input checked="" type="checkbox"/>	_____	_____
<input checked="" type="checkbox"/>	_____	_____
<input checked="" type="checkbox"/>	_____	_____
<input checked="" type="checkbox"/>	<u>N/A</u>	_____
<input checked="" type="checkbox"/>	_____	_____

Is cooler temperature $4 \pm C$? 2.3
 thermometer used: CT&E 3
 Was there an airbill, etc? note #: _____
 Was cooler sealed with custody seals? Front corners
 #/where?
 Were seals intact upon arrival?
 Was there a COC with cooler?
 Was the COC filled out properly?
 Did the COC indicate ACOE/AFCEE project?
 Did the COC and samples correspond?
 Were samples screened with Geiger counter?
 Were all samples packed to prevent breakage?
 packing material: Bubble wrap
 Were all samples unbroken and clearly labelled?
 Were all samples sealed in separate plastic bags?
 Were all bottles for volatiles free of headspace?
 Were correct container/sample sizes submitted?
 Was client notified of problems? (specify below)

Individual contacted:
 Date & Time:

Phone/Fax #:

Due Date: 8/4
Received Date/Time: 7/21 1550
Cooler Temperature: 2.3
Sample Condition: Good / Poor
Matrix of each Sample:
2 " " 1-5
 " " _____
 " " _____
 " " _____
 " " _____
 Trip Blank _____
2 MS/MSD -(on sample 5) 6,7
Additional Sample Remarks:
 AK101s/_____ 8260s field pres'd?
 Field-filtered for dissolved _____?
 Lab-filter for dissolved _____?
 Ref Lab required?
Notes: _____

of each Container Received:

_____	950 ml amber	unpres'd
_____	950 ml amber	w/ HCl
_____	500 ml amber	w/ H2SO4
_____	1L cubies	unpres'd
_____	1L cubies	w/ HNO3
_____	1L cubies	w/ H2SO4
_____	1L cubies	w/ NaOH + ZnAc
_____	120 ml coli	bottles
_____	60 ml	Nalg
<u>8</u>	8 oz amber	unpres'd
_____	4 oz amber	unpres'd
<u>6</u>	4 oz w/ septa	w/ MeOH
_____	40 ml vials	w/ HCl
_____	Other (specify)	_____
_____	Other (specify)	_____

#/Log In Proofed by:



CT&E Environmental Services Inc.

Laboratory Division

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301

Oil Spill Consultants

attention: Randy Easley
209 E 51st
Anchorage, AK 99503

Account: Oil Spill Consultants
Contact: Randy Easley

Project: Gambell DACA85-97-D-0010 DO 4
Received: 07/21/99 15:50

CT&E Ref#: 99.3654
Print Date: 08/20/99 10:59

Work order 99.3654 was analyzed for Dioxins
by Triangle Laboratories of Durham, NC 27713-4411



CT&E Environmental Services Inc.
Laboratory Division

CHAIN OF CUSTODY RECORD

Locations N

- Alaska
- California
- Colorado
- Maryland
- Michigan
- New Jersey
- Ohio
- West Virginia

1 CLIENT: CT&E AK CONTACT: Heath Hall PHONE NO: (907) 562-2343 PROJECT: DAMASS-17-A-AMBI-001 Campbell AK REPORTS TO: J.W. Potter D - FAX NO: (907) 561-5301 INVOICE TO: Anchorage AK 99518 P.O. NUMBER: R490722					CT&E Reference: _____ PAGE 1 OF 1				
2					3				
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No.	SAMPLE TYPE	Preservatives Used	Analysis Required	REMARKS
	91-3654-5	7/20/11	10:30	soil	1				99-GAM-005-SL
5					4				
Collected/Relinquished By: (1) Heather Judd		Date 7/22/11	Time 10:00	Received By:		Shipping Carrier: FedEx Shipping Ticket No: 8100321011109		Samples Received Cold? (Circle) YES NO Temperature °C:	
Relinquished By: (2)		Date	Time	Received By:		Data Deliverables Required (USACE) Level I Level II Level III		Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT	
Relinquished By: (3)		Date	Time	Received By:		Requested Turnaround Time and Special Instructions: std 21 day TAT			
Relinquished By: (4)		Date 7/24/11	Time 10:00	Received For Laboratory By: Bill Hunt					

13

Chain of Custody

Project: Debris Removal & Containerized Hazardous & Toxic Waste Removal Gambell, Alaska Contract No: DACA85-97-D-0010, Delivery Order #4	Authorization Number: OSCI Purchase Order No. 913
Client: Oil Spill Consultants, Inc. The Environmental Cleanup Company 209 E. 51st. Avenue, Anchorage, Alaska 99503 Tel: (907) 562-7169 Fax: (907) 562-7225	Samplers: <i>Randy E Esley</i> (Signature) <i>[Signature]</i> Witness: MICHAEL S. CHILBERTO (Signature) <i>[Signature]</i>

Analysis Required by: _____

Field Screen	Sample Number	Sample Date	Time	PID Reading	Type	# of Cont.	Analysis Required										QA / QC Required	
							GRO-AK101	DRO-AK102	RRO-AK103	TCLP Metals-1311, 7060, 6010, 7196, 7470, 7760, & 7740	Flash Point/PH - EPA 1020 & 9045	PCBs, Herbicides, Pesticides - EPA - 1311, 8082, 8081, & 8150	VOA, Semi-VOA - EPA 1311, 8260, & 8270	Dioxin - EPA 8290				
①	99-GAM-006-W	7-28-99	1:00		W	1												III
②	99-GAM-007-W	7-28-99	1:15		W	1												III
③	99-GAM-008-W	7-28-99	1:30		W	1												III

Relinquished by: (Printed) <i>Randy E Esley</i> (Signature) <i>[Signature]</i>	Date: <i>7-30-99</i>	Time: <i>3:57</i>	Received by: (Printed) (Signature)
Relinquished by: (Printed) (Signature)			Received by: (Printed) (Signature)
Dispatched by: (Printed) (Signature)			Received at Laboratory by: <i>Tara Howell</i> <i>7-30-99</i> <i>Tara Howell</i> <i>1537</i>
Method of Shipment: <i>Hand Delivered</i> Comments:			Condition of Containers: <input checked="" type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor Received Temp: <i>2.0°C</i>

993834

Chain of Custody

Project: **Debris Removal & Containerized Hazardous & Toxic Waste Removal**
Gambell, Alaska Contract No: **DACA85-97-D-0010, Delivery Order #4**

Authorization Number: **OSCI Purchase Order No. 913**

Client: **Oil Spill Consultants, Inc.**
The Environmental Cleanup Company
 209 E. 51st. Avenue, Anchorage, Alaska 99503
 Tel: (907) 562-7169 Fax: (907) 562-7225

Samplers: **Randy E. Easley**

(Signature) *Randy E. Easley*

Witness: **David L. Rein**

(Signature) *David L. Rein*

994255

Analysis Required by: _____

Analysis Required

Field Screen	Sample Number	Sample Date	Time	PID Reading	Type	# of Cont.	AK101 EPA 8260	AK102 AK103	EPA 8270	8081	8082	TCLP Metals	Dioxin EPA 8290	QA / QC Required
	99-GAM-009-SL	8-14-99	12:10		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-010-SL	8-14-99	12:20		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-011-SL	8-14-99	12:30		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-012-SL	8-14-99	11:29		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-013-SL	8-14-99	11:40		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-014-SL	8-14-99	2:40		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-015-SL	8-14-99	2:40		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-017-SL	8-14-99	3:15		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-018-SL	8-14-99	3:30		Grab	2	✓	✓	✓	✓	✓	✓		III
	99-GAM-019-SL	8-14-99	3:45		Grab	2	✓	✓	✓	✓	✓	✓		III

Relinquished by: (Printed) **Randy E. Easley** Date **4-35-99** Time **8-18-99**

(Signature) *Randy E. Easley*

Relinquished by: (Printed) _____

(Signature) _____

Dispatched by: (Printed) _____

(Signature) _____

Received by: (Printed) _____

(Signature) _____

Received at Laboratory by: **550m Tara Howell 1635**
8-18-99

Condition of Containers _____ Received Temp: **5.5°C**

Good Fair Poor

Method of Shipment: _____

Comments: **Hand Delivered by Randy Easley**

Chain of Custody

Project: **Debris Removal & Containerized Hazardous & Toxic Waste Removal**
Gambell, Alaska Contract No: **DACA85-97-D-0010, Delivery Order #4**

Authorization Number: _____ **OSCI Purchase Order No. 913**

Client: **Oil Spill Consultants, Inc.**
The Environmental Cleanup Company
 209 E. 51st. Avenue, Anchorage, Alaska 99503
 Tel: (907) 562-7169 Fax: (907) 562-7225

Samplers: **Randy E. Easley**
 (Signature) *Randy E. Easley*
 Witness: *David L. Rein*
 (Signature) *David L. Rein*

994255

Analysis Required by: _____

Analysis Required

Field Screen	Sample Number	Sample Date	Time	PID Reading	Type	# of Cont.	Analysis Required								QA / QC Required
							AK101 EPA 8260	AK102 AK103	EPA 8270	EPA 8081	EPA 8082	TCLP Metals	Dioxin EPA 8290		
	99-GAM-020-SL	8-14-99	4:30		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	III
	99-GAM-021-SL	8-14-99	4:30		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	III
	99-GAM-023-SL	8-14-99	4:45		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	III
	99-GAM-024-SL	8-14-99	5:00		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	III
	99-GAM-025-SL	8-14-99	5:30		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	III
	99-GAM-026-SL	8-14-99	6:47		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	III
	99-GAM-027-SL	8-14-99	6:55		Grab	1	✓		✓	✓					II
	99-GAM-028-SL	8-14-99	7:00		Grab	1	✓		✓	✓					II

Relinquished by: (Printed) *Randy E. Easley* Date / Time
 (Signature) *Randy E. Easley* 8-18-99 4:35

Received by: (Printed) _____
 (Signature) _____

Relinquished by: (Printed) _____
 (Signature) _____

Received by: (Printed) _____
 (Signature) _____

Dispatched by: (Printed) _____
 (Signature) _____

Received at Laboratory by: *Ara Howell* 1635
Ara Howell 8-18-99

Method of Shipment: _____
 Comments: _____

Condition of Containers Received Temp: *5.5°C*

Comments: *Hand Delivered by Randy E. Easley*

Good Fair Poor

Chain of Custody

Project: **Debris Removal & Containerized Hazardous & Toxic Waste Removal**
Gambell, Alaska Contract No: DACA85-97-D-0010, Delivery Order #4

Authorization Number: **OSCI Purchase Order No. 913**

Client: **Oil Spill Consultants, Inc.**
The Environmental Cleanup Company
 209 E. 51st. Avenue, Anchorage, Alaska 99503
 Tel: (907) 562-7169 Fax: (907) 562-7225

Samplers: **Randy E. Easley**

(Signature) *Randy E. Easley*

Witness: *David L. Reja*

(Signature) *David L. Reja*

Analysis Required by: _____

Delivery Order No 0004
DACA85-97-D-0010

Analysis Required

Field Screen	Sample Number	Sample Date	Time	PID Reading	Type	# of Cont.	Analysis Required										QA / QC Required
							AK 101 EPA 8260	AK 102 AK 103	EPA 8270	EPA 8081	EPA 8082	TCLP Metals	Dioxin EPA 8290				
	<i>99-GAM-016-SL</i>	<i>8-14-99</i>	<i>2:40</i>		<i>Grab</i>	<i>2</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<i>III</i>	
	<i>99-GAM-022-SL</i>	<i>8-14-99</i>	<i>4:30</i>		<i>Grab</i>	<i>3</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<i>III</i>	

Relinquished by: (Printed) *Randy E. Easley* Date *8-18-99* Time *4:21*
 (Signature) *Randy E. Easley*

Received by: (Printed) _____
 (Signature) _____

Relinquished by: (Printed) _____
 (Signature) _____

Received by: (Printed) _____
 (Signature) _____

Dispatched by: (Printed) _____
 (Signature) _____

Received at Laboratory by: *Robert E. George III*

Method of Shipment: _____
 Comments: _____

Condition of Containers _____ Received Temp: *5.6°C*

Hand Delivered by Randy Easley

Good Fair Poor



SAMPLE RECEIPT FORM

994255

CT&E WO#:

Yes	No	Are samples RUSH , priority, or <i>within 72 hrs of hold time</i> ?
<u> </u>	<u> X </u>	If yes, have you done <i>e-mail notification</i> ?
<u> </u>	<u> X </u>	Are samples <i>within 24 hrs of hold time</i> or due date ?
<u> </u>	<u> X </u>	If yes, have you <i>spoken with Supervisor</i> ?
<u> X </u>	<u> </u>	Are there any problems (e.g., ids, analyses)?
		Were samples preserved correctly and pH verified?

<u> </u>	<u> X </u>	Has Project Manager been notified of problems?
<u> X </u>	<u> X </u>	Is this an ACOE/AFCEE/ADEC project?
<u> </u>	<u> X </u>	Will a data package be required? <u>level III</u>
<u> X </u>	<u> </u>	If this is for PWS, provide PWSID .
<u> </u>	<u> X </u>	Is there a quote for this project?
<u> </u>	<u> X </u>	Will courier charges apply?

Completed by (sign): Tara Howell (print): Tara Howell

*** The following must be completed for all ACOE & AFCEE projects: ***

Yes	No	Notes:
<u> X </u>	<u> </u>	Is cooler temperature 4 ± C? <u>5.5°C</u>
		thermometer used: <u>CTE3</u>
<u> X </u>	<u> X </u>	Was there an airbill, etc? note #: <u>hand carry</u>
<u> X </u>	<u> </u>	Was cooler sealed with custody seals? <u>one front, one back</u>
		#/where?
<u> X </u>	<u> </u>	Were seals intact upon arrival?
<u> X </u>	<u> </u>	Was there a COC with cooler?
<u> X </u>	<u> </u>	Was the COC filled out properly?
	<u> X </u>	Did the COC indicate ACOE/AFCEE project?
<u> X </u>	<u> </u>	Did the COC and samples correspond?
<u> X </u>	<u> </u>	Were samples screened with Geiger counter?
<u> X </u>	<u> </u>	Were all samples packed to prevent breakage?
		packing material: <u>bubblewrap</u>
<u> X </u>	<u> </u>	Were all samples unbroken and clearly labelled?
	<u> X </u>	Were all samples sealed in separate plastic bags?
<u> N/A </u>	<u> </u>	Were all bottles for volatiles free of headspace?
<u> X </u>	<u> </u>	Were correct container/sample sizes submitted?
		Was client notified of problems? (specify below)

Individual contacted: _____
 Date & Time: _____ Phone/Fax #: _____

Due Date: 8-31-99
Received Date/Time: 8-18-99 1635
Cooler Temperature: 5.5°C
Sample Condition: Good / Poor
Matrix of each Sample:
2 " " -17/-18
 " " _____
 " " _____
 " " _____
2/1 Trip Blank -17/-18
 MS/MSD _____

Additional Sample Remarks:
Yes AK101s/_____ 8260s field pres'd?
 Field-filtered for dissolved _____?
 Lab-filter for dissolved _____?
 Ref Lab required? _____

Notes: Sample #s 11-15 are high, esp. for DDT/PCB.

of each Container Received:

_____	950 ml amber	unpres'd
_____	950 ml amber	w/ HCl
_____	500 ml amber	w/ H2SO4
_____	1L cubies	unpres'd
_____	1L cubies	w/ HNO3
_____	1L cubies	w/ H2SO4
_____	1L cubies	w/ NaOH + ZnAc
_____	120 ml coli	bottles
_____	60 ml	Nalg
<u>21</u>	8 oz amber	unpres'd
_____	4 oz amber	unpres'd
<u>17</u>	4 oz w/ septa	w/ MeOH
_____	40 ml vials	w/ HCl
_____	Other (specify)	_____
_____	Other (specify)	_____

#/Log In Proofed by: _____

QUANTERRA SAMPLE RECEIPT CHECKLIST

Quanterra (Alaska) Project #: _____ Date / Time Received: 8/18/99, 16:21

Client Name & Sampling Site ID: USACOE

Cooler temperature requirements: No samples frozen and temperature not above 6°C.

If requirements not met then initiate a Condition Upon Receipt form.

Cooler ID(s) and temperature(s): 6.0°C²¹⁵ 5.6°C

Yes	No	Does not Apply		Initials
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Custody seals present and intact, COMMENT IF "NO".	<u>REK</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Chain-of-Custody present, COMMENT IF "NO".	<u>REK</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a. Chain-of-custody includes "relinquished by" and "received by" signatures, dates and times, COMMENT IF "NO".	<u>REK</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. Sample containers labeled, COMMENT IF "NO".	<u>REK</u>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Chain-of-custody agrees with labels, COMMENT IF "NO".	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5. Chain-of-custody agrees with bottle count, COMMENT IF "NO".	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. Analyses with short holding times required.	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	7. VOA containers received with zero headspace, COMMENT IF "NO".	<u>REK</u>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a. VOA container labels indicate preservation.	_____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. Sample containers are in good order (free of leaks, breaks and appear unfrozen), COMMENT IF "NO".	<u>REK</u>

PHOTOGRAPH BROKEN AND FROZEN CONTAINERS

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9. Samples received are homogeneous single-phase, COMMENT IF "NO".	_____
--------------------------	--------------------------	--------------------------	--	-------

PHOTOGRAPH MULTIPHASE SAMPLES

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10. Extra sample volume provided for matrix spike and matrix duplicate.	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11. Aqueous phase samples are clean of sediment, COMMENT IF "NO".	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12. pH of appropriate samples checked and documented on the chain-of-custody, COMMENT IF "NO".	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13. Clear picture taken, labeled and stapled to project folder.	_____

Comments (include action taken to resolve discrepancies / problems): _____

Chain of Custody

Project: Debris Removal & Containerized Hazardous & Toxic Waste Removal
 Gambell, Alaska **Contract No:** DACA85-97-D-0010, Delivery Order #4

Authorization Number: OSCI Purchase Order No. 913

Client:
Oil Spill Consultants, Inc.
 The Environmental Cleanup Company
 209 E. 51st. Avenue, Anchorage, Alaska 99503
 Tel: (907) 562-7169 Fax: (907) 562-7225

Samplers: Randy E. Easley

(Signature) *Randy E. Easley*

Witness: *David L. Rein*

(Signature) *David L. Rein*

994282

Analysis Required by: _____

Analysis Required

Field Screen	Sample Number	Sample Date	Time	PID Reading	Type	# of Cont.	AK101	EPA 8260	AK102	AK103	EPA 8270	EPA 8081	EPA 8082	TCLP Metals	Dioxin	EPA 8290	QA/QC Required
①	99-GAM-020-SL	8-14-99	4:30		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	✓		III
②	99-GAM-021-SL	8-14-99	4:30		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	✓		III
③	99-GAM-023-SL	8-14-99	4:45		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	✓		III
④	99-GAM-024-SL	8-14-99	5:00		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	✓		III
⑤	99-GAM-025-SL	8-14-99	5:30		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	✓		III
⑬	99-GAM-026-SL	8-14-99	6:47		Grab	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	REC	III
⑭	99-GAM-027-SL	8-14-99	6:55		Grab	1	✓		✓	✓			REC				II
⑮	99-GAM-028-SL	8-14-99	7:00		Grab	1	✓		✓	✓			REC				II

Relinquished by: (Printed) *Randy E. Easley*
 (Signature) *Randy E. Easley*

Date / Time
 8-18-99 4:35

Received by: (Printed)
 (Signature)

Relinquished by: (Printed)
 (Signature)

Received by: (Printed)
 (Signature)

Dispatched by: (Printed)
 (Signature)

Received at Laboratory by: *Jana Howell* 1635
Jana Howell 8-18-99

Method of Shipment:
 Comments:

Condition of Containers Received Temp: 55°C
 Good Fair Poor

Hand Delivered by Randy E. Easley



SAMPLE RECEIPT FORM

99428

4

CT&E WO#:

Yes/No columns with handwritten 'X' marks for various questions.

Are samples RUSH, priority, or within 72 hrs of hold time?
If yes, have you done e-mail notification?
Are samples within 24 hrs of hold time or due date?
If yes, have you spoken with Supervisor?
Are there any problems (e.g., ids, analyses)?
Were samples preserved correctly and pH verified?

Yes/No columns with handwritten 'X' marks for questions about project manager notification and data package requirements.

Has Project Manager been notified of problems?
Is this an ACOE/AFCEE/ADEC project?
Will a data package be required? level III
If this is for PWS, provide PWSID.
Is there a quote for this project?
Will courier charges apply?

Completed by (sign): [Signature] (print): Tara Howell
*** The following must be completed for all ACOE & AFCEE projects: ***

Yes/No columns with handwritten 'X' marks for questions about cooler temperature, airbill, seals, and sample handling.

Is cooler temperature 4 +/- C? 5.5 C
thermometer used: CTE3
Was there an airbill, etc? note #: hand camp
Was cooler sealed with custody seals? #/where? one front, one back
Were seals intact upon arrival?
Was there a COC with cooler?
Was the COC filled out properly?
Did the COC indicate ACOE/AFCEE project?
Did the COC and samples correspond?
Were samples screened with Geiger counter?
Were all samples packed to prevent breakage? packing material: bubblewrap
Were all samples unbroken and clearly labelled?
Were all samples sealed in separate plastic bags?
Were all bottles for volatiles free of headspace?
Were correct container/sample sizes submitted?
Was client notified of problems? (specify below)

Due Date: 8-31-99
Received Date/Time: 8-18-99 1635
Cooler Temperature: 5.5 C
Sample Condition: Good / Poor
Matrix of each Sample: 1, 2, ...

2/1 Trip Blank -17/18
MS/MSD
Additional Sample Remarks:
AK101s/ 8260s field pres'd?
Field-filtered for dissolved?
Lab-filter for dissolved?
Ref Lab required?

Notes: Sample #s 11-15 are high, esp. for DEAPED.
1-5 are 11-15
see w/s under 99-1293

of each Container Received:
950 ml amber unpres'd
950 ml amber w/ HCl
500 ml amber w/ H2SO4
1L cubies unpres'd
1L cubies w/ HNO3
1L cubies w/ H2SO4
1L cubies w/ NaOH + ZnAc
120 ml coli bottles
60 ml Nalg
8 oz amber unpres'd
4 oz amber unpres'd
4 oz w/ septa w/ MeOH
40 ml vials w/ HCl
Other (specify)
Other (specify)

Individual contacted:
Date & Time: 8/19/99 15140 Phone/Fax #:

#/Log In Proofed by:

CHAIN OF CUSTODY RECORD

- Locations: Alaska Michigan
 California New Jersey
 Colorado Ohio
 Maryland West Virginia



CT&E Environmental Services Inc.
 Laboratory Division

① CLIENT: CT&E AK					CT&E Reference: Triangle			PAGE 1 OF 1	
CONTACT: Heather Hall		PHONE NO: 907 562 2343			CONTAINERS No. SAMPLE TYPE Preservatives Used Analysis Required ③ 8290 DICKING				
PROJECT:		SITE:							
REPORTS TO:		200 W Potter Dr							
INVOICE TO: Anchorage AK 99518		FAX NO: 907 561 5301							
P.O. NUMBER:		REMARKS: Client led!							
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	CONTAINERS	SAMPLE TYPE	PRESERVATIVES USED	ANALYSIS REQUIRED	REMARKS
	99.4255-11	8/14/99	4:30	soil	1	G	X		99-GAM-Φ2Φ-SL
	↓ 12	↓	4:30	↓	↓	↓	↓	↓	Φ21
	↓ 13	↓	4:45	↓	↓	↓	↓	↓	Φ23
	↓ 14	↓	5:00	↓	↓	↓	↓	↓	Φ24
	↓ 15	↓	5:30	↓	↓	↓	↓	↓	Φ25
⑤ Relinquished By: (1) Heather Hall Date: 8/19/99 Time: 0800					④ Shipping Carrier: FedEx				
Relinquished By: (2)					Samples Received Cold? (Circle) YES NO				
Relinquished By: (3)					Temperature °C:				
Relinquished By: (4)					Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT				
Received By: <i>[Signature]</i>					Data Deliverables Required: USACE				
Received For Laboratory By:					Level I Level II Level III				
Requested Turnaround Time and Special Instructions:					Batch QC only; not site specific. 21 day TAT See quote - earlier sample 99.3654				

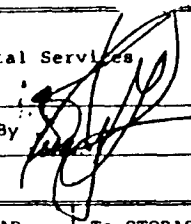
TRIANGLE LABORATORIES, INC. LOG IN RECORD/CHAIN OF CUSTODY

Custody Seal : Absent
 Chain of Custody : Present
 Sample Tags : Absent
 Sample Tag Numbers: Not Listed on Chain of Custody
 SMO Forms : N/A

Sample Seals: Absent
 Container...: Intact

TLI Project Number 49337
 Client: CTE06 - CT & E Environmental Services

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 244
 Page
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Date Received 08/21/99 By

Carrier and Number FedEx/

ICE Temp 5.0 C

TLI Number MP/H:CPM	Client Sample ID Client CQC ID	Matrix Location	To LAB Date/Init	To STORAGE Date/Init	To LAB Date/Init	To STORAGE Date/Init	To LAB Date/Init	To STORAGE Date/Init	To LAB Date/Init	To STORAGE Date/Init	DISPOSED Date/Init
244-42-1	99.4255-11 99.4255-11	SOIL C01	9000 8/22/99	9000 8/22/99	CT 8/29/99	CT 8/29/99					
244-42-2	99.4255-12 99.4255-12	SOIL C01									
244-42-3	99.4255-13 99.4255-13	SOIL C01									
244-42-4	99.4255-14 99.4255-14	SOIL C01									
244-42-5	99.4255-15 99.4255-15	SOIL C01	9000 8/22/99	9000 8/22/99	CT 8/29/99	CT 8/29/99					

Receiving Remarks:

Archive Remarks:



CT&E Ref.# 993654001
Client Name Oil Spill Consultants
Project Name/# Gambell DACA85-97-D-0010 DO 4
Client Sample ID 99-GAM-001-SL
Matrix Soil/Solid
Ordered By
PWSID

Client PO# 913
Printed Date/Time 08/20/99 10:47
Collected Date/Time 07/19/99 14:45
Received Date/Time 07/21/99 15:50
Technical Director: Stephen C. Ede

Released By

Handwritten signature

Sample Remarks:

1311/8151 - Sample analyzed for TCLP Herbicides by CT&E ESI of Charleston, WV.
DRO/RRO - Pattern consistent with lube oil.
DRO/RRO - Surrogate recoveries outside controls due to matrix interference.
8081- LCS/LCSD RPD for gamma-chlordane, heptachlor, aldrin and 4,4'-DDE is biased high. Results for these compounds are estimated.
8260 - Surrogate BFB recovery biased high. Results should not be affected.

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Total Solids, Toxicity Characteristics (Aqueous, Oil, Solid Phase), and TCLP Metals (Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver).



CT&E Ref.# 993654001
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-001-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:47
 Collected Date/Time 07/19/99 14:45
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Fuels Department Analyses								
Ignitability Seta Flash	GT 200 F			SW846 1020	140 min		08/03/99	CMO
Toxicity Extractions								
pH, Soil	6.32		pH units	SW846-9045	2-12.5		07/30/99	BJJ
VOA by GC/MS Method SW8260								
Benzene	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/03/99	08/03/99	MCM
Carbon tetrachloride	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/03/99	08/03/99	MCM
Chlorobenzene	0.10 U	0.10	mg/L	TCLP 8260	100 max	08/03/99	08/03/99	MCM
Chloroform	0.10 U	0.10	mg/L	TCLP 8260	6 max	08/03/99	08/03/99	MCM
1,4-Dichlorobenzene	0.10 U	0.10	mg/L	TCLP 8260	7.5 max	08/03/99	08/03/99	MCM
1,2-Dichloroethane	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/03/99	08/03/99	MCM
1,1-Dichloroethene	0.10 U	0.10	mg/L	TCLP 8260	.7 max	08/03/99	08/03/99	MCM
2-Butanone (MEK)	0.50 U	0.50	mg/L	TCLP 8260	200 max	08/03/99	08/03/99	MCM
Tetrachloroethene	0.10 U	0.10	mg/L	TCLP 8260	.7 max	08/03/99	08/03/99	MCM
Trichloroethene	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/03/99	08/03/99	MCM
Vinyl chloride	0.10 U	0.10	mg/L	TCLP 8260	.2 max	08/03/99	08/03/99	MCM
Surrogates								
1,2-Dichloroethane-D4 <surrr>	110		%	TCLP 8260	(68-125)	08/03/99	08/03/99	
Dibromofluoromethane <surrr>	102		%	TCLP 8260	(91-113)	08/03/99	08/03/99	
Toluene-d8 <surrr>	102		%	TCLP 8260	(93-113)	08/03/99	08/03/99	
4-Bromofluorobenzene <Surr>	! 123		%	TCLP 8260	(87-111)	08/03/99	08/03/99	



CT&E Ref.# 993654001
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-001-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:47
 Collected Date/Time 07/19/99 14:45
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
TCLP Semi-Volatile Organics								
2-Methylphenol (o-Cresol)	0.017 U	0.017	mg/L	TCLP 8270	200 max	07/27/99	07/30/99	LZ
3&4-Methylphenol (p&m-Cresol)	0.017 U	0.017	mg/L	TCLP 8270	200 max	07/27/99	07/30/99	LZ
2,4-Dinitrotoluene	0.017 U	0.017	mg/L	TCLP 8270	.13 max	07/27/99	07/30/99	LZ
Hexachlorobenzene	0.017 U	0.017	mg/L	TCLP 8270	.13 max	07/27/99	07/30/99	LZ
Hexachlorobutadiene	0.017 U	0.017	mg/L	TCLP 8270	.5 max	07/27/99	07/30/99	LZ
Hexachloroethane	0.017 U	0.017	mg/L	TCLP 8270	3 max	07/27/99	07/30/99	LZ
Nitrobenzene	0.017 U	0.017	mg/L	TCLP 8270	2 max	07/27/99	07/30/99	LZ
Pentachlorophenol	0.017 U	0.017	mg/L	TCLP 8270	100 max	07/27/99	07/30/99	LZ
Pyridine	0.017 U	0.017	mg/L	TCLP 8270	5 max	07/27/99	07/30/99	LZ
2,4,5-Trichlorophenol	0.017 U	0.017	mg/L	TCLP 8270	400 max	07/27/99	07/30/99	LZ
2,4,6-Trichlorophenol	0.017 U	0.017	mg/L	TCLP 8270	2 max	07/27/99	07/30/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	47.86		%	TCLP 8270	(39-107)	07/27/99	07/30/99	
Phenol-d6 <Surr>	19.51		%	TCLP 8270	(10-42)	07/27/99	07/30/99	
Terphenyl-d14 <Surr>	90.77		%	TCLP 8270	(44-117)	07/27/99	07/30/99	
2-Fluorobiphenyl <Surr>	34.05		%	TCLP 8270	(23-86)	07/27/99	07/30/99	
2-Fluorophenol <Surr>	20.03		%	TCLP 8270	(10-57)	07/27/99	07/30/99	
Nitrobenzene-d5 <Surr>	42.93		%	TCLP 8270	(24-89)	07/27/99	07/30/99	
Metals Dept. Analysis								
Hexavalent Chromium	0.0200 U	0.0200	mg/L	SW846-7196	5 max		07/28/99	CMO



CT&E Ref.# 993654001
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-001-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:47
 Collected Date/Time 07/19/99 14:45
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Gasoline Range Organics	1.95 U	1.95	mg/Kg	AK101 GRO		07/19/99	07/27/99	ELB
Surrogates								
4-Bromofluorobenzene <Surr>	64.8		%	AK101 GRO	(50-150)	07/19/99	07/27/99	
1,4-Difluorobenzene <Surr>	97.4		%	AK101 GRO	(50-150)	07/19/99	07/27/99	
DRO/RRO Combination								
Diesel Range Organics	2380	486	mg/Kg	AK102/103		07/29/99	07/30/99	MMP
Residual Range Organics GC	13500	802	mg/Kg	AK102/103		07/29/99	07/30/99	MMP
Surrogates								
5a Androstane <surr>	!	520	%	AK102/103	(50-150)	07/29/99	07/30/99	
d-Triacontane <Surr>	!	8140	%	AK102/103	(50-150)	07/29/99	07/30/99	
Pesticides								
gamma-Chlordane	0.0179 U	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
alpha-Chlordane	0.0179 U	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
alpha-BHC	0.0179 U	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
beta-BHC	0.0179 U	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
gamma-BHC (Lindane)	0.0179 U	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
delta-BHC	0.0179 U	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Heptachlor	0.0179 U	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Aldrin	0.0179 U	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Heptachlor epoxide	0.0179 U	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endosulfan I	0.0179 U	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ



CT&E Ref.# 993654001
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-001-SL
 Matrix Soil/Solid
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 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:47
 Collected Date/Time 07/19/99 14:45
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
4,4'-DDE	0.0179 U	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Dieldrin	0.0179 U	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endrin	0.0395	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endosulfan II	0.0179 U	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
4,4'-DDD	0.0486	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endrin aldehyde	0.0179 U	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
4,4'-DDT	0.0274	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endosulfan sulfate	0.0179 U	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endrin ketone	0.0179 U	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Methoxychlor	0.0179 U	0.0179	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Toxaphene	1.79 U	1.79	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	84		%	SW846-8081A	(64-150)	07/26/99	07/29/99	
Tetrachloro-m-xylene <Surr>	61.4		%	SW846-8081A	(13-114)	07/26/99	07/29/99	
PCB's by GC ECD								
Aroclor-1016	0.179 U	0.179	ug/L	SW846 8082		07/26/99	07/27/99	WAA
Aroclor-1221	0.179 U	0.179	ug/L	SW846 8082		07/26/99	07/27/99	WAA
Aroclor-1232	0.179 U	0.179	ug/L	SW846 8082		07/26/99	07/27/99	WAA
Aroclor-1242	0.179 U	0.179	ug/L	SW846 8082		07/26/99	07/27/99	WAA
Aroclor-1248	0.179 U	0.179	ug/L	SW846 8082		07/26/99	07/27/99	WAA
Aroclor-1254	0.179 U	0.179	ug/L	SW846 8082		07/26/99	07/27/99	WAA
Aroclor-1260	0.179 U	0.179	ug/L	SW846 8082		07/26/99	07/27/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	108		%	SW846 8082	(42-124)	07/26/99	07/27/99	



CT&E Environmental Services Inc.

Laboratory Division

Laboratory Analysis Report

Heather Hall
CT&E ENVIRONMENTAL SERVICES INC

Laboratory Number 299-07-0587-001 Respectfully
Submitted:

99.3654-1
Sample ID: 99-GAM-001-SL

Date Sampled 07/19/99 14:45
Date Received 07/24/99

Sampled by CLIENT

080699 1600

Client Reference DACA85-97-D-0010004

ANALYSIS OF HERBICIDES IN TCLP LEACHATE.

ANALYZED PARAMETER	CAS NO.	RESULT	LOQ	UNITS	REGULATORY	
					LEVEL	DATE/TIME/ANALYST
TCLP-Herbicides						
2,4-D	94-75-7	ND	0.010	mg/L	10	08/04/99 11:39 TEP
Silvex (2,4,5-TP)	93-72-1	ND	0.010	mg/L	1.0	08/04/99 11:39 TEP

ND: Not detected at a concentration greater than the LOQ - Limit of Quantitation.

TCLP Extraction Procedure and Regulatory Levels: 40 CFR Part 261.24 and Appendix II.

Method Reference: USEPA: Test Methods For Evaluating Solid Waste;
3rd Edition; Nov. 1986.

4665 Paris Street, Suite 200-B, Denver, CO 80239 - Tel: (303) 373-4847 Fax: (303) 373-4884
1258 Greenbrier Street, Charleston, WV 25311-1002 - (304) 346-0725 Fax: (304) 346-0761
5712 Erdman Ave., Baltimore, MD 21205-3598 - Tel: (410) 483-2200 Fax: (410) 483-2206
4440 Glen Este-Withamsville Road, Suite 900, Cincinnati, OH 45245-1331 - Tel: (513) 752-9696 Fax: (513) 752-2614



CT&E Environmental Services Inc.

Laboratory Division

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301

Oil Spill Consultants

attention: Randy Easley

209 E 51st

Anchorage, AK 99503

Account: Oil Spill Consultants

Contact: Randy Easley

Project: Gambell DACA85-97-D-0010 DO 4

Received: 07/21/99 15:50

CT&E Ref#: 99.3654

Print Date: 08/17/99 10:36

Work order 99.3654 was analyzed for TCLP Herbicides
by CT&E Environmental Services Inc. of Charleston WV, 25311



CT&E Ref.# 993654002
Client Name Oil Spill Consultants
Project Name/# Gambell DACA85-97-D-0010 DO 4
Client Sample ID 99-GAM-002-SL
Matrix Soil/Solid
Ordered By
PWSID

Client PO# 913
Printed Date/Time 08/20/99 10:47
Collected Date/Time 07/19/99 15:22
Received Date/Time 07/21/99 15:50
Technical Director Stephen C. Ede

Released By

Handwritten signature

Sample Remarks:

1311/8151 - Sample analyzed for TCLP Herbicides by CT&E ESI of Charleston, WV.
DRO - Pattern consistent with weathered middle distillate.
RRO - Pattern consistent with lube oil.
RRO - Surrogate recovery outside controls due to matrix interference.
8081- LCS/LCSD RPD for gamma-chlordane, heptachlor, aldrin and 4,4'-DDE is biased high. Results for these compounds are estimated.
8260 - Surrogate BFB recovery biased high. Results should not be affected.

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Total Solids, Toxicity Characteristics (Aqueous, Oil, Solid Phase), and TCLP Metals (Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver).



CT&E Ref.# 993654002
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-002-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/19/99 15:22
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Fuels Department Analyses								
Ignitability Seta Flash	GT 200 F			SW846 1020	140 min		08/03/99	CMO
Toxicity Extractions								
pH, Soil	8.09		pH units	SW846-9045	2-12.5		07/30/99	BJS
VOA by GC/MS Method SW8260								
Benzene	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/03/99	08/03/99	MCM
Carbon tetrachloride	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/03/99	08/03/99	MCM
Chlorobenzene	0.10 U	0.10	mg/L	TCLP 8260	100 max	08/03/99	08/03/99	MCM
Chloroform	0.10 U	0.10	mg/L	TCLP 8260	6 max	08/03/99	08/03/99	MCM
1,4-Dichlorobenzene	0.10 U	0.10	mg/L	TCLP 8260	7.5 max	08/03/99	08/03/99	MCM
1,2-Dichloroethane	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/03/99	08/03/99	MCM
1,1-Dichloroethene	0.10 U	0.10	mg/L	TCLP 8260	.7 max	08/03/99	08/03/99	MCM
2-Butanone (MEK)	0.50 U	0.50	mg/L	TCLP 8260	200 max	08/03/99	08/03/99	MCM
Tetrachloroethene	0.10 U	0.10	mg/L	TCLP 8260	.7 max	08/03/99	08/03/99	MCM
Trichloroethene	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/03/99	08/03/99	MCM
Vinyl chloride	0.10 U	0.10	mg/L	TCLP 8260	.2 max	08/03/99	08/03/99	MCM
Surrogates								
1,2-Dichloroethane-D4 <surr>	110		%	TCLP 8260	(68-125)	08/03/99	08/03/99	
Dibromofluoromethane <surr>	97.6		%	TCLP 8260	(91-113)	08/03/99	08/03/99	
Toluene-d8 <surr>	101		%	TCLP 8260	(93-113)	08/03/99	08/03/99	
4-Bromofluorobenzene <Surr>	118		%	TCLP 8260	(87-111)	08/03/99	08/03/99	



CT&E Ref.# 993654002
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-002-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/19/99 15:22
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
TCLP Semi-Volatile Organics								
2-Methylphenol (o-Cresol)	0.018 U	0.018	mg/L	TCLP 8270	200 max	07/27/99	07/30/99	LZ
3&4-Methylphenol (p&m-Cresol)	0.018 U	0.018	mg/L	TCLP 8270	200 max	07/27/99	07/30/99	LZ
2,4-Dinitrotoluene	0.018 U	0.018	mg/L	TCLP 8270	.13 max	07/27/99	07/30/99	LZ
Hexachlorobenzene	0.018 U	0.018	mg/L	TCLP 8270	.13 max	07/27/99	07/30/99	LZ
Hexachlorobutadiene	0.018 U	0.018	mg/L	TCLP 8270	.5 max	07/27/99	07/30/99	LZ
Hexachloroethane	0.018 U	0.018	mg/L	TCLP 8270	3 max	07/27/99	07/30/99	LZ
Nitrobenzene	0.018 U	0.018	mg/L	TCLP 8270	2 max	07/27/99	07/30/99	LZ
Pentachlorophenol	0.018 U	0.018	mg/L	TCLP 8270	100 max	07/27/99	07/30/99	LZ
Pyridine	0.018 U	0.018	mg/L	TCLP 8270	5 max	07/27/99	07/30/99	LZ
2,4,5-Trichlorophenol	0.018 U	0.018	mg/L	TCLP 8270	400 max	07/27/99	07/30/99	LZ
2,4,6-Trichlorophenol	0.018 U	0.018	mg/L	TCLP 8270	2 max	07/27/99	07/30/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	46.75		%	TCLP 8270	(39-107)	07/27/99	07/30/99	
Phenol-d6 <Surr>	17.07		%	TCLP 8270	(10-42)	07/27/99	07/30/99	
Terphenyl-d14 <Surr>	90.21		%	TCLP 8270	(44-117)	07/27/99	07/30/99	
2-Fluorobiphenyl <Surr>	30.1		%	TCLP 8270	(23-86)	07/27/99	07/30/99	
2-Fluorophenol <Surr>	20.85		%	TCLP 8270	(10-57)	07/27/99	07/30/99	
Nitrobenzene-d5 <Surr>	39.3		%	TCLP 8270	(24-89)	07/27/99	07/30/99	
Metals Dept. Analysis								
Hexavalent Chromium	0.0200 U	0.0200	mg/L	SW846-7196	5 max		07/28/99	CMO



CT&E Ref.# 993654002
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-002-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/19/99 15:22
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Gasoline Range Organics	9.55	2.26	mg/Kg	AK101 GRO		07/19/99	07/27/99	ELB
Surrogates								
4-Bromofluorobenzene <Surr>	112		%	AK101 GRO	(50-150)	07/19/99	07/27/99	
1,4-Difluorobenzene <Surr>	98.7		%	AK101 GRO	(50-150)	07/19/99	07/27/99	
DRO/RRO Combination								
Diesel Range Organics	140	10.2	mg/Kg	AK102/103		07/29/99	07/29/99	MMP
Residual Range Organics GC	230	16.8	mg/Kg	AK102/103		07/29/99	07/29/99	MMP
Surrogates								
5a Androstane <surr>	105		%	AK102/103	(50-150)	07/29/99	07/29/99	
d-Triacontane <Surr>	277		%	AK102/103	(50-150)	07/29/99	07/29/99	
Pesticides								
gamma-Chlordane	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
alpha-Chlordane	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
alpha-BHC	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
beta-BHC	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
gamma-BHC (Lindane)	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
delta-BHC	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Heptachlor	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Aldrin	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Heptachlor epoxide	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endosulfan I	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ



CT&E Ref.# 993654002
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-002-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/19/99 15:22
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
4,4'-DDE	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Dieldrin	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endrin	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endosulfan II	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
4,4'-DDD	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endrin aldehyde	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
4,4'-DDT	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endosulfan sulfate	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endrin ketone	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Methoxychlor	0.0190 U	0.0190	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Toxaphene	1.90 U	1.90	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	89.7		%	SW846-8081A	(64-150)	07/26/99	07/29/99	
Tetrachloro-m-xylene <Surr>	47.5		%	SW846-8081A	(13-114)	07/26/99	07/29/99	
PCB's by GC ECD								
Aroclor-1016	0.190 U	0.190	ug/L	SW846 8082		07/26/99	07/27/99	WAA
Aroclor-1221	0.190 U	0.190	ug/L	SW846 8082		07/26/99	07/27/99	WAA
Aroclor-1232	0.190 U	0.190	ug/L	SW846 8082		07/26/99	07/27/99	WAA
Aroclor-1242	0.190 U	0.190	ug/L	SW846 8082		07/26/99	07/27/99	WAA
Aroclor-1248	0.190 U	0.190	ug/L	SW846 8082		07/26/99	07/27/99	WAA
Aroclor-1254	0.190 U	0.190	ug/L	SW846 8082		07/26/99	07/27/99	WAA
Aroclor-1260	0.190 U	0.190	ug/L	SW846 8082		07/26/99	07/27/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	99.3		%	SW846 8082	(42-124)	07/26/99	07/27/99	



CT&E Environmental Services Inc.

Laboratory Division

Laboratory Analysis Report

Heather Hall
CT&E ENVIRONMENTAL SERVICES INC

Laboratory Number 299-07-0587-002 Respectfully
Submitted:

99.3654-2

Date Sampled 07/19/99 15:22
Date Received 07/24/99

Sample ID: 99-GAM-002-SL

Sampled by CLIENT

080699 1600

Client Reference DACA85-97-D-0010004

ANALYSIS OF HERBICIDES IN TCLP LEACHATE.

ANALYZED PARAMETER	CAS NO.	RESULT	LOQ	UNITS	REGULATORY	
					LEVEL	DATE/TIME/ANALYST
TCLP-Herbicides						
2,4-D	94-75-7	ND	0.010	mg/L	10	08/04/99 11:49 TEP
Silvex (2,4,5-TP)	93-72-1	ND	0.010	mg/L	1.0	08/04/99 11:49 TEP

ND: Not detected at a concentration greater than the LOQ - Limit of Quantitation.

TCLP Extraction Procedure and Regulatory Levels: 40 CFR Part 261.24 and Appendix II.

Method Reference: USEPA: Test Methods For Evaluating Solid Waste;
3rd Edition; Nov. 1986.

4665 Paris Street, Suite 200-B, Denver, CO 80239 - Tel: (303) 373-4847 Fax: (303) 373-4884
1258 Greenbrier Street, Charleston, WV 25311-1002 - (304) 346-0725 Fax: (304) 346-0761
5712 Erdman Ave., Baltimore, MD 21205-3598 - Tel: (410) 483-2200 Fax: (410) 483-2206
4440 Glen Este-Withamsville Road, Suite 900, Cincinnati, OH 45245-1331 - Tel: (513) 752-9696 Fax: (513) 752-2614



CT&E Environmental Services Inc.

Laboratory Division

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301

Oil Spill Consultants

attention: Randy Easley

209 E 51st

Anchorage, AK 99503

Account: Oil Spill Consultants

Contact: Randy Easley

Project: Gambell DACA85-97-D-0010 DO 4

Received: 07/21/99 15:50

CT&E Ref#: 99.3654

Print Date: 08/17/99 10:36

Work order 99.3654 was analyzed for TCLP Herbicides
by CT&E Environmental Services Inc. of Charleston WV, 25311



CT&E Ref.# 993654003
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-003-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/19/99 15:35
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Released By 

Sample Remarks:

1311/8151 - Sample analyzed for TCLP Herbicides by CT&E ESI of Charleston, WV.
 DRO/RRO - Unknown hydrocarbon with several peaks.
 RRO - Surrogate recovery outside controls due to matrix interference.
 8081- LCS/LCSD RPD for gamma-chlordane, heptachlor, aldrin and 4,4'-DDE is biased high. Results for these compounds are estimated.
 8260 - Surrogate recovery for 1,2-dichloroethane-d4 and BFB biased high. Results should not be affected.
 8270- Surrogate recovery for 2,4,6-tribromophenol is biased low possibly due to matrix.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Total Solids	89.9		%	SM18 2540G			07/23/99	SEC
Toxicity Characteristics								
Aqueous Phase, Total	0.00		%	SW1311			07/22/99	BJS
Oil Phase, Total	0.00		%	SW1311			07/22/99	BJS
Solid Phase, Total	100		%	SW1311			07/22/99	BJS
TCLP Metals								
Arsenic	0.552	0.0500	mg/L	SW846 7060 TCLP 5 max		07/29/99	08/06/99	JMO
Barium	0.279	0.100	mg/L	SW846 6010 TCLP 100 max		07/29/99	07/30/99	CLC
Cadmium	0.200 U	0.200	mg/L	SW846 6010 TCLP 1 max		07/29/99	07/30/99	CLC
Chromium	0.100 U	0.100	mg/L	SW846 6010 TCLP 5 max		07/29/99	07/30/99	CLC
Lead	* 1450	1.00	mg/L	SW846 6010 TCLP 5 max		07/29/99	07/30/99	CLC
Mercury by Cold Vapor	0.00200 U	0.00200	mg/L	SW846 7470 TCLP .2 max		08/02/99	08/02/99	RMV
Selenium	0.00500 U	0.00500	mg/L	SW846 7740 TCLP 1 max		07/29/99	08/06/99	JMO
Silver	0.100 U	0.100	mg/L	SW846-7760 5 max		07/29/99	07/31/99	BJS



CT&E Ref.# 993654003
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
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 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/19/99 15:35
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 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Fuels Department Analyses								
Ignitability Seta Flash	GT 200 F			SW846 1020	140 min		08/03/99	CMO
Toxicity Extractions								
pH, Soil	7.24		pH units	SW846-9045	2-12.5		07/30/99	BJS
VOA by GC/MS Method SW8260								
Benzene	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/01/99	08/02/99	MCM
Carbon tetrachloride	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/01/99	08/02/99	MCM
Chlorobenzene	0.10 U	0.10	mg/L	TCLP 8260	100 max	08/01/99	08/02/99	MCM
Chloroform	0.10 U	0.10	mg/L	TCLP 8260	6 max	08/01/99	08/02/99	MCM
1,4-Dichlorobenzene	0.10 U	0.10	mg/L	TCLP 8260	7.5 max	08/01/99	08/02/99	MCM
1,2-Dichloroethane	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/01/99	08/02/99	MCM
1,1-Dichloroethene	0.10 U	0.10	mg/L	TCLP 8260	.7 max	08/01/99	08/02/99	MCM
2-Butanone (MEK)	0.50 U	0.50	mg/L	TCLP 8260	200 max	08/01/99	08/02/99	MCM
Tetrachloroethene	0.10 U	0.10	mg/L	TCLP 8260	.7 max	08/01/99	08/02/99	MCM
Trichloroethene	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/01/99	08/02/99	MCM
Vinyl chloride	0.10 U	0.10	mg/L	TCLP 8260	.2 max	08/01/99	08/02/99	MCM
Surrogates								
1,2-Dichloroethane-D4 <surr>	!	127	%	TCLP 8260	(68-125)	08/01/99	08/02/99	
Dibromofluoromethane <surr>		112	%	TCLP 8260	(91-113)	08/01/99	08/02/99	
Toluene-d8 <surr>		111	%	TCLP 8260	(93-113)	08/01/99	08/02/99	
4-Bromofluorobenzene <Surr>	!	127	%	TCLP 8260	(87-111)	08/01/99	08/02/99	



CT&E Ref.# 993654003
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-003-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/19/99 15:35
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
TCLP Semi-Volatile Organics								
2-Methylphenol (o-Cresol)	0.015 U	0.015	mg/L	TCLP 8270	200 max	07/27/99	07/30/99	LZ
3&4-Methylphenol (p&m-Cresol)	0.015 U	0.015	mg/L	TCLP 8270	200 max	07/27/99	07/30/99	LZ
2,4-Dinitrotoluene	0.015 U	0.015	mg/L	TCLP 8270	.13 max	07/27/99	07/30/99	LZ
Hexachlorobenzene	0.015 U	0.015	mg/L	TCLP 8270	.13 max	07/27/99	07/30/99	LZ
Hexachlorobutadiene	0.015 U	0.015	mg/L	TCLP 8270	.5 max	07/27/99	07/30/99	LZ
Hexachloroethane	0.015 U	0.015	mg/L	TCLP 8270	3 max	07/27/99	07/30/99	LZ
Nitrobenzene	0.015 U	0.015	mg/L	TCLP 8270	2 max	07/27/99	07/30/99	LZ
Pentachlorophenol	0.015 U	0.015	mg/L	TCLP 8270	100 max	07/27/99	07/30/99	LZ
Pyridine	0.015 U	0.015	mg/L	TCLP 8270	5 max	07/27/99	07/30/99	LZ
2,4,5-Trichlorophenol	0.015 U	0.015	mg/L	TCLP 8270	400 max	07/27/99	07/30/99	LZ
2,4,6-Trichlorophenol	0.015 U	0.015	mg/L	TCLP 8270	2 max	07/27/99	07/30/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	37.23		%	TCLP 8270	(39-107)	07/27/99	07/30/99	
Phenol-d6 <Surr>	21.62		%	TCLP 8270	(10-42)	07/27/99	07/30/99	
Terphenyl-d14 <Surr>	84.72		%	TCLP 8270	(44-117)	07/27/99	07/30/99	
2-Fluorobiphenyl <Surr>	36.95		%	TCLP 8270	(23-86)	07/27/99	07/30/99	
2-Fluorophenol <Surr>	23.46		%	TCLP 8270	(10-57)	07/27/99	07/30/99	
Nitrobenzene-d5 <Surr>	42.91		%	TCLP 8270	(24-89)	07/27/99	07/30/99	
Metals Dept. Analysis								
Hexavalent Chromium	4.00 U	4.00	mg/L	SW846-7196	5 max		07/28/99	CMO



CT&E Ref.# 993654003
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-003-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/19/99 15:35
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Gasoline Range Organics	2.75 U	2.75	mg/Kg	AK101 GRO		07/19/99	07/27/99	ELB
Surrogates								
4-Bromofluorobenzene <Surr>	61.8		%	AK101 GRO	(50-150)	07/19/99	07/27/99	
1,4-Difluorobenzene <Surr>	96.6		%	AK101 GRO	(50-150)	07/19/99	07/27/99	
DRO/RRO Combination								
Diesel Range Organics	47.2	9.96	mg/Kg	AK102/103		07/29/99	07/30/99	MMP
Residual Range Organics GC	136	16.4	mg/Kg	AK102/103		07/29/99	07/30/99	MMP
Surrogates								
5a Androstane <surr>	117		%	AK102/103	(50-150)	07/29/99	07/30/99	
d-Triacontane <Surr>	168		%	AK102/103	(50-150)	07/29/99	07/30/99	
Pesticides								
gamma-Chlordane	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
alpha-Chlordane	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
alpha-BHC	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
beta-BHC	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
gamma-BHC (Lindane)	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
delta-BHC	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Heptachlor	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Aldrin	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Heptachlor epoxide	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endosulfan I	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ



CT&E Ref.# 993654003
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-003-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/19/99 15:35
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
4,4'-DDE	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Dieldrin	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endrin	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endosulfan II	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
4,4'-DDD	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endrin aldehyde	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
4,4'-DDT	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endosulfan sulfate	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endrin ketone	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Methoxychlor	0.0151 U	0.0151	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Toxaphene	1.51 U	1.51	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	85.4		%	SW846-8081A	(64-150)	07/26/99	07/29/99	
Tetrachloro-m-xylene <Surr>	53		%	SW846-8081A	(13-114)	07/26/99	07/29/99	
PCB's by GC ECD								
Aroclor-1016	0.151 U	0.151	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1221	0.151 U	0.151	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1232	0.151 U	0.151	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1242	0.151 U	0.151	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1248	0.151 U	0.151	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1254	0.151 U	0.151	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1260	0.151 U	0.151	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	116		%	SW846 8082	(42-124)	07/26/99	07/28/99	



CT&E Environmental Services Inc.

Laboratory Division

Laboratory Analysis Report

Heather Hall
CT&E ENVIRONMENTAL SERVICES INC

Laboratory Number 299-07-0587-003 Respectfully
Submitted:

99.3654-3

Date Sampled 07/19/99 15:35

Date Received 07/24/99

Sample ID: 99-GAM-003-SL

Sampled by CLIENT

080699 1600

Client Reference DACA85-97-D-0010004

ANALYSIS OF HERBICIDES IN TCLP LEACHATE.

ANALYZED PARAMETER	CAS NO.	RESULT	LOQ	UNITS	REGULATORY	
					LEVEL	DATE/TIME/ANALYST
TCLP-Herbicides						
2,4-D	94-75-7	ND	0.010	mg/L	10	08/06/99 12:43 TEP
Silvex (2,4,5-TP)	93-72-1	ND	0.010	mg/L	1.0	08/06/99 12:43 TEP

ND: Not detected at a concentration greater than the LOQ - Limit of Quantitation.

TCLP Extraction Procedure and Regulatory Levels: 40 CFR Part 261.24 and Appendix II.

Method Reference: USEPA: Test Methods For Evaluating Solid Waste;
3rd Edition; Nov. 1986.



CT&E Environmental Services Inc.

Laboratory Division

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301

Oil Spill Consultants

attention: Randy Easley

209 E 51st

Anchorage, AK 99503

Account: Oil Spill Consultants

Contact: Randy Easley

Project: Gambell DACA85-97-D-0010 DO 4

Received: 07/21/99 15:50

CT&E Ref#: 99.3654

Print Date: 08/17/99 10:36

Work order 99.3654 was analyzed for TCLP Herbicides
by CT&E Environmental Services Inc. of Charleston WV, 25311



CT&E Ref.# 993654004
Client Name Oil Spill Consultants
Project Name/# Gambell DACA85-97-D-0010 DO 4
Client Sample ID 99-GAM-004-SL
Matrix Soil/Solid
Ordered By
PWSID

Client PO# 913
Printed Date/Time 08/20/99 10:48
Collected Date/Time 07/19/99 18:00
Received Date/Time 07/21/99 15:50
Technical Director: Stephen C. Ede

Released By

Sample Remarks:

1311/8151 - Sample analyzed for TCLP Herbicides by CT&E ESI of Charleston, WV.
GRO/BTEX - Surrogate recovery is biased high due to matrix interference. Results not affected.
DRO - Pattern consistent with middle distillate.
DRO/RRO - Surrogate recoveries outside controls due to matrix interference.
8081- LCS/LCSD RPD for gamma-chlordane, heptachlor, aldrin and 4,4'-DDE is biased high. Results for these compounds are estimated.
8260 - Surrogate BFB recovery biased high. Results should not be affected.

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Total Solids, Toxicity Characteristics (Aqueous, Oil, Solid Phase), and TCLP Metals (Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver).



CT&E Ref.# 993654004
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-004-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/19/99 18:00
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Fuels Department Analyses								
Ignitability Seta Flash	GT 200 F			SW846 1020	140 min		08/03/99	CMO
Toxicity Extractions								
pH, Soil	7.71		pH units	SW846-9045	2-12.5		07/30/99	BJS
VOA by GC/MS Method SW8260								
Benzene	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/01/99	08/02/99	MCM
Carbon tetrachloride	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/01/99	08/02/99	MCM
Chlorobenzene	0.10 U	0.10	mg/L	TCLP 8260	100 max	08/01/99	08/02/99	MCM
Chloroform	0.10 U	0.10	mg/L	TCLP 8260	6 max	08/01/99	08/02/99	MCM
1,4-Dichlorobenzene	0.10 U	0.10	mg/L	TCLP 8260	7.5 max	08/01/99	08/02/99	MCM
1,2-Dichloroethane	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/01/99	08/02/99	MCM
1,1-Dichloroethene	0.10 U	0.10	mg/L	TCLP 8260	.7 max	08/01/99	08/02/99	MCM
2-Butanone (MEK)	0.50 U	0.50	mg/L	TCLP 8260	200 max	08/01/99	08/02/99	MCM
Tetrachloroethene	0.10 U	0.10	mg/L	TCLP 8260	.7 max	08/01/99	08/02/99	MCM
Trichloroethene	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/01/99	08/02/99	MCM
Vinyl chloride	0.10 U	0.10	mg/L	TCLP 8260	.2 max	08/01/99	08/02/99	MCM
Surrogates								
1,2-Dichloroethane-D4 <surr>	125		%	TCLP 8260	(68-125)	08/01/99	08/02/99	
Dibromofluoromethane <surr>	108		%	TCLP 8260	(91-113)	08/01/99	08/02/99	
Toluene-d8 <surr>	110		%	TCLP 8260	(93-113)	08/01/99	08/02/99	
4-Bromofluorobenzene <Surr>	! 127		%	TCLP 8260	(87-111)	08/01/99	08/02/99	



CT&E Ref.# 993654004
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Client PO# 913
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 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
TCLP Semi-Volatile Organics								
2-Methylphenol (o-Cresol)	0.014 U	0.014	mg/L	TCLP 8270	200 max	07/27/99	07/30/99	LZ
3&4-Methylphenol (p&m-Cresol)	0.014 U	0.014	mg/L	TCLP 8270	200 max	07/27/99	07/30/99	LZ
2,4-Dinitrotoluene	0.014 U	0.014	mg/L	TCLP 8270	.13 max	07/27/99	07/30/99	LZ
Hexachlorobenzene	0.014 U	0.014	mg/L	TCLP 8270	.13 max	07/27/99	07/30/99	LZ
Hexachlorobutadiene	0.014 U	0.014	mg/L	TCLP 8270	.5 max	07/27/99	07/30/99	LZ
Hexachloroethane	0.014 U	0.014	mg/L	TCLP 8270	3 max	07/27/99	07/30/99	LZ
Nitrobenzene	0.014 U	0.014	mg/L	TCLP 8270	2 max	07/27/99	07/30/99	LZ
Pentachlorophenol	0.014 U	0.014	mg/L	TCLP 8270	100 max	07/27/99	07/30/99	LZ
Pyridine	0.014 U	0.014	mg/L	TCLP 8270	5 max	07/27/99	07/30/99	LZ
2,4,5-Trichlorophenol	0.014 U	0.014	mg/L	TCLP 8270	400 max	07/27/99	07/30/99	LZ
2,4,6-Trichlorophenol	0.014 U	0.014	mg/L	TCLP 8270	2 max	07/27/99	07/30/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	55		%	TCLP 8270	(39-107)	07/27/99	07/30/99	
Phenol-d6 <Surr>	20.03		%	TCLP 8270	(10-42)	07/27/99	07/30/99	
Terphenyl-d14 <Surr>	97.24		%	TCLP 8270	(44-117)	07/27/99	07/30/99	
2-Fluorobiphenyl <Surr>	33.46		%	TCLP 8270	(23-86)	07/27/99	07/30/99	
2-Fluorophenol <Surr>	26.03		%	TCLP 8270	(10-57)	07/27/99	07/30/99	
Nitrobenzene-d5 <Surr>	47.45		%	TCLP 8270	(24-89)	07/27/99	07/30/99	
Metals Dept. Analysis								
Hexavalent Chromium	0.0200 U	0.0200	mg/L	SW846-7196	5 max		07/28/99	CMO



CT&E Ref.# 993654004
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 PWSID

Client PO# 913
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 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Gasoline Range Organics	309	26.1	mg/Kg	AK101 GRO		07/19/99	07/27/99	ELB
Surrogates								
4-Bromofluorobenzene <Surr>	! 3330		%	AK101 GRO	(50-150)	07/19/99	07/27/99	
1,4-Difluorobenzene <Surr>	127		%	AK101 GRO	(50-150)	07/19/99	07/27/99	
DRO/RRO Combination								
Diesel Range Organics	6440	201	mg/Kg	AK102/103		07/29/99	07/30/99	MMP
Residual Range Organics GC	388	332	mg/Kg	AK102/103		07/29/99	07/30/99	MMP
Surrogates								
5a Androstane <surr>	! 603		%	AK102/103	(50-150)	07/29/99	07/30/99	
d-Triacontane <Surr>	! 295		%	AK102/103	(50-150)	07/29/99	07/30/99	
Pesticides								
gamma-Chlordane	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
alpha-Chlordane	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
alpha-BHC	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
beta-BHC	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
gamma-BHC (Lindane)	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
delta-BHC	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Heptachlor	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Aldrin	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
leptachlor epoxide	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endosulfan I	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
4,4'-DDE	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Dieldrin	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endrin	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endosulfan II	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
4,4'-DDD	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endrin aldehyde	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
4,4'-DDT	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endosulfan sulfate	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Endrin ketone	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Methoxychlor	0.0105 U	0.0105	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Toxaphene	1.05 U	1.05	ug/L	SW846-8081A		07/26/99	07/29/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	84.4		%	SW846-8081A	(64-150)	07/26/99	07/29/99	
Tetrachloro-m-xylene <Surr>	49.6		%	SW846-8081A	(13-114)	07/26/99	07/29/99	
PCB's by GC ECD								
Aroclor-1016	0.105 U	0.105	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1221	0.105 U	0.105	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1232	0.105 U	0.105	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1242	0.105 U	0.105	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1248	0.105 U	0.105	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1254	0.105 U	0.105	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1260	0.105 U	0.105	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	115		%	SW846 8082	(42-124)	07/26/99	07/28/99	



CT&E Environmental Services Inc.

Laboratory Division

Laboratory Analysis Report

Heather Hall
CT&E ENVIRONMENTAL SERVICES INC

Laboratory Number 299-07-0587-004 Respectfully
Submitted:

99.3654-4

Date Sampled 07/19/99 18:00

Date Received 07/24/99

Sample ID: 99-GAM-004-SL

Sampled by CLIENT

080699 1600

Client Reference DACA85-97-D-0010004

ANALYSIS OF HERBICIDES IN TCLP LEACHATE.

ANALYZED PARAMETER	CAS NO.	RESULT	LOQ	UNITS	REGULATORY	
					LEVEL	DATE/TIME/ANALYST
TCLP-Herbicides						
2,4-D	94-75-7	ND	0.010	mg/L	10	08/04/99 11:59 TEP
Silvex (2,4,5-TP)	93-72-1	ND	0.010	mg/L	1.0	08/04/99 11:59 TEP

ND: Not detected at a concentration greater than the LOQ - Limit of Quantitation.

TCLP Extraction Procedure and Regulatory Levels: 40 CFR Part 261.24 and Appendix II.

Method Reference: USEPA: Test Methods For Evaluating Solid Waste;
3rd Edition; Nov. 1986.

4665 Paris Street, Suite 200-B, Denver, CO 80239 - Tel: (303) 373-4847 Fax: (303) 373-4884
1258 Greenbrier Street, Charleston, WV 25311-1002 - (304) 346-0725 Fax: (304) 346-0761
5712 Erdman Ave., Baltimore, MD 21205-3598 - Tel: (410) 483-2200 Fax: (410) 483-2206
4440 Glen Este-Withamsville Road, Suite 900, Cincinnati, OH 45245-1331 - Tel: (513) 752-9696 Fax: (513) 752-2614



CT&E Environmental Services Inc.

Laboratory Division

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301

Oil Spill Consultants

attention: Randy Easley

209 E 51st

Anchorage, AK 99503

Account: Oil Spill Consultants

Contact: Randy Easley

Project: Gambell DACA85-97-D-0010 DO 4

Received: 07/21/99 15:50

CT&E Ref#: 99.3654

Print Date: 08/17/99 10:36

Work order 99.3654 was analyzed for TCLP Herbicides
by CT&E Environmental Services Inc. of Charleston WV, 25311



Member of the SGS Group (Società Generale di Sondaggi)



CT&E Ref.# 993654005
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-005-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/20/99 08:30
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Released By 

Sample Remarks:

1311/8151 - Sample analyzed for TCLP Herbicides by CT&E ESI of Charleston, WV.
 8290 - Sample analyzed for Dioxins by Triangle Laboratories of Durham, NC.
 GRO/BTEX - Field surrogate recovery does not meet QC goals, confirmed on MS/MSD.
 DRO/RRO - Pattern consistent with lube oil.
 DRO - Heavier hydrocarbons contributing to diesel range quantitation.
 RRO - Surrogate does not meet QC goals due to lube oil pattern. Results not affected.
 8081- LCS/LCSD RPD for gamma-chlordane, heptachlor, aldrin and 4,4'-DDE is biased high. Results for these compounds are estimated.
 8260 - Surrogate BFB recovery biased high. Results should not be affected.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Total Solids	86.5		%	SM18 2540G			07/23/99	SEC
Toxicity Characteristics								
Aqueous Phase, Total	0.00		%	SW1311			07/22/99	BJS
Oil Phase, Total	0.00		%	SW1311			07/22/99	BJS
Solid Phase, Total	100		%	SW1311			07/22/99	BJS
TCLP Metals								
Arsenic	0.00500 U	0.00500	mg/L	SW846 7060	TCLP 5 max	07/29/99	08/06/99	JMO
Barium	7.55	0.100	mg/L	SW846 6010	TCLP 100 max	07/29/99	07/30/99	CLC
Cadmium	0.211	0.200	mg/L	SW846 6010	TCLP 1 max	07/29/99	07/30/99	CLC
Chromium	0.100 U	0.100	mg/L	SW846 6010	TCLP 5 max	07/29/99	07/30/99	CLC
Lead	* 11.7	1.00	mg/L	SW846 6010	TCLP 5 max	07/29/99	07/30/99	CLC
Mercury by Cold Vapor	0.00200 U	0.00200	mg/L	SW846 7470	TCLP .2 max	08/02/99	08/02/99	RMV
Selenium	0.00500 U	0.00500	mg/L	SW846 7740	TCLP 1 max	07/29/99	08/06/99	JMO
Silver	0.100 U	0.100	mg/L	SW846-7760	5 max	07/29/99	07/31/99	BJS



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Fuels Department Analyses								
Ignitability Seta Flash	GT 200 F			SW846 1020	140 min		08/03/99	CMO
Toxicity Extractions								
pH, Soil	7.94		pH units	SW846-9045	2-12.5		07/30/99	BJS
VOA by GC/MS Method SW8260								
Benzene	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/02/99	08/02/99	MCM
Carbon tetrachloride	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/02/99	08/02/99	MCM
Chlorobenzene	0.10 U	0.10	mg/L	TCLP 8260	100 max	08/02/99	08/02/99	MCM
Chloroform	0.10 U	0.10	mg/L	TCLP 8260	6 max	08/02/99	08/02/99	MCM
1,4-Dichlorobenzene	0.10 U	0.10	mg/L	TCLP 8260	7.5 max	08/02/99	08/02/99	MCM
1,2-Dichloroethane	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/02/99	08/02/99	MCM
1,1-Dichloroethene	0.10 U	0.10	mg/L	TCLP 8260	.7 max	08/02/99	08/02/99	MCM
2-Butanone (MEK)	0.50 U	0.50	mg/L	TCLP 8260	200 max	08/02/99	08/02/99	MCM
Tetrachloroethene	0.10 U	0.10	mg/L	TCLP 8260	.7 max	08/02/99	08/02/99	MCM
Trichloroethene	0.10 U	0.10	mg/L	TCLP 8260	.5 max	08/02/99	08/02/99	MCM
Vinyl chloride	0.10 U	0.10	mg/L	TCLP 8260	.2 max	08/02/99	08/02/99	MCM
Surrogates								
1,2-Dichloroethane-D4 <surr>	116		%	TCLP 8260	(68-125)	08/02/99	08/02/99	
Dibromofluoromethane <surr>	105		%	TCLP 8260	(91-113)	08/02/99	08/02/99	
Toluene-d8 <surr>	107		%	TCLP 8260	(93-113)	08/02/99	08/02/99	
4-Bromofluorobenzene <Surr>	126		%	TCLP 8260	(87-111)	08/02/99	08/02/99	



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
TCLP Semi-Volatile Organics								
2-Methylphenol (o-Cresol)	0.022 U	0.022	mg/L	TCLP 8270	200 max	07/27/99	07/30/99	LZ
3&4-Methylphenol (p&m-Cresol)	0.022 U	0.022	mg/L	TCLP 8270	200 max	07/27/99	07/30/99	LZ
2,4-Dinitrotoluene	0.022 U	0.022	mg/L	TCLP 8270	.13 max	07/27/99	07/30/99	LZ
Hexachlorobenzene	0.022 U	0.022	mg/L	TCLP 8270	.13 max	07/27/99	07/30/99	LZ
Hexachlorobutadiene	0.022 U	0.022	mg/L	TCLP 8270	.5 max	07/27/99	07/30/99	LZ
Hexachloroethane	0.022 U	0.022	mg/L	TCLP 8270	3 max	07/27/99	07/30/99	LZ
Nitrobenzene	0.022 U	0.022	mg/L	TCLP 8270	2 max	07/27/99	07/30/99	LZ
Pentachlorophenol	0.022 U	0.022	mg/L	TCLP 8270	100 max	07/27/99	07/30/99	LZ
Pyridine	0.022 U	0.022	mg/L	TCLP 8270	5 max	07/27/99	07/30/99	LZ
2,4,5-Trichlorophenol	0.022 U	0.022	mg/L	TCLP 8270	400 max	07/27/99	07/30/99	LZ
2,4,6-Trichlorophenol	0.022 U	0.022	mg/L	TCLP 8270	2 max	07/27/99	07/30/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	54.36		%	TCLP 8270	(39-107)	07/27/99	07/30/99	
Phenol-d6 <Surr>	25.73		%	TCLP 8270	(10-42)	07/27/99	07/30/99	
Terphenyl-d14 <Surr>	80.32		%	TCLP 8270	(44-117)	07/27/99	07/30/99	
2-Fluorobiphenyl <Surr>	34.44		%	TCLP 8270	(23-86)	07/27/99	07/30/99	
2-Fluorophenol <Surr>	30.76		%	TCLP 8270	(10-57)	07/27/99	07/30/99	
Nitrobenzene-d5 <Surr>	39.36		%	TCLP 8270	(24-89)	07/27/99	07/30/99	
Metals Dept. Analysis								
Hexavalent Chromium	0.200 U	0.200	mg/L	SW846-7196	5 max		07/28/99	CMO



CT&E Ref.# 993654005
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 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Gasoline Range Organics	3.73	3.72	mg/Kg	AK101 GRO		07/20/99	07/27/99	ELB
Surrogates								
4-Bromofluorobenzene <Surr>	! 42.9		%	AK101 GRO	(50-150)	07/20/99	07/27/99	
1,4-Difluorobenzene <Surr>	95.3		%	AK101 GRO	(50-150)	07/20/99	07/27/99	
DRO/RRO Combination								
Diesel Range Organics	469	109	mg/Kg	AK102/103		07/29/99	07/30/99	MMP
Residual Range Organics GC	2110	180	mg/Kg	AK102/103		07/29/99	07/30/99	MMP
Surrogates								
5a Androstane <surr>	52.4		%	AK102/103	(50-150)	07/29/99	07/30/99	
d-Triacontane <Surr>	! 1850		%	AK102/103	(50-150)	07/29/99	07/30/99	
Pesticides								
gamma-Chlordane	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
alpha-Chlordane	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
alpha-BHC	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
beta-BHC	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
gamma-BHC (Lindane)	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
delta-BHC	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Heptachlor	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Aldrin	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Heptachlor epoxide	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endosulfan I	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ



CT&E Ref.# 993654005
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-005-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/20/99 08:30
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
4,4'-DDE	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Dieldrin	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endrin	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endosulfan II	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
4,4'-DDD	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endrin aldehyde	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
4,4'-DDT	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endosulfan sulfate	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endrin ketone	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Methoxychlor	0.0279 U	0.0279	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Toxaphene	2.79 U	2.79	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	84.8		%	SW846-8081A	(64-150)	07/26/99	07/28/99	
Tetrachloro-m-xylene <Surr>	50.8		%	SW846-8081A	(13-114)	07/26/99	07/28/99	
PCB's by GC ECD								
Aroclor-1016	0.279 U	0.279	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1221	0.279 U	0.279	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1232	0.279 U	0.279	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1242	0.279 U	0.279	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1248	0.279 U	0.279	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1254	0.279 U	0.279	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1260	0.279 U	0.279	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	107		%	SW846 8082	(42-124)	07/26/99	07/28/99	



CT&E Environmental Services Inc.

Laboratory Division

Laboratory Analysis Report

Weather Hall
CT&E ENVIRONMENTAL SERVICES INC

Laboratory Number 299-07-0587-005 Respectfully
Submitted:

99.3654-5

Date Sampled 07/20/99 8:30
Date Received 07/24/99

Sample ID: 99-GAM-005-SL

Sampled by CLIENT

080699 1600

Client Reference DACA85-97-D-0010004

ANALYSIS OF HERBICIDES IN TCLP LEACHATE.

ANALYZED PARAMETER	CAS NO.	RESULT	LOQ	REGULATORY		
				UNITS	LEVEL	DATE/TIME/ANALYST
TCLP-Herbicides						
2,4-D	94-75-7	ND	0.010	mg/L	10	08/04/99 13:24 TEP
Silvex (2,4,5-TP)	93-72-1	ND	0.010	mg/L	1.0	08/04/99 13:24 TEP

ND: Not detected at a concentration greater than the LOQ - Limit of Quantitation.

TCLP Extraction Procedure and Regulatory Levels: 40 CFR Part 261.24 and Appendix II.

Method Reference: USEPA: Test Methods For Evaluating Solid Waste;
3rd Edition; Nov. 1986.

4665 Paris Street, Suite 200-B, Denver, CO 80239 - Tel: (303) 373-4847 Fax: (303) 373-4884
1258 Greenbrier Street, Charleston, WV 25311-1002 - (304) 346-0725 Fax: (304) 346-0761
5712 Erdman Ave., Baltimore, MD 21205-3598 - Tel: (410) 483-2200 Fax: (410) 483-2206
1440 Glen Este-Withamsville Road, Suite 900, Cincinnati, OH 45245-1331 - Tel: (513) 752-9696 Fax: (513) 752-2614



CT&E Ref.# 993654006
Client Name Oil Spill Consultants
Project Name/# Gambell DACA85-97-D-0010 DO 4
Client Sample ID 99-GAM-005-SL MS
Matrix Soil/Solid
Ordered By
PWSID

Client PO# 913
Printed Date/Time 08/20/99 10:48
Collected Date/Time 07/20/99 08:30
Received Date/Time 07/21/99 15:50
Technical Director: Stephen C. Ede

Released By

Sample Remarks:

1311/8151 - Sample analyzed for TCLP Herbicides by CT&E ESI of Charleston, WV.
GRO/BTEX - Field surrogate recovery does not meet QC goals, confirmed on MS/MSD.
DRO/RRO - MS and MSD does not meet QC goals due to matrix interference. See LCS and LCSD for precision and accuracy.
8081- LCS/LCSD RPD for gamma-chlordane, heptachlor, aldrin and 4,4'-DDE is biased high. Results for these compounds are estimated.

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Total Solids, Toxicity Characteristics (Aqueous, Oil, Solid Phase), and TCLP Metals (Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver).



CT&E Ref.# 993654006
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-005-SL MS
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/20/99 08:30
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
VOA by GC/MS Method SW8260								
Benzene	* 0.526	0.10	mg/L	TCLP 8260	.5 max	08/02/99	08/02/99	MCM
Carbon tetrachloride	* 0.533	0.10	mg/L	TCLP 8260	.5 max	08/02/99	08/02/99	MCM
Chlorobenzene	0.517	0.10	mg/L	TCLP 8260	100 max	08/02/99	08/02/99	MCM
Chloroform	0.536	0.10	mg/L	TCLP 8260	6 max	08/02/99	08/02/99	MCM
1,4-Dichlorobenzene	0.507	0.10	mg/L	TCLP 8260	7.5 max	08/02/99	08/02/99	MCM
1,2-Dichloroethane	* 0.550	0.10	mg/L	TCLP 8260	.5 max	08/02/99	08/02/99	MCM
1,1-Dichloroethene	0.535	0.10	mg/L	TCLP 8260	.7 max	08/02/99	08/02/99	MCM
2-Butanone (MEK)	0.637	0.50	mg/L	TCLP 8260	200 max	08/02/99	08/02/99	MCM
Tetrachloroethene	0.536	0.10	mg/L	TCLP 8260	.7 max	08/02/99	08/02/99	MCM
Trichloroethene	* 0.527	0.10	mg/L	TCLP 8260	.5 max	08/02/99	08/02/99	MCM
Vinyl chloride	* 0.573	0.10	mg/L	TCLP 8260	.2 max	08/02/99	08/02/99	MCM
Surrogates								
1,2-Dichloroethane-D4 <surr>	114		%	TCLP 8260		08/02/99	08/02/99	
Dibromofluoromethane <surr>	100		%	TCLP 8260		08/02/99	08/02/99	
Toluene-d8 <surr>	106		%	TCLP 8260		08/02/99	08/02/99	
4-Bromofluorobenzene <Surr>	111		%	TCLP 8260		08/02/99	08/02/99	
TCLP Semi-Volatile Organics								
2-Methylphenol (o-Cresol)	0.088	0.022	mg/L	TCLP 8270	200 max	07/27/99	07/30/99	LZ
3&4-Methylphenol (p&m-Cresol)	0.13	0.022	mg/L	TCLP 8270	200 max	07/27/99	07/30/99	LZ
2,4-Dinitrotoluene	* 0.14	0.022	mg/L	TCLP 8270	.13 max	07/27/99	07/30/99	LZ
Hexachlorobenzene	* 0.14	0.022	mg/L	TCLP 8270	.13 max	07/27/99	07/30/99	LZ
Hexachlorobutadiene	0.043	0.022	mg/L	TCLP 8270	.5 max	07/27/99	07/30/99	LZ
Hexachloroethane	0.044	0.022	mg/L	TCLP 8270	3 max	07/27/99	07/30/99	LZ
Nitrobenzene	0.078	0.022	mg/L	TCLP 8270	2 max	07/27/99	07/30/99	LZ
pentachlorophenol	0.17	0.022	mg/L	TCLP 8270	100 max	07/27/99	07/30/99	LZ



CT&E Ref.# 993654006
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-005-SL MS
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/20/99 08:30
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Pyridine	0.058	0.022	mg/L	TCLP 8270	5 max	07/27/99	07/30/99	LZ
2,4,5-Trichlorophenol	0.12	0.022	mg/L	TCLP 8270	400 max	07/27/99	07/30/99	LZ
2,4,6-Trichlorophenol	0.12	0.022	mg/L	TCLP 8270	2 max	07/27/99	07/30/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	56.03		%	TCLP 8270		07/27/99	07/30/99	
Phenol-d6 <Surr>	26.01		%	TCLP 8270		07/27/99	07/30/99	
Terphenyl-d14 <Surr>	72.16		%	TCLP 8270		07/27/99	07/30/99	
2-Fluorobiphenyl <Surr>	41.83		%	TCLP 8270		07/27/99	07/30/99	
2-Fluorophenol <Surr>	26.33		%	TCLP 8270		07/27/99	07/30/99	
Nitrobenzene-d5 <Surr>	35.02		%	TCLP 8270		07/27/99	07/30/99	
Metals Dept. Analysis								
Hexavalent Chromium	0.435	0.0200	mg/L	SW846-7196	5 max		07/28/99	CMO
Gasoline Range Organics								
	34.6	3.72	mg/Kg	AK101 GRO		07/20/99	07/27/99	ELB
Surrogates								
4-Bromofluorobenzene <Surr>	! 48.2		%	AK101 GRO	(50-150)	07/20/99	07/27/99	
1,4-Difluorobenzene <Surr>	111		%	AK101 GRO		07/20/99	07/27/99	
DRO/RRO Combination								
Diesel Range Organics	725	112	mg/Kg	AK102/103		07/29/99	07/30/99	MMP
Residual Range Organics GC	2610	185	mg/Kg	AK102/103		07/29/99	07/30/99	MMP



CT&E Ref.# 993654006
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-005-SL MS
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/20/99 08:30
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Surrogates								
5a Androstane <surr>	76.8		%	AK102/103	(50-150)	07/29/99	07/30/99	
d-Triacontane <Surr>	2210		%	AK102/103	(50-150)	07/29/99	07/30/99	
Pesticides								
gamma-Chlordane	0.241	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
alpha-Chlordane	0.295	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
alpha-BHC	0.225	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
beta-BHC	0.257	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
gamma-BHC (Lindane)	0.241	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
delta-BHC	0.273	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Heptachlor	0.218	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Aldrin	0.189	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Heptachlor epoxide	0.250	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endosulfan I	0.260	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
4,4'-DDE	0.289	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Dieldrin	0.270	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endrin	0.305	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endosulfan II	0.250	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
4,4'-DDD	0.318	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endrin aldehyde	0.254	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
4,4'-DDT	0.315	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endosulfan sulfate	0.340	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endrin ketone	0.292	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Methoxychlor	0.408	0.0321	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Toxaphene	3.21 U	3.21	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	45.8		%	SW846-8081A	(46-154)	07/26/99	07/28/99	



CT&E Ref.# 993654006
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-005-SL MS
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/20/99 08:30
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Surrogates								
Tetrachloro-m-xylene <Surr>	52.8		%	SW846-8081A	(25-120)	07/26/99	07/28/99	
PCB's by GC ECD								
Aroclor-1016	1.64	0.296	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1221	0.296 U	0.296	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1232	0.296 U	0.296	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1242	0.296 U	0.296	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1248	0.296 U	0.296	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1254	0.296 U	0.296	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1260	2.32	0.296	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	69.6		%	SW846 8082	(42-124)	07/26/99	07/28/99	



CT&E Environmental Services Inc.

Laboratory Division

Laboratory Analysis Report

Heather Hall
CT&E ENVIRONMENTAL SERVICES INC

Laboratory Number 299-07-0587-007 Respectfully
Submitted:

99.3654-5 MATRIX SPIKE

Date Sampled 07/20/99 8:30
Date Received 07/24/99

Sample ID: 99-GAM-005-SL

Sampled by CLIENT

080999 1656

Client Reference DACA85-97-D-0010004

SPIKED SAMPLE ANALYSIS SUMMARY REPORT FOR TCLP HERBICIDES

PARAMETER	CAS NO.	RESULT	SPIKE LEVEL	UNITS	PERCENT RECOVERY

QC SPIKE HERBICIDES :					
2,4-D	94-75-7	0.015	0.020	mg/L	75 %
Silvex (2,4,5-TP)	93-72-1	0.014	0.020	mg/L	70 %

All spike results are corrected for the sample background.

BACKGROUND CORRECTED SPIKE RESULT

Percent Recovery = ----- X 100
SPIKE LEVEL



CT&E Ref.# 993654007
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-005-SL MSD
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/20/99 08:30
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Released By 

Sample Remarks:

1311/8151 - Sample analyzed for TCLP Herbicides by CT&E ESI of Charleston, WV.
 GRO/BTEX - Field surrogate recovery does not meet QC goals, confirmed on MS/MSD.
 DRO/RRO - MS and MSD does not meet QC goals due to matrix interference. See LCS and LCSD for precision and accuracy.
 8081- LCS/LCSD RPD for gamma-chlordane, heptachlor, aldrin and 4,4'-DDE is biased high. Results for these compounds are estimated.
 8081- MSD recovery is biased low and MS/MSD RPD is biased high for heptachlor, possibly due to matrix interference and/or non-homogenous.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
^								
Total Solids	86.5		%	SM18 2540G			07/23/99	SEC
Toxicity Characteristics								
Aqueous Phase, Total	0.00		%	SW1311			07/22/99	BJs
Oil Phase, Total	0.00		%	SW1311			07/22/99	BJs
Solid Phase, Total	100		%	SW1311			07/22/99	BJs
TCLP Metals								
Arsenic	0.230	0.0500	mg/L	SW846 7060 TCLP 5 max		07/29/99	08/06/99	JMO
Barium	9.03	0.100	mg/L	SW846 6010 TCLP 100 max		07/29/99	07/30/99	CLC
Cadmium	* 2.15	0.200	mg/L	SW846 6010 TCLP 1 max		07/29/99	07/30/99	CLC
Chromium	2.12	0.100	mg/L	SW846 6010 TCLP 5 max		07/29/99	07/30/99	CLC
Lead	* 13.3	1.00	mg/L	SW846 6010 TCLP 5 max		07/29/99	07/30/99	CLC
Mercury by Cold Vapor	0.0192	0.00200	mg/L	SW846 7470 TCLP .2 max		08/02/99	08/02/99	RMV
Selenium	0.244	0.0500	mg/L	SW846 7740 TCLP 1 max		07/29/99	08/06/99	JMO
Silver	0.910	0.100	mg/L	SW846-7760 5 max		07/29/99	07/31/99	BJs



CT&E Ref.# 993654007
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-005-SL MSD
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/20/99 08:30
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
VOA by GC/MS Method SW8260								
Benzene	* 0.571	0.10	mg/L	TCLP 8260	.5 max	08/02/99	08/02/99	MCM
Carbon tetrachloride	* 0.575	0.10	mg/L	TCLP 8260	.5 max	08/02/99	08/02/99	MCM
Chlorobenzene	0.554	0.10	mg/L	TCLP 8260	100 max	08/02/99	08/02/99	MCM
Chloroform	0.566	0.10	mg/L	TCLP 8260	6 max	08/02/99	08/02/99	MCM
1,4-Dichlorobenzene	0.527	0.10	mg/L	TCLP 8260	7.5 max	08/02/99	08/02/99	MCM
1,2-Dichloroethane	* 0.602	0.10	mg/L	TCLP 8260	.5 max	08/02/99	08/02/99	MCM
1,1-Dichloroethene	0.555	0.10	mg/L	TCLP 8260	.7 max	08/02/99	08/02/99	MCM
2-Butanone (MEK)	0.589	0.50	mg/L	TCLP 8260	200 max	08/02/99	08/02/99	MCM
Tetrachloroethene	0.556	0.10	mg/L	TCLP 8260	.7 max	08/02/99	08/02/99	MCM
Trichloroethene	* 0.560	0.10	mg/L	TCLP 8260	.5 max	08/02/99	08/02/99	MCM
Vinyl chloride	* 0.649	0.10	mg/L	TCLP 8260	.2 max	08/02/99	08/02/99	MCM
Surrogates								
1,2-Dichloroethane-D4 <surr>	118		%	TCLP 8260		08/02/99	08/02/99	
Dibromofluoromethane <surr>	101		%	TCLP 8260		08/02/99	08/02/99	
Toluene-d8 <surr>	107		%	TCLP 8260		08/02/99	08/02/99	
4-Bromofluorobenzene <Surr>	114		%	TCLP 8260		08/02/99	08/02/99	
TCLP Semi-Volatile Organics								
2-Methylphenol (o-Cresol)	0.099	0.024	mg/L	TCLP 8270	200 max	07/27/99	07/30/99	LZ
3&4-Methylphenol (p&m-Cresol)	0.15	0.024	mg/L	TCLP 8270	200 max	07/27/99	07/30/99	LZ
2,4-Dinitrotoluene	* 0.17	0.024	mg/L	TCLP 8270	.13 max	07/27/99	07/30/99	LZ
Hexachlorobenzene	* 0.17	0.024	mg/L	TCLP 8270	.13 max	07/27/99	07/30/99	LZ
Hexachlorobutadiene	0.047	0.024	mg/L	TCLP 8270	.5 max	07/27/99	07/30/99	LZ
Hexachloroethane	0.045	0.024	mg/L	TCLP 8270	3 max	07/27/99	07/30/99	LZ
Nitrobenzene	0.088	0.024	mg/L	TCLP 8270	2 max	07/27/99	07/30/99	LZ
pentachlorophenol	0.22	0.024	mg/L	TCLP 8270	100 max	07/27/99	07/30/99	LZ



CT&E Ref.# 993654007
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-005-SL MSD
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/20/99 08:30
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Pyridine	0.064	0.024	mg/L	TCLP 8270	5 max	07/27/99	07/30/99	LZ
2,4,5-Trichlorophenol	0.15	0.024	mg/L	TCLP 8270	400 max	07/27/99	07/30/99	LZ
2,4,6-Trichlorophenol	0.14	0.024	mg/L	TCLP 8270	2 max	07/27/99	07/30/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	66.15		%	TCLP 8270		07/27/99	07/30/99	
Phenol-d6 <Surr>	27.88		%	TCLP 8270		07/27/99	07/30/99	
Terphenyl-d14 <Surr>	83.01		%	TCLP 8270		07/27/99	07/30/99	
2-Fluorobiphenyl <Surr>	45.42		%	TCLP 8270		07/27/99	07/30/99	
2-Fluorophenol <Surr>	29.02		%	TCLP 8270		07/27/99	07/30/99	
Nitrobenzene-d5 <Surr>	35.99		%	TCLP 8270		07/27/99	07/30/99	
Metals Dept. Analysis								
Hexavalent Chromium	0.468	0.0200	mg/L	SW846-7196	5 max		07/28/99	CMO
Gasoline Range Organics								
Gasoline Range Organics	35.1	3.72	mg/Kg	AK101 GRO		07/20/99	07/27/99	ELB
Surrogates								
4-Bromofluorobenzene <Surr>	48.9		%	AK101 GRO	(50-150)	07/20/99	07/27/99	
1,4-Difluorobenzene <Surr>	110		%	AK101 GRO		07/20/99	07/27/99	
DRO/RRO Combination								
Diesel Range Organics	534	101	mg/Kg	AK102/103		07/29/99	07/30/99	MMP
Residual Range Organics GC	1930	166	mg/Kg	AK102/103		07/29/99	07/30/99	MMP



CT&E Ref.# 993654007
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-005-SL MSD
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/20/99 08:30
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Surrogates								
5a Androstane <surrr>	!	257	%	AK102/103	(50-150)	07/29/99	07/30/99	LZ
d-Triacontane <Surr>	!	1810	%	AK102/103	(50-150)	07/29/99	07/30/99	LZ
Pesticides								
gamma-Chlordane	0.200	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
alpha-Chlordane	0.250	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
alpha-BHC	0.178	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
beta-BHC	0.241	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
gamma-BHC (Lindane)	0.212	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
delta-BHC	0.259	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Heptachlor	0.109	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Aldrin	0.0969	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Heptachlor epoxide	0.225	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endosulfan I	0.234	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
4,4'-DDE	0.247	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Dieldrin	0.250	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endrin	0.278	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endosulfan II	0.231	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
4,4'-DDD	0.294	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endrin aldehyde	0.244	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
4,4'-DDT	0.284	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endosulfan sulfate	0.359	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Endrin ketone	0.278	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Methoxychlor	0.362	0.0312	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Toxaphene	3.12 U	3.12	ug/L	SW846-8081A		07/26/99	07/28/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>		47.5	%	SW846-8081A	(46-154)	07/26/99	07/28/99	LZ



CT&E Ref.# 993654007
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-005-SL MSD
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 08/20/99 10:48
 Collected Date/Time 07/20/99 08:30
 Received Date/Time 07/21/99 15:50
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Surrogates								
Tetrachloro-m-xylene <Surr>	38.9		%	SW846-8081A	(25-120)	07/26/99	07/28/99	
PCB's by GC ECD								
Aroclor-1016	2.05	0.321	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1221	0.321 U	0.321	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1232	0.321 U	0.321	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1242	0.321 U	0.321	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1248	0.321 U	0.321	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1254	0.321 U	0.321	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Aroclor-1260	2.61	0.321	ug/L	SW846 8082		07/26/99	07/28/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	78.7		%	SW846 8082	(42-124)	07/26/99	07/28/99	



CT&E Environmental Services Inc.

Laboratory Division

Laboratory Analysis Report

Heather Hall
CT&E ENVIRONMENTAL SERVICES INC

Laboratory Number 299-07-0587-008 Respectfully

Submitted:
[Signature]

99.3654-5 MATRIX SPIKE DUPLICATE

Date Sampled 07/20/99 8:30

Date Received 07/24/99

Sample ID: 99-GAM-005-SL

Sampled by CLIENT

080999 1656

Client Reference DACA85-97-D-0010D04

SPIKED SAMPLE ANALYSIS SUMMARY REPORT FOR TCLP HERBICIDES

PARAMETER	CAS NO.	RESULT	SPIKE LEVEL	UNITS	PERCENT RECOVERY
QC SPIKE HERBICIDES :					
2,4-D	94-75-7	0.018	0.020	mg/L	90 %
Silvex (2,4,5-TP)	93-72-1	0.015	0.020	mg/L	75 %

All spike results are corrected for the sample background.

$$\text{Percent Recovery} = \frac{\text{BACKGROUND CORRECTED SPIKE RESULT}}{\text{SPIKE LEVEL}} \times 100$$



CT&E Environmental Services Inc.

Laboratory Division

Laboratory Analysis Report

Heather Hall
CT&E ENVIRONMENTAL SERVICES INC

Laboratory Number 299-07-0587-006 Respectfully

Submitted:

EXTRACTION BLANK

Date Sampled 07/20/99 8:30

Date Received 07/24/99

Sample ID: 99-GAM-005-SL

Sampled by CLIENT

080699 1600

Client Reference DACA85-97-D-0010D04

ANALYSIS OF HERBICIDES IN TCLP LEACHATE.

ANALYZED PARAMETER	CAS NO.	RESULT	LOQ	UNITS	REGULATORY LEVEL	DATE/TIME/ANALYST
TCLP-Herbicides						
2,4-D	94-75-7	ND	0.010	mg/L	10	08/04/99 13:34 TEP
Silvex (2,4,5-TP)	93-72-1	ND	0.010	mg/L	1.0	08/04/99 13:34 TEP

ND: Not detected at a concentration greater than the LOQ - Limit of Quantitation.

TCLP Extraction Procedure and Regulatory Levels: 40 CFR Part 261.24 and Appendix II.

Method Reference: USEPA: Test Methods For Evaluating Solid Waste;
3rd Edition; Nov. 1986.

4665 Paris Street, Suite 200-B, Denver, CO 80239 – Tel: (303) 373-4847 Fax: (303) 373-4884
1258 Greenbrier Street, Charleston, WV 25311-1002 – (304) 346-0725 Fax: (304) 346-0761
5712 Erdman Ave., Baltimore, MD 21205-3598 – Tel: (410) 483-2200 Fax: (410) 483-2206
4440 Glen Este-Withamsville Road, Suite 900, Cincinnati, OH 45245-1331 – Tel: (513) 52-9696 Fax: (513) 752-2614



CT&E Environmental Services Inc.

Laboratory Division

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301

Oil Spill Consultants

attention: Randy Easley

209 E 51st

Anchorage, AK 99503

Account: Oil Spill Consultants

Contact: Randy Easley

Project: Gambell DACA85-97-D-0010 DO 4

Received: 07/21/99 15:50

CT&E Ref#: 99.3654

Print Date: 08/17/99 10:36

Work order 99.3654 was analyzed for TCLP Herbicides
by CT&E Environmental Services Inc. of Charleston WV, 25311



Member of the SGS Group (Société Générale de Surveillance)

CI & E Environmental Services

TLI Project: **49153** Method 8290 PCDD/PCDF Analysis (b)
 Client Sample: **99GAM-005-SL-993654-5** Analysis File: **S994202**

Client Project:	DACA85-97-D-0010D04/Gambell,AK				
Sample Matrix:	SOIL	Date Received:	07/24/1999	Spike File:	SPMIT22S
TLI ID:	242-60-1	Date Extracted:	07/28/1999	ICal:	SF57169
		Date Analyzed:	08/16/1999	ConCal:	S994194
Sample Size:	11.300 g	Dilution Factor:	n/a	% Moisture:	10.8
Dry Weight:	10.080 g	Blank File:	S994195	% Lipid:	n/a
GC Column:	DB-5	Analyst:	SW	% Solids:	89.2

Analytes	Conc. (ppt)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	3.1			0.84	25:02	---
1,2,3,7,8-PeCDD	18.0			1.53	29:32	---
1,2,3,4,7,8-HxCDD	23.7			1.20	32:44	---
1,2,3,6,7,8-HxCDD	53.7			1.20	32:49	---
1,2,3,7,8,9-HxCDD	81.0			1.22	33:05	---
1,2,3,4,6,7,8-HpCDD	490			1.02	35:52	---
1,2,3,4,6,7,8,9-OCDD	1250			0.87	39:11	---
2,3,7,8-TCDF	272			0.75	24:17	---
1,2,3,7,8-PeCDF	53.2			1.55	28:26	---
2,3,4,7,8-PeCDF	143			1.50	29:10	---
2,3,4,7,8-HxCDF	539			1.27	32:00	---
1,2,3,6,7,8-HxCDF	152			1.28	32:07	---
2,3,4,6,7,8-HxCDF	367			1.29	32:37	---
1,2,3,7,8,9-HxCDF	8.3			1.18	33:20	---
1,2,3,4,6,7,8-HpCDF	1120			1.08	34:53	---
1,2,3,4,7,8,9-HpCDF	72.7			1.08	36:18	---
1,2,3,4,6,7,8,9-OCDF	614			0.89	39:21	---

Totals	Conc. (ppt)	Number	DL	EMPC	Flags
Total TCDD	146	13			---
Total PeCDD	374	10		382	---
Total HxCDD	700	7			---
Total HpCDD	1090	2			---
Total TCDF	1350	15			---
Total PeCDF	1800	13			---
Total HxCDF	1880	12			---
Total HpCDF	1560	4			---

CT & E Environmental Services

TLI Project: 49153
 Client Sample: 99GAM-005-SL-993654-5

Method 8290 PCDD/PCDF Analysis (b)
 Analysis File: S994202

Internal Standards	Conc. (ppt)	% Recovery	QC Limits	Ratio	RT	Flags
¹³ C ₁₂ -2,3,7,8-TCDF	105	53.0	40%-130%	0.74	24:15	—
¹³ C ₁₂ -2,3,7,8-TCDD	138	69.7	40%-130%	0.80	25:01	—
¹³ C ₁₂ -1,2,3,7,8-PeCDF	175	88.3	40%-130%	1.48	28:26	—
¹³ C ₁₂ -1,2,3,7,8-PeCDD	225	114	40%-130%	1.52	29:32	—
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	166	83.5	40%-130%	0.51	32:07	—
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	197	99.2	40%-130%	1.26	32:48	—
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	233	117	25%-130%	0.44	34:52	—
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	247	125	25%-130%	1.01	35:51	—
¹³ C ₁₂ -1,2,3,4,6,7,8,9-OCDD	422	106	25%-130%	0.86	39:11	—

Surrogate Standards (Type B)	Conc. (ppt)	% Recovery	QC Limits	Ratio	RT	Flags
¹³ C ₁₂ -2,3,4,7,8-PeCDF	175	88.1	40%-130%	1.48	29:10	—
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	161	81.3	40%-130%	0.50	32:00	—
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	177	89.5	40%-130%	1.17	32:44	—
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	194	97.6	25%-130%	0.43	36:18	—

Other Standard	Conc. (ppt)	% Recovery	QC Limits	RT	Flags
³⁷ Cl ₄ -2,3,7,8-TCDD	12.0	60.5	40%-130%	25:02	—

Alternate Standards (Type B)	Conc. (ppt)	% Recovery	QC Limits	Ratio	RT	Flags
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	182	91.8	40%-130%	0.50	33:20	—
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	173	87.1	40%-130%	0.50	32:36	—

Recovery Standards	Ratio	RT	Flags
¹³ C ₁₂ -1,2,3,4-TCDD	0.79	24:50	—
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.21	33:06	—

Data Reviewer: JA 08/18/1999



CT&E Environmental Services Inc.

Laboratory Division

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301

Oil Spill Consultants

attention: Randy Easley

209 E 51st

Anchorage, AK 99503

Account: Oil Spill Consultants

Contact: Randy Easley

Project: Gambell DACA85-97-D-0010 DO 4

Received: 07/21/99 15:50

CT&E Ref#: 99.3654

Print Date: 08/20/99 10:59

Work order 99.3654 was analyzed for Dioxins
by Triangle Laboratories of Durham, NC 27713-4411



CT&E Ref.# 993834001
Client Name Oil Spill Consultants
Project Name/# Debris Removal Gambell AK
Client Sample ID 99-GAM-006-W
Matrix Wipes/Filters
Ordered By

Client PO#
Printed Date/Time 02/02/2001 16:25
Collected Date/Time 07/28/1999 13:00
Received Date/Time 07/30/1999 15:37
Technical Director Stephen C. Ede
Released By [Signature]

Sample Remarks:
Corrected comments: Area wiped was 100 square cm.

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Semivolatile Organic Gas Chromatography (Aroclor-1016 to -1260) and Surrogates (Decachlorobiphenyl <Surr>).



CT&E Ref.# 993834002
Client Name Oil Spill Consultants
Project Name/# Debris Removal Gambell AK
Client Sample ID 99-GAM-007-W
Matrix Wipes/Filters
Ordered By

Client PO#
Printed Date/Time 02/02/2001 16:25
Collected Date/Time 07/28/1999 13:15
Received Date/Time 07/30/1999 15:37
Technical Director Stephen C. Ede
Released By [Signature]

Sample Remarks:
Corrected comments: Area wiped was 100 square cm.

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Semivolatile Organic Gas Chromatography (Aroclor-1016 to -1260) and Surrogates (Decachlorobiphenyl <Surr>).



CT&E Ref.# 993834003
 Client Name Oil Spill Consultants
 Project Name/# Debris Removal Gambell AK
 Client Sample ID 99-GAM-008-W
 Matrix Wipes/Filters
 Ordered By

Client PO#
 Printed Date/Time 02/02/2001 16:25
 Collected Date/Time 07/28/1999 13:30
 Received Date/Time 07/30/1999 15:37
 Technical Director Stephen C. Ede
 Released By

Sample Remarks:
 Corrected comments: Area wiped was 100 square cm.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic Gas Chromatography								
Aroclor-1016	1.00 U	1.00	ug/wipe	SW846-8082		08/03/99	08/04/99	WAA
Aroclor-1221	1.00 U	1.00	ug/wipe	SW846-8082		08/03/99	08/04/99	WAA
Aroclor-1232	1.00 U	1.00	ug/wipe	SW846-8082		08/03/99	08/04/99	WAA
Aroclor-1242	1.00 U	1.00	ug/wipe	SW846-8082		08/03/99	08/04/99	WAA
Aroclor-1248	1.00 U	1.00	ug/wipe	SW846-8082		08/03/99	08/04/99	WAA
Aroclor-1254	1.00 U	1.00	ug/wipe	SW846-8082		08/03/99	08/04/99	WAA
Aroclor-1260	1.00 U	1.00	ug/wipe	SW846-8082		08/03/99	08/04/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	121		%	SW846-8082		08/03/99	08/04/99	WAA



CT&E Ref.# 994255001
Client Name Oil Spill Consultants
Project Name/# Gambell DACA85-97-D-0010 DO 4
Client Sample ID 99-GAM-009-SL
Matrix Soil/Solid
Ordered By
PWSID

Client PO# 913
Printed Date/Time 09/10/99 09:34
Collected Date/Time 08/14/99 12:10
Received Date/Time 08/18/99 16:35
Technical Director: Stephen C. Ede

Released By

Sample Remarks:

- 8270 - LCS/LCSD recovery for pyridine and 3,3-dichlorobenzidine is biased low. The results for these compounds are estimated.
8260 - BFB field surrogate recovery (at 69% vs. 71%) is biased low due to high moisture content in sample.
GRO/BTEX - Field surrogate recovery is biased low due to high moisture content in sample.
8082- Detection limit raised 10X due to matrix interference.
8082- Surrogate recovery does not meet QC goals due to matrix interference.
DRO/RRO - Pattern consistent with lube oil.
DRO - Heavier hydrocarbons contributing to diesel range quantitation.
RRO - Surrogate recovery outside controls due to lube oil pattern.
8270 - Presence of non target analytes requires analysis at a large dilution.

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Total Solids (67.0%), RCRA Metals (Arsenic, Barium, Cadmium, Chromium, Lead, Mercury by Cold Vapor, Selenium, Silver).



CT&E Ref.# 994255001
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-009-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/10/99 09:34
 Collected Date/Time 08/14/99 12:10
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Gasoline Range Organics	3.43 U	3.43	mg/Kg	AK101 GRO		08/14/99	08/24/99	DAR
Surrogates								
4-Bromofluorobenzene <Surr>	41.8		%	AK101 GRO	(50-150)	08/14/99	08/24/99	
1,4-Difluorobenzene <Surr>	92.5		%	AK101 GRO	(50-150)	08/14/99	08/24/99	
VOA by GC/MS Method SW8260								
Dichlorodifluoromethane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloromethane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Vinyl chloride	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromomethane	0.34 U	0.34	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroethane	0.34 U	0.34	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichlorofluoromethane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon disulfide	0.34 U	0.34	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Methylene chloride	0.17 U	0.17	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
trans-1,2-Dichloroethene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Butanone (MEK)	0.34 U	0.34	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2,2-Dichloropropane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,2-Dichloroethene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromochloromethane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroform	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1-Trichloroethane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon tetrachloride	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloropropene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
benzene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



CT&E Ref.# 994255001
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-009-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/10/99 09:34
 Collected Date/Time 08/14/99 12:10
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
1,2-Dichloroethane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichloroethene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichloropropane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Dibromomethane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromodichloromethane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
-Chloroethyl Vinyl Ether	0.34 U	0.34	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,3-Dichloropropene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Methyl-2-pentanone (MIBK)	0.34 U	0.34	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Toluene	0.0593	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
trans-1,3-Dichloropropene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,2-Trichloroethane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Tetrachloroethene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3-Dichloropropane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Hexanone	0.34 U	0.34	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Dibromochloromethane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dibromoethane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chlorobenzene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1,2-Tetrachloroethane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Ethylbenzene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
P & M -Xylene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
o-Xylene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Styrene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromoform	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Isopropylbenzene (Cumene)	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromobenzene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,2,2-Tetrachloroethane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichloropropane	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Propylbenzene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Chlorotoluene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Chlorotoluene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3,5-Trimethylbenzene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
tert-Butylbenzene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
1,2,4-Trimethylbenzene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
sec-Butylbenzene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3-Dichlorobenzene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Isopropyltoluene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,4-Dichlorobenzene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichlorobenzene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Butylbenzene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dibromo-3-chloropropane	0.34 U	0.34	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,4-Trichlorobenzene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Hexachlorobutadiene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Naphthalene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichlorobenzene	0.034 U	0.034	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Surrogates								
1,2-Dichloroethane-D4 <surr>	103		%	SW846-8260	(74-123)	08/14/99	08/22/99	
Dibromofluoromethane <surr>	98.2		%	SW846-8260	(80-118)	08/14/99	08/22/99	
Toluene-d8 <surr>	98.2		%	SW846-8260	(79-130)	08/14/99	08/22/99	
4-Bromofluorobenzene <Surr>	! 69.3		%	SW846-8260	(71-141)	08/14/99	08/22/99	
DRO/RRO Combination								
Diesel Range Organics	463	67.0	mg/Kg	AK102/103		08/24/99	09/01/99	MMP
Residual Range Organics GC	1720	111	mg/Kg	AK102/103		08/24/99	09/01/99	MMP
Surrogates								
5a Androstane <surr>	132		%	AK102/103	(50-150)	08/24/99	09/01/99	
d-Triacontane <Surr>	! 696		%	AK102/103	(50-150)	08/24/99	09/01/99	



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatiles by GC/MS								
N-Nitrosodimethylamine	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyridine	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
niline	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenol	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethyl)ether	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chlorophenol	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,3-Dichlorobenzene	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,4-Dichlorobenzene	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzyl alcohol	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,2-Dichlorobenzene	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylphenol (o-Cresol)	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-chloroisopropyl)ether	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3&4-Methylphenol (p&m-Cresol)	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitroso-di-n-propylamine	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachloroethane	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Nitrobenzene	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Isophorone	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitrophenol	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dimethylphenol	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzoic acid	56 U	56	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethoxy)methane	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,2,4-Trichlorobenzene	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Naphthalene	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloroaniline	22 U	22	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobutadiene	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloro-3-methylphenol	22 U	22	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dichlorophenol	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylnaphthalene	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorocyclopentadiene	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
2,4,6-Trichlorophenol	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,5-Trichlorophenol	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chloronaphthalene	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitroaniline	56 U		56 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dimethylphthalate	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
acenaphthylene	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,6-Dinitrotoluene	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3-Nitroaniline	56 U		56 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthene	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dinitrophenol	56 U		56 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitrophenol	56 U		56 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dibenzofuran	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dinitrotoluene	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Diethylphthalate	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chlorophenyl-phenylether	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluorene	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitroaniline	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methyl-4,6-dinitrophenol	56 U		56 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitrosodiphenylamine	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Bromophenyl-phenylether	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobenzene	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pentachlorophenol	56 U		56 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenanthrene	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Anthracene	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Di-n-butylphthalate	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluoranthene	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyrene	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Azobenzene	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Butylbenzylphthalate	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3,3-Dichlorobenzidine	22 U		22 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo(a)Anthracene	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Chrysene	11 U		11 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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bis(2-Ethylhexyl)phthalate	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
di-n-Octylphthalate	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[b]Fluoranthene	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[k]fluoranthene	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[a]pyrene	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Indeno[1,2,3-c,d] pyrene	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dibenzo[a,h]anthracene	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[g,h,i]perylene	11 U	11	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	49		%	SW846-8270	(18-122)	08/22/99	08/24/99	
Phenol-d6 <Surr>	58.2		%	SW846-8270	(24-88)	08/22/99	08/24/99	
Terphenyl-d14 <Surr>	106		%	SW846-8270	(21-142)	08/22/99	08/24/99	
2-Fluorobiphenyl <Surr>	70.7		%	SW846-8270	(30-103)	08/22/99	08/24/99	
2-Fluorophenol <Surr>	50.4		%	SW846-8270	(18-83)	08/22/99	08/24/99	
Nitrobenzene-d5 <Surr>	57.7		%	SW846-8270	(18-109)	08/22/99	08/24/99	
PCB's by GC ECD								
Aroclor-1016	0.0477 U	0.0477	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1221	0.0477 U	0.0477	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1232	0.0477 U	0.0477	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1242	0.0477 U	0.0477	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1248	0.0477 U	0.0477	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1254	0.0477 U	0.0477	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1260	0.0477 U	0.0477	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	130		%	SW846 8082	(53.3-125)	08/20/99	08/22/99	



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Pesticides								
alpha-BHC	0.00477 U	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
beta-BHC	0.0921	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-Chlordane	0.00477 U	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
alpha-Chlordane	0.00477 U	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-BHC (Lindane)	0.00477 U	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
delta-BHC	0.00668	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor	0.00477 U	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Aldrin	0.00477 U	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor epoxide	0.00477 U	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan I	0.00477 U	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDE	0.00477 U	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Dieldrin	0.00477 U	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin	0.00477 U	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan II	0.00477 U	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDD	0.0100	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin aldehyde	0.00477 U	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDT	0.00668	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan sulfate	0.00477 U	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin ketone	0.00477 U	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Methoxychlor	0.00477 U	0.00477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Toxaphene	0.477 U	0.477	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	127		%	SW846-8081A	(46-154)	08/20/99	08/26/99	
Tetrachloro-m-xylene <Surr>	93		%	SW846-8081A	(25-120)	08/20/99	08/26/99	



CT&E Ref.# 994255002
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Project Name/# Gambell DACA85-97-D-0010 DO 4
Client Sample ID 99-GAM-010-SL
Matrix Soil/Solid
Ordered By
PWSID

Client PO# 913
Printed Date/Time 09/09/99 16:26
Collected Date/Time 08/14/99 12:20
Received Date/Time 08/18/99 16:35
Technical Director: Stephen C. Ede

Released By

[Handwritten signature]

Sample Remarks:

8270 - LCS/LCSD recovery for pyridine and 3,3-dichlorobenzidine is biased low. The results for these compounds are estimated.
8270- Surrogate recovery for terphenyl-d14 is biased high possibly due to matrix.
8270 - Internal standard chrysene-d12 and phenanthrene-d12 is biased low. The samples are non-detect. The results are not affected.
8082- Detection limit raised 10X due to matrix interference.
DRO/RRO - Pattern consistent with lube oil.
RRO - Surrogate does not meet QC goals due to lube oil pattern. Results not affected.
DRO - Heavier hydrocarbons contributing to diesel range quantitation.

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Total Solids, RCRA Metals (Arsenic, Barium, Cadmium, Chromium, Lead, Mercury by Cold Vapor, Selenium, Silver), and Gasoline Range Organics.



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Surrogates								
4-Bromofluorobenzene <Surr>	66		%	AK101 GRO	(50-150)	08/14/99	08/24/99	
1,4-Difluorobenzene <Surr>	94.4		%	AK101 GRO	(50-150)	08/14/99	08/24/99	
VOA by GC/MS Method SW8260								
Dichlorodifluoromethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloromethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Vinyl chloride	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromomethane	0.22 U	0.22	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroethane	0.22 U	0.22	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichlorofluoromethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon disulfide	0.22 U	0.22	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Methylene chloride	0.11 U	0.11	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
trans-1,2-Dichloroethene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Butanone (MEK)	0.22 U	0.22	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2,2-Dichloropropane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,2-Dichloroethene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromochloromethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroform	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1-Trichloroethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon tetrachloride	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloropropene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Benzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichloroethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichloroethene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
,2-Dichloropropane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
ibromomethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Bromodichloromethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Chloroethyl Vinyl Ether	0.22 U	0.22	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,3-Dichloropropene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Methyl-2-pentanone (MIBK)	0.22 U	0.22	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Toluene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
trans-1,3-Dichloropropene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,2-Trichloroethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Tetrachloroethene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3-Dichloropropane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Hexanone	0.22 U	0.22	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Dibromochloromethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dibromoethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chlorobenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1,2-Tetrachloroethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Ethylbenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
P & M -Xylene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
o-Xylene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Styrene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromoform	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Isopropylbenzene (Cumene)	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromobenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,2,2-Tetrachloroethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichloropropane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Propylbenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Chlorotoluene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Chlorotoluene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3,5-Trimethylbenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
tert-Butylbenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,4-Trimethylbenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
sec-Butylbenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
m,3-Dichlorobenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
-Isopropyltoluene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
1,4-Dichlorobenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichlorobenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Butylbenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dibromo-3-chloropropane	0.22 U	0.22	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,4-Trichlorobenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
hexachlorobutadiene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Naphthalene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichlorobenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Surrogates								
1,2-Dichloroethane-D4 <surr>	108		%	SW846-8260	(74-123)	08/14/99	08/22/99	
Dibromofluoromethane <surr>	102		%	SW846-8260	(80-118)	08/14/99	08/22/99	
Toluene-d8 <surr>	101		%	SW846-8260	(79-130)	08/14/99	08/22/99	
4-Bromofluorobenzene <Surr>	88.7		%	SW846-8260	(71-141)	08/14/99	08/22/99	
DRO/RRO Combination								
Diesel Range Organics	407	53.3	mg/Kg	AK102/103		08/24/99	09/01/99	MMP
Residual Range Organics GC	1890	88.0	mg/Kg	AK102/103		08/24/99	09/01/99	MMP
Surrogates								
5a Androstane <surr>	137		%	AK102/103	(50-150)	08/24/99	09/01/99	
d-Triacontane <Surr>	! 652		%	AK102/103	(50-150)	08/24/99	09/01/99	
Semivolatiles by GC/MS								
N-Nitrosodimethylamine	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyridine	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Aniline	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenol	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Bis(2-Chloroethyl)ether	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chlorophenol	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,3-Dichlorobenzene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,4-Dichlorobenzene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzyl alcohol	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,2-Dichlorobenzene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylphenol (o-Cresol)	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-chloroisopropyl)ether	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3&4-Methylphenol (p&m-Cresol)	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitroso-di-n-propylamine	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachloroethane	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Nitrobenzene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Isophorone	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitrophenol	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dimethylphenol	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzoic acid	1.8 U	1.8	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethoxy)methane	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,2,4-Trichlorobenzene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Naphthalene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloroaniline	0.71 U	0.71	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobutadiene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloro-3-methylphenol	0.71 U	0.71	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dichlorophenol	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylnaphthalene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorocyclopentadiene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,6-Trichlorophenol	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,5-Trichlorophenol	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chloronaphthalene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitroaniline	1.8 U	1.8	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dimethylphthalate	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
acenaphthylene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,6-Dinitrotoluene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
3-Nitroaniline	1.8 U		1.8 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dinitrophenol	1.8 U	1.8	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitrophenol	1.8 U	1.8	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dibenzofuran	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
,4-Dinitrotoluene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Diethylphthalate	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chlorophenyl-phenylether	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluorene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitroaniline	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methyl-4,6-dinitrophenol	1.8 U	1.8	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitrosodiphenylamine	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Bromophenyl-phenylether	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobenzene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pentachlorophenol	1.8 U	1.8	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenanthrene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Anthracene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Di-n-butylphthalate	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluoranthene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyrene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Azobenzene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Butylbenzylphthalate	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3,3-Dichlorobenzidine	0.71 U	0.71	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo(a)Anthracene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Chrysene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-Ethylhexyl)phthalate	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
di-n-Octylphthalate	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[b]Fluoranthene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[k]fluoranthene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[a]pyrene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Indeno[1,2,3-c,d] pyrene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[a,h]anthracene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



CT&E Ref.# 994255002
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-010-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:27
 Collected Date/Time 08/14/99 12:20
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Benzo[g,h,i]perylene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	96.4		%	SW846-8270	(18-122)	08/22/99	08/24/99	
Phenol-d6 <Surr>	66.6		%	SW846-8270	(24-88)	08/22/99	08/24/99	
Terphenyl-d14 <Surr>	173		%	SW846-8270	(21-142)	08/22/99	08/24/99	
2-Fluorobiphenyl <Surr>	79.5		%	SW846-8270	(30-103)	08/22/99	08/24/99	
2-Fluorophenol <Surr>	56.5		%	SW846-8270	(18-83)	08/22/99	08/24/99	
Nitrobenzene-d5 <Surr>	70.5		%	SW846-8270	(18-109)	08/22/99	08/24/99	
PCB's by GC ECD								
Aroclor-1016	0.0365 U	0.0365	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1221	0.0365 U	0.0365	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1232	0.0365 U	0.0365	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1242	0.0365 U	0.0365	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1248	0.0365 U	0.0365	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1254	0.0365 U	0.0365	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1260	0.0365 U	0.0365	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	114		%	SW846 8082	(53.3-125)	08/20/99	08/22/99	
Pesticides								
alpha-BHC	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
beta-BHC	0.0438	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-Chlordane	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
alpha-Chlordane	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-BHC (Lindane)	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ



CT&E Ref.# 994255002
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-010-SL
 Matrix Soil/Solid
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 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:27
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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
delta-BHC	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Aldrin	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor epoxide	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan I	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
,4'-DDE	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
dieldrin	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan II	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDD	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin aldehyde	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDT	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan sulfate	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin ketone	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Methoxychlor	0.00364 U	0.00364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Toxaphene	0.364 U	0.364	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	100		%	SW846-8081A	(46-154)	08/20/99	08/26/99	
Tetrachloro-m-xylene <Surr>	96		%	SW846-8081A	(25-120)	08/20/99	08/26/99	



CT&E Ref.# 994255003
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-011-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:27
 Collected Date/Time 08/14/99 12:30
 Received Date/Time 08/18/99 16:35
 Technical Director Stephen C. Ede

Released By 

Sample Remarks:

8270 - Internal standard phenanthrene-d12 is biased low. The samples are non-detect. The results are not affected.
 8270 - LCS/LCSD recovery for pyridine and 3,3-dichlorobenzidine is biased low. The results for these compounds are estimated.
 GRO/BTEX - Field surrogate recovery is biased low, run twice for confirmation, results may be biased low.
 DRO - Heavier hydrocarbons contributing to diesel range quantitation.
 DRO/RRO - Unknown hydrocarbon with several peaks.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Total Solids	89.0		%	SM18 2540G			08/24/99	BJS
RCRA Metals								
Arsenic	6.02	2.22	mg/Kg	SW846 7060		08/23/99	08/30/99	JMO
Barium	16.8	4.34	mg/Kg	SW846 6010B		08/26/99	08/31/99	WTA
Cadmium	0.182	0.0222	mg/Kg	SW846-7131		08/23/99	08/24/99	KGF
Chromium	20.0	2.22	mg/Kg	SW846-7191		08/23/99	08/24/99	KGF
Lead	56.0	8.88	mg/Kg	SW846-7421		08/23/99	08/24/99	KGF
Mercury by Cold Vapor	0.0146 U	0.0146	mg/Kg	SW846-7471		08/25/99	08/25/99	RMV
Selenium	0.546	0.222	mg/Kg	SW846-7740		08/23/99	08/27/99	GCP
Silver	0.0444 U	0.0444	mg/Kg	SW846-7761		08/23/99	08/24/99	KGF
Gasoline Range Organics	1.86 U	1.86	mg/Kg	AK101 GRO		08/14/99	08/24/99	DAR
Surrogates								
4-Bromofluorobenzene <Surr>	!	47.2	%	AK101 GRO	(50-150)	08/14/99	08/24/99	
1,4-Difluorobenzene <Surr>		91.6	%	AK101 GRO	(50-150)	08/14/99	08/24/99	



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
VOA by GC/MS Method SW8260								
Dichlorodifluoromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Vinyl chloride	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromomethane	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroethane	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichlorofluoromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon disulfide	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Methylene chloride	0.093 U	0.093	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
trans-1,2-Dichloroethene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Butanone (MEK)	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2,2-Dichloropropane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,2-Dichloroethene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromochloromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroform	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1-Trichloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon tetrachloride	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloropropene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Benzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichloroethene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichloropropane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Dibromomethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromodichloromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Chloroethyl Vinyl Ether	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,3-Dichloropropene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1-Methyl-2-pentanone (MIBK)	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Toluene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



CT&E Ref.# 994255003
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
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 Matrix Soil/Solid
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 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:27
 Collected Date/Time 08/14/99 12:30
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
trans-1,3-Dichloropropene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,2-Trichloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Tetrachloroethene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3-Dichloropropane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Hexanone	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Dibromochloromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dibromoethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1,2-Tetrachloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Ethylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
P & M -Xylene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
o-Xylene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Styrene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromoform	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Isopropylbenzene (Cumene)	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,2,2-Tetrachloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichloropropane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Propylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Chlorotoluene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Chlorotoluene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3,5-Trimethylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
tert-Butylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,4-Trimethylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
sec-Butylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3-Dichlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Isopropyltoluene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,4-Dichlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Butylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dibromo-3-chloropropane	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,4-Trichlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



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 PWSID

Client PO# 913
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 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Hexachlorobutadiene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Naphthalene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Surrogates								
1,2-Dichloroethane-D4 <surr>	106		%	SW846-8260	(74-123)	08/14/99	08/22/99	
Dibromofluoromethane <surr>	99.3		%	SW846-8260	(80-118)	08/14/99	08/22/99	
Toluene-d8 <surr>	98.5		%	SW846-8260	(79-130)	08/14/99	08/22/99	
4-Bromofluorobenzene <Surr>	77		%	SW846-8260	(71-141)	08/14/99	08/22/99	
DRO/RRO Combination								
Diesel Range Organics	20.5	10.7	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Residual Range Organics GC	98.3	17.6	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Surrogates								
5a Androstane <surr>	101		%	AK102/103	(50-150)	08/24/99	08/28/99	
d-Triacontane <Surr>	127		%	AK102/103	(50-150)	08/24/99	08/28/99	
Semivolatiles by GC/MS								
N-Nitrosodimethylamine	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyridine	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Aniline	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenol	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethyl)ether	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chlorophenol	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,3-Dichlorobenzene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,4-Dichlorobenzene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzyl alcohol	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
1,2-Dichlorobenzene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylphenol (o-Cresol)	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-chloroisopropyl)ether	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3&4-Methylphenol (p&m-Cresol)	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitroso-di-n-propylamine	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
hexachloroethane	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Nitrobenzene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Isophorone	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitrophenol	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dimethylphenol	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzoic acid	1.8 U	1.8	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethoxy)methane	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,2,4-Trichlorobenzene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Naphthalene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloroaniline	0.71 U	0.71	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobutadiene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloro-3-methylphenol	0.71 U	0.71	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dichlorophenol	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylnaphthalene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorocyclopentadiene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,6-Trichlorophenol	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,5-Trichlorophenol	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chloronaphthalene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitroaniline	1.8 U	1.8	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dimethylphthalate	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthylene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,6-Dinitrotoluene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3-Nitroaniline	1.8 U	1.8	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dinitrophenol	1.8 U	1.8	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitrophenol	1.8 U	1.8	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1-Benzofuran	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



CT&E Ref.# 994255003
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-011-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:27
 Collected Date/Time 08/14/99 12:30
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
2,4-Dinitrotoluene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Diethylphthalate	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chlorophenyl-phenylether	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluorene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitroaniline	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
?-Methyl-4,6-dinitrophenol	1.8 U	1.8	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitrosodiphenylamine	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Bromophenyl-phenylether	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobenzene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pentachlorophenol	1.8 U	1.8	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenanthrene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Anthracene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Di-n-butylphthalate	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluoranthene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyrene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Azobenzene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Butylbenzylphthalate	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3,3-Dichlorobenzidine	0.71 U	0.71	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo(a)Anthracene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Chrysene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-Ethylhexyl)phthalate	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
di-n-Octylphthalate	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[b]Fluoranthene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[k]fluoranthene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[a]pyrene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Indeno[1,2,3-c,d] pyrene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dibenzo[a,h]anthracene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[g,h,i]perylene	0.35 U	0.35	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Surrogates								
1,4,6-Tribromophenol <Surr>	86.5		%	SW846-8270	(18-122)	08/22/99	08/24/99	



CT&E Ref.# 994255003
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 Client Sample ID 99-GAM-011-SL
 Matrix Soil/Solid
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 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:27
 Collected Date/Time 08/14/99 12:30
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Surrogates								
Phenol-d6 <Surr>	71.5		%	SW846-8270	(24-88)	08/22/99	08/24/99	
Terphenyl-d14 <Surr>	138		%	SW846-8270	(21-142)	08/22/99	08/24/99	
1-Fluorobiphenyl <Surr>	75.9		%	SW846-8270	(30-103)	08/22/99	08/24/99	
2-Fluorophenol <Surr>	60		%	SW846-8270	(18-83)	08/22/99	08/24/99	
Nitrobenzene-d5 <Surr>	69		%	SW846-8270	(18-109)	08/22/99	08/24/99	
PCB's by GC ECD								
Aroclor-1016	0.00353 U	0.00353	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1221	0.00353 U	0.00353	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1232	0.00353 U	0.00353	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1242	0.00353 U	0.00353	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1248	0.00353 U	0.00353	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1254	0.00353 U	0.00353	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1260	0.00353 U	0.00353	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	92.9		%	SW846 8082	(53.3-125)	08/20/99	08/22/99	
Pesticides								
alpha-BHC	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
beta-BHC	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
gamma-Chlordane	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
alpha-Chlordane	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
gamma-BHC (Lindane)	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
delta-BHC	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
heptachlor	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ



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Client PO# 913
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 Collected Date/Time 08/14/99 12:30
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 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Aldrin	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Heptachlor epoxide	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endosulfan I	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
4,4'-DDE	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Dieldrin	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endrin	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endosulfan II	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
4,4'-DDD	0.000494	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endrin aldehyde	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
4,4'-DDT	0.000953	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endosulfan sulfate	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endrin ketone	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Methoxychlor	0.000353 U	0.000353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Toxaphene	0.0353 U	0.0353	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	69.6		%	SW846-8081A	(46-154)	08/20/99	08/25/99	
Tetrachloro-m-xylene <Surr>	65.5		%	SW846-8081A	(25-120)	08/20/99	08/25/99	



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PWSID

Client PO# 913
Printed Date/Time 09/09/99 16:27
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Released By

Sample Remarks:

8270 - LCS/LCSD recovery for pyridine and 3,3-dichlorobenzidine is biased low. The results for these compounds are estimated.

8270 - Internal standard phenanthrene-d12 is biased low. The samples are non-detect. The results are not affected.

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, and Init. Rows include Total Solids, RCRA Metals (Arsenic, Barium, Cadmium, Chromium, Lead, Mercury by Cold Vapor, Selenium, Silver), Gasoline Range Organics, and Surrogates (4-Bromofluorobenzene, 1,4-Difluorobenzene).



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
VOA by GC/MS Method SW8260								
Dichlorodifluoromethane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloromethane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Vinyl chloride	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromomethane	0.18 U	0.18	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroethane	0.18 U	0.18	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichlorofluoromethane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon disulfide	0.18 U	0.18	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Methylene chloride	0.090 U	0.090	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
trans-1,2-Dichloroethene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Butanone (MEK)	0.18 U	0.18	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2,2-Dichloropropane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,2-Dichloroethene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromochloromethane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroform	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1-Trichloroethane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon tetrachloride	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloropropene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Benzene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichloroethane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichloroethene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichloropropane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Dibromomethane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromodichloromethane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Chloroethyl Vinyl Ether	0.18 U	0.18	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,3-Dichloropropene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Methyl-2-pentanone (MIBK)	0.18 U	0.18	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
toluene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



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 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:27
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 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
trans-1,3-Dichloropropene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,2-Trichloroethane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Tetrachloroethene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3-Dichloropropane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Hexanone	0.18 U	0.18	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromochloromethane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dibromoethane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chlorobenzene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1,2-Tetrachloroethane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Ethylbenzene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
P & M -Xylene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
o-Xylene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Styrene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromoform	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Isopropylbenzene (Cumene)	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromobenzene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,2,2-Tetrachloroethane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichloropropane	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Propylbenzene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Chlorotoluene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Chlorotoluene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3,5-Trimethylbenzene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
tert-Butylbenzene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,4-Trimethylbenzene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
sec-Butylbenzene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3-Dichlorobenzene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Isopropyltoluene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,4-Dichlorobenzene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichlorobenzene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Butylbenzene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Dibromo-3-chloropropane	0.18 U	0.18	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2,4-Trichlorobenzene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Hexachlorobutadiene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Naphthalene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichlorobenzene	0.018 U	0.018	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Surrogates								
1,2-Dichloroethane-D4 <surr>	107		%	SW846-8260	(74-123)	08/14/99	08/22/99	
Dibromofluoromethane <surr>	100		%	SW846-8260	(80-118)	08/14/99	08/22/99	
Toluene-d8 <surr>	99.1		%	SW846-8260	(79-130)	08/14/99	08/22/99	
4-Bromofluorobenzene <Surr>	98.7		%	SW846-8260	(71-141)	08/14/99	08/22/99	
DRO/RRO Combination								
Diesel Range Organics	9.06 U	9.06	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Residual Range Organics GC	15.6	15.0	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Surrogates								
5a Androstane <surr>	110		%	AK102/103	(50-150)	08/24/99	08/28/99	
d-Triacontane <Surr>	109		%	AK102/103	(50-150)	08/24/99	08/28/99	
Semivolatiles by GC/MS								
N-Nitrosodimethylamine	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyridine	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Aniline	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenol	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethyl)ether	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chlorophenol	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,3-Dichlorobenzene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,4-Dichlorobenzene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
benzyl alcohol	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



CT&E Ref.# 994255004
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-012-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:27
 Collected Date/Time 08/14/99 11:29
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
1,2-Dichlorobenzene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylphenol (o-Cresol)	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-chloroisopropyl)ether	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3&4-Methylphenol (p&m-Cresol)	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitroso-di-n-propylamine	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachloroethane	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Nitrobenzene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Isophorone	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitrophenol	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dimethylphenol	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzoic acid	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethoxy)methane	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,2,4-Trichlorobenzene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Naphthalene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloroaniline	0.65 U	0.65	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobutadiene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloro-3-methylphenol	0.65 U	0.65	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dichlorophenol	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylnaphthalene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorocyclopentadiene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,6-Trichlorophenol	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,5-Trichlorophenol	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chloronaphthalene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitroaniline	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dimethylphthalate	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthylene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,6-Dinitrotoluene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3-Nitroaniline	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dinitrophenol	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitrophenol	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Indenzofuran	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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 Matrix Soil/Solid
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 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:27
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 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
2,4-Dinitrotoluene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Diethylphthalate	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chlorophenyl-phenylether	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluorene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitroaniline	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
?-Methyl-4,6-dinitrophenol	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitrosodiphenylamine	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Bromophenyl-phenylether	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobenzene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pentachlorophenol	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenanthrene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Anthracene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Di-n-butylphthalate	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluoranthene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyrene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Azobenzene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Butylbenzylphthalate	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3,3-Dichlorobenzidine	0.65 U	0.65	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo(a)Anthracene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Chrysene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-Ethylhexyl)phthalate	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
di-n-Octylphthalate	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[b]Fluoranthene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[k]fluoranthene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[a]pyrene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Indeno[1,2,3-c,d] pyrene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dibenzo[a,h]anthracene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[g,h,i]perylene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Surrogates								
.,4,6-Tribromophenol <Surr>	74.4		%	SW846-8270	(18-122)	08/22/99	08/24/99	



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 PWSID

Client PO# 913
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 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Surrogates								
Phenol-d6 <Surr>	59.2		%	SW846-8270	(24-88)	08/22/99	08/24/99	
Terphenyl-d14 <Surr>	130		%	SW846-8270	(21-142)	08/22/99	08/24/99	
?-Fluorobiphenyl <Surr>	63.3		%	SW846-8270	(30-103)	08/22/99	08/24/99	
∓-Fluorophenol <Surr>	52.6		%	SW846-8270	(18-83)	08/22/99	08/24/99	
Nitrobenzene-d5 <Surr>	59		%	SW846-8270	(18-109)	08/22/99	08/24/99	
PCB's by GC ECD								
Aroclor-1016	0.00319 U	0.00319	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1221	0.00319 U	0.00319	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1232	0.00319 U	0.00319	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1242	0.00319 U	0.00319	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1248	0.00319 U	0.00319	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1254	0.00319 U	0.00319	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1260	0.00319 U	0.00319	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	107		%	SW846 8082	(53.3-125)	08/20/99	08/22/99	
Pesticides								
alpha-BHC	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
beta-BHC	0.0332	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-Chlordane	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
alpha-Chlordane	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-BHC (Lindane)	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
delta-BHC	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
∓ptachlor	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Aldrin	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor epoxide	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan I	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDE	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Dieldrin	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan II	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDD	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin aldehyde	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDT	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan sulfate	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin ketone	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Methoxychlor	0.00319 U	0.00319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Toxaphene	0.319 U	0.319	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	118		%	SW846-8081A	(46-154)	08/20/99	08/26/99	
Tetrachloro-m-xylene <Surr>	126		%	SW846-8081A	(25-120)	08/20/99	08/26/99	



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 Project Name/# Gambell DACA85-97-D-0010 DO 4
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 Matrix Soil/Solid
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 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:27
 Collected Date/Time 08/14/99 11:40
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 Technical Director: Stephen C. Ede

Released By 

Sample Remarks:

8270 - Internal standard phenanthrene-d12 is biased low. The samples are non-detect. The results are not affected.
 8270 - LCS/LCSD recovery for pyridine and 3,3-dichlorobenzidine is biased low. The results for these compounds are estimated.
 DRO/RRO - Pattern consistent with lube oil.
 DRO - Heavier hydrocarbons contributing to diesel range quantitation.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Total Solids	97.2		%	SM18 2540G			08/24/99	BJS
RCRA Metals								
Arsenic	3.60	0.192	mg/Kg	SW846 7060		08/23/99	08/30/99	JMO
Barium	12.7	4.12	mg/Kg	SW846 6010B		08/26/99	08/31/99	WTA
Cadmium	0.0196	0.0192	mg/Kg	SW846-7131		08/23/99	08/24/99	KGF
Chromium	3.62	0.192	mg/Kg	SW846-7191		08/23/99	08/24/99	KGF
Lead	14.3	1.92	mg/Kg	SW846-7421		08/23/99	08/24/99	KGF
Mercury by Cold Vapor	0.00676 U	0.00676	mg/Kg	SW846-7471		08/25/99	08/25/99	RMV
Selenium	0.192 U	0.192	mg/Kg	SW846-7740		08/23/99	08/27/99	GCP
Silver	0.0384 U	0.0384	mg/Kg	SW846-7761		08/23/99	08/24/99	KGF
Gasoline Range Organics	1.90 U	1.90	mg/Kg	AK101 GRO		08/14/99	08/24/99	DAR
Surrogates								
4-Bromofluorobenzene <Surr>	76.8		%	AK101 GRO	(50-150)	08/14/99	08/24/99	
1,4-Difluorobenzene <Surr>	95.3		%	AK101 GRO	(50-150)	08/14/99	08/24/99	



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
VOA by GC/MS Method SW8260								
Dichlorodifluoromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Vinyl chloride	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromomethane	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroethane	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichlorofluoromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon disulfide	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Methylene chloride	0.095 U	0.095	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
trans-1,2-Dichloroethene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Butanone (MEK)	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2,2-Dichloropropane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,2-Dichloroethene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromochloromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroform	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1-Trichloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon tetrachloride	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloropropene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Benzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichloroethene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichloropropane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Dibromomethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromodichloromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Chloroethyl Vinyl Ether	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,3-Dichloropropene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
tert-Methyl-2-pentanone (MIBK)	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
toluene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



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 Client Sample ID 99-GAM-013-SL
 Matrix Soil/Solid
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 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:27
 Collected Date/Time 08/14/99 11:40
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
trans-1,3-Dichloropropene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,2-Trichloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Tetrachloroethene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3-Dichloropropane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Hexanone	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dibromochloromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dibromoethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1,2-Tetrachloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Ethylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
P & M -Xylene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
o-Xylene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Styrene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromoform	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Isopropylbenzene (Cumene)	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,2,2-Tetrachloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichloropropane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Propylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Chlorotoluene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Chlorotoluene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3,5-Trimethylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
tert-Butylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,4-Trimethylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
sec-Butylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3-Dichlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Isopropyltoluene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,4-Dichlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Butylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dibromo-3-chloropropane	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,4-Trichlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



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 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:28
 Collected Date/Time 08/14/99 11:40
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Hexachlorobutadiene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Naphthalene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Surrogates								
1,2-Dichloroethane-D4 <surrr>	111		%	SW846-8260	(74-123)	08/14/99	08/22/99	
Dibromofluoromethane <surrr>	102		%	SW846-8260	(80-118)	08/14/99	08/22/99	
Toluene-d8 <surrr>	101		%	SW846-8260	(79-130)	08/14/99	08/22/99	
4-Bromofluorobenzene <Surr>	96.1		%	SW846-8260	(71-141)	08/14/99	08/22/99	
DRO/RRO Combination								
Diesel Range Organics	30.0	8.87	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Residual Range Organics GC	70.9	14.6	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Surrogates								
5a Androstane <surrr>	102		%	AK102/103	(50-150)	08/24/99	08/28/99	
d-Triacontane <Surr>	135		%	AK102/103	(50-150)	08/24/99	08/28/99	
Semivolatiles by GC/MS								
N-Nitrosodimethylamine	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyridine	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Aniline	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenol	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethyl)ether	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chlorophenol	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,3-Dichlorobenzene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,4-Dichlorobenzene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzyl alcohol	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
1,2-Dichlorobenzene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylphenol (o-Cresol)	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-chloroisopropyl)ether	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3&4-Methylphenol (p&m-Cresol)	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitroso-di-n-propylamine	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachloroethane	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Nitrobenzene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Isophorone	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitrophenol	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dimethylphenol	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzoic acid	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethoxy)methane	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,2,4-Trichlorobenzene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Naphthalene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloroaniline	0.65 U	0.65	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobutadiene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloro-3-methylphenol	0.65 U	0.65	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dichlorophenol	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylnaphthalene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorocyclopentadiene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,6-Trichlorophenol	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,5-Trichlorophenol	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chloronaphthalene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitroaniline	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dimethylphthalate	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthylene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,6-Dinitrotoluene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3-Nitroaniline	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dinitrophenol	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitrophenol	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
ibenzofuran	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
2,4-Dinitrotoluene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Diethylphthalate	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chlorophenyl-phenylether	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluorene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitroaniline	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methyl-4,6-dinitrophenol	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitrosodiphenylamine	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Bromophenyl-phenylether	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobenzene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pentachlorophenol	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenanthrene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Anthracene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Di-n-butylphthalate	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluoranthene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyrene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Azobenzene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Butylbenzylphthalate	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3,3-Dichlorobenzidine	0.65 U	0.65	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo(a)Anthracene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Chrysene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-Ethylhexyl)phthalate	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
di-n-Octylphthalate	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[b]Fluoranthene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[k]fluoranthene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[a]pyrene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Indeno[1,2,3-c,d] pyrene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dibenzo[a,h]anthracene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[g,h,i]perylene	0.32 U	0.32	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	81.2		%	SW846-8270	(18-122)	08/22/99	08/24/99	



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Surrogates								
Phenol-d6 <Surr>	70		%	SW846-8270	(24-88)	08/22/99	08/24/99	
Terphenyl-d14 <Surr>	125		%	SW846-8270	(21-142)	08/22/99	08/24/99	
?-Fluorobiphenyl <Surr>	74.6		%	SW846-8270	(30-103)	08/22/99	08/24/99	
2-Fluorophenol <Surr>	63.4		%	SW846-8270	(18-83)	08/22/99	08/24/99	
Nitrobenzene-d5 <Surr>	70.7		%	SW846-8270	(18-109)	08/22/99	08/24/99	
PCB's by GC ECD								
Aroclor-1016	0.00329 U	0.00329	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1221	0.00329 U	0.00329	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1232	0.00329 U	0.00329	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1242	0.00329 U	0.00329	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1248	0.00329 U	0.00329	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1254	0.00329 U	0.00329	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1260	0.00329 U	0.00329	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	94.3		%	SW846 8082	(53.3-125)	08/20/99	08/22/99	
Pesticides								
alpha-BHC	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
beta-BHC	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
gamma-Chlordane	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
alpha-Chlordane	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
gamma-BHC (Lindane)	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
delta-BHC	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
heptachlor	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Aldrin	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Heptachlor epoxide	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endosulfan I	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
4,4'-DDE	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Dieldrin	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endrin	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endosulfan II	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
4,4'-DDD	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endrin aldehyde	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
4,4'-DDT	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endosulfan sulfate	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endrin ketone	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Methoxychlor	0.000329 U	0.000329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Toxaphene	0.0329 U	0.0329	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	72.4		%	SW846-8081A	(46-154)	08/20/99	08/25/99	
Tetrachloro-m-xylene <Surr>	62.6		%	SW846-8081A	(25-120)	08/20/99	08/25/99	



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PWSID

Client PO# 913
Printed Date/Time 09/10/99 09:34
Collected Date/Time 08/14/99 14:40
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Technical Director: Stephen C. Ede

Released By

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Sample Remarks:

SW7421 GF Metal - MS/MSD recoveries for Pb were outside acceptance criteria; post digestion spike was successful.
SW7761 GF Metal - MS/MSD recoveries for Ag were outside acceptance criteria; post digestion spike was successful.
8270 - LCS/LCSD recovery for pyridine and 3,3-dichlorobenzidine is biased low. The results for these compounds are estimated.
8260 - BFB field surrogate recovery (at 65% vs. 71%) is biased low. This may be due to matrix interference (biogenics in the sample).
8270 - Internal standard phenanthrene-d12 is biased low. The samples are non-detect. The results are not affected.
GRO/BTEX - Field surrogate recovery is biased low, run twice for confirmation, results may be biased low.
SW7041 GF Metal - MS/MSD recoveries for Sb were outside acceptance criteria; post digestion spike was successful.
8081-Detection limit raised 15X due to presence of PCB.
DRO/RRO - Pattern consistent with lube oil.
DRO - Heavier hydrocarbons contributing to diesel range quantitation.
RRO - Surrogate does not meet QC goals due to lube oil pattern. Results not affected.
SW7740 GF Metal - MS/MSD recovery for Se was outside acceptance criteria; bench spike also recovered outside control limits. Sample concentration was confirmed by the method of standard additions.
8270 - Presence of non target analytes requires analysis at a large dilution.

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Total Solids, RCRA Metals (Arsenic, Barium, Cadmium, Chromium, Lead, Mercury by Cold Vapor, Selenium).



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 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-014-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/10/99 09:34
 Collected Date/Time 08/14/99 14:40
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Silver	1.62	0.439	mg/Kg	SW846-7761		08/24/99	08/25/99	KGF
Gasoline Range Organics	2.99 U	2.99	mg/Kg	AK101 GRO		08/14/99	08/24/99	DAR
Surrogates								
4-Bromofluorobenzene <Surr>	37.2		%	AK101 GRO	(50-150)	08/14/99	08/24/99	
1,4-Difluorobenzene <Surr>	91.7		%	AK101 GRO	(50-150)	08/14/99	08/24/99	
VOA by GC/MS Method SW8260								
Dichlorodifluoromethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloromethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Vinyl chloride	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromomethane	0.30 U	0.30	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroethane	0.30 U	0.30	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichlorofluoromethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon disulfide	0.30 U	0.30	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Methylene chloride	0.15 U	0.15	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
trans-1,2-Dichloroethene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Butanone (MEK)	0.30 U	0.30	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2,2-Dichloropropane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,2-Dichloroethene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromochloromethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroform	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1-Trichloroethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon tetrachloride	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloropropene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Benzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichloroethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichloroethene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichloropropane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Dibromomethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dibromochloromethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Chloroethyl Vinyl Ether	0.30 U	0.30	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,3-Dichloropropene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Methyl-2-pentanone (MIBK)	0.30 U	0.30	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Toluene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
trans-1,3-Dichloropropene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,2-Trichloroethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Tetrachloroethene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3-Dichloropropane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Hexanone	0.30 U	0.30	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Dibromochloromethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dibromoethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chlorobenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1,2-Tetrachloroethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Ethylbenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
P & M -Xylene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
o-Xylene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Styrene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromoform	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Isopropylbenzene (Cumene)	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromobenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,2,2-Tetrachloroethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichloropropane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Propylbenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Chlorotoluene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
3-Chlorotoluene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3,5-Trimethylbenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



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tert-Butylbenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,4-Trimethylbenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
sec-Butylbenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3-Dichlorobenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Isopropyltoluene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,4-Dichlorobenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichlorobenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Butylbenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dibromo-3-chloropropane	0.30 U	0.30	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,4-Trichlorobenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Hexachlorobutadiene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Naphthalene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichlorobenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Surrogates								
1,2-Dichloroethane-D4 <surr>	104		%	SW846-8260	(74-123)	08/14/99	08/22/99	
Dibromofluoromethane <surr>	97		%	SW846-8260	(80-118)	08/14/99	08/22/99	
Toluene-d8 <surr>	96.7		%	SW846-8260	(79-130)	08/14/99	08/22/99	
4-Bromofluorobenzene <Surr>	64.6		%	SW846-8260	(71-141)	08/14/99	08/22/99	
DRO/RRO Combination								
Diesel Range Organics	84.0	10.7	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Residual Range Organics GC	592	17.7	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Surrogates								
5a Androstane <surr>	118		%	AK102/103	(50-150)	08/24/99	08/28/99	
d-Triacontane <Surr>	217		%	AK102/103	(50-150)	08/24/99	08/28/99	



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatiles by GC/MS								
N-Nitrosodimethylamine	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyridine	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Aniline	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenol	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethyl)ether	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chlorophenol	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,3-Dichlorobenzene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,4-Dichlorobenzene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzyl alcohol	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,2-Dichlorobenzene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylphenol (o-Cresol)	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-chloroisopropyl)ether	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3&4-Methylphenol (p&m-Cresol)	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitroso-di-n-propylamine	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachloroethane	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Nitrobenzene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Isophorone	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitrophenol	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dimethylphenol	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzoic acid	46 U	46	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethoxy)methane	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,2,4-Trichlorobenzene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Naphthalene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloroaniline	18 U	18	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobutadiene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloro-3-methylphenol	18 U	18	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dichlorophenol	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylnaphthalene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorocyclopentadiene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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2,4,6-Trichlorophenol	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,5-Trichlorophenol	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chloronaphthalene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitroaniline	46 U	46	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dimethylphthalate	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
cenaphthylene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,6-Dinitrotoluene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3-Nitroaniline	46 U	46	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dinitrophenol	46 U	46	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitrophenol	46 U	46	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dibenzofuran	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dinitrotoluene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Diethylphthalate	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chlorophenyl-phenylether	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluorene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitroaniline	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methyl-4,6-dinitrophenol	46 U	46	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitrosodiphenylamine	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Bromophenyl-phenylether	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobenzene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pentachlorophenol	46 U	46	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenanthrene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Anthracene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Di-n-butylphthalate	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluoranthene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyrene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Azobenzene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Butylbenzylphthalate	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3,3-Dichlorobenzidine	18 U	18	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo(a)Anthracene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Chrysene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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bis(2-Ethylhexyl)phthalate	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
di-n-Octylphthalate	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[b]Fluoranthene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[k]fluoranthene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[a]pyrene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Indeno[1,2,3-c,d] pyrene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dibenzo[a,h]anthracene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[g,h,i]perylene	9.1 U	9.1	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	46.3		%	SW846-8270	(18-122)	08/22/99	08/24/99	
Phenol-d6 <Surr>	46.6		%	SW846-8270	(24-88)	08/22/99	08/24/99	
Terphenyl-d14 <Surr>	114		%	SW846-8270	(21-142)	08/22/99	08/24/99	
2-Fluorobiphenyl <Surr>	55.9		%	SW846-8270	(30-103)	08/22/99	08/24/99	
2-Fluorophenol <Surr>	39.5		%	SW846-8270	(18-83)	08/22/99	08/24/99	
Nitrobenzene-d5 <Surr>	41.7		%	SW846-8270	(18-109)	08/22/99	08/24/99	
PCB's by GC ECD								
Aroclor-1016	0.00338 U	0.00338	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1221	0.00338 U	0.00338	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1232	0.00338 U	0.00338	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1242	0.00338 U	0.00338	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1248	0.00338 U	0.00338	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1254	0.00338 U	0.00338	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1260	0.0317	0.00338	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	95.5		%	SW846 8082	(53.3-125)	08/20/99	08/22/99	



CT&E Ref.# 994255006
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-014-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/10/99 09:35
 Collected Date/Time 08/14/99 14:40
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Pesticides								
alpha-BHC	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
beta-BHC	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-Chlordane	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
alpha-Chlordane	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-BHC (Lindane)	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
delta-BHC	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Aldrin	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor epoxide	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan I	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDE	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Dieldrin	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan II	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDD	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin aldehyde	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDT	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan sulfate	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin ketone	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Methoxychlor	0.00507 U	0.00507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Toxaphene	0.507 U	0.507	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	70		%	SW846-8081A	(46-154)	08/20/99	08/26/99	
Tetrachloro-m-xylene <Surr>	76		%	SW846-8081A	(25-120)	08/20/99	08/26/99	



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Released By 

Sample Remarks:

8270 - Internal standard phenanthrene-d12 is biased low. The samples are non-detect. The results are not affected.
 8270 - LCS/LCSD recovery for pyridine and 3,3-dichlorobenzidine is biased low. The results for these compounds are estimated.
 8260 - BFB field surrogate recovery (at 60% vs. 71%) is biased low. This may be due to matrix interference (biogenics in the sample).
 GRO/BTEX - Field surrogate recovery is biased low, run twice for confirmation, results may be biased low.
 DRO/RRO - Possible lube oil pattern.
 DRO - Heavier hydrocarbons contributing to diesel range quantitation.
 8270 - Presence of non target analytes requires analysis at a large dilution.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Total Solids	88.0		%	SM18 2540G			08/24/99	BJS
RCRA Metals								
Arsenic	1.60	0.210	mg/Kg	SW846 7060		08/24/99	08/30/99	JMO
Barium	66.7	4.59	mg/Kg	SW846 60108		08/26/99	08/31/99	WTA
Cadmium	1.57	0.0838	mg/Kg	SW846-7131		08/24/99	08/25/99	KGF
Chromium	23.9	21.0	mg/Kg	SW846-7191		08/24/99	08/25/99	KGF
Lead	311	21.0	mg/Kg	SW846-7421		08/24/99	08/25/99	KGF
Mercury by Cold Vapor	0.115	0.0175	mg/Kg	SW846-7471		08/25/99	08/25/99	RMV
Selenium	0.402	0.210	mg/Kg	SW846-7740		08/24/99	08/27/99	GCP
Silver	0.169	0.0419	mg/Kg	SW846-7761		08/24/99	08/25/99	KGF
Gasoline Range Organics	2.95 U	2.95	mg/Kg	AK101 GRO		08/14/99	08/24/99	DAR



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Surrogates								
4-Bromofluorobenzene <Surr>	27.3		%	AK101 GRO	(50-150)	08/14/99	08/24/99	
1,4-Difluorobenzene <Surr>	94		%	AK101 GRO	(50-150)	08/14/99	08/24/99	
VOA by GC/MS Method SW8260								
Dichlorodifluoromethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloromethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Vinyl chloride	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromomethane	0.30 U	0.30	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroethane	0.30 U	0.30	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichlorofluoromethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon disulfide	0.30 U	0.30	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Methylene chloride	0.15 U	0.15	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
trans-1,2-Dichloroethene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Butanone (MEK)	0.30 U	0.30	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2,2-Dichloropropane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,2-Dichloroethene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromochloromethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroform	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1-Trichloroethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon tetrachloride	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloropropene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Benzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichloroethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichloroethene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichloropropane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromomethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



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Bromodichloromethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Chloroethyl Vinyl Ether	0.30 U	0.30	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,3-Dichloropropene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Methyl-2-pentanone (MIBK)	0.30 U	0.30	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Toluene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
trans-1,3-Dichloropropene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,2-Trichloroethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Tetrachloroethene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3-Dichloropropane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Hexanone	0.30 U	0.30	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Dibromochloromethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dibromoethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chlorobenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1,2-Tetrachloroethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Ethylbenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
P & M -Xylene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
o-Xylene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Styrene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromoform	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Isopropylbenzene (Cumene)	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromobenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,2,2-Tetrachloroethane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichloropropane	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Propylbenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Chlorotoluene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Chlorotoluene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3,5-Trimethylbenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
tert-Butylbenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,4-Trimethylbenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
sec-Butylbenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3-Dichlorobenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Isopropyltoluene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
1,4-Dichlorobenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichlorobenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Butylbenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dibromo-3-chloropropane	0.30 U	0.30	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,4-Trichlorobenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
hexachlorobutadiene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Naphthalene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichlorobenzene	0.030 U	0.030	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Surrogates								
1,2-Dichloroethane-D4 <surr>	104		%	SW846-8260	(74-123)	08/14/99	08/22/99	
Dibromofluoromethane <surr>	98.4		%	SW846-8260	(80-118)	08/14/99	08/22/99	
Toluene-d8 <surr>	96.8		%	SW846-8260	(79-130)	08/14/99	08/22/99	
4-Bromofluorobenzene <Surr>	60		%	SW846-8260	(71-141)	08/14/99	08/22/99	
DRO/RRO Combination								
Diesel Range Organics	68.8	9.91	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Residual Range Organics GC	303	16.4	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Surrogates								
5a Androstane <surr>	109		%	AK102/103	(50-150)	08/24/99	08/28/99	
d-Triacontane <Surr>	143		%	AK102/103	(50-150)	08/24/99	08/28/99	
Semivolatiles by GC/MS								
N-Nitrosodimethylamine	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyridine	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Aniline	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenol	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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Bis(2-Chloroethyl)ether	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chlorophenol	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,3-Dichlorobenzene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,4-Dichlorobenzene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzyl alcohol	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,2-Dichlorobenzene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylphenol (o-Cresol)	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-chloroisopropyl)ether	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3&4-Methylphenol (p&m-Cresol)	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitroso-di-n-propylamine	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachloroethane	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Nitrobenzene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Isophorone	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitrophenol	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dimethylphenol	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzoic acid	46 U	46	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethoxy)methane	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,2,4-Trichlorobenzene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Naphthalene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloroaniline	18 U	18	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobutadiene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloro-3-methylphenol	18 U	18	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dichlorophenol	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylnaphthalene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorocyclopentadiene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,6-Trichlorophenol	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,5-Trichlorophenol	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chloronaphthalene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitroaniline	46 U	46	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dimethylphthalate	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthylene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,6-Dinitrotoluene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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3-Nitroaniline	46 U	46	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dinitrophenol	46 U	46	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitrophenol	46 U	46	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dibenzofuran	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,4-Dinitrotoluene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Diethylphthalate	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chlorophenyl-phenylether	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluorene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitroaniline	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methyl-4,6-dinitrophenol	46 U	46	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitrosodiphenylamine	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Bromophenyl-phenylether	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobenzene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pentachlorophenol	46 U	46	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenanthrene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Anthracene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Di-n-butylphthalate	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluoranthene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyrene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Azobenzene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Butylbenzylphthalate	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3,3-Dichlorobenzidine	18 U	18	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo(a)Anthracene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Chrysene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-Ethylhexyl)phthalate	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
di-n-Octylphthalate	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[b]Fluoranthene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[k]fluoranthene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[a]pyrene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Indeno[1,2,3-c,d] pyrene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[a,h]anthracene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



CT&E Ref.# 994255007
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-015-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/10/99 09:35
 Collected Date/Time 08/14/99 14:40
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Benzo[g,h,i]perylene	9.0 U	9.0	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	23.2		%	SW846-8270	(18-122)	08/22/99	08/24/99	
Phenol-d6 <Surr>	34.3		%	SW846-8270	(24-88)	08/22/99	08/24/99	
Terphenyl-d14 <Surr>	67.2		%	SW846-8270	(21-142)	08/22/99	08/24/99	
2-Fluorobiphenyl <Surr>	42.2		%	SW846-8270	(30-103)	08/22/99	08/24/99	
2-Fluorophenol <Surr>	31		%	SW846-8270	(18-83)	08/22/99	08/24/99	
Nitrobenzene-d5 <Surr>	32		%	SW846-8270	(18-109)	08/22/99	08/24/99	
PCB's by GC ECD								
Aroclor-1016	0.00353 U	0.00353	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1221	0.00353 U	0.00353	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1232	0.00353 U	0.00353	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1242	0.00353 U	0.00353	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1248	0.00353 U	0.00353	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1254	0.00353 U	0.00353	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Aroclor-1260	0.0111	0.00353	mg/Kg	SW846 8082		08/20/99	08/22/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	74.2		%	SW846 8082	(53.3-125)	08/20/99	08/22/99	
Pesticides								
alpha-BHC	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
beta-BHC	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-Chlordane	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
alpha-Chlordane	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
amma-BHC (Lindane)	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ



CT&E Ref.# 994255007
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-015-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/10/99 09:35
 Collected Date/Time 08/14/99 14:40
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
delta-BHC	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Aldrin	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor epoxide	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan I	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDE	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Jieldrin	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan II	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDD	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin aldehyde	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDT	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan sulfate	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin ketone	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Methoxychlor	0.00177 U	0.00177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Toxaphene	0.177 U	0.177	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	66.5		%	SW846-8081A	(46-154)	08/20/99	08/26/99	
Tetrachloro-m-xylene <Surr>	72		%	SW846-8081A	(25-120)	08/20/99	08/26/99	

Quanterra Environmental Services, Anchorage, AK

Lab Report No.: 064096 Date: 10/04/99

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Project Name: Gambell HTW/Debris		Analysis: Gasoline Range Organics, Alaska Dept. of				
Project No: 99-092		Method: AK101				
		Prep Meth: AK101PR				
Field ID: 99-GAM-016-SL	Lab Samp ID: 0640960003SA					
Descr/Location: 99-G	Rec'd Date: 08/14/99					
Sample Date: 08/14/99	Prep Date: 08/25/99					
Sample Time: 1420	Analysis Date: 08/25/99					
Matrix: Soil	QC Batch: S990825N					
Basis: Dry Weight	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	1.7	5.4	PQL	ND	MG/KG	1.0
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		50-150	SLSA GN	40% !		1.0
Trifluorotoluene		50-150	SLSA	92%		1.0
GN: Surrogate recovery is outside of control limits						

Approved by: _____

Date: _____

Lab Report No.: 064096 Date: 10/04/99

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Project Name: Gambell HTW/Debris		Analysis: Diesel Range Organics, Alaska Dept. of				
Project No: 99-092		Method: AK102				
		Prep Meth: SW3541				
Field ID: 99-GAM-016-SL	Lab Samp ID: 0640960001SA					
Descr/Location: 99-G	Rec'd Date: 08/18/99					
Sample Date: 08/14/99	Prep Date: 08/24/99					
Sample Time: 1420	Analysis Date: 08/28/99					
Matrix: Soil	QC Batch: S9908241					
Basis: Dry Weight	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Diesel Range Organics	1.8	4.6	PQL	72	MG/KG	1.0
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
o-Terphenyl		50-150	SLSA	103%		1

Approved by: _____ Date: _____

Lab Report No.: 064096 Date: 10/04/99

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Project Name: Gambell HTW/Debris		Analysis: State of Alaska Residual Range Hydrocarbons				
Project No: 99-092		Method: AK103				
		Prep Meth: SW3541				
Field ID: 99-GAM-016-SL	Lab Samp ID: 0640960001SA					
Descr/Location: 99-G	Rec'd Date: 08/18/99					
Sample Date: 08/14/99	Prep Date: 08/24/99					
Sample Time: 1420	Analysis Date: 08/28/99					
Matrix: Soil	QC Batch: S9908241					
Basis: Dry Weight	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Residual Range Organics	1.9	11.	PQL	270	MG/KG	1.0
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
Tricontane		50-150	SLSA AZ	160%!		1.0
AZ: Surr. recovery outside of acceptance limits due to matrix interf.						

Approved by: _____

Date: _____

Project Name: Gambell HTW/Debris	Analysis: Organochlorine Pesticides & PCBs as Aroclors by
Project No: 99-092	Method: SW8081
	Prep Meth: SW3541

Field ID: 99-GAM-016-SL	Lab Samp ID: 0640960001SA
Descr/Location: 99-G	Rec'd Date: 08/18/99
Sample Date: 08/14/99	Prep Date: 08/25/99
Sample Time: 1420	Analysis Date: 09/07/99
Matrix: Soil	QC Batch: S9908251
Basis: Dry Weight	Notes:

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Aldrin	0.20	2.0	PQL	ND	UG/KG	1.0
alpha-BHC	0.20	2.0	PQL	ND	UG/KG	1.0
beta-BHC	0.47	2.0	PQL	ND	UG/KG	1.0
gamma-BHC (Lindane)	0.20	2.0	PQL	ND	UG/KG	1.0
delta-BHC	0.20	2.0	PQL	ND	UG/KG	1.0
4,4'-DDD	0.24	2.0	PQL	ND	UG/KG	1.0
4,4'-DDE	0.20	2.0	PQL	ND	UG/KG	1.0
4,4'-DDT	0.44	2.0	PQL	ND	UG/KG	1.0
Dieldrin	0.20	2.0	PQL	ND	UG/KG	1.0
Endosulfan I	0.20	2.0	PQL	ND	UG/KG	1.0
Endosulfan II	0.44	2.0	PQL	ND	UG/KG	1.0
Endosulfan sulfate	0.21	2.0	PQL	ND	UG/KG	1.0
Endrin	0.20	2.0	PQL	ND	UG/KG	1.0
Endrin aldehyde	0.21	2.0	PQL	ND	UG/KG	1.0
Endrin ketone	0.21	2.0	PQL	ND	UG/KG	1.0
Heptachlor	0.23	2.0	PQL	ND	UG/KG	1.0
Heptachlor epoxide	0.20	2.0	PQL	ND	UG/KG	1.0
Methoxychlor	0.76	3.8	PQL	ND	UG/KG	1.0
Toxaphene	3.0	77.	PQL	ND	UG/KG	1.0
Chlordane	1.1	20.	PQL	ND	UG/KG	1.0

SURROGATE AND INTERNAL STANDARD RECOVERIES:

Decachlorobiphenyl	10-181	SLSA	32%	1
Tetrachlorometaxylene	23-149	SLSA	64%	1

Approved by: _____

Date: _____

Project Name: Gambell HTW/Debris	Analysis: Polychlorinated Biphenyls (PCBs) by Gas					
Project No: 99-092	Method: SW8082					
	Prep Meth: SW3550					
Field ID: 99-GAM-016-SL	Lab Samp ID: 0640960001SA					
Descr/Location: 99-G	Rec'd Date: 08/18/99					
Sample Date: 08/14/99	Prep Date: 08/25/99					
Sample Time: 1420	Analysis Date: 09/07/99					
Matrix: Soil	QC Batch: S9908251					
Basis: Dry Weight	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
PCB-1016 (Aroclor 1016)	0.0033	0.038 PQL		ND	MG/KG	1.0
PCB-1221 (Aroclor 1221)	0.0037	0.038 PQL		ND	MG/KG	1.0
PCB-1232 (Aroclor 1232)	0.0080	0.038 PQL		ND	MG/KG	1.0
PCB-1242 (Aroclor 1242)	0.013	0.038 PQL		ND	MG/KG	1.0
PCB-1248 (Aroclor 1248)	0.0089	0.038 PQL		ND	MG/KG	1.0
PCB-1254 (Aroclor 1254)	0.0038	0.038 PQL		ND	MG/KG	1.0
PCB-1260 (Aroclor 1260)	0.0020	0.038 PQL		ND	MG/KG	1.0
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
Decachlorobiphenyl		10-181 SLSA		32%		
Tetrachlorometaxylene		23-149 SLSA		64%		

Approved by: _____

Date: _____

Project Name: Gambell HTW/Debris Analysis: Volatile Organic Compounds by GC/MS
 Project No: 99-092 Method: SW8260
 Prep Meth: SW5030

Field ID: 99-GAM-016-SL Lab Samp ID: 0640960003SA
 Descr/Location: 99-G Rec'd Date: 08/14/99
 Sample Date: 08/14/99 Prep Date: 08/14/99
 Sample Time: 1420 Analysis Date: 08/26/99
 Matrix: Soil QC Batch: S9908261
 Basis: Dry Weight Notes:

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Benzene	18.	150.	PQL	ND	UG/KG	0.55
Bromobenzene	21.	150.	PQL	ND	UG/KG	0.55
Bromochloromethane	30.	150.	PQL	ND	UG/KG	0.55
Bromodichloromethane	25.	150.	PQL	ND	UG/KG	0.55
Bromoform	24.	150.	PQL	ND	UG/KG	0.55
Bromomethane	160.	300.	PQL	ND	UG/KG	0.55
n-Butylbenzene	29.	150.	PQL	ND	UG/KG	0.55
sec-Butylbenzene	21.	150.	PQL	ND	UG/KG	0.55
tert-Butylbenzene	18.	150.	PQL	ND	UG/KG	0.55
Carbon tetrachloride	20.	150.	PQL	ND	UG/KG	0.55
Chlorobenzene	15.	150.	PQL	ND	UG/KG	0.55
Dibromochloromethane	21.	150.	PQL	ND	UG/KG	0.55
Chloroethane	87.	300.	PQL	ND	UG/KG	0.55
Chloroform	15.	150.	PQL	ND	UG/KG	0.55
Chloromethane	160.	300.	PQL	ND	UG/KG	0.55
2-Chlorotoluene	15.	150.	PQL	ND	UG/KG	0.55
4-Chlorotoluene	17.	150.	PQL	ND	UG/KG	0.55
1,2-Dibromo-3-chloropropane	67.	300.	PQL	ND	UG/KG	0.55
1,2-Dibromoethane	29.	150.	PQL	ND	UG/KG	0.55
Dibromomethane	19.	150.	PQL	ND	UG/KG	0.55
1,2-Dichlorobenzene	15.	150.	PQL	ND	UG/KG	0.55
1,3-Dichlorobenzene	15.	150.	PQL	ND	UG/KG	0.55
1,4-Dichlorobenzene	15.	150.	PQL	ND	UG/KG	0.55
Dichlorodifluoromethane	75.	300.	PQL	ND	UG/KG	0.55
1,1-Dichloroethane	21.	150.	PQL	ND	UG/KG	0.55
1,2-Dichloroethane	45.	150.	PQL	ND	UG/KG	0.55
1,1-Dichloroethene	24.	150.	PQL	ND	UG/KG	0.55
cis-1,2-Dichloroethene	18.	75.	PQL	ND	UG/KG	0.55
trans-1,2-Dichloroethene	25.	75.	PQL	ND	UG/KG	0.55
1,2-Dichloropropane	20.	150.	PQL	ND	UG/KG	0.55

Approved by: _____

Date: _____

Project Name: Gambell HTW/Debris Analysis: Volatile Organic Compounds by GC/MS
 Project No: 99-092 Method: SW8260
 Prep Meth: SW5030

Field ID: 99-GAM-016-SL Lab Samp ID: 0640960003SA
 Descr/Location: 99-G Rec'd Date: 08/14/99
 Sample Date: 08/14/99 Prep Date: 08/14/99
 Sample Time: 1420 Analysis Date: 08/26/99
 Matrix: Soil QC Batch: S990826I
 Basis: Dry Weight Notes:

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
1,3-Dichloropropane	23.	150.	PQL	ND	UG/KG	0.55
2,2-Dichloropropane	27.	600.	PQL	ND	UG/KG	0.55
1,1-Dichloropropene	15.	150.	PQL	ND	UG/KG	0.55
Ethylbenzene	15.	150.	PQL	ND	UG/KG	0.55
Hexachlorobutadiene	77.	150.	PQL	ND	UG/KG	0.55
Isopropylbenzene	15.	150.	PQL	ND	UG/KG	0.55
4-Isopropyltoluene	20.	150.	PQL	ND	UG/KG	0.55
Methylene chloride	31.	150.	PQL	ND	UG/KG	0.55
Naphthalene	47.	150.	PQL	ND	UG/KG	0.55
n-Propylbenzene	22.	150.	PQL	ND	UG/KG	0.55
Styrene	16.	150.	PQL	ND	UG/KG	0.55
1,1,1,2-Tetrachloroethane	15.	150.	PQL	ND	UG/KG	0.55
1,1,2,2-Tetrachloroethane	68.	150.	PQL	ND	UG/KG	0.55
Tetrachloroethene	16.	150.	PQL	ND	UG/KG	0.55
Toluene	15.	150.	PQL	ND	UG/KG	0.55
1,2,3-Trichlorobenzene	52.	150.	PQL	ND	UG/KG	0.55
1,2,4-Trichlorobenzene	44.	150.	PQL	ND	UG/KG	0.55
1,1,1-Trichloroethane	17.	150.	PQL	ND	UG/KG	0.55
1,1,2-Trichloroethane	15.	150.	PQL	ND	UG/KG	0.55
Trichloroethene	15.	150.	PQL	ND	UG/KG	0.55
Trichlorofluoromethane	160.	300.	PQL	ND	UG/KG	0.55
1,2,3-Trichloropropane	17.	150.	PQL	ND	UG/KG	0.55
1,2,4-Trimethylbenzene	18.	150.	PQL	ND	UG/KG	0.55
1,3,5-Trimethylbenzene	22.	150.	PQL	ND	UG/KG	0.55
Vinyl chloride	130.	300.	PQL	ND	UG/KG	0.55
o-Xylene	15.	75.	PQL	ND	UG/KG	0.55
Acetone	130.	600.	PQL	ND	UG/KG	0.55
Carbon disulfide	22.	150.	PQL	ND	UG/KG	0.55
2-Chloroethyl vinyl ether	56.	600.	PQL	ND	UG/KG	0.55
1-Chlorohexane	15.	150.	PQL	ND	UG/KG	0.55

Approved by: _____

Date: _____

Project Name: Gambell HTW/Debris	Analysis: Volatile Organic Compounds by GC/MS
Project No: 99-092	Method: SW8260
	Prep Meth: SW5030

Field ID: 99-GAM-016-SL	Lab Samp ID: 0640960003SA
Descr/Location: 99-G	Rec'd Date: 08/14/99
Sample Date: 08/14/99	Prep Date: 08/14/99
Sample Time: 1420	Analysis Date: 08/26/99
Matrix: Soil	QC Batch: S990826I
Basis: Dry Weight	Notes:

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
cis-1,3-Dichloropropene	15.	150.	PQL	ND	UG/KG	0.55
trans-1,3-Dichloropropene	16.	150.	PQL	ND	UG/KG	0.55
1,1,2-Trichloro-1,2,2-trifluoroethane	15.	150.	PQL	ND	UG/KG	0.55
2-Hexanone	110.	600.	PQL	ND	UG/KG	0.55
2-Butanone	150.	600.	PQL	ND	UG/KG	0.55
4-Methyl-2-pentanone	95.	600.	PQL	ND	UG/KG	0.55
Vinyl acetate	31.	300.	PQL	ND	UG/KG	0.55
Xylenes	22.	150.	PQL	ND	UG/KG	0.55
m,p-Xylene (Sum of Isomers)	30.	75.	PQL	ND	UG/KG	0.55

SURROGATE AND INTERNAL STANDARD RECOVERIES:

4-Bromofluorobenzene	70-130	SLSA GN	144% !	0.
Toluene-d8	70-130	SLSA	101%	0.
Dibromofluoromethane	70-130	SLSA	101%	0.
1,2-Dichloroethane-d4	70-130	SLSA	106%	0.

GN: Surrogate recovery is outside of control limits

Approved by: _____

Date: _____

Project Name: Gambell HTW/Debris Analysis: Semivolatile Organic Compounds by GC/MS
 Project No: 99-092 Method: SW8270
 Prep Meth: SW3541

Field ID: 99-GAM-016-SL Lab Samp ID: 0640960001SA
 Descr/Location: 99-G Rec'd Date: 08/18/99
 Sample Date: 08/14/99 Prep Date: 08/25/99
 Sample Time: 1420 Analysis Date: 09/09/99
 Matrix: Soil QC Batch: S990825E
 Basis: Dry Weight Notes:

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Acenaphthene	610.	3800.	PQL	ND	UG/KG	10
Acenaphthylene	710.	3800.	PQL	ND	UG/KG	10
Aniline	700.	3800.	PQL	ND	UG/KG	10
Anthracene	580.	3800.	PQL	ND	UG/KG	10
Benzoic acid	1200.	****.	PQL	ND	UG/KG	10
Benzo(a)anthracene	590.	3800.	PQL	ND	UG/KG	10
Benzo(b)fluoranthene	610.	3800.	PQL	ND	UG/KG	10
Benzo(k)fluoranthene	620.	3800.	PQL	ND	UG/KG	10
Benzo(g,h,i)perylene	570.	3800.	PQL	ND	UG/KG	10
Benzo(a)pyrene	550.	3800.	PQL	ND	UG/KG	10
Benzyl alcohol	920.	3800.	PQL	ND	UG/KG	10
bis-(2-chloroethoxy)methane	720.	3800.	PQL	ND	UG/KG	10
bis-(2-Chloroethyl)ether	680.	3800.	PQL	ND	UG/KG	10
bis(2-Chloroisopropyl)ether	790.	3800.	PQL	ND	UG/KG	10
bis-(2-ethylhexyl)phthalate	780.	3800.	PQL	ND	UG/KG	10
4-Bromophenyl phenyl ether	780.	3800.	PQL	ND	UG/KG	10
Benzyl butyl phthalate	850.	3800.	PQL	ND	UG/KG	10
4-Chloroaniline	790.	3800.	PQL	ND	UG/KG	10
1-Chloronaphthalene	590.	3800.	PQL	ND	UG/KG	10
2-Chloronaphthalene	520.	3800.	PQL	ND	UG/KG	10
4-Chloro-3-methylphenol	940.	3800.	PQL	ND	UG/KG	10
2-Chlorophenol	650.	3800.	PQL	ND	UG/KG	10
4-Chlorophenyl phenyl ether	540.	3800.	PQL	ND	UG/KG	10
Chrysene	540.	3800.	PQL	ND	UG/KG	10
Dibenzo(a,h)anthracene	570.	3800.	PQL	ND	UG/KG	10
Dibenzofuran	560.	3800.	PQL	ND	UG/KG	10
Di-n-butyl phthalate	610.	3800.	PQL	ND	UG/KG	10
1,3-Dichlorobenzene	660.	3800.	PQL	ND	UG/KG	10
1,4-Dichlorobenzene	580.	3800.	PQL	ND	UG/KG	10
1,2-Dichlorobenzene	500.	3800.	PQL	ND	UG/KG	10

Approved by: _____

Date: _____

Project Name: Gambell HTW/Debris	Analysis: Semivolatile Organic Compounds by GC/MS
Project No: 99-092	Method: SW8270
	Prep Meth: SW3541

Field ID: 99-GAM-016-SL	Lab Samp ID: 0640960001SA
Descr/Location: 99-G	Rec'd Date: 08/18/99
Sample Date: 08/14/99	Prep Date: 08/25/99
Sample Time: 1420	Analysis Date: 09/09/99
Matrix: Soil	QC Batch: S990825E
Basis: Dry Weight	Notes:

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
3,3'-Dichlorobenzidine	8600.	****	PQL	ND	UG/KG	10
2,4-Dichlorophenol	960.	3800.	PQL	ND	UG/KG	10
Diethyl phthalate	460.	3800.	PQL	ND	UG/KG	10
2,4-Dimethylphenol	590.	3800.	PQL	ND	UG/KG	10
Dimethyl phthalate	540.	3800.	PQL	ND	UG/KG	10
2-Methyl-4,6-dinitrophenol	650.	****	PQL	ND	UG/KG	10
2,4-Dinitrophenol	570.	****	PQL	ND	UG/KG	10
2,4-Dinitrotoluene	690.	3800.	PQL	ND	UG/KG	10
2,6-Dinitrotoluene	910.	3800.	PQL	ND	UG/KG	10
Di-n-octyl phthalate	540.	3800.	PQL	ND	UG/KG	10
Fluoranthene	520.	3800.	PQL	ND	UG/KG	10
Fluorene	470.	3800.	PQL	ND	UG/KG	10
Hexachlorobenzene	450.	3800.	PQL	ND	UG/KG	10
Hexachlorobutadiene	1700.	3800.	PQL	ND	UG/KG	10
Hexachlorocyclopentadiene	540.	****	PQL	ND	UG/KG	10
Hexachloroethane	850.	3800.	PQL	ND	UG/KG	10
Indeno(1,2,3-cd)pyrene	520.	3800.	PQL	ND	UG/KG	10
Isophorone	680.	3800.	PQL	ND	UG/KG	10
2-Methylnaphthalene	660.	3800.	PQL	ND	UG/KG	10
2-Methylphenol (o-Cresol)	990.	3800.	PQL	ND	UG/KG	10
4-Methylphenol (p-Cresol)	1900.	3800.	PQL	ND	UG/KG	10
Naphthalene	620.	3800.	PQL	ND	UG/KG	10
2-Nitroaniline	650.	****	PQL	ND	UG/KG	10
3-Nitroaniline	770.	****	PQL	ND	UG/KG	10
4-Nitroaniline	720.	****	PQL	ND	UG/KG	10
Nitrobenzene	590.	3800.	PQL	ND	UG/KG	10
2-Nitrophenol	900.	3800.	PQL	ND	UG/KG	10
4-Nitrophenol	570.	****	PQL	ND	UG/KG	10
n-Nitrosodimethylamine	1200.	3800.	PQL	ND	UG/KG	10
n-Nitrosodiphenylamine	920.	3800.	PQL	ND	UG/KG	10

Approved by: _____

Date: _____

Project Name: Gambell HTW/Debris		Analysis: Semivolatile Organic Compounds by GC/MS				
Project No: 99-092		Method: SW8270				
		Prep Meth: SW3541				
Field ID: 99-GAM-016-SL	Lab Samp ID: 0640960001SA					
Descr/Location: 99-G	Rec'd Date: 08/18/99					
Sample Date: 08/14/99	Prep Date: 08/25/99					
Sample Time: 1420	Analysis Date: 09/09/99					
Matrix: Soil	QC Batch: S990825E					
Basis: Dry Weight	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
n-Nitrosodi-n-propylamine	750.	3800.	PQL	ND	UG/KG	10
Pentachlorophenol	800.	****.	PQL	ND	UG/KG	10
Phenanthrene	370.	3800.	PQL	ND	UG/KG	10
Phenol	620.	3800.	PQL	ND	UG/KG	10
Pyrene	760.	3800.	PQL	ND	UG/KG	10
1,2,4-Trichlorobenzene	680.	3800.	PQL	ND	UG/KG	10
2,4,5-Trichlorophenol	800.	3800.	PQL	ND	UG/KG	10
2,4,6-Trichlorophenol	740.	3800.	PQL	ND	UG/KG	10
Azobenzene	690.	3800.	PQL	ND	UG/KG	10
Carbazole	290.	3800.	PQL	ND	UG/KG	10
Pyridine	890.	7600.	PQL	ND	UG/KG	10
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
Nitrobenzene-d5		25-159	SLSA AX	0.0% !		
2,4,6-Tribromophenol		25-178	SLSA AX	0.0% !		
2-Fluorophenol		25-132	SLSA AX	0.0% !		
Phenol-d5		25-144	SLSA AX	0.0% !		
2-Fluorobiphenyl		25-158	SLSA AX	0.0% !		
Terphenyl-d14		25-166	SLSA AX	0.0% !		
AX: Sample too dilute to quantify surrogate						

Approved by: _____

Date: _____

Quanterra Environmental Services, Anchorage, AK

Lab Report No.: 064096 Date: 10/04/99

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Project Name: Gambell HTW/Debris Remova	Project No: 99-092	
Field ID: 99-GAM-016-SL	Sample Date: 08/14/99	Basis: Dry
Descr/Location: 99-G	Sample Time: 1420	Matrix: Soil
	Lab Samp ID: 0640960001SA	

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date	QC Batch
Mercury	0.02	0.10	PQL	0.12	MG/KG dw	1.0	METHOD	SW7471	08/24/99	S990823HB

Approved by: _____ Date: _____

Quanterra Environmental Services, Anchorage, AK

Lab Report No.: 064096 Date: 10/04/99

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Project Name: Gambell HTW/Debris Remova	Project No: 99-092	
Field ID: 99-GAM-016-SL	Sample Date: 08/14/99	Basis: Dry
Descr/Location: 99-G	Sample Time: 1420	Matrix: Soil
	Lab Samp ID: E9H210161002	

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date	QC Batch
Arsenic	0.92	2.3	PQL	8.3	MG/KG dw	2.0	SW3050B	SW6010B	08/25/99	S9908231
Barium	0.23	4.6	PQL	57.0	MG/KG dw	2.0	SW3050B	SW6010B	08/25/99	S9908231
Cadmium	0.12	1.2	PQL	ND	MG/KG dw	2.0	SW3050B	SW6010B	08/25/99	S9908231
Chromium	0.23	2.3	PQL	24.7	MG/KG dw	2.0	SW3050B	SW6010B	08/25/99	S9908231
Lead	0.46	1.2	PQL	197.	MG/KG dw	2.0	SW3050B	SW6010B	08/25/99	S9908231
Selenium	0.92	1.2	PQL	1.3	MG/KG dw	2.0	SW3050B	SW6010B	08/25/99	S9908231
Silver	0.23	2.3	PQL	ND	MG/KG dw	2.0	SW3050B	SW6010B	08/25/99	S9908231

Approved by: _____ Date: _____

Quanterra Environmental Services, Anchorage, AK

Lab Report No.: 064096 Date: 10/04/99

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Project Name: Gambell HTW/Debris Remova			Project No: 99-092		
Field ID: 99-GAM-016-SL		Sample Date: 08/14/99		Basis: Not Filtered	
Descr/Location: 99-G		Sample Time: 1420		Matrix: Soil	
Lab Samp ID: 0640960001SA					

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date	QC Batch
Percent Moisture	NA	NA		13.	PERCE	1.0	NONE	D2216	08/25/99	S990824H20

Approved by: _____ Date: _____

Quanterra Environmental Services, Anchorage, AK

Lab Report No.: 064096 Date: 10/04/99

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Project Name: Gambell HTW/Debris Remova		Project No: 99-092	
Field ID: 99-GAM-016-SL	Sample Date: 08/14/99	Basis: Not Filtered	
Descr/Location: 99-G	Sample Time: 1420	Matrix: Soil	
Lab Samp ID: 0640960003SA			

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date	QC Batch
Percent Moisture	NA	NA		8.	PERCE	1.0	NONE	D2216	08/25/99	S990824H20

Approved by: _____ Date: _____



CT&E Ref.# 994255008
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-017-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:28
 Collected Date/Time 08/14/99 15:15
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen E. Ede

Released By

Sample Remarks:

8270 - LCS/LCSD recovery for pyridine and 3,3-dichlorobenzidine is biased low. The results for these compounds are estimated.

8270 - Internal standard phenanthrene-d12 is biased low. The samples are non-detect. The results are not affected.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
^								
Total Solids	96.1		%	SM18 2540G			08/24/99	BJS
RCRA Metals								
Arsenic	3.13	0.200	mg/Kg	SW846 7060		08/24/99	08/30/99	JMO
Barium	10.0	4.19	mg/Kg	SW846 6010B		08/26/99	08/31/99	WTA
Cadmium	0.0699	0.0200	mg/Kg	SW846-7131		08/24/99	08/25/99	KGF
Chromium	5.52	2.00	mg/Kg	SW846-7191		08/24/99	08/25/99	KGF
Lead	6.43	2.00	mg/Kg	SW846-7421		08/24/99	08/25/99	KGF
Mercury by Cold Vapor	0.00873 U	0.00873	mg/Kg	SW846-7471		08/25/99	08/25/99	RMV
Selenium	0.200 U	0.200	mg/Kg	SW846-7740		08/24/99	08/27/99	GCP
Silver	0.0400 U	0.0400	mg/Kg	SW846-7761		08/24/99	08/25/99	KGF
-								
Gasoline Range Organics	1.88 U	1.88	mg/Kg	AK101 GRO		08/14/99	08/24/99	DAR
Surrogates								
4-Bromofluorobenzene <Surr>	68		%	AK101 GRO	(50-150)	08/14/99	08/24/99	
1,4-Difluorobenzene <Surr>	95.3		%	AK101 GRO	(50-150)	08/14/99	08/24/99	



CT&E Ref.# 994255008
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-017-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:28
 Collected Date/Time 08/14/99 15:15
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
VOA by GC/MS Method SW8260								
Dichlorodifluoromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Vinyl chloride	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromomethane	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroethane	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichlorofluoromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon disulfide	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Methylene chloride	0.094 U	0.094	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
trans-1,2-Dichloroethene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Butanone (MEK)	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2,2-Dichloropropane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,2-Dichloroethene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromochloromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroform	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1-Trichloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon tetrachloride	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloropropene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Benzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichloroethene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichloropropane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Dibromomethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromodichloromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Chloroethyl Vinyl Ether	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,3-Dichloropropene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
-Methyl-2-pentanone (MIBK)	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
luene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



CT&E Ref.# 994255008
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-017-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:28
 Collected Date/Time 08/14/99 15:15
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
trans-1,3-Dichloropropene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,2-Trichloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Tetrachloroethene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3-Dichloropropane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Hexanone	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Dibromochloromethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dibromoethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1,2-Tetrachloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Ethylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
P & M -Xylene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
o-Xylene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Styrene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromoform	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Isopropylbenzene (Cumene)	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,2,2-Tetrachloroethane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichloropropane	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Propylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Chlorotoluene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Chlorotoluene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3,5-Trimethylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
tert-Butylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,4-Trimethylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
sec-Butylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3-Dichlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Isopropyltoluene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,4-Dichlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Butylbenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dibromo-3-chloropropane	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,4-Trichlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



CT&E Ref.# 994255008
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-017-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:28
 Collected Date/Time 08/14/99 15:15
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Hexachlorobutadiene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Naphthalene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichlorobenzene	0.019 U	0.019	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Surrogates								
1,2-Dichloroethane-D4 <sur>	105		%	SW846-8260	(74-123)	08/14/99	08/22/99	
Dibromofluoromethane <sur>	101		%	SW846-8260	(80-118)	08/14/99	08/22/99	
Toluene-d8 <sur>	101		%	SW846-8260	(79-130)	08/14/99	08/22/99	
4-Bromofluorobenzene <Surr>	97		%	SW846-8260	(71-141)	08/14/99	08/22/99	
DRO/RRO Combination								
Diesel Range Organics	15.3	9.88	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Residual Range Organics GC	47.7	16.3	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Surrogates								
5a Androstane <sur>	95.7		%	AK102/103	(50-150)	08/24/99	08/28/99	
d-Triacontane <Surr>	113		%	AK102/103	(50-150)	08/24/99	08/28/99	
Semivolatiles by GC/MS								
N-Nitrosodimethylamine	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyridine	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Aniline	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenol	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethyl)ether	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chlorophenol	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,3-Dichlorobenzene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,4-Dichlorobenzene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzyl alcohol	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



CT&E Ref.# 994255008
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-017-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:28
 Collected Date/Time 08/14/99 15:15
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
1,2-Dichlorobenzene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylphenol (o-Cresol)	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-chloroisopropyl)ether	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3&4-Methylphenol (p&m-Cresol)	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitroso-di-n-propylamine	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachloroethane	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Nitrobenzene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Isophorone	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitrophenol	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dimethylphenol	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzoic acid	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethoxy)methane	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,2,4-Trichlorobenzene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Naphthalene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloroaniline	0.69 U	0.69	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobutadiene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloro-3-methylphenol	0.69 U	0.69	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dichlorophenol	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylnaphthalene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorocyclopentadiene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,6-Trichlorophenol	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,5-Trichlorophenol	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chloronaphthalene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitroaniline	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dimethylphthalate	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthylene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,6-Dinitrotoluene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3-Nitroaniline	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dinitrophenol	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitrophenol	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
ibenzofuran	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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 Matrix Soil/Solid
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 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:28
 Collected Date/Time 08/14/99 15:15
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
2,4-Dinitrotoluene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Diethylphthalate	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chlorophenyl-phenylether	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluorene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitroaniline	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methyl-4,6-dinitrophenol	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitrosodiphenylamine	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Bromophenyl-phenylether	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobenzene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pentachlorophenol	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenanthrene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Anthracene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Di-n-butylphthalate	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluoranthene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyrene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Azobenzene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Butylbenzylphthalate	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3,3-Dichlorobenzidine	0.69 U	0.69	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo(a)Anthracene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Chrysene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-Ethylhexyl)phthalate	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
di-n-Octylphthalate	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[b]Fluoranthene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[k]fluoranthene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[a]pyrene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Indeno[1,2,3-c,d] pyrene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dibenzo[a,h]anthracene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[g,h,i]perylene	0.34 U	0.34	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	61.3		%	SW846-8270	(18-122)	08/22/99	08/24/99	



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 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:28
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 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Surrogates								
Phenol-d6 <Surr>	56.2		%	SW846-8270	(24-88)	08/22/99	08/24/99	
Terphenyl-d14 <Surr>	92.7		%	SW846-8270	(21-142)	08/22/99	08/24/99	
?-Fluorobiphenyl <Surr>	60.3		%	SW846-8270	(30-103)	08/22/99	08/24/99	
2-Fluorophenol <Surr>	49.6		%	SW846-8270	(18-83)	08/22/99	08/24/99	
Nitrobenzene-d5 <Surr>	56.3		%	SW846-8270	(18-109)	08/22/99	08/24/99	
PCB's by GC ECD								
Aroclor-1016	0.00325 U	0.00325	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1221	0.00325 U	0.00325	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1232	0.00325 U	0.00325	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1242	0.00325 U	0.00325	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1248	0.00325 U	0.00325	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1254	0.00325 U	0.00325	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1260	0.00325 U	0.00325	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	102		%	SW846 8082	(53.3-125)	08/20/99	08/23/99	
Pesticides								
alpha-BHC	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
beta-BHC	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
gamma-Chlordane	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
alpha-Chlordane	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
gamma-BHC (Lindane)	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
delta-BHC	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
heptachlor	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ



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 Matrix Soil/Solid
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Client PO# 913
 Printed Date/Time 09/09/99 16:29
 Collected Date/Time 08/14/99 15:15
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Aldrin	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Heptachlor epoxide	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endosulfan I	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
4,4'-DDE	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Dieldrin	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endrin	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endosulfan II	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
4,4'-DDD	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endrin aldehyde	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
4,4'-DDT	0.000358	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endosulfan sulfate	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endrin ketone	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Methoxychlor	0.000325 U	0.000325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Toxaphene	0.0325 U	0.0325	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	70.4		%	SW846-8081A	(46-154)	08/20/99	08/25/99	
Tetrachloro-m-xylene <Surr>	68		%	SW846-8081A	(25-120)	08/20/99	08/25/99	



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 Project Name/# Gambell DACA85-97-D-0010 DO 4
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 Matrix Soil/Solid
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 PWSID

Client PO# 913
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Released By 

Sample Remarks:

- 8270 - LCS/LCSD recovery for pyridine and 3,3-dichlorobenzidine is biased low. The results for these compounds are estimated.
- 8270 - Internal standards phenanthrene-d12 are biased low. The result of benzo[b]fluoranthene may bias high.
- 8082- Detection limit raised 10X due to matrix interference.
- 8081/8082- Surrogate recovery does not meet QC goals due to matrix interference.
- 8081-Detection limit raised 200X due to matrix interference.
- DRO - Pattern consistent with highly weathered middle distillate.
- DRO - Heavier hydrocarbons contributing to diesel range quantitation.
- DRO/RRO - Surrogate recoveries outside controls due to matrix interference.
- 0 - Presence of non target analytes requires analysis at a large dilution.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Total Solids	93.5		%	SM18 2540G			08/24/99	BJS
RCRA Metals								
Arsenic	3.01	0.222	mg/Kg	SW846 7060		08/24/99	08/30/99	JMO
Barium	18.6	3.79	mg/Kg	SW846 6010B		08/26/99	08/31/99	WTA
Cadmium	0.290	0.0222	mg/Kg	SW846-7131		08/24/99	08/25/99	KGF
Chromium	422	22.2	mg/Kg	SW846-7191		08/24/99	08/25/99	KGF
Lead	44.3	22.2	mg/Kg	SW846-7421		08/24/99	08/25/99	KGF
Mercury by Cold Vapor	0.0445	0.0134	mg/Kg	SW846-7471		08/25/99	08/25/99	RMV
Selenium	0.488	0.222	mg/Kg	SW846-7740		08/24/99	08/27/99	GCP
Silver	0.440	0.0443	mg/Kg	SW846-7761		08/24/99	08/25/99	KGF



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Gasoline Range Organics	2.66 U	2.66	mg/Kg	AK101 GRO		08/14/99	08/24/99	DAR
Surrogates								
4-Bromofluorobenzene <Surr>	60.5		%	AK101 GRO	(50-150)	08/14/99	08/24/99	
1,4-Difluorobenzene <Surr>	93.1		%	AK101 GRO	(50-150)	08/14/99	08/24/99	
VQA by GC/MS Method SW8260								
Dichlorodifluoromethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloromethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Vinyl chloride	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromomethane	0.27 U	0.27	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroethane	0.27 U	0.27	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichlorofluoromethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon disulfide	0.27 U	0.27	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Methylene chloride	0.13 U	0.13	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
trans-1,2-Dichloroethene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloroethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Butanone (MEK)	0.27 U	0.27	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2,2-Dichloropropane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,2-Dichloroethene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromochloromethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chloroform	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1-Trichloroethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Carbon tetrachloride	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1-Dichloropropene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Benzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
1,2-Dichloroethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Trichloroethene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichloropropane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromomethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromodichloromethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Chloroethyl Vinyl Ether	0.27 U	0.27	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
cis-1,3-Dichloropropene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
4-Methyl-2-pentanone (MIBK)	0.27 U	0.27	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Toluene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
trans-1,3-Dichloropropene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,2-Trichloroethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Tetrachloroethene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3-Dichloropropane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
2-Hexanone	0.27 U	0.27	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Dibromochloromethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dibromoethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Chlorobenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1,2-Tetrachloroethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Ethylbenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
P & M -Xylene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
o-Xylene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Styrene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromoform	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Isopropylbenzene (Cumene)	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Bromobenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,1,1,2,2-Tetrachloroethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichloropropane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Propylbenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
o-Chlorotoluene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
m-Chlorotoluene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3,5-Trimethylbenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
tert-Butylbenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS



CT&E Ref.# 994255009
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-018-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/10/99 09:35
 Collected Date/Time 08/14/99 15:30
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
1,2,4-Trimethylbenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
sec-Butylbenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,3-Dichlorobenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
m-Isopropyltoluene	0.0396	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,4-Dichlorobenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dichlorobenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
n-Butylbenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2-Dibromo-3-chloropropane	0.27 U	0.27	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,4-Trichlorobenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Hexachlorobutadiene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Naphthalene	1.20	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
1,2,3-Trichlorobenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/22/99	DRS
Surrogates								
1,2-Dichloroethane-D4 <surrogate>	105		%	SW846-8260	(74-123)	08/14/99	08/22/99	
Dibromofluoromethane <surrogate>	99.1		%	SW846-8260	(80-118)	08/14/99	08/22/99	
Toluene-d8 <surrogate>	98.9		%	SW846-8260	(79-130)	08/14/99	08/22/99	
4-Bromofluorobenzene <Surrogate>	92.8		%	SW846-8260	(71-141)	08/14/99	08/22/99	
DRO/RRO Combination								
Diesel Range Organics	1310	49.7	mg/Kg	AK102/103		08/24/99	09/01/99	MMP
Residual Range Organics GC	930	82.1	mg/Kg	AK102/103		08/24/99	09/01/99	MMP
Surrogates								
5 α Androstane <surrogate>	1 317		%	AK102/103	(50-150)	08/24/99	09/01/99	
d-Triacontane <Surrogate>	1 312		%	AK102/103	(50-150)	08/24/99	09/01/99	



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatiles by GC/MS								
1-Nitrosodimethylamine	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyridine	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Aniline	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenol	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethyl)ether	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chlorophenol	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,3-Dichlorobenzene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,4-Dichlorobenzene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzyl alcohol	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,2-Dichlorobenzene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylphenol (o-Cresol)	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-chloroisopropyl)ether	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3&4-Methylphenol (p&m-Cresol)	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitroso-di-n-propylamine	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachloroethane	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Nitrobenzene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Isophorone	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitrophenol	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dimethylphenol	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzoic acid	89 U		89 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethoxy)methane	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,2,4-Trichlorobenzene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Naphthalene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloroaniline	36 U		36 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobutadiene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloro-3-methylphenol	36 U		36 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dichlorophenol	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylnaphthalene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorocyclopentadiene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
2,4,6-Trichlorophenol	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,5-Trichlorophenol	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chloronaphthalene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitroaniline	89 U		89 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dimethylphthalate	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthylene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,6-Dinitrotoluene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3-Nitroaniline	89 U		89 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dinitrophenol	89 U		89 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitrophenol	89 U		89 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dibenzofuran	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dinitrotoluene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Diethylphthalate	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chlorophenyl-phenylether	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluorene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitroaniline	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methyl-4,6-dinitrophenol	89 U		89 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitrosodiphenylamine	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Bromophenyl-phenylether	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobenzene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pentachlorophenol	89 U		89 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenanthrene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Anthracene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Di-n-butylphthalate	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluoranthene	17.4		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyrene	25.2		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Azobenzene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Butylbenzylphthalate	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3,3-Dichlorobenzidine	36 U		36 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo(a)Anthracene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Chrysene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



CT&E Ref.# 994255009
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-018-SL
 Matrix Soil/Solid
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 PWSID

Client PO# 913
 Printed Date/Time 09/10/99 09:35
 Collected Date/Time 08/14/99 15:30
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 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
bis(2-Ethylhexyl)phthalate	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
di-n-Octylphthalate	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[b]Fluoranthene	21.4		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[k]fluoranthene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[a]pyrene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Indeno[1,2,3-c,d] pyrene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dibenzo[a,h]anthracene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[g,h,i]perylene	18 U		18 mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	49.7		%	SW846-8270	(18-122)	08/22/99	08/24/99	
Phenol-d6 <Surr>	61.7		%	SW846-8270	(24-88)	08/22/99	08/24/99	
Terphenyl-d14 <Surr>	104		%	SW846-8270	(21-142)	08/22/99	08/24/99	
2-Fluorobiphenyl <Surr>	74.9		%	SW846-8270	(30-103)	08/22/99	08/24/99	
2-Fluorophenol <Surr>	54.2		%	SW846-8270	(18-83)	08/22/99	08/24/99	
Nitrobenzene-d5 <Surr>	58.9		%	SW846-8270	(18-109)	08/22/99	08/24/99	
PCB's by GC ECD								
Aroclor-1016	0.349 U	0.349	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1221	0.349 U	0.349	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1232	0.349 U	0.349	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1242	0.349 U	0.349	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1248	0.349 U	0.349	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1254	0.349 U	0.349	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1260	0.349 U	0.349	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	1 376		%	SW846 8082	(53.3-125)	08/20/99	08/23/99	



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Pesticides								
alpha-BHC	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
beta-BHC	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-Chlordane	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
alpha-Chlordane	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-BHC (Lindane)	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
delta-BHC	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Aldrin	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor epoxide	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan I	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDE	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Dieldrin	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan II	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDD	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin aldehyde	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDT	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan sulfate	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin ketone	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Methoxychlor	0.697 U	0.697	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Toxaphene	69.7 U	69.7	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	I 700		%	SW846-8081A	(46-154)	08/20/99	08/26/99	
Tetrachloro-m-xylene <Surr>	I 200		%	SW846-8081A	(25-120)	08/20/99	08/26/99	



CT&E Ref.# 994255010
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Client Sample ID 99-GAM-019-SL
Matrix Soil/Solid
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PWSID

Client PO# 913
Printed Date/Time 09/10/99 09:35
Collected Date/Time 08/14/99 15:45
Received Date/Time 08/18/99 16:35
Technical Director: Stephen C. Ede

Released By

Sample Remarks:

8270 - Internal standard phenanthrene-d12 is biased low. The samples are non-detect. The results are not affected.
8270 - LCS/LCSD recovery for pyridine and 3,3-dichlorobenzidine is biased low. The results for these compounds are estimated.
8082- Detection limit raised 10X due to matrix interference.
8081-Detection limit raised 70X due to matrix interference.
DRO/RRO - Pattern consistent with lube oil.
DRO/RRO - Pattern consistent with weathered middle distillate.
DRO/RRO - Surrogate recoveries outside controls due to matrix interference.
8270 - Presence of non target analytes requires analysis at a large dilution.

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Total Solids, RCRA Metals (Arsenic, Barium, Cadmium, Chromium, Lead, Mercury by Cold Vapor, Selenium, Silver), and Gasoline Range Organics.



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Surrogates								
4-Bromofluorobenzene <Surr>	61.3		%	AK101 GRO	(50-150)	08/14/99	08/24/99	
1,4-Difluorobenzene <Surr>	93.3		%	AK101 GRO	(50-150)	08/14/99	08/24/99	
VOA by GC/MS Method SW8260								
Dichlorodifluoromethane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Chloromethane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Vinyl chloride	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Bromomethane	0.29 U	0.29	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Chloroethane	0.29 U	0.29	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Trichlorofluoromethane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,1-Dichloroethene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Carbon disulfide	0.29 U	0.29	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Methylene chloride	0.14 U	0.14	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
trans-1,2-Dichloroethene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,1-Dichloroethane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
2-Butanone (MEK)	0.29 U	0.29	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
2,2-Dichloropropane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
cis-1,2-Dichloroethene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Bromochloromethane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Chloroform	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,1,1-Trichloroethane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Carbon tetrachloride	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,1-Dichloropropene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Benzene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2-Dichloroethane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Trichloroethene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2-Dichloropropane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Dibromomethane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS



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 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/10/99 09:35
 Collected Date/Time 08/14/99 15:45
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Bromodichloromethane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
2-Chloroethyl Vinyl Ether	0.29 U	0.29	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
cis-1,3-Dichloropropene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
4-Methyl-2-pentanone (MIBK)	0.29 U	0.29	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Toluene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
trans-1,3-Dichloropropene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,1,2-Trichloroethane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Tetrachloroethene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,3-Dichloropropane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
2-Hexanone	0.29 U	0.29	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Dibromochloromethane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2-Dibromoethane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Chlorobenzene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,1,1,2-Tetrachloroethane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Ethylbenzene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
P & M -Xylene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
o-Xylene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Styrene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Bromoform	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Isopropylbenzene (Cumene)	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Bromobenzene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,1,2,2-Tetrachloroethane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2,3-Trichloropropane	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
n-Propylbenzene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
2-Chlorotoluene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
4-Chlorotoluene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,3,5-Trimethylbenzene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
tert-Butylbenzene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2,4-Trimethylbenzene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
sec-Butylbenzene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,3-Dichlorobenzene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
i-Isopropyltoluene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
1,4-Dichlorobenzene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2-Dichlorobenzene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
n-Butylbenzene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2-Dibromo-3-chloropropane	0.29 U	0.29	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2,4-Trichlorobenzene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Hexachlorobutadiene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Naphthalene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2,3-Trichlorobenzene	0.029 U	0.029	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Surrogates								
1,2-Dichloroethane-D4 <surr>	106		%	SW846-8260	(74-123)	08/14/99	08/25/99	
Dibromofluoromethane <surr>	107		%	SW846-8260	(80-118)	08/14/99	08/25/99	
Toluene-d8 <surr>	100		%	SW846-8260	(79-130)	08/14/99	08/25/99	
4-Bromofluorobenzene <Surr>	89.3		%	SW846-8260	(71-141)	08/14/99	08/25/99	
DRO/RRO Combination								
Diesel Range Organics	778	10.5	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Residual Range Organics GC	450	17.3	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Surrogates								
5a Androstane <surr>	!	176	%	AK102/103	(50-150)	08/24/99	08/28/99	
d-Triacontane <Surr>	!	189	%	AK102/103	(50-150)	08/24/99	08/28/99	
Semivolatiles by GC/MS								
N-Nitrosodimethylamine	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyridine	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Aniline	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
phenol	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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Bis(2-Chloroethyl)ether	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chlorophenol	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,3-Dichlorobenzene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,4-Dichlorobenzene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzyl alcohol	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,2-Dichlorobenzene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylphenol (o-Cresol)	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-chloroisopropyl)ether	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3&4-Methylphenol (p&m-Cresol)	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitroso-di-n-propylamine	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachloroethane	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Nitrobenzene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Isophorone	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitrophenol	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dimethylphenol	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzoic acid	43 U	43	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethoxy)methane	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,2,4-Trichlorobenzene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Naphthalene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloroaniline	17 U	17	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobutadiene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloro-3-methylphenol	17 U	17	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dichlorophenol	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylnaphthalene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorocyclopentadiene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,6-Trichlorophenol	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,5-Trichlorophenol	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chloronaphthalene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitroaniline	43 U	43	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dimethylphthalate	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthylene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
,6-Dinitrotoluene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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3-Nitroaniline	43 U	43	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dinitrophenol	43 U	43	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitrophenol	43 U	43	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dibenzofuran	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dinitrotoluene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Diethylphthalate	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chlorophenyl-phenylether	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluorene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitroaniline	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methyl-4,6-dinitrophenol	43 U	43	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitrosodiphenylamine	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Bromophenyl-phenylether	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobenzene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pentachlorophenol	43 U	43	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenanthrene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Anthracene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Di-n-butylphthalate	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluoranthene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyrene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Azobenzene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Butylbenzylphthalate	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3,3-Dichlorobenzidine	17 U	17	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo(a)Anthracene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Chrysene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-Ethylhexyl)phthalate	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
di-n-Octylphthalate	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[b]Fluoranthene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[k]fluoranthene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[a]pyrene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Indeno[1,2,3-c,d] pyrene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
benzo[a,h]anthracene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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Benzo[g,h,i]perylene	8.4 U	8.4	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	53.2		%	SW846-8270	(18-122)	08/22/99	08/24/99	
Phenol-d6 <Surr>	59.1		%	SW846-8270	(24-88)	08/22/99	08/24/99	
erphenyl-d14 <Surr>	115		%	SW846-8270	(21-142)	08/22/99	08/24/99	
2-Fluorobiphenyl <Surr>	71.2		%	SW846-8270	(30-103)	08/22/99	08/24/99	
2-Fluorophenol <Surr>	48.7		%	SW846-8270	(18-83)	08/22/99	08/24/99	
Nitrobenzene-d5 <Surr>	53.7		%	SW846-8270	(18-109)	08/22/99	08/24/99	
PCB's by GC ECD								
Aroclor-1016	0.0314 U	0.0314	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1221	0.0314 U	0.0314	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1232	0.0314 U	0.0314	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1242	0.0314 U	0.0314	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1248	0.0314 U	0.0314	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1254	0.0314 U	0.0314	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1260	0.0314 U	0.0314	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	106		%	SW846 8082	(53.3-125)	08/20/99	08/23/99	
Pesticides								
alpha-BHC	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
beta-BHC	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-Chlordane	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
alpha-Chlordane	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-BHC (Lindane)	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ



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delta-BHC	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Aldrin	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor epoxide	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan I	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDE	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
dieldrin	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan II	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDD	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin aldehyde	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDT	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan sulfate	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin ketone	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Methoxychlor	0.0110 U	0.0110	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Toxaphene	1.10 U	1.10	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	69		%	SW846-8081A	(46-154)	08/20/99	08/26/99	
Tetrachloro-m-xylene <Surr>	63		%	SW846-8081A	(25-120)	08/20/99	08/26/99	



CT&E Ref.# 994282001
Client Name Oil Spill Consultants
Project Name/# Gambell DACA85-97-0010 DO 4
Client Sample ID 99-GAM-020-SL
Matrix Soil/Solid
Ordered By
PWSID

Client PO# 913
Printed Date/Time 09/01/99 15:10
Collected Date/Time 08/14/99 16:30
Received Date/Time 08/18/99 16:35
Technical Director: Stephen C. Ede

Released By

Handwritten signature of Stephen C. Ede

Sample Remarks:

8082- Detection limit raised 10X due to matrix interference.
8270 - CCV recovery for 2,4-dinitrophenol is biased low. The results for this compound are estimated.
8270 - LCS/LCSD recovery for pyridine and 3,3-dichlorobenzidine is biased low. The results for these compounds are estimated.
8270- Surrogate recovery for nitrobenzene-d5 is biased high possibly due to matrix or/and dilution.
8081-Detection limit raised 30X due to matrix interference.
GRO/BTEX - Surrogate recovery is biased high due to matrix interference. Results not affected.
DRO - Pattern consistent with weathered middle distillate.
DRO/RRO - Surrogate recoveries outside controls due to matrix interference.

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Total Solids, Gasoline Range Organics, Surrogates (4-Bromofluorobenzene, 1,4-Difluorobenzene), and VOA by GC/MS Method SW8260 (Dichlorodifluoromethane, Chloromethane, Vinyl chloride, Bromomethane, hloroethane).



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Trichlorofluoromethane	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,1-Dichloroethene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Carbon disulfide	0.38 U	0.38	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Methylene chloride	0.19 U	0.19	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
trans-1,2-Dichloroethene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,1-Dichloroethane	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
2-Butanone (MEK)	0.38 U	0.38	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
2,2-Dichloropropane	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
cis-1,2-Dichloroethene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Bromochloromethane	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Chloroform	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,1,1-Trichloroethane	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Carbon tetrachloride	0.0496	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,1-Dichloropropene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Benzene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2-Dichloroethane	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Trichloroethene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2-Dichloropropane	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Dibromomethane	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Bromodichloromethane	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
2-chloroethylvinyl ether	0.38 U	0.38	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
cis-1,3-Dichloropropene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
4-Methyl-2-pentanone (MIBK)	0.38 U	0.38	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Toluene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
trans-1,3-Dichloropropene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,1,2-Trichloroethane	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Tetrachloroethene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,3-Dichloropropane	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
2-Hexanone	0.38 U	0.38	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Dibromochloromethane	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2-Dibromoethane	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Chlorobenzene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS



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Client PO# 913
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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
1,1,1,2-Tetrachloroethane	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Ethylbenzene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
P & M -Xylene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
o-Xylene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Styrene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Bromoform	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Isopropylbenzene (Cumene)	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Bromobenzene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,1,2,2-Tetrachloroethane	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2,3-Trichloropropane	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
n-Propylbenzene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
2-Chlorotoluene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
4-Chlorotoluene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,3,5-Trimethylbenzene	0.0481	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
tert-Butylbenzene	0.0405	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2,4-Trimethylbenzene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
sec-Butylbenzene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,3-Dichlorobenzene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
4-Isopropyltoluene	0.0961	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,4-Dichlorobenzene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2-Dichlorobenzene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
n-Butylbenzene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2-Dibromo-3-chloropropane	0.38 U	0.38	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2,4-Trichlorobenzene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Hexachlorobutadiene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Naphthalene	0.382	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2,3-Trichlorobenzene	0.038 U	0.038	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Surrogates								
1,2-Dichloroethane-D4 <surr>	88.8		%	SW846-8260	(74-123)	08/14/99	08/26/99	
ibromofluoromethane <surr>	103		%	SW846-8260	(80-118)	08/14/99	08/26/99	



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Surrogates								
Toluene-d8 <surrogate>	108		%	SW846-8260	(79-130)	08/14/99	08/26/99	
4-Bromofluorobenzene <Surr>	77.8		%	SW846-8260	(71-141)	08/14/99	08/26/99	
DRO/RRO Combination								
Diesel Range Organics	13900	229	mg/Kg	AK102/103		08/24/99	09/01/99	MMP
Residual Range Organics GC	905	378	mg/Kg	AK102/103		08/24/99	09/01/99	MMP
Surrogates								
5a Androstane <surrogate>	!	771	%	AK102/103	(50-150)	08/24/99	09/01/99	
d-Triacontane <Surr>	!	357	%	AK102/103	(50-150)	08/24/99	09/01/99	
Semivolatiles by GC/MS								
N-Nitrosodimethylamine	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Pyridine	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Aniline	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Phenol	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Bis(2-Chloroethyl)ether	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Chlorophenol	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,3-Dichlorobenzene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,4-Dichlorobenzene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzyl alcohol	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,2-Dichlorobenzene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Methylphenol (o-Cresol)	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
bis(2-chloroisopropyl)ether	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Methylphenol (p&m-Cresol)	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
N-Nitroso-di-n-propylamine	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Hexachloroethane	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Nitrobenzene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Isophorone	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Nitrophenol	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dimethylphenol	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzoic acid	48 U	48	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Bis(2-Chloroethoxy)methane	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,2,4-Trichlorobenzene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Naphthalene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Chloroaniline	19 U	19	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachlorobutadiene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Chloro-3-methylphenol	19 U	19	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dichlorophenol	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Methylnaphthalene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachlorocyclopentadiene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4,6-Trichlorophenol	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4,5-Trichlorophenol	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Chloronaphthalene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Nitroaniline	48 U	48	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Dimethylphthalate	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Acenaphthylene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,6-Dinitrotoluene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
3-Nitroaniline	48 U	48	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Acenaphthene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dinitrophenol	48 U	48	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Nitrophenol	48 U	48	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Dibenzofuran	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dinitrotoluene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Diethylphthalate	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Chlorophenyl-phenylether	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Fluorene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Nitroaniline	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
2-Methyl-4,6-dinitrophenol	48 U	48	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
N-Nitrosodiphenylamine	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Bromophenyl-phenylether	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachlorobenzene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Pentachlorophenol	48 U	48	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Phenanthrene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Anthracene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Di-n-butylphthalate	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Fluoranthene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Pyrene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Azobenzene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Butylbenzylphthalate	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
3,3-Dichlorobenzidine	19 U	19	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo(a)Anthracene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Chrysene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
bis(2-Ethylhexyl)phthalate	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
di-n-Octylphthalate	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[b]Fluoranthene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[k]fluoranthene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[a]pyrene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Indeno[1,2,3-c,d] pyrene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Dibenzo[a,h]anthracene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[g,h,i]perylene	9.4 U	9.4	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	55.3		%	SW846-8270	(18-122)	08/22/99	08/25/99	
Phenol-d6 <Surr>	59.7		%	SW846-8270	(24-88)	08/22/99	08/25/99	
Terphenyl-d14 <Surr>	96.7		%	SW846-8270	(21-142)	08/22/99	08/25/99	
2-Fluorobiphenyl <Surr>	78.9		%	SW846-8270	(30-103)	08/22/99	08/25/99	
3-Fluorophenol <Surr>	47.1		%	SW846-8270	(18-83)	08/22/99	08/25/99	
1,2,4-Tribromobenzene-d5 <Surr>	146		%	SW846-8270	(18-109)	08/22/99	08/25/99	



CT&E Ref.# 994282001
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-0010 DO 4
 Client Sample ID 99-GAM-020-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/01/99 15:10
 Collected Date/Time 08/14/99 16:30
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
PCB's by GC ECD								
Aroclor-1016	0.0390 U	0.0390	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1221	0.0390 U	0.0390	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1232	0.0390 U	0.0390	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1242	0.0390 U	0.0390	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1248	0.0390 U	0.0390	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1254	0.0390 U	0.0390	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1260	0.0390 U	0.0390	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	112		%	SW846 8082	(53.3-125)	08/20/99	08/23/99	
Pesticides								
alpha-BHC	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
beta-BHC	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-Chlordane	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
alpha-Chlordane	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-BHC (Lindane)	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
delta-BHC	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Aldrin	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor epoxide	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan I	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDE	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Dieldrin	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan II	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDD	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Endrin aldehyde	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDT	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan sulfate	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin ketone	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Methoxychlor	0.0117 U	0.0117	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Toxaphene	1.17 U	1.17	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	122		%	SW846-8081A	(46-154)	08/20/99	08/26/99	
Tetrachloro-m-xylene <Surr>	59		%	SW846-8081A	(25-120)	08/20/99	08/26/99	



CT&E Ref.# 994255011
 Client Name Oil Spill Consultants
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 Client Sample ID 99-GAM-020-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:29
 Collected Date/Time 08/14/99 16:30
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Released By 

Sample Remarks:

Sample analyzed for Dioxins (SW8290) by Triangle Laboratories of Durham, NC.
 SW6010B ICP Metals - MS/MSD recoveries for Ba, Cu, and Pb were outside acceptance criteria; post digestion spike was successful.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Total Solids	83.2		%	SM18 2540G			08/24/99	BJS
Metals by ICP								
Copper	63.9	4.34	mg/Kg	SW846 60108		09/02/99	09/03/99	WTA
Metals by Graphite Furnace								
Antimony	0.216 U	0.216	mg/Kg	SW846-7041		08/24/99	08/27/99	KGF
Arsenic	0.978	0.216	mg/Kg	SW846 7060		08/24/99	08/30/99	JMO
Cadmium	0.0965	0.0216	mg/Kg	SW846-7131		08/24/99	08/25/99	KGF
Lead	16.1	2.16	mg/Kg	SW846-7421		08/24/99	08/25/99	KGF

CT & E Environmental Services

TLI Project: **49337** Method 8290 PCDD/PCDF Analysis (b)
 Client Sample: **99.4255-11** Client Sample ID: 99-GAM-020-SL Analysis File: **U316703**

Client Project:	Gambell, AK	Date Received:	08/21/1999	Spike File:	SPMIT22S
Sample Matrix:	SOIL	Date Extracted:	08/29/1999	ICal:	UF58319
TLI ID:	244-42-1	Date Analyzed:	09/11/1999	ConCal:	U993166
Sample Size:	11.600 g	Dilution Factor:	n/a	% Moisture:	14.7
Dry Weight:	9.895 g	Blank File:	U315501	% Lipid:	n/a
GC Column:	DB-5	Analysr:	SW	% Solids:	85.3

Analytes	Conc. (ppq)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	ND	0.8				
1,2,3,7,8-PeCDD	2.6			1.46	30:53	J_
1,2,3,4,7,8-HxCDD	3.8			1.24	34:01	J_
1,2,3,6,7,8-HxCDD	14.1			1.27	34:05	
1,2,3,7,8,9-HxCDD	10.9			1.25	34:24	
1,2,3,4,6,7,8-HpCDD	266			1.05	37:20	
1,2,3,4,6,7,8,9-OCDD	1250			0.85	40:54	
2,3,7,8-TCDF	3.5			0.67	25:55	B_
1,2,3,7,8-PeCDF	ND	0.6				
2,3,4,7,8-PeCDF	1.2			1.33	30:33	J_
1,2,3,4,7,8-HxCDF	4.3			1.31	33:18	J_
1,2,3,6,7,8-HxCDF	1.7			1.31	33:25	J_
2,3,4,6,7,8-HxCDF	2.9			1.32	33:53	J_
1,2,3,7,8,9-HxCDF	ND	0.6				
1,2,3,4,6,7,8-HpCDF	107			1.06	36:18	
1,2,3,4,7,8,9-HpCDF	6.5			1.03	37:50	
1,2,3,4,6,7,8,9-OCDF	596			0.89	41:06	

Totals	Conc. (ppq)	Number	DL	EMPC	Flags
Total TCDD	1.7	1			
Total PeCDD	24.3	7		29.8	
Total HxCDD	97.9	7			
Total HpCDD	461	2			
Total TCDF	24.9	7		26.0	
Total PeCDF	8.6	4			
Total HxCDF	85.5	7			
Total HpCDF	526	3			

CL & B Environmental Services

TLI Project: 49337 Method 8290 TCDD/TCDF Analysis (DB-225)
 Client Sample: 99.4255-11 Client Sample ID: 99-GAM-020-SL Analysis File: P993260

Client Project:	Gambell, AK	Date Received:	08/21/1999	Spike File:	SPC2NF2S
Sample Matrix:	SOIL	Date Extracted:	08/29/1999	ICal:	PF27079
TLI ID:	244-42-1	Date Analyzed:	09/14/1999	ConCal:	P993252
Sample Size:	11.600 g	Dilution Factor:	n/a	% Moisture:	14.7
Dry Weight:	9.895 g	Blank File:	P993270	% Lipid:	n/a
GC Column:	DB-225	Analyst:	SS	% Solids:	85.3

Analytes	Conc. (ppq)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDF	0.74			0.80	23:02	J_

Internal Standard	Conc. (ppq)	% Recovery	GC Limits	Ratio	RT	Flags
¹³ C ₁₂ -2,3,7,8-TCDF	203	100	40%-130%	0.79	23:01	—

Recovery Standard	Ratio	RT	Flags
¹³ C ₁₂ -1,2,3,4-TCDD	0.79	21:51	—

Data Reviewer: VC 09/16/1999



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Released By

Sample Remarks:

8270 - Internal standard phenanthrene-d12 is biased low. The samples are non-detect. The results are not affected.
8270 - LCS/LCSD recovery for pyridine and 3,3-dichlorobenzidine is biased low. The results for these compounds are estimated.
8270- Surrogate recovery for nitrobenzene-d5 is biased high possibly due to matrix.
8082- Detection limit raised 10X due to matrix interference.
8081- Detection limit raised 30X due to matrix interference.
GRO/BTEX - Surrogate recovery is biased high due to matrix interference. Results not affected.
DRO - Pattern consistent with weathered middle distillate.
DRO/RRO - Surrogate recoveries outside controls due to matrix interference.

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Total Solids, Gasoline Range Organics, Surrogates (4-Bromofluorobenzene, 1,4-Difluorobenzene), and VOA by GC/MS Method SW8260 (Dichlorodifluoromethane, Chloromethane, Vinyl chloride, Bromomethane, Chloroethane).



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Trichlorofluoromethane	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,1-Dichloroethene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Carbon disulfide	0.39 U	0.39	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Methylene chloride	0.20 U	0.20	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
trans-1,2-Dichloroethene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,1-Dichloroethane	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
2-Butanone (MEK)	0.39 U	0.39	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
2,2-Dichloropropane	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
cis-1,2-Dichloroethene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Bromochloromethane	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Chloroform	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,1,1-Trichloroethane	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Carbon tetrachloride	0.0442	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,1-Dichloropropene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Benzene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2-Dichloroethane	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Trichloroethene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2-Dichloropropane	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Dibromomethane	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Bromodichloromethane	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
2-chloroethylvinyl ether	0.39 U	0.39	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
cis-1,3-Dichloropropene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
4-Methyl-2-pentanone (MIBK)	0.39 U	0.39	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Toluene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
trans-1,3-Dichloropropene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,1,2-Trichloroethane	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Tetrachloroethene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,3-Dichloropropane	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
2-Hexanone	0.39 U	0.39	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Dibromochloromethane	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2-Dibromoethane	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
chlorobenzene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS



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Client PO# 913
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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
1,1,1,2-Tetrachloroethane	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Ethylbenzene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
P & M -Xylene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
o-Xylene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Styrene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Trromoform	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Isopropylbenzene (Cumene)	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Bromobenzene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,1,2,2-Tetrachloroethane	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2,3-Trichloropropane	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
n-Propylbenzene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
2-Chlorotoluene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
4-Chlorotoluene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,3,5-Trimethylbenzene	0.0430	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
tert-Butylbenzene	0.0414	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2,4-Trimethylbenzene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
sec-Butylbenzene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,3-Dichlorobenzene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
4-Isopropyltoluene	0.0998	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,4-Dichlorobenzene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2-Dichlorobenzene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
n-Butylbenzene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2-Dibromo-3-chloropropane	0.39 U	0.39	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2,4-Trichlorobenzene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Hexachlorobutadiene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Naphthalene	0.371	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
1,2,3-Trichlorobenzene	0.039 U	0.039	mg/Kg	SW846-8260		08/14/99	08/26/99	DRS
Surrogates								
1,2-Dichloroethane-D4 <surr>	88.1		%	SW846-8260	(74-123)	08/14/99	08/26/99	
bromofluoromethane <surr>	102		%	SW846-8260	(80-118)	08/14/99	08/26/99	



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Surrogates								
Toluene-d8 <surr>	103		%	SW846-8260	(79-130)	08/14/99	08/26/99	
4-Bromofluorobenzene <Surr>	74.8		%	SW846-8260	(71-141)	08/14/99	08/26/99	
DRO/RRO Combination								
Diesel Range Organics	13700	231	mg/Kg	AK102/103		08/24/99	09/01/99	MMP
Residual Range Organics GC	984	381	mg/Kg	AK102/103		08/24/99	09/01/99	MMP
Surrogates								
5a Androstane <surr>	!	725	%	AK102/103	(50-150)	08/24/99	09/01/99	
d-Triacontane <Surr>	!	356	%	AK102/103	(50-150)	08/24/99	09/01/99	
Semivolatiles by GC/MS								
N-Nitrosodimethylamine	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Pyridine	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Aniline	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Phenol	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Bis(2-Chloroethyl)ether	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Chlorophenol	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,3-Dichlorobenzene	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,4-Dichlorobenzene	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzyl alcohol	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,2-Dichlorobenzene	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Methylphenol (o-Cresol)	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
bis(2-chloroisopropyl)ether	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Methylphenol (p&m-Cresol)	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Nitroso-di-n-propylamine	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ



CT&E Ref.# 994282002
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-0010 DO 4
 Client Sample ID 99-GAM-021-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/01/99 15:10
 Collected Date/Time 08/14/99 16:30
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Hexachloroethane	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Nitrobenzene	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Isophorone	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Nitrophenol	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dimethylphenol	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzoic acid	18 U	18	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Bis(2-Chloroethoxy)methane	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,2,4-Trichlorobenzene	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Naphthalene	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Chloroaniline	7.2 U	7.2	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachlorobutadiene	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Chloro-3-methylphenol	7.2 U	7.2	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dichlorophenol	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Methylnaphthalene	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachlorocyclopentadiene	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4,6-Trichlorophenol	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4,5-Trichlorophenol	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Chloronaphthalene	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Nitroaniline	18 U	18	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Dimethylphthalate	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Acenaphthylene	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,6-Dinitrotoluene	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
3-Nitroaniline	18 U	18	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Acenaphthene	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dinitrophenol	18 U	18	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Nitrophenol	18 U	18	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Dibenzofuran	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dinitrotoluene	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Diethylphthalate	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Chlorophenyl-phenylether	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Fluorene	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Nitroaniline	3.5 U	3.5	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ



CT&E Ref.# 994282002
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-0010 DO 4
 Client Sample ID 99-GAM-021-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/01/99 15:11
 Collected Date/Time 08/14/99 16:30
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
2-Methyl-4,6-dinitrophenol	18 U		18 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
N-Nitrosodiphenylamine	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Bromophenyl-phenylether	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachlorobenzene	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Pentachlorophenol	18 U		18 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Phenanthrene	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Anthracene	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Di-n-butylphthalate	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Fluoranthene	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Pyrene	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Azobenzene	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Butylbenzylphthalate	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
3,3-Dichlorobenzidine	7.2 U		7.2 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo(a)Anthracene	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Chrysene	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
bis(2-Ethylhexyl)phthalate	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
di-n-Octylphthalate	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[b]Fluoranthene	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[k]fluoranthene	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[a]pyrene	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Indeno[1,2,3-c,d] pyrene	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Dibenzo[a,h]anthracene	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[g,h,i]perylene	3.5 U		3.5 mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	74.4		%	SW846-8270	(18-122)	08/22/99	08/25/99	
Phenol-d6 <Surr>	50.2		%	SW846-8270	(24-88)	08/22/99	08/25/99	
Terphenyl-d14 <Surr>	133		%	SW846-8270	(21-142)	08/22/99	08/25/99	
2-Fluorobiphenyl <Surr>	77.3		%	SW846-8270	(30-103)	08/22/99	08/25/99	
2-Fluorophenol <Surr>	35.7		%	SW846-8270	(18-83)	08/22/99	08/25/99	
1,2-Dibromobenzene-d5 <Surr>	130		%	SW846-8270	(18-109)	08/22/99	08/25/99	



CT&E Ref.# 994282002
 Client Name Oil Spill Consultants
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 Client Sample ID 99-GAM-021-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/01/99 15:11
 Collected Date/Time 08/14/99 16:30
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
PCB's by GC ECD								
Aroclor-1016	0.0386 U	0.0386	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1221	0.0386 U	0.0386	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1232	0.0386 U	0.0386	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1242	0.0386 U	0.0386	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1248	0.0386 U	0.0386	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1254	0.0386 U	0.0386	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1260	0.0386 U	0.0386	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	61.6		%	SW846 8082	(53.3-125)	08/20/99	08/23/99	
Pesticides								
alpha-BHC	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
beta-BHC	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-Chlordane	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
alpha-Chlordane	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-BHC (Lindane)	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
delta-BHC	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Aldrin	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor epoxide	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan I	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDE	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Dieldrin	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan II	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
p,p'-DDD	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ



CT&E Ref.# 994282002
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-0010 DO 4
 Client Sample ID 99-GAM-021-SL
 Matrix Soil/Solid
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 PWSID

Client PO# 913
 Printed Date/Time 09/01/99 15:11
 Collected Date/Time 08/14/99 16:30
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Endrin aldehyde	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDT	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan sulfate	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin ketone	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Methoxychlor	0.0116 U	0.0116	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Toxaphene	1.16 U	1.16	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	107		%	SW846-8081A	(46-154)	08/20/99	08/26/99	
Tetrachloro-m-xylene <Surr>	59		%	SW846-8081A	(25-120)	08/20/99	08/26/99	



CT&E Ref.# 994255012
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-021-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:29
 Collected Date/Time 08/14/99 16:30
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Released By

Sample Remarks:
 Sample analyzed for Dioxins (SW8290) by Triangle Laboratories of Durham, NC.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Metals by ICP								
Copper	33.2	4.37	mg/Kg	SW846 60108		09/02/99	09/03/99	WTA
^								
Total Solids	83.1		%	SM18 2540G			08/24/99	BJS
Metals by Graphite Furnace								
Antimony	0.206 U	0.206	mg/Kg	SW846-7041		08/24/99	08/27/99	KGF
Metals by Graphite Furnace								
Arsenic	0.642	0.206	mg/Kg	SW846 7060		08/24/99	08/30/99	JMO
Metals by Graphite Furnace								
Cadmium	0.0927	0.0206	mg/Kg	SW846-7131		08/24/99	08/25/99	KGF
Metals by Graphite Furnace								
Lead	22.2	2.06	mg/Kg	SW846-7421		08/24/99	08/25/99	KGF

TLI Project: 49337 Method 8290 PCDD/PCDF Analysis (b)
 Client Sample: 99.4255-12 Client Sample ID: 99-GAM-021-SL Analysis File: U316704

Client Project:	Gambell, AK	Date Received:	08/21/1999	Spike File:	SPMIT22S
Sample Matrix:	SOIL	Date Extracted:	08/29/1999	ICal:	UF58319
TLI ID:	244-42-2	Date Analyzed:	09/11/1999	ConCal:	U993166
Sample Size:	11.800 g	Dilution Factor:	n/a	% Moisture:	16.0
Dry Weight:	9.912 g	Blank File:	U315501	% Lipid:	n/a
GC Column:	DB-5	Analyst:	SW	% Solids:	84.0

Analytes	Conc. (ppt)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	ND	0.6				—
1,2,3,7,8-PeCDD	2.2			1.44	30:52	J_
1,2,3,4,7,8-HxCDD	3.0			1.11	34:00	J_
1,2,3,6,7,8-HxCDD	8.9			1.27	34:05	—
1,2,3,7,8,9-HxCDD	8.2			1.22	34:23	—
1,2,3,4,6,7,8-HpCDD	151			1.03	37:20	—
1,2,3,4,6,7,8,9-OCDD	800			0.84	40:54	—
2,3,7,8-TCDF	4.1			0.80	25:55	B_
1,2,3,7,8-PeCDF	EMPC		0.97			J_
2,3,4,7,8-PeCDF	1.7			1.37	30:33	J_
1,2,3,4,7,8-HxCDF	4.6			1.34	33:19	J_
1,2,3,6,7,8-HxCDF	1.8			1.29	33:24	J_
2,3,4,6,7,8-HxCDF	2.9			1.17	33:53	J_
1,2,3,7,8,9-HxCDF	ND	0.5				—
1,2,3,4,6,7,8-HpCDF	74.1			1.06	36:18	—
1,2,3,4,7,8,9-HpCDF	4.8			1.08	37:49	J_
1,2,3,4,6,7,8,9-OCDF	436			0.90	41:06	—

Totals	Conc. (ppt)	Number	DL	EMPC	Flags
Total TCDD	1.5	1		2.5	—
Total PeCDD	19.1	7		20.3	—
Total HxCDD	67.1	7			—
Total HpCDD	263	2			—
Total TCDF	26.7	7		29.9	—
Total PeCDF	12.8	6		14.5	—
Total HxCDF	59.4	7			—
Total HpCDF	362	4			—

TLI Project: 49337 Method 8290 TCDD/TCDF Analysis (DB-225)
 Client Sample: 99.4255-12 Client Sample ID: 99-GAM-021-SL Analysis File: P993261

Client Project:	Gambell, AK	Date Received:	08/21/1999	Spike File:	SPC2NF2S
Sample Matrix:	SOIL	Date Extracted:	08/29/1999	ICal:	PF27079
TLI ID:	244-42-2	Date Analyzed:	09/14/1999	ConCal:	P993252
Sample Size:	11.800 g	Dilution Factor:	n/a	% Moisture:	16.0
Dry Weight:	9.912 g	Blank File:	P993270	% Lipid:	n/a
GC Column:	DB-225	Analyst:	SS	% Solids:	84.0

Analyte	Conc. (ppb)	Ratio	RT	Flags
2,3,7,8-TCDF	0.92	0.74	23:01	J_

Internal Standard	Conc. (ppb)	% Recovery	GC Limits	Ratio	RT	Flags
¹⁴ C ₁₂ -2,3,7,8-TCDF	253	125	40%-130%	0.78	23:00	Q_

Recovery Standard	Ratio	RT	Flags
¹⁴ C ₁₂ -1,2,3,4-TCDD	0.88	21:50	Q_

Data Reviewer: K 09/17/1999

Quanterra Environmental Services, Anchorage, AK

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Project Name: Gambell HTW/Debris Remova				Project No: 99-092							
Field ID: 99-GAM-022-SL				Sample Date: 08/14/99			Basis: Dry				
Descr/Location: 99-G				Sample Time: 1630			Matrix: Soil				
				Lab Samp ID: E9H210161001							
Analyte	Detection Limit	Reporting Limit	PQL	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date	QC Batch
Antimony	0.50	7.5	PQL		ND	MG/KG dw	1.0	SW3050B	SW6010B	08/25/99	S9908231
Arsenic	1.0	1.3	PQL	J	1.1	MG/KG dw	1.0	SW3050B	SW6010B	08/25/99	S9908231
Cadmium	0.13	0.63	PQL		ND	MG/KG dw	1.0	SW3050B	SW6010B	08/25/99	S9908231
Copper	1.0	3.1	PQL		65.7	MG/KG dw	1.0	SW3050B	SW6010B	08/25/99	S9908231
Lead	0.50	0.63	PQL		36.5	MG/KG dw	1.0	SW3050B	SW6010B	08/25/99	S9908231
J: EPA Flag - Estimated value											

Approved by: _____ Date: _____

Quanterra Environmental Services, Anchorage, AK

Lab Report No.: 064096 Date: 10/04/99

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Project Name: Gambell HTW/Debris Remova				Project No: 99-092						
Field ID: 99-GAM-022-SL				Sample Date: 08/14/99			Basis: Not Filtered			
Descr/Location: 99-G				Sample Time: 1630			Matrix: Soil			
				Lab Samp ID: 0640960002SA						
Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date	QC Batch
Percent Moisture	NA	NA		20.	PERCE	1.0	NONE	D2216	08/25/99	S990824H20

Approved by: _____ Date: _____

Quanterra Environmental Services, Anchorage, AK

Lab Report No.: 064096 Date: 10/04/99

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Project Name: Gambell HTW/Debris Remova				Project No: 99-092					
Field ID: 99-GAM-022-SL		Sample Date: 08/14/99		Basis: Wet					
Descr/Location: 99-G		Sample Time: 1630		Matrix: Soil					
Lab Samp ID: G9H210185001									
Analyte	Detection Limit	Reporting Limit	Note	Result	Units Dil	Prep Method	Analysis Method	Analysis Date	QC Batch
Percent Moisture	NA	NA		17.1	PERCE ww 1	METHOD	D2216	09/14/99	9237207

Approved by: _____ Date: _____

Project Name: Gambell HTW/Debris		Analysis: Polychlorinated							
Project No: 99-092		Method: SW8290							
		Prep Meth: METHOD							
Field ID: 99-GAM-022-SL		Lab Samp ID: G9H210185001							
Descr/Location: 99-G		Rec'd Date: 08/21/99							
Sample Date: 08/14/99		Prep Date: 08/25/99							
Sample Time: 1630		Analysis Date: 09/11/99							
Matrix: Soil		QC Batch: 9237207							
Basis: Dry Weight		Notes:							
Analyte	Det Limit	Rep Limit	Note	Result	Units	Ratio	RT	Pvc	Dil
2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.15	1.0	PQL	0.60	PG/G	0.		1	
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.30	2.2	PQL	ND	PG/G	0.		1	
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.42	5.0	PQL	12.0	PG/G	0.		1	
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.61	5.0	PQL	3.3	PG/G	0.		1	
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.41.	5.0	PQL	5.1	PG/G	0.		1	
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.30	5.0	PQL	250.	PG/G	0.		1	
Octachlorodibenzo-p-dioxin	1.2	10.0	PQL	1100.	PG/G	0.		1	
2,3,7,8-Tetrachlorodibenzofuran	0.08	1.0	PQL	1.2	PG/G	0.		1	
1,2,3,7,8-Pentachlorodibenzofuran	0.30	1.6	PQL	ND	PG/G	0.		1	
2,3,4,7,8-Pentachlorodibenzofuran	0.37	1.5	PQL	ND	PG/G	0.		1	
1,2,3,6,7,8-Hexachlorodibenzofuran	0.30	2.1	PQL	ND	PG/G	0.		1	
1,2,3,7,8,9-Hexachlorodibenzofuran	0.41	1.6	PQL	ND	PG/G	0.		1	
1,2,3,4,7,8-Hexachlorodibenzofuran	0.35	2.9	PQL	ND	PG/G	0.		1	
2,3,4,6,7,8-Hexachlorodibenzofuran	0.42	1.8	PQL	ND	PG/G	0.		1	
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.30	5.0	PQL	96.0	PG/G	0.		1	

Project Name: Gambell HTW/Debris				Analysis: Polychlorinated					
Project No: 99-092				Method: SW8290					
				Prep Meth: METHOD					
Field ID: 99-GAM-022-SL				Lab Samp ID: G9H210185001					
Descr/Location: 99-G				Rec'd Date: 08/21/99					
Sample Date: 08/14/99				Prep Date: 08/25/99					
Sample Time: 1630				Analysis Date: 09/11/99					
Matrix: Soil				QC Batch: 9237207					
Basis: Dry Weight				Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Ratio	RT	Pvc	Dil
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.31	5.0	PQL	5.0	PG/G	0.		1	
Octachlorodibenzofuran	0.60	10.0	PQL	570.	PG/G	0.		1	
SURROGATE AND INTERNAL STANDARD RECOVERIES:									
1,2,3,4,7,8-Hexachlorodibenzofuran-C13	IN	40-135	SMSA	71%					1
Total Heptachlorodibenzo-p-dioxins	2.5	5.0	PQL	430.	PG/G	0.		1	
SURROGATE AND INTERNAL STANDARD RECOVERIES:									
Total Heptachlorodibenzofurans (HpCDF)	2.5	5.0	PQL	470.	PG/G	0.		1	
SURROGATE AND INTERNAL STANDARD RECOVERIES:									
Total Hexachlorodibenzo-p-dioxins	2.5	5.0	PQL	68.0	PG/G	0.		1	
SURROGATE AND INTERNAL STANDARD RECOVERIES:									
Total Hexachlorodibenzofurans (HxCDF)	2.5	5.0	PQL	61.0	PG/G	0.		1	
SURROGATE AND INTERNAL STANDARD RECOVERIES:									
Total Pentachlorodibenzo-p-dioxin	4.5	4.5	PQL	ND	PG/G	0.		1	
SURROGATE AND INTERNAL STANDARD RECOVERIES:									
Total Pentachlorodibenzofurans (PeCDF)	2.5	5.0	PQL	11.0	PG/G	0.		1	
SURROGATE AND INTERNAL STANDARD RECOVERIES:									

Approved by: _____

Date: _____

Quanterra Environmental Services, Anchorage, AK

Lab Report No.: 064096 Date: 10/04/99

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Project Name: Gambell HTW/Debris				Analysis: Polychlorinated						
Project No: 99-092				Method: SW8290						
				Prep Meth: METHOD						
Field ID: 99-GAM-022-SL				Lab Samp ID: G9H210185001						
Descr/Location: 99-G				Rec'd Date: 08/21/99						
Sample Date: 08/14/99				Prep Date: 08/25/99						
Sample Time: 1630				Analysis Date: 09/11/99						
Matrix: Soil				QC Batch: 9237207						
Basis: Dry Weight				Notes:						
Analyte	Det Limit	Rep Limit	Note	Result	Units	Ratio	RT	Pvc	Dil	
Total Tetrachlorodibenzo-p-dioxins (TCDD)	0.50	1.0 PQL		7.6	PG/G	0.		1		
Total Tetrachlorodibenzofurans (TCDF)	0.50	1.0 PQL		47.0	PG/G	0.		1		
SURROGATE AND INTERNAL STANDARD RECOVERIES:										
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin-C13	IN	40-135	SMSA	65%					1	
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin-C13	IN	40-135	SMSA	72%					1	
1,2,3,7,8-Pentachlorodibenzo-p-dioxin-C13	IN	40-135	SMSA	69%					1	
1,2,3,4,6,7,8-Heptachlorodibenzofuran-C13	IN	40-135	SMSA	65%					1	
1,2,3,7,8-Pentachlorodibenzofuran-C13	IN	40-135	SMSA	69%					1	
Octachlorodibenzo-p-dioxin-C13	IN	40-135	SMSA	72%					1	
2,3,7,8-Tetrachlorodibenzo-p-dioxin-C13	IN	40-135	SMSA	70%					1	
2,3,7,8-Tetrachlorodibenzofuran-C13	IN	40-135	SMSA	78%					1	

Approved by: _____

Date: _____

Quanterra Inc - Anchorage AK Lab

Client Sample ID: 99-GAM-022-SL

Client Sample ID: 99-GAM-022-SL

Dioxins

Lot-Sample #....: G9H210185-001 Work Order #....: D1M9N102 Matrix.....: SOLID
 Date Sampled....: 08/14/99 Date Received...: 08/21/99
 Prep Date.....: 08/25/99 Analysis Date...: 09/11/99
 Prep Batch #....: 9237207
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	0.60 J		pg/g	SW846 8290
Total TCDD	7.6		pg/g	SW846 8290
1,2,3,7,8-PeCDD	ND	2.2	pg/g	SW846 8290
Total PeCDD	ND	4.5	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	3.3 J		pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	12		pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	5.1 J		pg/g	SW846 8290
Total HxCDD	68		pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	250 B		pg/g	SW846 8290
Total HpCDD	430		pg/g	SW846 8290
OCDD	1100 B		pg/g	SW846 8290
2,3,7,8-TCDF	1.2 CON		pg/g	SW846 8290
Total TCDF	47		pg/g	SW846 8290
1,2,3,7,8-PeCDF	ND	1.6	pg/g	SW846 8290
2,3,4,7,8-PeCDF	ND	1.5	pg/g	SW846 8290
Total PeCDF	11		pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	ND	2.9	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	ND	2.1	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	ND	1.8	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	ND	0.18	pg/g	SW846 8290
Total HxCDF	61		pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	96		pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	5.0 J		pg/g	SW846 8290
Total HpCDF	470		pg/g	SW846 8290
OCDF	570		pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	70	(40 - 135)
13C-1,2,3,7,8-PeCDD	69	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	72	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	65	(40 - 135)
13C-OCDD	72	(40 - 135)
13C-2,3,7,8-TCDF	78	(40 - 135)
13C-1,2,3,7,8-PeCDF	69	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	71	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	65	(40 - 135)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.
 J Estimated result. Result is less than the reporting limit.
 B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
 CON Confirmation analysis.

000314



CT&E Ref.# 994282003
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-0010 DO 4
 Client Sample ID 99-GAM-023-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/01/99 15:11
 Collected Date/Time 08/14/99 16:45
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Released By 

Sample Remarks:

8270 - LCS/LCSD recovery for pyridine and 3,3-dichlorobenzidine is biased low. The results for these compounds are estimated.

8270 - CCV recovery for 2,4-dinitrophenol is biased low. The results for this compound are estimated.

DRO - Pattern consistent with highly weathered middle distillate.

DRO/RRO - Surrogate recoveries outside controls due to matrix interference.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Total Solids	89.6		%	SM18 2540G			08/24/99	MPA
Gasoline Range Organics	2.68 U	2.68	mg/Kg	AK101 GRO		08/14/99	08/27/99	DAR
Surrogates								
4-Bromofluorobenzene <Surr>	56.8		%	AK101 GRO	(50-150)	08/14/99	08/27/99	
1,4-Difluorobenzene <Surr>	92.2		%	AK101 GRO	(50-150)	08/14/99	08/27/99	
VOA by GC/MS Method SW8260								
Dichlorodifluoromethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Chloromethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Vinyl chloride	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Bromomethane	0.27 U	0.27	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Chloroethane	0.27 U	0.27	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Trichlorofluoromethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1-Dichloroethene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Carbon disulfide	0.27 U	0.27	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Ethylene chloride	0.164	0.13	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
trans-1,2-Dichloroethene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1-Dichloroethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
2-Butanone (MEK)	0.27 U	0.27	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
2,2-Dichloropropane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
cis-1,2-Dichloroethene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Bromochloromethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Chloroform	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1,1-Trichloroethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Carbon tetrachloride	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1-Dichloropropene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Benzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2-Dichloroethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Trichloroethene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2-Dichloropropane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Dibromomethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Bromodichloromethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
2-chloroethylvinyl ether	0.27 U	0.27	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
cis-1,3-Dichloropropene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
4-Methyl-2-pentanone (MIBK)	0.27 U	0.27	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Toluene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
trans-1,3-Dichloropropene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1,2-Trichloroethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Tetrachloroethene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,3-Dichloropropane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
2-Hexanone	0.27 U	0.27	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Dibromochloromethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2-Dibromoethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Chlorobenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1,1,2-Tetrachloroethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Ethylbenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
p & m -Xylene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
o-Xylene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS



CT&E Ref.# 994282003
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-0010 DO 4
 Client Sample ID 99-GAM-023-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/01/99 15:11
 Collected Date/Time 08/14/99 16:45
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Styrene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Bromoform	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Isopropylbenzene (Cumene)	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Bromobenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1,2,2-Tetrachloroethane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2,3-Trichloropropane	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
n-Propylbenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
2-Chlorotoluene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
4-Chlorotoluene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,3,5-Trimethylbenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
tert-Butylbenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2,4-Trimethylbenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
sec-Butylbenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,3-Dichlorobenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
4-Isopropyltoluene	0.0327	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,4-Dichlorobenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2-Dichlorobenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
n-Butylbenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2-Dibromo-3-chloropropane	0.27 U	0.27	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2,4-Trichlorobenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Hexachlorobutadiene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Naphthalene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2,3-Trichlorobenzene	0.027 U	0.027	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Surrogates								
1,2-Dichloroethane-D4 <surrr>	90.9		%	SW846-8260	(74-123)	08/14/99	08/27/99	
Dibromofluoromethane <surrr>	106		%	SW846-8260	(80-118)	08/14/99	08/27/99	
Toluene-d8 <surrr>	107		%	SW846-8260	(79-130)	08/14/99	08/27/99	
4-Bromofluorobenzene <Surr>	76		%	SW846-8260	(71-141)	08/14/99	08/27/99	



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Client PO# 913
 Printed Date/Time 09/01/99 15:11
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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
DRO/RRD Combination								
Diesel Range Organics	643	9.98	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Residual Range Organics GC	187	16.5	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Surrogates								
5a Androstane <surr>	!	199	%	AK102/103	(50-150)	08/24/99	08/28/99	
d-Triacontane <Surr>	!	216	%	AK102/103	(50-150)	08/24/99	08/28/99	
Semivolatiles by GC/MS								
N-Nitrosodimethylamine	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Pyridine	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Aniline	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Phenol	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Bis(2-Chloroethyl)ether	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Chlorophenol	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,3-Dichlorobenzene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,4-Dichlorobenzene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzyl alcohol	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,2-Dichlorobenzene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Methylphenol (o-Cresol)	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
bis(2-chloroisopropyl)ether	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
3&4-Methylphenol (p&m-Cresol)	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
N-Nitroso-di-n-propylamine	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachloroethane	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Nitrobenzene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Isophorone	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Nitrophenol	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
,4-Dimethylphenol	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ



CT&E Ref.# 994282003
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-0010 DO 4
 Client Sample ID 99-GAM-023-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/01/99 15:11
 Collected Date/Time 08/14/99 16:45
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Benzoic acid	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Bis(2-Chloroethoxy)methane	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,2,4-Trichlorobenzene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Naphthalene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Chloroaniline	0.67 U	0.67	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachlorobutadiene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Chloro-3-methylphenol	0.67 U	0.67	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dichlorophenol	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Methylnaphthalene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachlorocyclopentadiene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4,6-Trichlorophenol	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4,5-Trichlorophenol	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Chloronaphthalene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Nitroaniline	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Dimethylphthalate	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Acenaphthylene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,6-Dinitrotoluene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
3-Nitroaniline	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Acenaphthene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dinitrophenol	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Nitrophenol	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Dibenzofuran	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dinitrotoluene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Diethylphthalate	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Chlorophenyl-phenylether	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Fluorene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Nitroaniline	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Methyl-4,6-dinitrophenol	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
N-Nitrosodiphenylamine	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Bromophenyl-phenylether	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachlorobenzene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Octachlorophenol	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ



CT&E Ref.# 994282003
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 Client Sample ID 99-GAM-023-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/01/99 15:11
 Collected Date/Time 08/14/99 16:45
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Phenanthrene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Anthracene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Di-n-butylphthalate	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Fluoranthene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Pyrene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,2,3,4-tetrahydronaphthalene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1-methyl-2-naphthylamine	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
3,3-Dichlorobenzidine	0.67 U	0.67	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo(a)Anthracene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Chrysene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
bis(2-Ethylhexyl)phthalate	0.384	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
di-n-Octylphthalate	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[b]Fluoranthene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[k]fluoranthene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[a]pyrene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Indeno[1,2,3-c,d] pyrene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Dibenzo[a,h]anthracene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[g,h,i]perylene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	78.8		%	SW846-8270	(18-122)	08/22/99	08/25/99	
Phenol-d6 <Surr>	56.1		%	SW846-8270	(24-88)	08/22/99	08/25/99	
Terphenyl-d14 <Surr>	108		%	SW846-8270	(21-142)	08/22/99	08/25/99	
2-Fluorobiphenyl <Surr>	69.9		%	SW846-8270	(30-103)	08/22/99	08/25/99	
2-Fluorophenol <Surr>	47.4		%	SW846-8270	(18-83)	08/22/99	08/25/99	
Nitrobenzene-d5 <Surr>	59.5		%	SW846-8270	(18-109)	08/22/99	08/25/99	



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Client PO# 913
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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
PCB's by GC ECD								
Aroclor-1016	0.00343 U	0.00343	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1221	0.00343 U	0.00343	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1232	0.00343 U	0.00343	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1242	0.00343 U	0.00343	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1248	0.00343 U	0.00343	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1254	0.00343 U	0.00343	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1260	0.00343 U	0.00343	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	120		%	SW846 8082	(53.3-125)	08/20/99	08/23/99	
Pesticides								
alpha-BHC	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
beta-BHC	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-Chlordane	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
alpha-Chlordane	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-BHC (Lindane)	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
delta-BHC	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Aldrin	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor epoxide	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan I	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDE	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Dieldrin	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan II	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4'-DDD	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ



CT&E Ref.# 994282003
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 Project Name/# Gambell DACA85-97-0010 DO 4
 Client Sample ID 99-GAM-023-SL
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 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/01/99 15:11
 Collected Date/Time 08/14/99 16:45
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Endrin aldehyde	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDT	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan sulfate	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin ketone	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Methoxychlor	0.00171 U	0.00171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Toxaphene	0.171 U	0.171	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	86		%	SW846-8081A	(46-154)	08/20/99	08/26/99	
Tetrachloro-m-xylene <Surr>	64		%	SW846-8081A	(25-120)	08/20/99	08/26/99	



CT&E Ref.# 994255013
Client Name Oil Spill Consultants
Project Name/# Gambell DACA85-97-D-0010 DO 4
Client Sample ID 99-GAM-023-SL
Matrix Soil/Solid
Ordered By
PWSID

Client PO# 913
Printed Date/Time 09/09/99 16:29
Collected Date/Time 08/14/99 16:45
Received Date/Time 08/18/99 16:35
Technical Director: Stephen C. Ede

Released By

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Sample Remarks:
Sample analyzed for Dioxins (SW8290) by Triangle Laboratories of Durham, NC.

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Total Solids, Metals by ICP (Copper), Metals by Graphite Furnace (Antimony, Arsenic, Cadmium, Lead).

TLI Project: 49337 Method 8290 PCDD/PCDF Analysis (b)
 Client Sample: 99.4255-13 Client Sample ID: 99-GAM-023-SL Analysis File: U316705

Client Project:	Gambell, AK	Date Received:	08/21/1999	Spike File:	SPMIT22S
Sample Matrix:	SOIL	Date Extracted:	08/29/1999	ICal:	UF58319
TLI ID:	244-42-3	Date Analyzed:	09/11/1999	ConCal:	U993166
Sample Size:	10.800 g	Dilution Factor:	n/a	% Moisture:	10.2
Dry Weight:	9.698 g	Blank File:	U315501	% Lipid:	n/a
GC Column:	DB-5	Analyst:	SW	% Solids:	89.8

Analytes	Conc. (ppq)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	ND	1.0				---
1,2,3,7,8-PeCDD	3.3			1.55	30:52	J_
1,2,3,4,7,8-HxCDD	2.9			1.26	34:01	J_
1,2,3,6,7,8-HxCDD	5.8			1.23	34:05	---
1,2,3,7,8,9-HxCDD	8.7			1.14	34:23	---
1,2,3,4,6,7,8-HpCDD	46.3			1.07	37:19	---
1,2,3,4,6,7,8,9-OCDD	180			0.86	40:54	---
2,3,7,8-TCDF	44.2			0.79	25:55	---
1,2,3,7,8-PeCDF	EMPC		6.9			---
2,3,4,7,8-PeCDF	16.6			1.44	30:32	---
1,2,3,4,7,8-HxCDF	50.3			1.26	33:18	---
1,2,3,6,7,8-HxCDF	14.0			1.23	33:25	---
2,3,4,6,7,8-HxCDF	29.1			1.23	33:53	---
1,2,3,7,8,9-HxCDF	ND	0.8				---
1,2,3,4,6,7,8-HpCDF	83.4			1.05	36:18	---
1,2,3,4,7,8,9-HpCDF	7.9			0.96	37:49	---
1,2,3,4,6,7,8,9-OCDF	58.1			0.93	41:06	---

Totals	Conc. (ppq)	Number	DL	EMPC	Flags
Total TCDD	17.1	4		19.8	---
Total PeCDD	45.1	8		53.0	---
Total HxCDD	73.2	7			---
Total HpCDD	91.2	2			---
Total TCDF	214	12		219	---
Total PeCDF	166	11		175	---
Total HxCDF	157	10		159	---
Total HpCDF	141	4			---

CT & E Environmental Services

TLI Project: 49337
 Client Sample: 99.4255-13

Method 8290 PCDD/PCDF Analysis (b)
 Analysis File: U316705

Client Sample ID: 99-GAM-023-SL

Internal Standards	Conc. (ppb)	% Recovery	QC Limits	Ratio	RT	Flags
¹² C ₁₂ -2,3,7,8-TCDF	157	76.1	40%-130%	0.76	25:53	---
¹² C ₁₂ -2,3,7,8-TCDD	182	88.3	40%-130%	0.81	26:36	---
¹² C ₁₂ -1,2,3,7,8-PeCDF	189	91.5	40%-130%	1.45	29:50	---
¹² C ₁₂ -1,2,3,7,8-PeCDD	183	88.7	40%-130%	1.46	30:51	---
¹² C ₁₂ -1,2,3,6,7,8-HxCDF	196	95.1	40%-130%	0.51	33:24	---
¹² C ₁₂ -1,2,3,6,7,8-HxCDD	228	111	40%-130%	1.22	34:05	---
¹² C ₁₂ -1,2,3,4,6,7,8-HpCDF	225	109	25%-130%	0.44	36:17	---
¹² C ₁₂ -1,2,3,4,6,7,8-HpCDD	309	150	25%-130%	1.25	37:19	RO
¹² C ₁₂ -1,2,3,4,6,7,8,9-OCDD	486	118	25%-130%	0.85	40:53	---

Surrogate Standards (Type B)	Conc. (ppb)	% Recovery	QC Limits	Ratio	RT	Flags
¹² C ₁₂ -2,3,4,7,8-PeCDF	203	98.5	40%-130%	1.47	30:31	---
¹² C ₁₂ -1,2,3,4,7,8-HxCDF	181	87.6	40%-130%	0.52	33:19	---
¹² C ₁₂ -1,2,3,4,7,8-HxCDD	223	108	40%-130%	1.28	34:00	---
¹² C ₁₂ -1,2,3,4,7,8,9-HpCDF	265	128	25%-130%	0.43	37:49	---

Other Standard	Conc. (ppb)	% Recovery	QC Limits	Ratio	RT	Flags
¹² Cl ₂ -2,3,7,8-TCDD	15.3	74.4	40%-130%		26:37	---

Alternate Standards (Type B)	Conc. (ppb)	% Recovery	QC Limits	Ratio	RT	Flags
¹² C ₁₂ -1,2,3,7,8,9-HxCDF	223	108	40%-130%	0.51	34:39	---
¹² C ₁₂ -2,3,4,6,7,8-HxCDF	231	112	40%-130%	0.51	33:53	---

Recovery Standards	Conc. (ppb)	% Recovery	QC Limits	Ratio	RT	Flags
¹² C ₁₂ -1,2,3,4-TCDD				0.84	26:26	---
¹² C ₁₂ -1,2,3,7,8,9-HxCDD				1.20	34:23	---

Data Reviewer: VC 09/14/1999

TLI Project: 49337 Method 8290 TCDD/TCDF Analysis (DB-225)
 Client Sample: 99.4255-13 Client Sample ID: 99-GAM-023-SL Analysis File: P993249

Client Project: Gambell, AK	Date Received: 08/21/1999	Spike File: SPC2NF2S
Sample Matrix: SOIL	Date Extracted: 08/29/1999	ICal: PF27079
TLI ID: 244-42-3	Date Analyzed: 09/13/1999	ConCal: P993245
Sample Size: 10.800 g	Dilution Factor: n/a	% Moisture: 10.2
Dry Weight: 9.698 g	Blank File: P993270	% Lipid: n/a
GC Column: DB-225	Analyst: SW	% Solids: 89.8

Analytes	Conc. (ppb)	DE	EMPC	Ratio	RT	Flags
2,3,7,8-TCDF	6.1			0.72	23:00	—

Internal Standard	Conc. (ppb)	% Recovery	GC Limits	Ratio	RT	Flags
¹³ C ₁₂ -2,3,7,8-TCDF	189	91.6	40%-130%	0.77	22:58	—

Recovery Standard	Ratio	RT	Flags
¹³ C ₁₂ -1,2,3,4-TCDD	0.80	21:48	—

Data Reviewer: VK 09/16/1999



CT&E Ref.# 994282004
Client Name Oil Spill Consultants
Project Name/# Gambell DACA85-97-0010 DO 4
Client Sample ID 99-GAM-024-SL
Matrix Soil/Solid
Ordered By
PWSID

Client PO# 913
Printed Date/Time 09/01/99 15:11
Collected Date/Time 08/14/99 17:00
Received Date/Time 08/18/99 16:35
Technical Director: Stephen C. Ede

Released By

Sample Remarks:

8270 - LCS/LCSD recovery for pyridine and 3,3-dichlorobenzidine is biased low. The results for these compounds are estimated.

8270 - CCV recovery for 2,4-dinitrophenol is biased low. The results for this compound are estimated.

Table with 9 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Total Solids, Gasoline Range Organics, Surrogates (4-Bromofluorobenzene, 1,4-Difluorobenzene), and VOA by GC/MS Method SW8260 (Dichlorodifluoromethane, Chloromethane, Vinyl chloride, Bromomethane, Chloroethane, Trichlorofluoromethane, 1,1-Dichloroethene, Carbon disulfide, Methylene chloride, trans-1,2-Dichloroethene, 1,1-Dichloroethane).



CT&E Ref.# 994282004
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 Client Sample ID 99-GAM-024-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/01/99 15:11
 Collected Date/Time 08/14/99 17:00
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
2-Butanone (MEK)	0.22 U	0.22	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
2,2-Dichloropropane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
cis-1,2-Dichloroethene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Bromochloromethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Chloroform	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1,1-Trichloroethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Carbon tetrachloride	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1-Dichloropropene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Benzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2-Dichloroethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Trichloroethene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2-Dichloropropane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Dibromomethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Bromodichloromethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
2-chloroethylvinyl ether	0.22 U	0.22	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
cis-1,3-Dichloropropene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
4-Methyl-2-pentanone (MIBK)	0.22 U	0.22	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Toluene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
trans-1,3-Dichloropropene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1,2-Trichloroethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Tetrachloroethene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,3-Dichloropropane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
2-Hexanone	0.22 U	0.22	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Dibromochloromethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2-Dibromoethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Chlorobenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1,1,2-Tetrachloroethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Ethylbenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
P & M -Xylene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
o-Xylene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
p-Tyrene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Formoform	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS



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Client PO# 913
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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Isopropylbenzene (Cumene)	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Bromobenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1,2,2-Tetrachloroethane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2,3-Trichloropropane	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
n-Propylbenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
2-Chlorotoluene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
4-Chlorotoluene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,3,5-Trimethylbenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
tert-Butylbenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2,4-Trimethylbenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
sec-Butylbenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,3-Dichlorobenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
4-Isopropyltoluene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,4-Dichlorobenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2-Dichlorobenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
n-Butylbenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2-Dibromo-3-chloropropane	0.22 U	0.22	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2,4-Trichlorobenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Hexachlorobutadiene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Naphthalene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2,3-Trichlorobenzene	0.022 U	0.022	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Surrogates								
1,2-Dichloroethane-D4 <surr>	91.4		%	SW846-8260	(74-123)	08/14/99	08/27/99	
Dibromofluoromethane <surr>	106		%	SW846-8260	(80-118)	08/14/99	08/27/99	
Toluene-d8 <surr>	108		%	SW846-8260	(79-130)	08/14/99	08/27/99	
4-Bromofluorobenzene <Surr>	96		%	SW846-8260	(71-141)	08/14/99	08/27/99	



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DRO/RRO Combination								
Diesel Range Organics	10.2 U	10.2	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Residual Range Organics GC	22.0	16.9	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Surrogates								
5a Androstane <surrr>	91.6		%	AK102/103	(50-150)	08/24/99	08/28/99	
d-Triacontane <Surr>	120		%	AK102/103	(50-150)	08/24/99	08/28/99	
Semivolatiles by GC/MS								
N-Nitrosodimethylamine	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Pyridine	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Aniline	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Phenol	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Bis(2-Chloroethyl)ether	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Chlorophenol	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,3-Dichlorobenzene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,4-Dichlorobenzene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzyl alcohol	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,2-Dichlorobenzene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Methylphenol (o-Cresol)	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
bis(2-chloroisopropyl)ether	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
3&4-Methylphenol (p&m-Cresol)	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
N-Nitroso-di-n-propylamine	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachloroethane	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Nitrobenzene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Isophorone	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Nitrophenol	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dimethylphenol	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ



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Benzoic acid	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Bis(2-Chloroethoxy)methane	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,2,4-Trichlorobenzene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Naphthalene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Chloroaniline	0.63 U	0.63	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachlorobutadiene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Chloro-3-methylphenol	0.63 U	0.63	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dichlorophenol	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Methylnaphthalene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachlorocyclopentadiene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4,6-Trichlorophenol	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4,5-Trichlorophenol	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Chloronaphthalene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Nitroaniline	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Dimethylphthalate	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Acenaphthylene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,6-Dinitrotoluene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
3-Nitroaniline	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Acenaphthene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dinitrophenol	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Nitrophenol	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Dibenzofuran	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dinitrotoluene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Diethylphthalate	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Chlorophenyl-phenylether	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Fluorene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Nitroaniline	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Methyl-4,6-dinitrophenol	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
N-Nitrosodiphenylamine	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Bromophenyl-phenylether	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachlorobenzene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Pentachlorophenol	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ



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Phenanthrene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Anthracene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Di-n-butylphthalate	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Fluoranthene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Pyrene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
\zobenzene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Butylbenzylphthalate	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
3,3-Dichlorobenzidine	0.63 U	0.63	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo(a)Anthracene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Chrysene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
bis(2-Ethylhexyl)phthalate	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
di-n-Octylphthalate	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[b]Fluoranthene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[k]fluoranthene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[a]pyrene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Indeno[1,2,3-c,d] pyrene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Dibenzo[a,h]anthracene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[g,h,i]perylene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	74		%	SW846-8270	(18-122)	08/22/99	08/25/99	
Phenol-d6 <Surr>	64.9		%	SW846-8270	(24-88)	08/22/99	08/25/99	
Terphenyl-d14 <Surr>	107		%	SW846-8270	(21-142)	08/22/99	08/25/99	
2-Fluorobiphenyl <Surr>	72.5		%	SW846-8270	(30-103)	08/22/99	08/25/99	
2-Fluorophenol <Surr>	57		%	SW846-8270	(18-83)	08/22/99	08/25/99	
Nitrobenzene-d5 <Surr>	66		%	SW846-8270	(18-109)	08/22/99	08/25/99	



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PCB's by GC ECD								
Aroclor-1016	0.00317 U	0.00317	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1221	0.00317 U	0.00317	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1232	0.00317 U	0.00317	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1242	0.00317 U	0.00317	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1248	0.00317 U	0.00317	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1254	0.00317 U	0.00317	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1260	0.00317 U	0.00317	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	96.6		%	SW846 8082	(53.3-125)	08/20/99	08/23/99	
Pesticides								
alpha-BHC	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
beta-BHC	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-Chlordane	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
alpha-Chlordane	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
gamma-BHC (Lindane)	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
delta-BHC	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Aldrin	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Heptachlor epoxide	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan I	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDE	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Dieldrin	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan II	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
1,1,1-Trichloro-2,2,2-trifluoroethane (TCE)	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ



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Endrin aldehyde	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
4,4'-DDT	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endosulfan sulfate	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Endrin ketone	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Methoxychlor	0.000317 U	0.000317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
o-xaphene	0.0317 U	0.0317	mg/Kg	SW846-8081A		08/20/99	08/26/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	78.2		%	SW846-8081A	(46-154)	08/20/99	08/26/99	
Tetrachloro-m-xylene <Surr>	64.8		%	SW846-8081A	(25-120)	08/20/99	08/26/99	



CT&E Ref.# 994255014
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-024-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:29
 Collected Date/Time 08/14/99 17:00
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Released By

Sample Remarks:
 Sample analyzed for Dioxins (SW8290) by Triangle Laboratories of Durham, NC.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Total Solids	94.2		%	SM18 2540G			08/24/99	BJS
Metals by ICP								
Copper	7.32	4.25	mg/Kg	SW846 6010B		09/02/99	09/03/99	WTA
Metals by Graphite Furnace								
Antimony	0.211 U	0.211	mg/Kg	SW846-7041		08/24/99	08/27/99	KGF
Metals by Graphite Furnace								
Arsenic	1.09	0.211	mg/Kg	SW846 7060		08/24/99	08/30/99	JMO
Metals by Graphite Furnace								
Cadmium	0.0375	0.0211	mg/Kg	SW846-7131		08/24/99	08/25/99	KGF
Metals by Graphite Furnace								
Lead	5.64	2.11	mg/Kg	SW846-7421		08/24/99	08/25/99	KGF

TLI Project: 49337 Method 8290 PCDD/PCDF Analysis (b)
 Client Sample: 99.4255-14 Client Sample ID: 99-GAM-024-SL Analysis File: U316706

Client Project:	Gambell, AK	Date Received:	08/21/1999	Spike File:	SPMIT22S
Sample Matrix:	SOIL	Date Extracted:	08/29/1999	ICal:	UF58319
TLI ID:	244-42-4	Date Analyzed:	09/11/1999	ConCal:	U993166
Sample Size:	10.500 g	Dilution Factor:	n/a	% Moisture:	5.6
Dry Weight:	9.912 g	Blank File:	U315501	% Lipid:	n/a
GC Column:	DB-5	Analyst:	SW	% Solids:	94.4

Analytes	Conc. (ppt)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	ND	1.0				---
1,2,3,7,8-PeCDD	ND	1.4				---
1,2,3,4,7,8-HxCDD	ND	1.0				---
1,2,3,6,7,8-HxCDD	ND	0.9				---
1,2,3,7,8,9-HxCDD	ND	0.9				---
1,2,3,4,6,7,8-HpCDD	9.9			1.08	37:19	B_
1,2,3,4,6,7,8,9-OCDD	52.4			0.83	40:53	---
2,3,7,8-TCDF	4.8			0.78	25:55	B_
1,2,3,7,8-PeCDF	ND	0.9				---
2,3,4,7,8-PeCDF	EMPC		2.5			J_
1,2,3,4,7,8-HxCDF	8.6			1.22	33:18	---
1,2,3,6,7,8-HxCDF	2.2			1.23	33:25	J_
2,3,4,6,7,8-HxCDF	6.7			1.29	33:54	---
1,2,3,7,8,9-HxCDF	ND	0.9				---
1,2,3,4,6,7,8-HpCDF	17.6			1.01	36:18	---
1,2,3,4,7,8,9-HpCDF	2.1			0.97	37:48	J_
1,2,3,4,6,7,8,9-OCDF	15.4			0.87	41:05	---

Totals	Conc. (ppt)	Number	DL	EMPC	Ratio	RT	Flags
Total TCDD	ND		1.0				---
Total PeCDD	ND		1.4				---
Total HxCDD	6.6	3					---
Total HpCDD	21.8	2					---
Total TCDF	7.5	2					---
Total PeCDF	11.1	2		17.5			---
Total HxCDF	26.0	6					---
Total HpCDF	32.9	4					---

CT & E Environmental Services

TLI Project: 49337
 Client Sample: 99.4255-14

Method 8290 PCDD/PCDF Analysis (b)
 Analysis File: U316706

Client Sample ID: 99-GAM-024-SL

Internal Standards	Conc. (ppt)	% Recovery	QC Limits	Ratio	RT	Flags
¹² C ₁₂ -2,3,7,8-TCDF	130	64.2	40%-130%	0.77	25:52	—
¹² C ₁₂ -2,3,7,8-TCDD	136	67.3	40%-130%	0.85	26:35	—
¹² C ₁₂ -1,2,3,7,8-PeCDF	136	67.2	40%-130%	1.49	29:49	—
¹² C ₁₂ -1,2,3,7,8-PeCDD	133	66.0	40%-130%	1.46	30:51	—
¹² C ₁₂ -1,2,3,6,7,8-HxCDF	138	68.6	40%-130%	0.51	33:24	—
¹² C ₁₂ -1,2,3,6,7,8-HxCDD	183	90.7	40%-130%	1.16	34:05	—
¹² C ₁₂ -1,2,3,4,6,7,8-HpCDF	169	83.6	25%-130%	0.43	36:17	—
¹² C ₁₂ -1,2,3,4,6,7,8-HpCDD	217	107	25%-130%	0.99	37:18	—
¹² C ₁₂ -1,2,3,4,6,7,8,9-OCDD	382	94.6	25%-130%	0.83	40:52	—

Surrogate Standards (Type B)	Conc. (ppt)	% Recovery	QC Limits	Ratio	RT	Flags
¹² C ₁₂ -2,3,4,7,8-PeCDF	147	72.9	40%-130%	1.46	30:31	—
¹² C ₁₂ -1,2,3,4,7,8-HxCDF	128	63.6	40%-130%	0.50	33:18	—
¹² C ₁₂ -1,2,3,4,7,8-HxCDD	163	80.7	40%-130%	1.27	33:59	—
¹² C ₁₂ -1,2,3,4,7,8,9-HpCDF	211	105	25%-130%	0.43	37:48	—

Other Standard	Conc. (ppt)	% Recovery	QC Limits	RT	Flags
¹⁷ Cl-2,3,7,8-TCDD	11.8	58.2	40%-130%	26:36	—

Alternate Standards (Type B)	Conc. (ppt)	% Recovery	QC Limits	Ratio	RT	Flags
¹² C ₁₂ -1,2,3,7,8,9-HxCDF	186	92.0	40%-130%	0.51	34:39	—
¹² C ₁₂ -2,3,4,6,7,8-HxCDF	183	90.8	40%-130%	0.52	33:53	—

Recovery Standards	Ratio	RT	Flags
¹² C ₁₂ -1,2,3,4-TCDD	0.83	26:24	—
¹² C ₁₂ -1,2,3,7,8,9-HxCDD	1.20	34:23	—

Data Reviewer: VC 09/14/1999

TLI Project: 49337 Method 8290 TCDD/TCDF Analysis (DB-225)
 Client Sample: 99.4255-14 Client Sample ID: 99-GAM-024-SL Analysis File: P993262

Client Project:	Gambell, AK	Date Received:	08/21/1999	Spike File:	SPC2NF2S
Sample Matrix:	SOIL	Date Extracted:	08/29/1999	ICal:	PF27079
TLI ID:	244-42-4	Date Analyzed:	09/14/1999	ConCal:	P993252
Sample Size:	10.500 g	Dilution Factor:	n/a	% Moisture:	5.6
Dry Weight:	9.912 g	Blank File:	P993270	% Lipid:	n/a
GC Column:	DB-225	Analyst:	SS	% Solids:	94.4

Analytes	Conc. (ppb)	EMPC	Ratio	RT	Flags
2,3,7,8-TCDF	0.56		0.67	23:00	J_

Internal Standard	Conc. (ppb)	% Recovery	QC Limits	Ratio	RT	Flags
¹³ C ₁₂ -2,3,7,8-TCDF	146	72.2	40%-130%	0.77	22:59	—

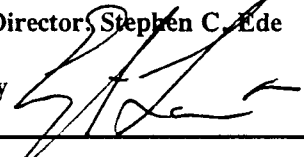
Recovery Standard	Ratio	RT	Flags
¹³ C ₁₂ -1,2,3,4-TCDD	0.78	21:50	—

Data Reviewer: VC 09/16/1999



CT&E Ref.# 994282005
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-0010 DO 4
 Client Sample ID 99-GAM-025-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/01/99 15:12
 Collected Date/Time 08/14/99 17:30
 Received Date/Time 08/18/99 16:35
 Technical Director, Stephen C. Ede

Released By 

Sample Remarks:

8270 - CCV recovery for 2,4-dinitrophenol is biased low. The results for this compound are estimated.
 8270 - LCS/LCSD recovery for pyridine and 3,3-dichlorobenzidine is biased low. The results for these compounds are estimated.
 DRO - Pattern consistent with highly weathered middle distillate.
 DRO - Heavier hydrocarbons contributing to diesel range quantitation.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Total Solids	94.7		%	SM18 2540G			08/24/99	MPA
Gasoline Range Organics	2.05 U	2.05	mg/Kg	AK101 GRO		08/14/99	08/27/99	DAR
Surrogates								
4-Bromofluorobenzene <Surr>	72.5		%	AK101 GRO	(50-150)	08/14/99	08/27/99	
1,4-Difluorobenzene <Surr>	93.7		%	AK101 GRO	(50-150)	08/14/99	08/27/99	
VOA by GC/MS Method SW8260								
Dichlorodifluoromethane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Chloromethane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Vinyl chloride	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Bromomethane	0.20 U	0.20	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Chloroethane	0.20 U	0.20	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Trichlorofluoromethane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1-Dichloroethene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Carbon disulfide	0.20 U	0.20	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Methylene chloride	0.10 U	0.10	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS



CT&E Ref.# 994282005
 Client Name Oil Spill Consultants
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Client PO# 913
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 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
trans-1,2-Dichloroethene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1-Dichloroethane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
2-Butanone (MEK)	0.20 U	0.20	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
2,2-Dichloropropane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
cis-1,2-Dichloroethene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
romochloromethane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Chloroform	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1,1-Trichloroethane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Carbon tetrachloride	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1-Dichloropropene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Benzene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2-Dichloroethane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Trichloroethene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2-Dichloropropane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Dibromomethane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Bromodichloromethane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
2-chloroethylvinyl ether	0.20 U	0.20	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
cis-1,3-Dichloropropene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
4-Methyl-2-pentanone (MIBK)	0.20 U	0.20	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Toluene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
trans-1,3-Dichloropropene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1,2-Trichloroethane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Tetrachloroethene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,3-Dichloropropane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
2-Hexanone	0.20 U	0.20	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Dibromochloromethane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2-Dibromoethane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Chlorobenzene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1,1,2-Tetrachloroethane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Ethylbenzene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
' & M -Xylene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
p-Xylene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS



CT&E Ref.# 994282005
 Client Name Oil Spill Consultants
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Client PO# 913
 Printed Date/Time 09/01/99 15:12
 Collected Date/Time 08/14/99 17:30
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 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Styrene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Bromoform	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Isopropylbenzene (Cumene)	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Bromobenzene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,1,2,2-Tetrachloroethane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2,3-Trichloropropane	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
n-Propylbenzene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
2-Chlorotoluene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
4-Chlorotoluene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,3,5-Trimethylbenzene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
tert-Butylbenzene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2,4-Trimethylbenzene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
sec-Butylbenzene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,3-Dichlorobenzene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
4-Isopropyltoluene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,4-Dichlorobenzene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2-Dichlorobenzene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
n-Butylbenzene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2-Dibromo-3-chloropropane	0.20 U	0.20	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2,4-Trichlorobenzene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Hexachlorobutadiene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Naphthalene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
1,2,3-Trichlorobenzene	0.020 U	0.020	mg/Kg	SW846-8260		08/14/99	08/27/99	DRS
Surrogates								
1,2-Dichloroethane-D4 <surrr>	92.2		%	SW846-8260	(74-123)	08/14/99	08/27/99	
Dibromofluoromethane <surrr>	106		%	SW846-8260	(80-118)	08/14/99	08/27/99	
Toluene-d8 <surrr>	106		%	SW846-8260	(79-130)	08/14/99	08/27/99	
4-Bromofluorobenzene <Surr>	89.6		%	SW846-8260	(71-141)	08/14/99	08/27/99	



CT&E Ref.# 994282005
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Client PO# 913
 Printed Date/Time 09/01/99 15:12
 Collected Date/Time 08/14/99 17:30
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
DRO/RRO Combination								
Diesel Range Organics	24.8	9.17	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Residual Range Organics GC	50.1	15.1	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Surrogates								
5a Androstane <surrogate>	93.1		%	AK102/103	(50-150)	08/24/99	08/28/99	
d-Triacontane <Surrogate>	127		%	AK102/103	(50-150)	08/24/99	08/28/99	
Semivolatiles by GC/MS								
N-Nitrosodimethylamine	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Pyridine	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Aniline	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Phenol	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Bis(2-Chloroethyl)ether	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Chlorophenol	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,3-Dichlorobenzene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,4-Dichlorobenzene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzyl alcohol	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,2-Dichlorobenzene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Methylphenol (o-Cresol)	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
bis(2-chloroisopropyl)ether	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
3&4-Methylphenol (p&m-Cresol)	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
N-Nitroso-di-n-propylamine	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachloroethane	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Nitrobenzene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Isophorone	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Nitrophenol	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dimethylphenol	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ



CT&E Ref.# 994282005
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-0010 DO 4
 Client Sample ID 99-GAM-025-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/01/99 15:12
 Collected Date/Time 08/14/99 17:30
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Benzoic acid	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Bis(2-Chloroethoxy)methane	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1,2,4-Trichlorobenzene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Naphthalene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Chloroaniline	0.68 U	0.68	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachlorobutadiene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Chloro-3-methylphenol	0.68 U	0.68	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dichlorophenol	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Methylnaphthalene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachlorocyclopentadiene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4,6-Trichlorophenol	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4,5-Trichlorophenol	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Chloronaphthalene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Nitroaniline	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Dimethylphthalate	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Acenaphthylene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,6-Dinitrotoluene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
3-Nitroaniline	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Acenaphthene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dinitrophenol	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Nitrophenol	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Dibenzofuran	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2,4-Dinitrotoluene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Diethylphthalate	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Chlorophenyl-phenylether	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Fluorene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Nitroaniline	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
2-Methyl-4,6-dinitrophenol	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
N-Nitrosodiphenylamine	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
4-Bromophenyl-phenylether	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Hexachlorobenzene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Pentachlorophenol	1.7 U	1.7	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ



CT&E Ref.# 994282005
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-0010 DO 4
 Client Sample ID 99-GAM-025-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/01/99 15:12
 Collected Date/Time 08/14/99 17:30
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Phenanthrene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Anthracene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Di-n-butylphthalate	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Fluoranthene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Pyrene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
1zobenzene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
duty(benzylphthalate	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
3,3-Dichlorobenzidine	0.68 U	0.68	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo(a)Anthracene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Chrysene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
bis(2-Ethylhexyl)phthalate	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
di-n-Octylphthalate	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[b]Fluoranthene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[k]fluoranthene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[a]pyrene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Indeno[1,2,3-c,d] pyrene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Dibenzo[a,h]anthracene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Benzo[g,h,i]perylene	0.33 U	0.33	mg/Kg	SW846-8270		08/22/99	08/25/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	80.3		%	SW846-8270	(18-122)	08/22/99	08/25/99	
Phenol-d6 <Surr>	61.4		%	SW846-8270	(24-88)	08/22/99	08/25/99	
Terphenyl-d14 <Surr>	115		%	SW846-8270	(21-142)	08/22/99	08/25/99	
2-Fluorobiphenyl <Surr>	71.4		%	SW846-8270	(30-103)	08/22/99	08/25/99	
2-Fluorophenol <Surr>	52.8		%	SW846-8270	(18-83)	08/22/99	08/25/99	
Nitrobenzene-d5 <Surr>	60.2		%	SW846-8270	(18-109)	08/22/99	08/25/99	



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
PCB's by GC ECD								
Aroclor-1016	0.00341 U	0.00341	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1221	0.00341 U	0.00341	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1232	0.00341 U	0.00341	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1242	0.00341 U	0.00341	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1248	0.00341 U	0.00341	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1254	0.00341 U	0.00341	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1260	0.00341 U	0.00341	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	95.8		%	SW846 8082	(53.3-125)	08/20/99	08/23/99	
Pesticides								
alpha-BHC	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
beta-BHC	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
gamma-Chlordane	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
alpha-Chlordane	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
gamma-BHC (Lindane)	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
delta-BHC	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Heptachlor	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Aldrin	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Heptachlor epoxide	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endosulfan I	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
4,4'-DDE	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Dieldrin	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endrin	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endosulfan II	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
4,4'-DDD	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ



CT&E Ref.# 994282005
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-0010 DO 4
 Client Sample ID 99-GAM-025-SL
 Matrix Soil/Solid
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 PWSID

Client PO# 913
 Printed Date/Time 09/01/99 15:12
 Collected Date/Time 08/14/99 17:30
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Endrin aldehyde	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
4,4'-DDT	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endosulfan sulfate	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endrin ketone	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Methoxychlor	0.000341 U	0.000341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Toxaphene	0.0341 U	0.0341	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	74.1		%	SW846-8081A	(46-154)	08/20/99	08/25/99	
Tetrachloro-m-xylene <Surr>	64.1		%	SW846-8081A	(25-120)	08/20/99	08/25/99	



CT&E Ref.# 994255015
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-025-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:29
 Collected Date/Time 08/14/99 17:30
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Released By

Sample Remarks:

Sample analyzed for Dioxins (SW8290) by Triangle Laboratories of Durham, NC.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
^								
Total Solids	94.7		%	SM18 2540G			08/24/99	BJS
Metals by ICP								
Copper	49.3	4.23	mg/Kg	SW846 6010B		09/02/99	09/03/99	WTA
Metals by Graphite Furnace								
Antimony	0.204 U	0.204	mg/Kg	SW846-7041		08/24/99	08/27/99	KGF
Metals by Graphite Furnace								
Arsenic	0.604	0.204	mg/Kg	SW846 7060		08/24/99	08/30/99	JMO
Metals by Graphite Furnace								
Cadmium	0.129	0.0204	mg/Kg	SW846-7131		08/24/99	08/25/99	KGF
Metals by Graphite Furnace								
Lead	9.02	2.04	mg/Kg	SW846-7421		08/24/99	08/25/99	KGF

TLI Project: 49337 Method 8290 PCDD/PCDF Analysis (b)
 Client Sample: 99.4255-15 Client Sample ID: 99-GAM-025-SL Analysis File: U316707

Client Project:	Gambell, AK	Date Received:	08/21/1999	Spike File:	SPMIT22S
Sample Matrix:	SOIL	Date Extracted:	08/29/1999	ICal:	UF58319
TLI ID:	244-42-5	Date Analyzed:	09/11/1999	ConCal:	U993166
Sample Size:	10.500 g	Dilution Factor:	n/a	% Moisture:	5.1
Dry Weight:	9.965 g	Blank File:	U315501	% Lipid:	n/a
GC Column:	DB-5	Analyst:	SW	% Solids:	94.9

Analytes	Conc. (ppb)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	ND	0.7				---
1,2,3,7,8-PeCDD	ND	0.8				---
1,2,3,4,7,8-HxCDD	ND	0.6				---
1,2,3,6,7,8-HxCDD	ND	0.6				---
1,2,3,7,8,9-HxCDD	ND	0.6				---
1,2,3,4,6,7,8-HpCDD	1.3			0.94	37:19	JB_
1,2,3,4,6,7,8,9-OCDD	9.7			0.84	40:53	JB_
2,3,7,8-TCDF	ND	0.7				---
1,2,3,7,8-PeCDF	ND	0.6				---
2,3,4,7,8-PeCDF	ND	0.7				---
1,2,3,4,7,8-HxCDF	1.2			1.28	33:18	J_
1,2,3,6,7,8-HxCDF	ND	0.4				---
2,3,4,6,7,8-HxCDF	ND	0.5				---
1,2,3,7,8,9-HxCDF	ND	0.5				---
1,2,3,4,6,7,8-HpCDF	2.4			0.92	36:18	JB_
1,2,3,4,7,8,9-HpCDF	ND	0.7				---
1,2,3,4,6,7,8,9-OCDF	EMPC		1.9			J_

Totals	Conc. (ppb)	Number	DL	EMPC	Flags
Total TCDD	ND		0.7		---
Total PeCDD	ND		0.8		---
Total HxCDD	ND		0.6		---
Total HpCDD	2.3	2			---
Total TCDF	ND		0.7		---
Total PeCDF	ND		0.6		---
Total HxCDF	2.1	2			---
Total HpCDF	4.1	2			---



CT&E Environmental Services Inc.

Laboratory Division

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301

Oil Spill Consultants

attention: Randy Easley

209 E 51st

Anchorage, AK 99503

Account: Oil Spill Consultants

Contact: Randy Easley

Project: Gambell DACA85-97D-0010 DO 4

Received: 08/18/99 16:35

CT&E Ref#: 99.4255

Print Date: 09/20/99 9:59

Work order 99.4255 was analyzed for Dioxins
by Triangle Laboratories Inc. of Durham, NC 27713-4411



CT&E Ref.# 994255016
Client Name Oil Spill Consultants
Project Name/# Gambell DACA85-97-D-0010 DO 4
Client Sample ID 99-GAM-026-SL
Matrix Soil/Solid
Ordered By
PWSID

Client PO# 913
Printed Date/Time 09/09/99 16:29
Collected Date/Time 08/14/99 18:47
Received Date/Time 08/18/99 16:35
Technical Director: Stephen C. Ede

Released By

Handwritten signature

Sample Remarks:

8270 - LCS/LCSD recovery for pyridine and 3,3-dichlorobenzidine is biased low. The results for these compounds are estimated.
8270 - Internal standard phenanthrene-d12 is biased low. The samples are non-detect. The results are not affected.
RRO - Surrogate recovery outside controls due to matrix interference.

Table with 9 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Total Solids, RCRA Metals (Arsenic, Barium, Cadmium, Chromium, Lead, Mercury by Cold Vapor, Selenium, Silver), Gasoline Range Organics, and Surrogates (4-Bromofluorobenzene, 1,4-Difluorobenzene).



CT&E Ref.# 994255016
 Client Name Oil Spill Consultants
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 Matrix Soil/Solid
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 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:29
 Collected Date/Time 08/14/99 18:47
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
VOA by GC/MS Method SW8260								
Dichlorodifluoromethane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Chloromethane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Vinyl chloride	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Bromomethane	0.14 U	0.14	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Chloroethane	0.14 U	0.14	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Trichlorofluoromethane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,1-Dichloroethene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Carbon disulfide	0.14 U	0.14	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Methylene chloride	0.101	0.068	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
trans-1,2-Dichloroethene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,1-Dichloroethane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
2-Butanone (MEK)	0.14 U	0.14	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
2,2-Dichloropropane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
cis-1,2-Dichloroethene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Bromochloromethane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Chloroform	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,1,1-Trichloroethane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Carbon tetrachloride	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,1-Dichloropropene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Benzene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2-Dichloroethane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Trichloroethene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2-Dichloropropane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Dibromomethane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Bromodichloromethane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
2-Chloroethyl Vinyl Ether	0.14 U	0.14	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
cis-1,3-Dichloropropene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
4-Methyl-2-pentanone (MIBK)	0.14 U	0.14	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
oluene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS



CT&E Ref.# 994255016
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-026-SL
 Matrix Soil/Solid
 Ordered By
 PWSID

Client PO# 913
 Printed Date/Time 09/09/99 16:29
 Collected Date/Time 08/14/99 18:47
 Received Date/Time 08/18/99 16:35
 Technical Director: Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
trans-1,3-Dichloropropene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,1,2-Trichloroethane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Tetrachloroethene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,3-Dichloropropane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
2-Hexanone	0.14 U	0.14	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1-Bromochloromethane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2-Dibromoethane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Chlorobenzene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,1,1,2-Tetrachloroethane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Ethylbenzene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
P & M -Xylene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
o-Xylene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Styrene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Bromoform	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Isopropylbenzene (Cumene)	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Bromobenzene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,1,2,2-Tetrachloroethane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2,3-Trichloropropane	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
n-Propylbenzene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
2-Chlorotoluene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
4-Chlorotoluene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,3,5-Trimethylbenzene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
tert-Butylbenzene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2,4-Trimethylbenzene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
sec-Butylbenzene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,3-Dichlorobenzene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
4-Isopropyltoluene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,4-Dichlorobenzene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2-Dichlorobenzene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
n-Butylbenzene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2-Dibromo-3-chloropropane	0.14 U	0.14	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2,4-Trichlorobenzene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Hexachlorobutadiene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Naphthalene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
1,2,3-Trichlorobenzene	0.014 U	0.014	mg/Kg	SW846-8260		08/14/99	08/25/99	DRS
Surrogates								
1,2-Dichloroethane-D4 <surr>	108		%	SW846-8260	(74-123)	08/14/99	08/25/99	
Dibromofluoromethane <surr>	107		%	SW846-8260	(80-118)	08/14/99	08/25/99	
Toluene-d8 <surr>	101		%	SW846-8260	(79-130)	08/14/99	08/25/99	
4-Bromofluorobenzene <Surr>	98.5		%	SW846-8260	(71-141)	08/14/99	08/25/99	
DRO/RRO Combination								
Diesel Range Organics	9.35 U	9.35	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Residual Range Organics GC	25.6	15.4	mg/Kg	AK102/103		08/24/99	08/28/99	MMP
Surrogates								
5a Androstane <surr>	125		%	AK102/103	(50-150)	08/24/99	08/28/99	
d-Triacontane <Surr>	186		%	AK102/103	(50-150)	08/24/99	08/28/99	
Semivolatiles by GC/MS								
N-Nitrosodimethylamine	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyridine	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Aniline	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenol	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethyl)ether	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chlorophenol	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,3-Dichlorobenzene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,4-Dichlorobenzene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzyl alcohol	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
1,2-Dichlorobenzene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylphenol (o-Cresol)	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-chloroisopropyl)ether	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3&4-Methylphenol (p&m-Cresol)	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitroso-di-n-propylamine	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachloroethane	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Nitrobenzene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Isophorone	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitrophenol	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dimethylphenol	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzoic acid	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Bis(2-Chloroethoxy)methane	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
1,2,4-Trichlorobenzene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Naphthalene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloroaniline	0.64 U	0.64	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobutadiene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chloro-3-methylphenol	0.64 U	0.64	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dichlorophenol	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methylnaphthalene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorocyclopentadiene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,6-Trichlorophenol	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4,5-Trichlorophenol	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Chloronaphthalene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Nitroaniline	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dimethylphthalate	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthylene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,6-Dinitrotoluene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3-Nitroaniline	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Acenaphthene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2,4-Dinitrophenol	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitrophenol	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
ibenzofuran	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ



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Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
2,4-Dinitrotoluene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Diethylphthalate	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Chlorophenyl-phenylether	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluorene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Nitroaniline	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
2-Methyl-4,6-dinitrophenol	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
N-Nitrosodiphenylamine	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
4-Bromophenyl-phenylether	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Hexachlorobenzene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pentachlorophenol	1.6 U	1.6	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Phenanthrene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Anthracene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Di-n-butylphthalate	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Fluoranthene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Pyrene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Azobenzene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Butylbenzylphthalate	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
3,3-Dichlorobenzidine	0.64 U	0.64	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo(a)Anthracene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Chrysene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
bis(2-Ethylhexyl)phthalate	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
di-n-Octylphthalate	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[b]Fluoranthene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[k]fluoranthene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[a]pyrene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Indeno[1,2,3-c,d] pyrene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Dibenzo[a,h]anthracene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Benzo[g,h,i]perylene	0.31 U	0.31	mg/Kg	SW846-8270		08/22/99	08/24/99	LZ
Surrogates								
2,4,6-Tribromophenol <Surr>	83.1		%	SW846-8270	(18-122)	08/22/99	08/24/99	



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Aldrin	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Heptachlor epoxide	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endosulfan I	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
4,4'-DDE	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Dieldrin	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endrin	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endosulfan II	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
4,4'-DDD	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endrin aldehyde	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
4,4'-DDT	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endosulfan sulfate	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Endrin ketone	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Methoxychlor	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Toxaphene	0.0326 U	0.0326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
Surrogates								
Decachlorobiphenyl <Surr>	82.6		%	SW846-8081A	(46-154)	08/20/99	08/25/99	
Tetrachloro-m-xylene <Surr>	71.6		%	SW846-8081A	(25-120)	08/20/99	08/25/99	



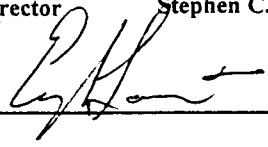
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Surrogates								
Phenol-d6 <Surr>	73.4		%	SW846-8270	(24-88)	08/22/99	08/24/99	
Terphenyl-d14 <Surr>	142		%	SW846-8270	(21-142)	08/22/99	08/24/99	
2-Fluorobiphenyl <Surr>	78.5		%	SW846-8270	(30-103)	08/22/99	08/24/99	
1-Fluorophenol <Surr>	65.7		%	SW846-8270	(18-83)	08/22/99	08/24/99	
Nitrobenzene-d5 <Surr>	73.5		%	SW846-8270	(18-109)	08/22/99	08/24/99	
PCB's by GC ECD								
Aroclor-1016	0.00326 U	0.00326	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1221	0.00326 U	0.00326	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1232	0.00326 U	0.00326	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1242	0.00326 U	0.00326	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1248	0.00326 U	0.00326	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1254	0.00326 U	0.00326	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Aroclor-1260	0.00326 U	0.00326	mg/Kg	SW846 8082		08/20/99	08/23/99	WAA
Surrogates								
Decachlorobiphenyl <Surr>	105		%	SW846 8082	(53.3-125)	08/20/99	08/23/99	
Pesticides								
alpha-BHC	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
beta-BHC	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
gamma-Chlordane	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
alpha-Chlordane	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
gamma-BHC (Lindane)	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
delta-BHC	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ
heptachlor	0.000326 U	0.000326	mg/Kg	SW846-8081A		08/20/99	08/25/99	LZ



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Client PO#
 Printed Date/Time 02/05/2001 14:00
 Collected Date/Time
 Received Date/Time 08/18/1999 16:35
 Technical Director Stephen C. Ede
 Released By 

Sample Remarks:
 Corrected report: Prep date for 8260 corrected.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Solids								
Total Solids	100		%	SM20 2540G			08/23/99	BJS
Volatile Fuels Department								
Gasoline Range Organics	12.6	2.50	mg/Kg	AK101 GRO		08/24/99	08/24/99	DAR
rogates								
1,4-Difluorobenzene <Surr>	96.2		%	AK101 GRO	50-150	08/24/99	08/24/99	DAR
4-Bromofluorobenzene <Surr>	69.9		%	AK101 GRO	50-150	08/24/99	08/24/99	DAR
Volatile Gas Chromatography/Mass Spectroscopy								
Dichlorodifluoromethane	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
Chloromethane	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
Vinyl chloride	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
Bromomethane	0.262 U	0.262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
Chloroethane	0.262 U	0.262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
Trichlorofluoromethane	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
1,1-Dichloroethene	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
Carbon disulfide	0.262 U	0.262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
Methylene chloride	0.131 U	0.131	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
trans-1,2-Dichloroethene	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
2-Butanone (MEK)	0.262 U	0.262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
2,2-Dichloropropane	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
1,1,1-Trichloroethane	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
1,1-Dichloroethane	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
cis-1,2-Dichloroethene	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
Bromochloromethane	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
roform	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
Carbon tetrachloride	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
Benzene	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS



CT&E Ref.# 994255017
Client Name Oil Spill Consultants
Project Name/# Gambell DACA85-97-D-0010 DO 4
Client Sample ID 99-GAM-027-SL
Matrix Soil/Solid
Ordered By

Client PO#
Printed Date/Time 02/05/2001 14:00
Collected Date/Time
Received Date/Time 08/18/1999 16:35
Technical Director Stephen C. Ede

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Section: Volatile Gas Chromatography/Mass Spectroscopy. Lists various chemical compounds and their detection results.



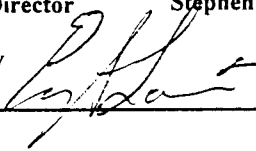
CT&E Ref.# 994255017
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-027-SL
 Matrix Soil/Solid
 Ordered By

Client PO#
 Printed Date/Time 02/05/2001 14:00
 Collected Date/Time
 Received Date/Time 08/18/1999 16:35
 Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>								
sec-Butylbenzene	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
1,3-Dichlorobenzene	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
4-Isopropyltoluene	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
1,4-Dichlorobenzene	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
1,2-Dichlorobenzene	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
n-Butylbenzene	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
1,2-Dibromo-3-chloropropane	0.262 U	0.262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
1,2,4-Trichlorobenzene	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
1,2,3,4-Tetrachlorobutadiene	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
o-xthalene	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
1,2,3-Trichlorobenzene	0.0262 U	0.0262	mg/Kg	SW846-8260B		08/22/99	08/22/99	DRS
Surrogates								
Dibromofluoromethane <surr>	101		%	SW846-8260B	80-118	08/22/99	08/22/99	DRS
1,2-Dichloroethane-D4 <surr>	106		%	SW846-8260B	74-123	08/22/99	08/22/99	DRS
Toluene-d8 <surr>	99.9		%	SW846-8260B	79-130	08/22/99	08/22/99	DRS
4-Bromofluorobenzene <Surr>	100		%	SW846-8260B	71-141	08/22/99	08/22/99	DRS



CT&E Ref.# 994255018
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-028-SL
 Matrix Other Liquids
 Ordered By

Client PO#
 Printed Date/Time 02/05/2001 14:00
 Collected Date/Time
 Received Date/Time 08/18/1999 16:35
 Technical Director Stephen C. Ede
 Released By 

Sample Remarks:

Corrected report: Sample matrix changed to other liquid, sample was a vial of Methanol.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>								
Gasoline Range Organics	0.0900 U	0.0900	mg/L	AK101 GRO		08/24/99	08/24/99	ELB
Surrogates								
1,4-Difluorobenzene <Surr>	90.7		%	AK101 GRO	50-150	08/24/99	08/24/99	ELB
4-Bromofluorobenzene <Surr>	81.7		%	AK101 GRO	50-150	08/24/99	08/24/99	ELB
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>								
Dichlorodifluoromethane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Chloromethane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Vinyl chloride	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Bromomethane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Chloroethane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Trichlorofluoromethane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,1-Dichloroethene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Methylene chloride	0.00500 U	0.00500	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Carbon disulfide	0.0100 U	0.0100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
trans-1,2-Dichloroethene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,1-Dichloroethane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
2,2-Dichloropropane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
cis-1,2-Dichloroethene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
2-Butanone (MEK)	0.0100 U	0.0100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Bromochloromethane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Chloroform	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,1,1-Trichloroethane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Carbon tetrachloride	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,1-Dichloropropene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Benzene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Dichloroethane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Trichloroethene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,2-Dichloropropane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM



CT&E Ref.# 994255018
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-028-SL
 Matrix Other Liquids
 Ordered By

Client PO#
 Printed Date/Time 02/05/2001 14:00
 Collected Date/Time
 Received Date/Time 08/18/1999 16:35
 Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>								
Dibromomethane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Bromodichloromethane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
2-Chloroethyl Vinyl Ether	0.0100 U	0.0100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
cis-1,3-Dichloropropene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Toluene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
trans-1,3-Dichloropropene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,1,2-Trichloroethane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Tetrachloroethene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,1-Dichloropropane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,1-Dibromochloromethane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,2-Dibromoethane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Chlorobenzene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,1,1,2-Tetrachloroethane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Ethylbenzene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
P & M -Xylene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
o-Xylene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Styrene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Bromoform	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Isopropylbenzene (Cumene)	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Bromobenzene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,1,2,2-Tetrachloroethane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,2,3-Trichloropropane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
n-Propylbenzene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
2-Chlorotoluene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
4-Chlorotoluene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,3,5-Trimethylbenzene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
tert-Butylbenzene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,2,4-Trimethylbenzene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
sec-Butylbenzene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,3-Dichlorobenzene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,3-Dichloropropyltoluene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,3-Dichlorobenzene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,2-Dichlorobenzene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
n-Butylbenzene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM



CT&E Ref.# 994255018
 Client Name Oil Spill Consultants
 Project Name/# Gambell DACA85-97-D-0010 DO 4
 Client Sample ID 99-GAM-028-SL
 Matrix Other Liquids
 Ordered By

Client PO#
 Printed Date/Time 02/05/2001 14:00
 Collected Date/Time
 Received Date/Time 08/18/1999 16:35
 Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>								
1,2-Dibromo-3-chloropropane	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,2,4-Trichlorobenzene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Hexachlorobutadiene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
Naphthalene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
1,2,3-Trichlorobenzene	0.00100 U	0.00100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
4-Methyl-2-pentanone (MIBK)	0.0100 U	0.0100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
2-Hexanone	0.0100 U	0.0100	mg/L	SW846-8260B		08/20/99	08/20/99	SPM
<u>Surrogates</u>								
Dibromofluoromethane <surr>	98.2		%	SW846-8260B		08/20/99	08/20/99	SPM
1,2-Dichloroethane-D4 <surr>	99.3		%	SW846-8260B		08/20/99	08/20/99	SPM
Toluene-d8 <surr>	96.6		%	SW846-8260B		08/20/99	08/20/99	SPM
4-Bromofluorobenzene <Surr>	99.2		%	SW846-8260B		08/20/99	08/20/99	SPM

Appendix G
Data Deliverables for Project Samples

Please Note: Data deliverables package for project samples is in a separate binder.

Appendix H
Safety and Health Phase-Out Report

Appendix H
Safety and Health Phase-Out Report

Safety and Health Phase-Out Report

Debris Removal and Containerized Hazardous Waste Removal and Toxic Waste Removal
Delivery Order No. 004, Contract No. DACA85-97-D-0010
Gambell, Alaska

Scope of Work

From July 5, 1999, through August 18, 1999, Oil Spill Consultants removed the following waste from formerly used defense sites at Gambell, Alaska:

- Hazardous and Toxic Waste (HTW). Approximately, 26.8 tons of HTW (battery, parts, dried paint, drums, and transformer carcasses) were collected from five locations at the project site.
- Metal Debris. Based on field weights, 142,234 pounds of metal debris consisting of runway matting, cable, fuel tanks and equipment parts were removed from sites identified by USAEDA.
- Contaminated Soil. Workers using picks and shovels excavated 52 tons of contaminated soil from Sevuokuk Mountain.
- Stained Soil. A total of 20 tons of petroleum-stained soil were excavated from several sites at Gambell.

This waste was shipped from the project site to state and EPA-approved disposal facilities in the Lower 48 following EPA and U.S. Department of Transportation guidelines.

Safety Performance

From start to finish, 5,629 man-hours were required to complete this project. Local personnel residing in Gambell, Alaska, provided 61 percent (3,434 man-hours) of the project labor.

There were no accidents, near misses, spills or equipment failures during this project. This is a noteworthy achievement in view of the environmental conditions at the project site. The scope of work required Oil Spill Consultants to remove contaminated soil and metal debris soil from Sevuokuk Mountain (about 600 ft. above sea level). Large boulders and narrow trails precluded the use of heavy equipment on the mountain top. Dense fog frequently limited visibility to 50 ft. or less. Despite these conditions the work was complete without any safety problems because:

- Daily safety meetings addressed site hazards and emphasized safety precautions.
- Experienced supervisors were used.
- Local residents were familiar with the terrain and accustomed to working in the environmental conditions at the project site.
- The government QAR provided insight, which helped Oil Spill Consultants resolve

problems that were unique to the Gambell environment. For example, when it was recognized that the boulders on Sevuokuk Mountain limited heavy equipment and truck to access Site 4/Area 4B, the QAR recommended using Argos (small track-mounted vehicles) to haul the excavated soil and debris down the mountain. Implementing this recommendation prevented vehicle roll-over accidents that could have resulted if trucks were used.

During the 1999 summer season, Gambell residents experienced three serious accidents that were not related to this project. One local resident was injured when a rifle discharged while she was removing fresh game from a small boat. Another resident drove a wooden stake through his hand while performing maintenance at this home. A young child experienced an eye injury while playing in her home.

In general, the accident frequency is high in Alaska's bush communities. However, by adhering to the requirements set forth in the site-specific safety and health plan for this project and providing experienced supervision, it was possible to complete an accident-free project with local labor.

Lessons Learned

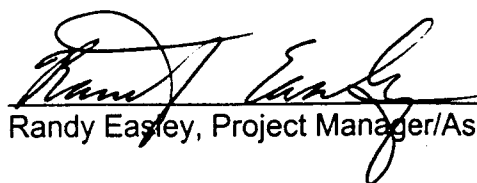
The following lessons were learned regarding safety during this project:

- Limit crew hours. Due to the requirement to have all waste removed and packaged prior to the arrival of the southbound barge at Gambell, Alaska, from Seattle, Washington, we elected to work seven 12-hour days per week. After the first 21 days, crew morale rapidly declined, and constant friction existed between various crew members. Since low morale and friction could compromise safety, it would be prudent to limit the normal workday at remote sites to 10 hours a day, six days a week.
- Conduct site visit prior to submitting cost proposal. The scope of work prepared by the government for this project neglected to identify wet tundra in Site 10 and boulders in Site 4. As a result, inappropriate equipment was identified for soil excavation at Site 4 and for transporting soil and debris through Site 10. Since inappropriate equipment could cause accidents, contractors should always conduct a site visit for projects in remote areas.

Exposure Monitoring

Prior to excavation, a portable photoionization detector (PID) was used to field screen areas with stained soil. During this project, all PID readings were zero. The PID was also used to field screen the drums that were removed from Site 10. All of the drums contained large holes created by rust and contained a few inches of rainwater. The PID readings from these drums were zero.

Signature



Randy Easley, Project Manager/Assistant Site Safety and Health Officer

Appendix I
Chemical Data Quality Review



LABORATORY DATA CONSULTANTS, INC.

7750 El Camino Real, Suite 2C Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

LDC Project#: 4332

U.S. Army Corps of Engineers
Alaska District
BLDG 21-702
Elmendorf AFB, AK 99506
Attn: Mr. Bret Walters

January 19, 2000

21 JAN REC'D

Subject: Gambell HTW Debris Removal

Dear Mr. Walters,

Enclosed is our EPA Level 3 Data Review Report for the "Gambell HTW Debris Removal" project. The analyses were performed by Quanterra Environmental Services in Anchorage, Alaska, CT & E Environmental Services, Inc. in Anchorage, Alaska, and Triangle Laboratories Inc. in Durham, North Carolina.. The laboratory data was received on December 30, 1999 under Sample Delivery Group No. 994255. The laboratory split data was received on December 8, 1999 under Sample Delivery Group No. 064096.

Please feel free to call me at (760) 634-0437 if you have any questions.

Sincerely,

Richard M. Amano
President/Principal Chemist

RECEIVED

JAN 24 2000

**FAIRBANKS RESIDENCE
OFFICE**

REVIEW OF ANALYTICAL CHEMISTRY RESULTS

Gambell HTW, Debris Removal Project# 99-092 /LDC# 4332

This report details the findings of an EPA Level 3 documentation review of analytical chemistry results generated in support of the Gambell HTW, Debris Removal project. Analyses were performed by Quanterra Environmental Services in Anchorage, Alaska, CT & E Environmental Services, Inc. in Anchorage, Alaska, and Triangle Laboratories, Inc. in Durham, North Carolina. Samples were analyzed for GC/MS Volatiles by EPA SW 846 Method 8260B, GC/MS Semivolatiles by EPA SW 846 Method 8270, Organochlorinated Pesticides by EPA SW 846 Method 8081, Polychlorinated Biphenyls by EPA SW 846 methods 8082, Metals by EPA SW 846 Methods 6010/7000, Gasoline Range Organics by Alaska Method AK101, Diesel Range Organics & Residual Range Organics by Alaska Methods AK102/AK103, and Dioxins by EPA SW 846 Method 8290. Samples are referenced under the following Sample Delivery Groups: 064096 and 994255. See the Sample Analysis Table (Attachment 1) for the number of samples reviewed and the Sample Validation Table (Attachment 2) for the sample identifications and analyses for the primary samples.

The QC criteria used for review purposes is that specified in the National Functional Guidelines for Organic/Inorganic Data Review, February 1994. Where specific guidance is not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience. The following items were evaluated during the review:

- Holding Times
- Sample Preservation
- Cooler Temperatures
- GC/MS Instrument Performance Check
- Initial and Continuing Calibration
- Blanks
- Surrogates
- Matrix Spike/Matrix Spike Duplicates
- Laboratory Control Samples
- Detection and Quantitation Limits

Only issues which require comment or action are discussed in this report. Data deficiencies are arranged by method, and presented as numbered findings. Potential effects of data anomalies have been described where possible.

I. Overall Data Assessment

Out-of-control events experienced by the laboratory have warranted the qualification of a portion of the data set as estimated (J) and some detectable results were qualified as estimated (J) and are discussed in detail by finding. Based upon the information reviewed, the overall data quality is considered acceptable with the noted limitations.

The HRGC/HRMS instrument performance check, Initial calibration, and routine calibration data were not provided for the dioxin/dibenzofuran analysis for SDG 994255 and therefore were not reviewed.

II. Chain of Custody/Cooler Temperatures/Preservation

The chain-of-custodies were reviewed for documentation of cooler temperatures and sample preservation. All appropriate samples were preserved and all cooler temperatures met validation criteria.

III. GC/MS Volatiles by EPA SW 846 Method 8260B

For GC/MS volatile organic analysis, holding times, instrument calibrations, instrument performance checks, blanks, internal standards, field QC, and all accuracy and precision results were within validation criteria with the following exceptions:

Finding 1: Continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the QC limits with the following exceptions:

Date	Compound	%D (limits)	Associated Samples	Flag
8/26/99	2-Butanone 2-Chloroethyvinyl ether	42.7 (≤ 25.0) 27.0 (≤ 25.0)	All samples in SDG 064096	J J
8/20/99	Chloroethane	26.6 (≤ 25.0)	99-GAM-028-SL 256433	J

Action: Samples were qualified as estimated (J) as indicated above. This is considered a technical deficiency.

Finding 2: Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
256479	8/22/99	Methylene chloride	0.238 mg/Kg	99-GAM-009-SL 99-GAM-010-SL 99-GAM-011-SL 99-GAM-012-SL 99-GAM-013-SL 99-GAM-014-SL 99-GAM-015-SL 99-GAM-017-SL 99-GAM-018-SL 99-GAM-019-SL 99-GAM-026-SL 99-GAM-027-SL
256433	8/20/99	Methylene chloride Bromomethane	0.0018 mg/L 0.0019 mg/L	99-GAM-028-SL

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
99-GAM-026-SL	Methylene chloride	0.101 mg/Kg	0.101U mg/Kg

Finding 3: Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Surrogate	%R (Limits)	Compound	Flag
99-GAM-009-SL	Bromofluorobenzene	69.3 (71-141)	All TCL compounds	J
99-GAM-014-SL	Bromofluorobenzene	64.6 (71-141)	All TCL compounds	J
99-GAM-015-SL	Bromofluorobenzene	60 (71-141)	All TCL compounds	J

Action: Samples were qualified as estimated (J) as indicated above. This is considered a protocol violation.

Sample	Surrogate	%R (Limits)	Compound	Flag
99-GAM-016-SL	Bromofluorobenzene	144 (70-130)	All TCL compounds	J (all detects)

Action: Sample results reported as detectable were qualified as estimated (J) as indicated above. This is considered a protocol violation.

Finding 4: Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable with the following exceptions:

Sample	Compound	Finding	Criteria	Flag
All samples in SDGs 064096 and 994255	All TCL compounds	No MS/MSD associated with these samples.	MS/MSD required.	None

For the samples listed in the table above, surrogate, laboratory control sample and laboratory control sample duplicates were used to assess precision and accuracy. Since these were acceptable with the exceptions noted in this report, sample results were not qualified based on this finding. This is considered a protocol violation.

Finding 5: Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag
256434/256435 (99-GAM-028-SL 256433)	Methylene chloride	139 (71-138)	146 (71-138)	-	J (all detects)

Action: Sample results reported as detectable were qualified as estimated (J) as indicated above. This is considered a protocol violation.

Samples 99-GAM-027-SL and 99-GAM-028-SL were identified as trip blanks. No volatile contaminants were found in these blanks.

Samples 99-GAM-014-SL and 99-GAM-015-SL were identified as field duplicates. No volatiles were detected in any of the samples.

Samples 99-GAM-014-SL (original) and 99-GAM-016-SL (referee) and samples 99-GAM-015-SL (original) and 99-GAM-016-SL (referee) were compared. No volatiles were detected in any of the samples.

IV. GC/MS Semivolatiles by EPA SW 846 Method 8270

For GC/MS semivolatiles organic analysis, holding times, instrument calibrations, instrument performance checks, blanks, and all accuracy and precision results were within validation criteria with the following exceptions:

Finding 1: Continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within QC limits with the following exceptions:

Date	Compound	%D (Limits)	Associated Samples	Flag
9/9/99	N-Nitrosodimethylamine	34.9 (≤25)	All samples in SDG 064096	J

Action: Samples were qualified as estimated (J) as indicated above. This is considered a technical deficiency.

Finding 2: Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable with the following exceptions:

Sample	Compound	Finding	Criteria	Flag
All samples in SDGs 064096 and 994255	All TCL compounds	No MS/MSD associated with these samples.	MS/MSD required.	None

For the samples listed in the table above, surrogate, laboratory control sample and laboratory control sample duplicates were used to assess precision and accuracy. Since these were acceptable with the exceptions noted in this report, sample results were not qualified based on this finding. This is considered a protocol violation.

Finding 3: Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag
BS990825E (All samples in SDG 064096)	Aniline	-	-	12 (≤ 10)	J
	Pyridine	-	-	16 (≤ 10)	J
256464/256465 (All samples in SDG 994255)	3,3'-Dichlorobenzidine	46.3 (54-94)	47.6 (54-94)	-	J
	Pyridine	2.12 (10-32)	2.19 (10-32)	-	J

Action: Samples were qualified as estimated (J) as indicated above. This is considered a protocol violation.

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag
256464/256465 (All samples in SDG 994255)	Butylbenzylphthalate	-	111 (63-110)	-	J (all detects)
	Di-n-octylphthalate	164 (52-108)	180 (52-108)	-	J (all detects)
	Bis(2-ethylhexyl)phthalate	124 (62-103)	128 (62-103)	-	J (all detects)

Action: Sample results reported as detectable were qualified as estimated (J) as indicated above. This is considered a protocol violation.

Finding 4: All internal standard areas and retention times were within QC limits with the following exceptions:

Sample	Internal Standards	Area (Limits)	Compound	Flag
99-GAM-010-SL	Chrysene-d12 Perylene-d12	374446 (479142-1916566) 110378 (252634-1010534)	Pyrene	J
			Butylbenzylphthalate	J
			3,3'-Dichlorobenzidine	J
			Benzo(a)anthracene	J
			Chrysene	J
			Bis(2-ethylhexyl)phthalate	J
			Di-n-octylphthalate	J
			Benzo(b)fluoranthene	J
			Benzo(k)fluoranthene	J
			Benzo(a)pyrene	J
			Indeno(1,2,3-cd)pyrene	J
			Dibenz(a,h)anthracene	J
			Benzo(g,h,i)perylene	J

Sample	Internal Standards	Area (Limits)	Compound	Flag
99-GAM-011-SL	Perylene-d12	186395 (252634-1010534)	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	J J J J J J J
99-GAM-012-SL	Perylene-d12	243384 (252634-1010534)	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	J J J J J J J
99-GAM-013-SL	Perylene-d12	191381 (252634-1010534)	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	J J J J J J J
99-GAM-014-SL	Perylene-d12	220558 (252634-1010534)	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	J J J J J J J
99-GAM-015-SL	Perylene-d12	216575 (252634-1010534)	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	J J J J J J J
99-GAM-017-SL	Perylene-d12	238092 (252634-1010534)	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	J J J J J J J

Sample	Internal Standards	Area (Limits)	Compound	Flag
99-GAM-018-SL	Perylene-d12	237086 (252634-1010534)	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	J J J J J J J
99-GAM-019-SL	Perylene-d12	228312 (252634-1010534)	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	J J J J J J J
99-GAM-026-SL	Perylene-d12	232377 (252634-1010534)	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	J J J J J J J

Surrogates were diluted out in sample 99-GAM-016-SL. No data qualifications were performed based on diluted surrogate results.

No field blanks were identified in these SDGs.

Samples 99-GAM-014-SL and 99-GAM-015-SL were identified as field duplicates. No semivolatiles were detected in any of the samples.

Samples 99-GAM-014-SL (original) and 99-GAM-016-SL (referee) and samples 99-GAM-015-SL (original) and 99-GAM-016-SL (referee) were compared. No semivolatiles were detected in any of the samples.

VI. Organochlorine Pesticides by EPA SW 846 method 8081

For GC Organochlorine Pesticides analysis, holding times, instrument calibrations, blanks, and all accuracy and precision results were within validation criteria with the following exceptions:

Finding 1: Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable with the following exceptions:

Sample	Compound	Finding	Criteria	Flag
All samples in SDGs 064096 and 994255	All TCL compounds	No MS/MSD associated with these samples.	MS/MSD required.	None

For the samples listed in the table above, surrogate, laboratory control sample and laboratory control sample duplicates were used to assess precision and accuracy. Since these were acceptable with the exceptions noted in this report, sample results were not qualified based on this finding. This is considered a protocol violation.

Finding 2: Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag
S9908251LCS/LCSD (All samples in SDG 064096)	Endosulfan sulfate	64 (65-138)	64 (65-138)	-	J

Action: Samples were qualified as estimated (J) as indicated above. This is considered a protocol violation.

Surrogates were diluted out in samples 99-GAM-012-SL and 99-GAM-018-SL. No data qualifications were performed based on diluted surrogate results.

No field blanks were identified in these SDGs.

Samples 99-GAM-014-SL and 99-GAM-015-SL were identified as field duplicates. No chlorinated pesticides were detected in any of the samples.

Samples 99-GAM-014-SL (original) and 99-GAM-016-SL (referee) and samples 99-GAM-015-SL (original) and 99-GAM-016-SL (referee) were compared. No chlorinated pesticides were detected in any of the samples.

VII. Polychlorinated Biphenyls by EPA SW 846 method 8082

For GC Polychlorinated Biphenyls analysis, holding times, instrument calibrations, blanks, and all accuracy and precision results were within validation criteria with the following exceptions:

Finding 1: Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag
99-GAM-009-SL	Not specified	Decachlorobiphenyl	130 (53-125)	All TCL compounds	J (all detects)

Action: Sample results reported as detectable were qualified as estimated (J) as indicated above. This is considered a protocol violation.

Surrogates were diluted out in sample 99-GAM-018-SL. No data qualifications were performed based on diluted surrogate results.

Finding 2: Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable with the following exceptions:

Sample	Compound	Finding	Criteria	Flag
All samples in SDGs 064096 and 994255	All TCL compounds	No MS/MSD associated with these samples.	MS/MSD required.	None

For the samples listed in the table above, surrogate, laboratory control sample and laboratory control sample duplicates were used to assess precision and accuracy. Since these were acceptable with the exceptions noted in this report, sample results were not qualified based on this finding. This is considered a protocol violation.

No field blanks were identified in these SDGs.

Samples 99-GAM-014-SL and 99-GAM-015-SL were identified as field duplicates. No polychlorinated biphenyls were detected in any of the samples with the following exceptions:

Compound	Concentration (Detection limit) (mg/Kg)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-014-SL		99-GAM-015-SL			
	Dilution:	0.898	Dilution:	0.934		
	Prep Date:	8/20/99	Prep Date:	8/20/99		
	Analysis date:	8/22/99	Analysis date:	8/22/99		
Aroclor-1260	0.0317	0.0034U	0.0111	0.0035U	2.9	-

The comparability of the field duplicate sample data was considered technically acceptable.

Samples 99-GAM-014-SL (original) and 99-GAM-016-SL (referee) and samples 99-GAM-015-SL (original) and 99-GAM-016-SL (referee) were compared. No polychlorinated biphenyls were detected in any of the samples with the following exceptions:

Compound	Concentration (Detection limit) (mg/Kg)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-014-SL		99-GAM-016-SL			
	Dilution:	0.898	Dilution:	1.0		
	Prep Date:	8/20/99	Prep Date:	8/25/99		
	Analysis date:	8/22/99	Analysis date:	9/7/99		
Aroclor-1260	0.0317	0.0034U	0.038U	0.0038U	NC	-

Compound	Concentration (Detection limit) (mg/Kg)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-015-SL		99-GAM-016-SL			
	Dilution:	0.934	Dilution:	1.0		
	Prep Date:	8/20/99	Prep Date:	8/25/99		
	Analysis date:	8/22/99	Analysis date:	9/7/99		
Aroclor-1260	0.0111	0.0035U	0.038U	0.038U	NC	-

The comparability of the QA split sample data was considered technically acceptable. In cases where the detection limit of a non-detect result is greater than a detected result, the comparison of the data is not technically significant. These cases are flagged with a "NC" (not calculable) notation.

VIII. Gasoline Range Organics by Alaska Method AK101

For gasoline range organic analysis, holding times, instrument calibrations, blanks, field QC, and all accuracy and precision results were within validation criteria with the following exceptions:

Finding 1: Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Surrogate	%R (Limits)	Compound	Flag
99-GAM-009-SL	4-Bromofluorobenzene	41.8 (50-150)	Gasoline range organics	J
99-GAM-011-SL	4-Bromofluorobenzene	47.2 (50-150)	Gasoline range organics	J
99-GAM-014-SL	4-Bromofluorobenzene	37.2 (50-150)	Gasoline range organics	J
99-GAM-015-SL	4-Bromofluorobenzene	27.3 (50-150)	Gasoline range organics	J
99-GAM-016-SL	4-Bromofluorobenzene	40 (50-150)	Gasoline range organics	J

Action: Samples were qualified as estimated (J) as indicated above. This is considered a protocol violation.

Finding 2: Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable with the following exceptions:

Sample	Compound	Finding	Criteria	Flag
All samples in SDGs 064096 and 994255	Gasoline range organics	No MS/MSD associated with these samples.	MS/MSD required.	None

For the samples listed in the table above, surrogate, laboratory control sample and laboratory control sample duplicates were used to assess precision and accuracy. Since these were acceptable with the exceptions noted in this report, sample results were not qualified based on this finding. This is considered a protocol violation.

Samples 99-GAM-027-SL and 99-GAM-028-SL were identified as trip blanks. No gasoline range organics were found in these blanks with the following exceptions:

Trip Blank ID	Compound	Concentration (mg/Kg)
99-GAM-027-SL	Gasoline range organics	12.6

Samples 99-GAM-014-SL and 99-GAM-015-SL were identified as field duplicates. No gasoline range organics were detected in any of the samples.

Samples 99-GAM-014-SL (original) and 99-GAM-016-SL (referee) and samples 99-GAM-015-SL (original) and 99-GAM-016-SL (referee) were compared. No gasoline range organics were detected in any of the samples.

IX. Diesel Range Organics and Residual Range Organics by Alaska Methods AK102/AK103

For diesel range and residual range organic analysis, holding times, instrument calibrations, blanks, field QC, and all accuracy and precision results were within validation criteria.

Finding 1: Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as diesel contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
5931XXQMB	8/24/99	Diesel range organics	4.71 mg/Kg	All samples in SDG 994255

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
99-GAM-011-SL	Diesel range organics	20.5 mg/Kg	20.5U mg/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
99-GAM-017-SL	Diesel range organics	15.3 mg/Kg	15.3U mg/Kg

Finding 2: Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Surrogate	%R (Limits)	Compound	Flag
S9908241MB	o-Terphenyl	52 (50-150)	Diesel range organics	J

Action: Samples were qualified as estimated (J) as indicated above. This is considered a protocol violation.

Sample	Surrogate	%R (Limits)	Compound	Flag
99-GAM-016-SL	Triacontane	160 (50-150)	Residual range organics	J (all detects)
99-GAM-014-SL	n-Triacontane	217 (50-150)	Diesel range organics Residual range organics	J (all detects) J (all detects)
99-GAM-019-SL	5 α -Androstane n-Triacontane	176 (50-150) 189 (50-150)	Diesel range organics Residual range organics	J (all detects) J (all detects)
99-GAM-026-SL	n-Triacontane	186 (50-150)	Diesel range organics Residual range organics	J (all detects) J (all detects)

Action: Sample results reported as detectable were qualified as estimated (J) as indicated above. This is considered a protocol violation.

Surrogates were diluted out in samples 99-GAM-009-SL, 99-GAM-010-SL, and 99-GAM-018-SL. No data qualifications were performed based on diluted surrogate results.

Finding 3: Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable with the following exceptions:

Sample	Compound	Finding	Criteria	Flag
All samples in SDGs 064096 and 994255	Diesel range organics Residual range organics	No MS/MSD associated with these samples.	MS/MSD required.	None None

For the samples listed in the table above, surrogate, laboratory control sample and laboratory control sample duplicates were used to assess precision and accuracy. Since these were acceptable with the exceptions noted in this report, sample results were not qualified based on this finding. This is considered a protocol violation.

No field blanks were identified in these SDGs.

Samples 99-GAM-014-SL and 99-GAM-015-SL were identified as field duplicates. No diesel range organics or residual range organics were detected in any of the samples with the following exceptions:

Compound	Concentration (Detection limit) (mg/Kg)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-014-SL		99-GAM-015-SL			
	Dilution:	0.952	Dilution:	0.872		
	Prep Date:	8/24/99	Prep Date:	8/24/99		
	Analysis date:	8/28/99	Analysis date:	8/28/99		
Diesel range organics	84.0	9.91U	68.8	9.91U	1.2	-
Residual range organics	592	16.4U	303	16.4U	2.0	-

The comparability of the field duplicate sample data was considered technically acceptable.

Samples 99-GAM-014-SL (original) and 99-GAM-016-SL (referee) and samples 99-GAM-015-SL (original) and 99-GAM-016-SL (referee) were compared. No diesel range organics or residual range organics were detected in any of the samples with the following exceptions:

Compound	Concentration (Detection limit) (mg/Kg)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-014-SL		99-GAM-016-SL			
	Dilution:	0.952	Dilution:	1.0		
	Prep Date:	8/24/99	Prep Date:	8/24/99		
	Analysis date:	8/28/99	Analysis date:	8/28/99		
Diesel range organics	84.0	10.7U	72	4.6U	1.2	-
Residual range organics	592	17.7U	270	11U	2.2	-

Compound	Concentration (Detection limit) (mg/Kg)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-015-SL		99-GAM-016-SL			
	Dilution:	0.872	Dilution:	1.0		
	Prep Date:	8/24/99	Prep Date:	8/24/99		
	Analysis date:	8/28/99	Analysis date:	8/28/99		
Diesel range organics	68.8	9.91U	72	4.6U	1.0	-
Residual range organics	303	16.4U	270	11U	1.1	-

The comparability of the QA split sample data was considered technically acceptable.

X. Metals by EPA SW 846 Methods 6010 and 7000

For metals analysis, holding times, instrument calibrations, instrument performance checks, blanks, internal standards, and all accuracy and precision results were within validation criteria with the following exceptions:

Finding 1: Method blanks were reviewed for each matrix as applicable. Data qualification by the preparation blanks (PBs) was based on the maximum contaminant concentration in the PBs in the analysis of each analyte. No contaminant concentrations were found above the IDL in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Cadmium Lead	0.1 ug/L 1.3 ug/L	99-GAM-009-SL 99-GAM-010-SL 99-GAM-011-SL 99-GAM-012-SL 99-GAM-013-SL
ICB/CCB	Barium Chromium	0.2 ug/L 2.5 ug/L	99-GAM-014-SL 99-GAM-015-SL 99-GAM-017-SL 99-GAM-018-SL 99-GAM-019-SL 99-GAM-026-SL

Sample concentrations were compared to the maximum contaminant concentrations detected in the PBs. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks.

Finding 2: Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable.

Sample	Analyte	Finding	Criteria	Flag
All samples in SDG 064096	Copper Antimony	No MS/MSD associated with these samples.	MS/MSD required.	None None
All samples in SDG 064096	All TAL metals	No MS/MSD associated with these samples.	MS/MSD required.	None

For the samples listed in the table above, laboratory control samples were used to assess precision and accuracy. Since these were acceptable, sample results were not qualified based on this finding. This is considered a protocol violation.

Finding 3: Matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag
E9H210161-002MS/MSD (All samples in SDG 064096)	Cadmium	77 (75-125)	-	-	J

Action: Samples were qualified as estimated (J) as indicated above. This is considered a technical deficiency.

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag
E9H210161-002MS/MSD (All samples in SDG 064096)	Chromium Lead	155 (75-125) 268 (75-125)	- 198 (75-125)	- -	J (all detects) J (all detects)

Action: Sample results reported as detectable were qualified as estimated (J) as indicated above. This is considered a technical deficiency.

No field blanks were identified in these SDGs.

Samples 99-GAM-014-SL and 99-GAM-015-SL and samples were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (Detection limit) (mg/Kg)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-014-SL		99-GAM-015-SL			
	Dilution: Prep Date: Analysis date:	1, 10, 200 8/26/99 8/25-31/99	Dilution: Prep Date: Analysis date:	1, 4, 100 8/26/99 8/25-31/99		
Arsenic	1.75	0.0492U	1.60	0.0492U	1.1	-
Barium	57.3	0.0550U	66.7	0.0550U	1.2	-
Cadmium	0.659	0.0072U	1.57	0.0072U	2.4	D
Chromium	13.2	0.0532U	23.9	0.0532U	1.8	-
Lead	212	0.0615U	311	0.0615U	1.5	-

Analyte	Concentration (Detection limit) (mg/Kg)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-014-SL		99-GAM-015-SL			
	Dilution:	1, 10, 200	Dilution:	1, 4, 100		
	Prep Date:	8/26/99	Prep Date:	8/26/99		
	Analysis date:	8/25-31/99	Analysis date:	8/25-31/99		
Mercury	0.101	0.005U	0.115	0.005U	1.1	-
Selenium	0.127U	0.127U	0.402	0.0724U	3.2	MD
Silver	1.62	0.0069U	0.169	0.0069U	9.6	MD

Analyte	Concentration (Detection limit) (mg/Kg)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-020-SL		99-GAM-021-SL			
	Dilution:	1, 10	Dilution:	1, 10		
	Prep Date:	8/26,9/2/99	Prep Date:	8/26,9/2/99		
	Analysis date:	8/25-9/3/99	Analysis date:	8/25-9/3/99		
Arsenic	0.978	0.0492U	0.642	0.0492U	1.5	-
Cadmium	0.0965	0.0072U	0.0927	0.0072U	1.0	-
Copper	63.9	0.335U	33.2	0.335U	1.9	-
Lead	16.1	0.0615U	22.2	0.0615U	1.4	-

The comparability of the field duplicate sample data was considered technically acceptable with the exceptions of Cadmium, Selenium, and Silver in sample pair 99-GAM-014-SL and 99-GAM-015-SL. No specific reason for this difference was identified during the review of QA/QC results. For the soil samples, sample homogeneity or subsampling could possibly account for this problem.

Samples 99-GAM-014-SL (original) and 99-GAM-016-SL (referee) and samples 99-GAM-015-SL (original) and 99-GAM-016-SL (referee) were compared. No metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (Detection limit) (mg/Kg)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-014-SL		99-GAM-016-SL			
	Dilution: Prep Date: Analysis date:	1, 10, 200 8/26/99 8/25-31/99	Dilution: Prep Date: Analysis date:	1, & 2 8/23/99 8/24-25/99		
Arsenic	1.75	0.0492U	8.3	2.3U	4.7	MD
Barium	57.3	0.0550U	57.0	4.6U	1.0	-
Cadmium	0.659	0.0072U	1.2U	1.2U	NC	-
Chromium	13.2	0.0532U	24.7	2.3U	1.9	-
Lead	212	0.0615U	197	1.2U	1.1	-
Mercury	0.101	0.005U	0.12	0.10U	1.2	-
Selenium	0.127U	0.0724U	1.3	1.2U	10.2	MD
Silver	1.62	0.0069U	2.3U	2.3U	NC	-

Analyte	Concentration (Detection limit) (mg/Kg)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-015-SL		99-GAM-016-SL			
	Dilution: Prep Date: Analysis date:	1, 4, 100 8/26/99 8/25-31/99	Dilution: Prep Date: Analysis date:	1, & 2 8/23/99 8/24-25/99		
Arsenic	1.60	0.0492U	8.3	2.3U	5.2	MD
Barium	66.7	0.0550U	57.0	4.6U	1.2	-
Cadmium	1.57	0.0072U	1.2U	1.2U	1.3	-
Chromium	23.9	0.0532U	24.7	2.3U	1.0	-
Lead	311	0.0615U	197	1.2U	1.6	-

Analyte	Concentration (Detection limit) (mg/Kg)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-015-SL		99-GAM-016-SL			
	Dilution:	1, 4, 100	Dilution:	1, & 2		
Prep Date:	8/26/99	Prep Date:	8/23/99			
Analysis date:	8/25-31/99	Analysis date:	8/24-25/99			
Mercury	0.115	0.005U	0.12	0.10U	1.0	-
Selenium	0.402	0.0724U	1.3	1.2U	3.2	D
Silver	0.169	0.0069U	2.3U	2.3U	NC	-

Analyte	Concentration (Detection limit) (mg/Kg)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-020-SL		99-GAM-022-SL			
	Dilution:	1, 10	Dilution:	1		
Prep Date:	8/26,9/2/99	Prep Date:	8/23/99			
Analysis date:	8/25-9/3/99	Analysis date:	8/25/99			
Arsenic	0.978	0.0492U	1.1	1.0U	1.1	-
Cadmium	0.0965	0.0072U	0.63U	0.63U	NC	-
Copper	63.9	0.335U	65.7	1.0U	1.0	-
Lead	16.1	0.0615U	36.5	0.50U	2.3	D

Analyte	Concentration (Detection limit) (mg/Kg)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-021-SL		99-GAM-022-SL			
	Dilution:	1, 10	Dilution:	1		
Prep Date:	8/26,9/2/99	Prep Date:	8/23/99			
Analysis date:	8/25-9/3/99	Analysis date:	8/25/99			
Arsenic	0.642	0.0492U	1.1	1.0U	1.7	-
Cadmium	0.0927	0.0072U	0.63U	0.63U	NC	-
Copper	33.2	0.335U	65.7	1.0U	2.0	-

Analyte	Concentration (Detection limit) (mg/Kg)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-021-SL		99-GAM-022-SL			
	Dilution:	1, 10	Dilution:	1		
	Prep Date:	8/26,9/2/99	Prep Date:	8/23/99		
	Analysis date:	8/25-9/3/99	Analysis date:	8/25/99		
Lead	22.2	0.0615U	36.5	0.50U	1.6	-

The comparability of the QA split sample data was considered technically acceptable with the exceptions of Arsenic and Selenium in sample pair 99-GAM-014-SL and 99-GAM-016-SL, Arsenic, Selenium, and Silver in sample pair 99-GAM-015-SL and 99-GAM-016-SL, and Lead in sample pair 99-GAM-020-SL and 99-GAM-022-SL. No specific reason for this difference was identified during the review of QA/QC results. For the soil samples, sample homogeneity or subsampling could possibly account for this problem. In cases where the detection limit of a non-detect result is greater than a detected result, the comparison of the data is not technically significant. These cases are flagged with a "NC" (not calculable) notation.

XI. Dioxins by EPA SW 846 Method 8290

For HRGC/HRMS dioxin/dibenzofuran analysis, holding times, instrument calibrations, instrument performance checks, blanks, internal standards, field QC, and all accuracy and precision results were within validation criteria with the following exceptions:

Finding 1: All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were less than or equal to 20.0% for unlabeled compounds and less than or equal to 30.0% for labeled compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag
9/4/99	¹³ C-OCDD	32	Method blank	J

Action: Samples were qualified as estimated (J) as indicated above. This is considered a protocol violation.

Finding 2: Method blanks were reviewed for each matrix as applicable. No polychlorinated dioxin/dibenzofuran contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
Method blank	8/25/99	1,2,3,4,6,7,8-HpCDD Total HpCDD OCDD	3.3 pg/g 3.3 pg/g 7.0 pg/g	All samples in SDG 064096
TU Blank	8/29/99	1,2,3,4,6,7,8-HpCDD OCDD 2,3,7,8-TCDF 1,2,3,4,6,7,8-HpCDF Total HxCDD Total HpCDD Total TCDF Total HpCDF	0.80 pg/g 0.81 pg/g 0.76 pg/g 0.71 pg/g 1.7 pg/g 0.80 pg/g 0.76 pg/g 0.71 pg/g	All samples in SDG 994255

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
99-GAM-020-SL	2,3,7,8-TCDF	3.5 pg/g	3.5U pg/g
99-GAM-025-SL	1,2,3,4,6,7,8-HpCDD 1,2,3,4,6,7,8-HpCDF Total HpCDD	1.3 pg/g 2.4 pg/g 2.3 pg/g	1.3U pg/g 2.4U pg/g 2.3U pg/g
99-GAM-024-SL	Total HxCDD	6.6 pg/g	6.6U pg/g

Finding 3: Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable with the following exceptions:

Sample	Compound	Finding	Criteria	Flag
All samples in SDGs 064096 and 994255	All TCL compounds	No MS/MSD associated with these samples.	MS/MSD required.	None

For the samples listed in the table above, laboratory control samples were used to assess precision and accuracy. Since these were acceptable with the exceptions noted in this report, sample results were not qualified based on this finding. This is considered a protocol violation.

Finding 4: All internal standard recoveries were within QC limits with the following exceptions:

Sample	Internal Standards	%R (Limits)	Compound	Flag
99-GAM-021-SL	¹³ C-1,2,3,4,6,7,8-HpCDD	146 (25-130)	1,2,3,4,6,7,8-HpCDD Total HpCDD	J (all detects) J (all detects)
99-GAM-023-SL	¹³ C-1,2,3,4,6,7,8-HpCDD	150 (25-130)	1,2,3,4,6,7,8-HpCDD Total HpCDD	J (all detects) J (all detects)

Action: Sample results reported as detectable were qualified as estimated (J) as indicated above. This is considered a protocol violation.

No field blanks were identified in these SDGs.

Samples 99-GAM-020-SL and 99-GAM-021-SL were identified as field duplicates. No polychlorinated dioxins/dibenzofurans were detected in any of the samples with the following exceptions:

Compound	Concentration (Detection limit) (ppt)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-020-SL		99-GAM-021-SL			
	Dilution: Prep Date: Analysis date:	1 8/29/99 9/11/99	Dilution: Prep Date: Analysis date:	1 8/29/99 9/11/99		
1,2,3,7,8-PeCDD	2.6	-	2.2	-	1.2	-
1,2,3,4,7,8-HxCDD	3.8	-	3.0	-	1.3	-
1,2,3,6,7,8-HxCDD	14.1	-	8.9	-	1.6	-
1,2,3,7,8,9-HxCDD	10.9	-	8.2	-	1.3	-
1,2,3,4,6,7,8-HpCDD	266	-	151	-	1.8	-

Compound	Concentration (Detection limit) (ppt)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-020-SL		99-GAM-021-SL			
	Dilution: Prep Date: Analysis date:	1 8/29/99 9/11/99	Dilution: Prep Date: Analysis date:	1 8/29/99 9/11/99		
OCDD	1250	-	800	-	1.6	-
2,3,7,8-TCDF	0.74	-	0.92	-	1.2	-
1,2,3,7,8-PeCDF	0.6U	0.6U	0.97 EMPC*	-	1.6	-
2,3,4,7,8-PeCDF	1.2	-	1.7	-	1.4	-
1,2,3,4,7,8-HxCDF	4.3	-	4.6	-	1.1	-
1,2,3,6,7,8-HxCDF	1.7	-	1.8	-	1.1	-
2,3,4,6,7,8-HxCDF	2.9	-	2.9	-	1	-
1,2,3,4,6,7,8-HpCDF	107	-	74.1	-	1.4	-
1,2,3,4,7,8,9-HpCDF	6.5	-	4.8	-	1.4	-
OCDF	596	-	436	-	1.4	-
Total TCDD	1.7	-	1.5	-	1.1	-
Total PeCDD	24.3	-	19.1	-	1.3	-
Total HxCDD	97.9	-	67.1	-	1.5	-
Total HpCDD	461	-	263	-	2	-
Total TCDF	24.9	-	26.7	-	1.1	-
Total PeCDF	8.6	-	12.8	-	1.5	-

Compound	Concentration (Detection limit) (ppt)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-020-SL		99-GAM-021-SL			
	Dilution:	1	Dilution:	1		
	Prep Date:	8/29/99	Prep Date:	8/29/99		
	Analysis date:	9/11/99	Analysis date:	9/11/99		
Total HxCDF	85.5	-	59.4	-	1.4	-
Total HpCDF	526	-	362	-	1.5	-

*EMPC = estimated maximum possible concentration

The comparability of the field duplicate sample data was considered technically acceptable.

Samples 99-GAM-020-SL (original) and 99-GAM-022-SL (referee) and samples 99-GAM-021-SL (original) and 99-GAM-022-SL (referee) were compared. No polychlorinated dioxins/dibenzofurans were detected in any of the samples with the following exceptions:

Compound	Concentration (Detection limit) (ppt)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-020-SL		99-GAM-022-SL			
	Dilution:	1	Dilution:	1		
	Prep Date:	8/29/99	Prep Date:	8/25/99		
	Analysis date:	9/11/99	Analysis date:	9/11/99		
2,3,7,8-TCDD	0.8U	0.8U	0.60	-	NC	-
1,2,3,7,8-PeCDD	2.6	-	2.2U	2.2U	1.2	-
1,2,3,4,7,8-HxCDD	3.8	-	3.3	-	1.2	-
1,2,3,6,7,8-HxCDD	14.1	-	12	-	1.2	-
1,2,3,7,8,9-HxCDD	10.9	-	5.1	-	2.1	-
1,2,3,4,6,7,8-HpCDD	266	-	250	-	1.1	-
OCDD	1250	-	1100	-	1.1	-

Compound	Concentration (Detection limit) (ppt)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-020-SL		99-GAM-022-SL			
	Dilution:	1	Dilution:	1		
Prep Date:	8/29/99	Prep Date:	8/25/99			
Analysis date:	9/11/99	Analysis date:	9/11/99			
2,3,7,8-TCDF	0.74	-	1.2	-	1.6	-
2,3,4,7,8-PeCDF	1.2	-	1.5U	1.5U	NC	-
1,2,3,4,7,8-HxCDF	4.3	-	2.9U	2.9U	1.5	-
1,2,3,6,7,8-HxCDF	1.7	-	2.1U	2.1U	NC	-
2,3,4,6,7,8-HxCDF	2.9	-	1.8U	1.8U	1.6	-
1,2,3,4,6,7,8-HpCDF	107	-	96	-	1.1	-
1,2,3,4,7,8,9-HpCDF	6.5	-	5.0	-	1.3	-
OCDF	596	-	570	-	1	-
Total TCDD	1.7	-	7.6	-	4.5	D
Total PeCDD	24.3	-	4.5U	4.5U	5.4	MD
Total HxCDD	97.9	-	68	-	1.4	-
Total HpCDD	461	-	430	-	1.1	-
Total TCDF	24.9	-	47	-	1.9	-
Total PeCDF	8.6	-	11	-	1.3	-
Total HxCDF	85.5	-	61	-	1.4	-
Total HpCDF	526	-	470	-	1.1	-

Compound	Concentration (Detection limit) (ppt)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-021-SL		99-GAM-022-SL			
	Dilution: Prep Date: Analysis date:	1 8/29/99 9/11/99	Dilution: Prep Date: Analysis date:	1 8/25/99 9/11/99		
2,3,7,8-TCDD	0.6U	0.6U	0.60	-	1	
1,2,3,7,8-PeCDD	2.2	-	2.2U	-	1	-
1,2,3,4,7,8-HxCDD	3.0	-	3.3	-	1.1	-
1,2,3,6,7,8-HxCDD	8.9	-	12	-	1.3	-
1,2,3,7,8,9-HxCDD	8.2	-	5.1	-	1.6	-
1,2,3,4,6,7,8-HpCDD	151	-	250	-	1.7	-
OCDD	800	-	1100	-	1.4	-
2,3,7,8-TCDF	0.92	-	1.2	-	1.3	-
1,2,3,7,8-PeCDF	0.97 EMPC*	-	1.6U	1.6U	NC	-
2,3,4,7,8-PeCDF	1.7	-	1.5U	1.5U	1.1	-
1,2,3,4,7,8-HxCDF	4.6	-	2.9U	-	1.6	-
1,2,3,6,7,8-HxCDF	1.8	-	2.1U	-	NC	-
2,3,4,6,7,8-HxCDF	2.9	-	1.8U	-	1.6	-
1,2,3,4,6,7,8-HpCDF	74.1	-	96	-	1.3	-
1,2,3,4,7,8,9-HpCDF	4.8	-	5.0	-	1	-
OCDF	436	-	570	-	1.3	-

Compound	Concentration (Detection limit) (ppt)				Difference Factor (X)	Disagreement /Major Disagreement (D/MD)
	99-GAM-021-SL		99-GAM-022-SL			
	Dilution:	1	Dilution:	1		
	Prep Date:	8/29/99	Prep Date:	8/25/99		
	Analysis date:	9/11/99	Analysis date:	9/11/99		
Total TCDD	1.5	-	7.6	-	5.1	MD
Total PeCDD	19.1	-	4.5U	4.5U	4.2	D
Total HxCDD	67.1	-	68	-	1	-
Total HpCDD	263	-	430	-	1.6	-
Total TCDF	26.7	-	47	-	1.7	-
Total PeCDF	12.8	-	11	-	1.2	-
Total HxCDF	59.4	-	61	-	1	-
Total HpCDF	362	-	470	-	1.3	-

*EMPC = estimated maximum possible concentration

The comparability of the QA split sample data was considered technically acceptable with the exceptions of Total TCDD and Total PeCDD in sample pair 99-GAM-020-SL and 99-GAM-022-SL and sample pair 99-GAM-021-SL and 99-GAM-022-SL. No specific reason for these differences was identified during the review of QA/QC results. For the soil samples, sample homogeneity or subsampling could possibly account for this problem. In cases where the detection limit of a non-detect result is greater than a detected result, the comparison of the data is not technically significant. These cases are flagged with a "NC" (not calculable) notation.