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COMPLETION REPORT FOR SITE 19B AND 24B BARIN FIELD NAS WHITING FIELD FL
6/1/1997
MORRISON KNUDSEN

Completion Report
Site 19B, East and West, UST Removal and
Site 24B, Fire Fighter Training Area Soil Removal

OLF Barin
Foley, Alabama

Unit Identification Code: N60508
Contract No. N62467-93-D-1106

June 1997

Revision 0

Southern Division
Naval Facilities Engineering Command
North Charleston, South Carolina
29419-9010

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EXECUTIVE SUMMARY

Work was performed at three specific locations at outlying landing field (OLF) Barin; Sites 19B east, 19B west, and 24B. Sites 19B east and west were located immediately south of the access road (Guadalcanal Road) at the east and west ends. Site 19B east consisted of three underground storage tanks (USTs) with a concrete vault housing the piping and pumps for each tank, an oil water separator (OWS), and associated piping. Site 19B west was a duplicate of 19B east. The objective at 19B east and west was to remove the USTs, OWS and associated piping, excavate impacted soils until closure criteria was met, and restore the site. Site 24B, known as the fire fighting training area (FFTA), was a sixty foot circular depression in the ground located approximately 200 yards east of the east runway. The FFTA was lined with a 60 mil polyethylene liner, approximately two feet below ground surface (bgs). The objective at Site 24B was to remove the contaminated soil above the liner and restore the area once the closure criteria was met.

The removal began on September 24, 1996, at Site 19B east and progressed to Site 19B west. The UST contents were removed followed by excavation and removal of the USTs, OWS, and piping. Visible soil contamination was observed and release notification was made to the Alabama Department of Environmental Management (ADEM), as required. All excavated soils were stockpiled for sampling to determine suitability for backfill. Additional soils were removed from both sites until either the closure criteria was attained or groundwater was encountered. Two groundwater monitoring wells were also abandoned at Site 19B east. Each site was considered clean closed before backfill operations began. The site was backfilled and graded to prevent ponding. Native grasses were planted for site restoration.

On October 17, 1996, excavation began at Site 24B. The soil was excavated and directly loaded for transport to the off-site landfill. The liner was removed and also disposed of at the landfill. Additional soil was removed, on November 25, 1996, to reach closure criteria. The site was backfilled and graded to prevent ponding. Native grasses were planted for site restoration.

No further action is recommended at these OLF Barin sites.

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ACRONYMS AND ABBREVIATIONS

ADEM	Alabama Department of Environmental Management
bgs	below ground surface
CLEAN	Comprehensive Longterm Environmental Action Navy
CWM	Chemical Waste Management
cy	cubic yard
DOD	Department of Defense
DOT	Department of Transportation
EPA	Environmental Protection Agency
FFTA	Fire Fighting Training Area
frac	fractionation tank
IR	Installation Restoration
IWS	Industrial Water Services Inc
LEL	Lower Explosive Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
MK	Morrison Knudsen Corporation
NAS	Naval Air Station
NAVFACENGCOM	Naval Facilities Engineering Command
OLF	Outlying Landing Field
OWS	Oil Water Separator
OVA	Organic Vapor Analyzer
PPE	Personal Protective Equipment
ppm	parts per million
psi	pounds per square inch
RI	Remedial Investigation
ROICC	Resident Officer in Charge of Construction
RPM	Remedial Project Manager
SOUTHDIV	Southern Division, Naval Facilities Engineering Command
SVOC	Semi-Volatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
UST	Underground Storage Tank
VOC	Volatile Organic Compound

1.0
INTRODUCTION

Morrison Knudsen Corporation (MK) was contracted by the Naval Facilities Engineering Command (NAVFACENGCOM), Southern Division Engineering Field Division (Southern Division), under contract N62467-93-D-1106, Delivery Order #0013, Statement of Work #016 to excavate and remove underground storage tanks (USTs) and to remove contaminated soils at the fire fighting training area (FFTA) at Naval Air Station (NAS) Whiting Field Outlying Landing Field (OLF) Barin. This Completion Report summarizes the construction and environmental tasks associated with removal of the USTs and FFTA soils and site restoration. The UST closure report required by the Alabama Department of Environmental Management (ADEM) is being prepared by the Comprehensive Long Term Environmental Action Navy (CLEAN) contractor, ABB Environmental.

The OLF Barin facility was investigated under the Department of Defense (DOD) Installation Restoration (IR) program. During the Remedial Investigation (RI) phases, the Alabama Department of Environmental Management (ADEM) approved Southern Division's request to complete a removal action at Sites 19B and 24B following UST guidelines (ABB, 1994).

On August 30, 1996, notice was given by Southern Division to ADEM that the Navy intended to remove the USTs at Site 19B and the FFTA soils, under ADEM Administrative Code R.335-6-15-.37 through .40 and the ADEM Guidance Manual (ADEM, 1995). The closure criteria, per ADEM Guidance, was to excavate petroleum contaminated soils to a level below 100 parts per million (ppm) total petroleum hydrocarbons (TPH). On September 12, 1996, samples were collected from the FFTA and USTs for characterization. Work began on September 24, 1996 with the contents of the USTs being pumped into a storage tank. Photographs of various work activities are provided in Appendix A.

MK provided project management, construction management, scientific and environmental staff, health and safety oversight, and quality control to perform the removal action. MK's primary subcontractor was Kemron Construction, which provided UST excavation, removal, cleaning, and demolition services at the site. Core Laboratories provided analytical services to MK, and Envirochem Laboratory provided analytical services to Kemron Construction.

The following MK project documents were used to plan and perform the UST removal, cleaning, and disposal; conduct sampling and analysis; ensure quality control; and ensure that all work complied with federal, state and local regulatory and industrial standards for health and safety:

Work Plan, Revision 0, June 17, 1996 (MK, 1996), including:
- Appendix A, Site Safety and Health Plan
- Appendix B, Quality Control Documentation
- Appendix C, Quality Assurance Project Plan
- Appendix D, Environmental Protection Plan
- Appendix E, Waste Management Plan
- Appendix F, Technical Specifications.

The work plan was approved by Southern Division on September 12, 1996.

2.0
SITE BACKGROUND

2.1 DESCRIPTION

OLF Barin is located in Baldwin County, approximately two miles southeast of Foley, Alabama. The site is approximately forty miles southeast of Mobile, Alabama, and thirty-five miles west of Pensacola, Florida. Access to the site is via Highway 98, as shown in Figure 2-1. OLF Barin has been used as a civilian airport and landing field for the US Navy since the 1930s. A crash crew currently occupies the buildings at OLF Barin to support Naval flight training activities from nearby NAS Whiting Field.

The locations at OLF Barin, included in the removal action, were Sites 19B east, 19B west, and 24B. Sites 19B east and west each consisted of three underground storage USTs with a concrete vault housing the piping and pumps for each tank, an oil water separator (OWS), and associated piping. These areas are located immediately south of the access road, at the east and west ends of the road as shown in Figure 2-2. The USTs and OWS were used to contain the kerosene and wash water from plane washing operations. Site 24B, known as the fire fighting training area (FFTA), was a sixty foot circular depression in the ground lined with a 60 mil polyethylene liner, approximately two feet below ground surface (bgs). The FFTA was used to train the crash crews in fire fighter operations. The FFTA is located approximately 200 yards east of the east runway (Figure 2-2).

2.2 SITE GEOLOGY AND HYDROLOGY

The predominate soil types at the facility are the Lakeland loamy fine sand and the Klej loamy fine sand. Ground water has been recorded between the depths of 14 and 20 feet bgs at 19B and 9 to 10 feet bgs at Site 24B. (ABB, 1995).

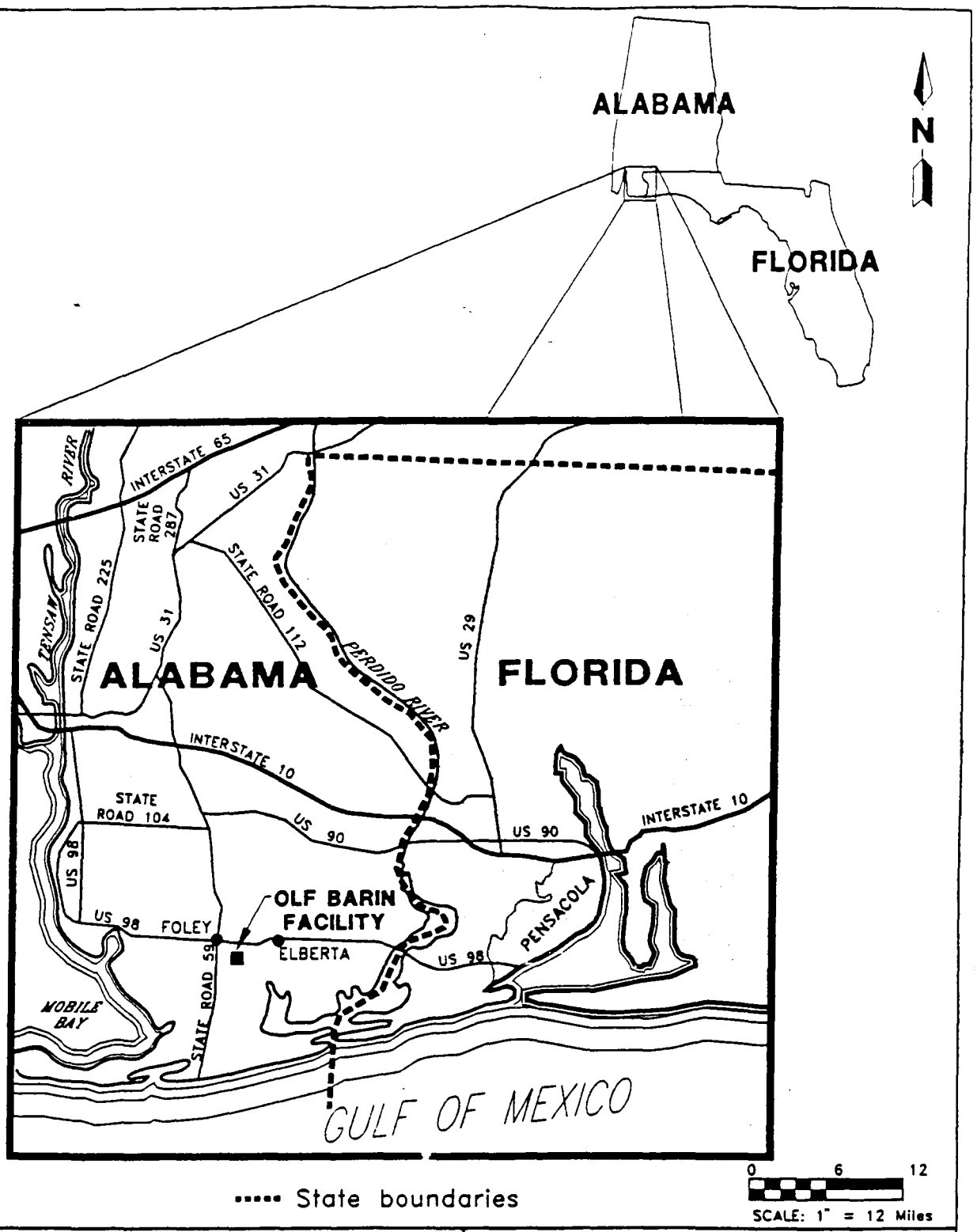

FIGURE 2-1
VICINITY MAP
OLF BARIN, FOLEY, ALABAMA
(Reference: MK, 1996)

OLF BARIN
FOLEY, ALABAMA

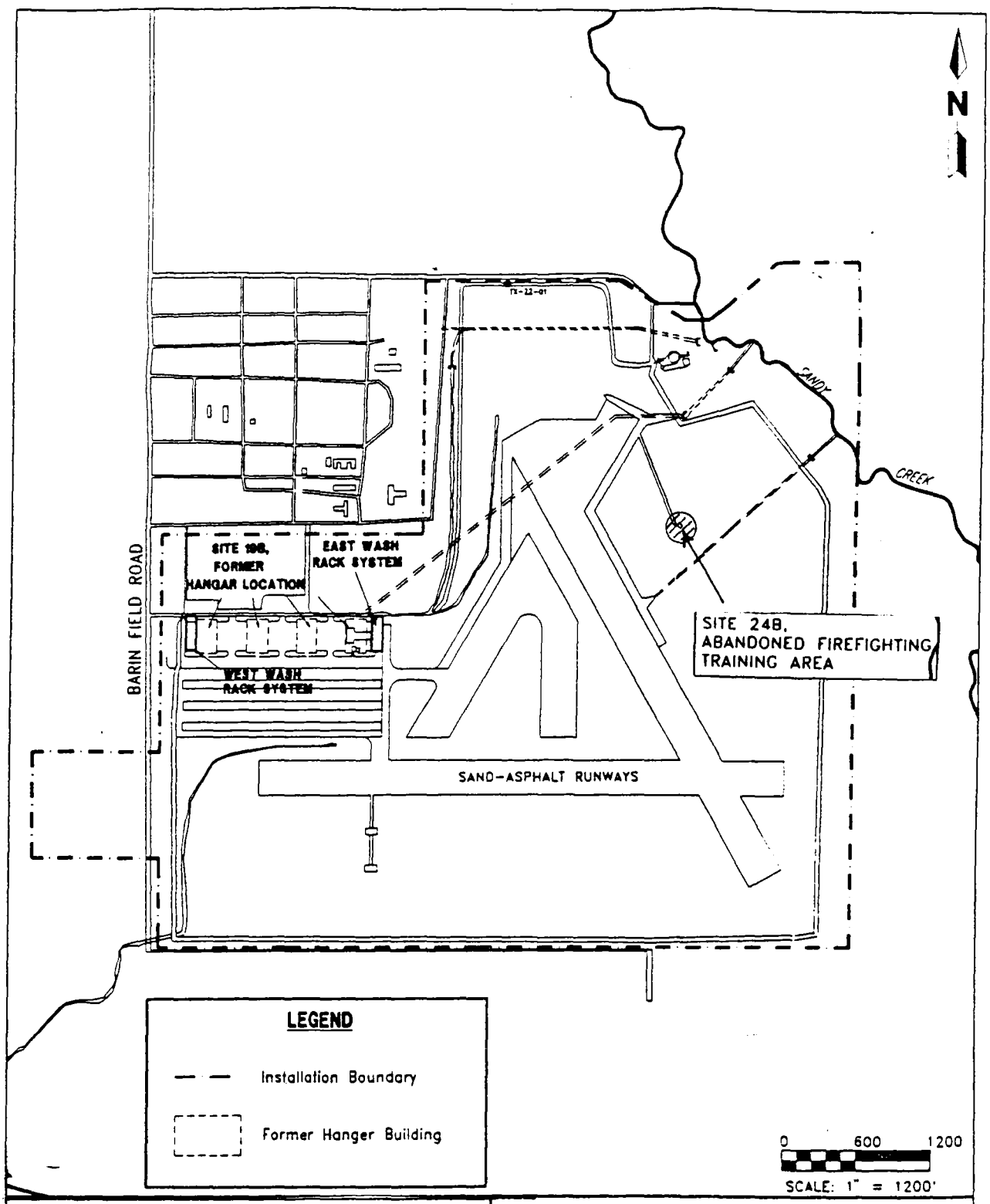

FIGURE 2-2
SITE LAYOUT
OLF BARIN, FOLEY, ALABAMA
(Reference: MK, 1996)

OLF BARIN
FOLEY, ALABAMA

3.0
WORK EXECUTION

MK mobilized to the site and began preparations for the remedial activities in September 1996. A preconstruction meeting was held with NAVFAC, Resident Officer in Charge of Construction (ROICC), the Environmental Coordinator from NAS Whiting Field, the Southern Division Remedial Project Manager (RPM), the facility commanding officer, ABB Environmental, ADEM, MK, and MK's subcontractor.

3.1 CHARACTERIZATION SAMPLING

On September 12, 1996, samples were collected from the FFTA and three USTs. All samples were collected for disposal parameters.

3.1.1 USTs

Samples were collected from two USTs at Site 19B west (19W/T1 and 19W/T2) and one of the three USTs at 19B east (19E/T3). Only two USTs at Site 19B west were accessible for sampling at this time. The third was sampled once the manway had been located and accessed, on October 1, 1996, (TW3TC008), and was analyzed for the same disposal parameters as 19W/T1 and 19W/T2. The three USTs at Site 19B east had been sampled in 1995 (MK ,1996). Therefore, as determined during the preconstruction meeting, only one sample was required to confirm the 1995 results. Tank 3 was selected as the "worse case" scenario of the three. All samples were analyzed for volatile organic compounds (VOCs), RCRA metals, flashpoint, and pH based upon disposal facility requirements.

3.1.2 FFTA

Three samples were collected from the soil at the FFTA (24B/D1, 24B/D2, 24B/D3). The pit was divided into three areas and one sample was collected from each area. The samples were analyzed for the disposal parameters including toxicity characteristic leaching procedure (TCLP) metals, TCLP VOCs, and TCLP semivolatile organic compounds (SVOC), polychlorinated biphenyls (PCBs), and total petroleum hydrocarbons (TPH). The sampling was performed so that the waste could be profiled prior to loading directly into transports upon completion of mobilization to the site.

3.2 UNDERGROUND STORAGE TANKS

Six USTs and two oil water separators (OWS) were excavated from Sites 19B east and west. Site drawings indicated that two 1,000 gallon and four 600 gallon USTs would be found (MK, 1996). However, excavation revealed two 2,500 gallon and four 1,000 gallon USTs.

3.2.1 Liquid Removal

Removal of the liquids from the USTs began on September 24, 1996. Approximately 6,000 gallons of oil contaminated liquid were pumped out of five of the six USTs at Sites 19B east and west. On October 14, 1996, an additional 3,000 gallons of liquid were pumped from the USTs as a result of the liquid from the lines draining into the USTs. The liquid was removed from the USTs using either a 3,000 gallon vacuum truck, a 5,000 gallon tanker truck, or a diaphragm pump, and was then transferred into a 21,000 gallon fractionation (frac) tank to await disposal. The sixth UST was sampled once the manway was accessible. Once the analytical results were received and it was determined to be the same liquid as the other USTs, the liquid was also pumped into the frac tank. A sample (FRCTC009) was also collected from the frac tank and analyzed for disposal parameters.

3.2.2 UST Removal

Topsoil above the USTs at Sites 19B east and west was stripped with a backhoe and stockpiled on a plastic lined and bermed concrete surface. A concrete slab, located immediately north of the USTs at Site 19B east, measured approximately 10 feet wide, 15 feet long, and 6-inches thick, was removed to prevent the slab from falling into the excavation. Above each UST existed a concrete vault which housed the ancillary piping. The concrete vault above each of the 1,000 gallon USTs was 48 inches wide, 68 inches long, 4 feet deep, with 6 inch walls. The concrete vault above the 2,500 gallon UST was 4 feet wide, 4 feet long, 5 feet deep, with 6 inch side walls. Much of the piping that drained from the wash racks had been previously disconnected; however, piping between the USTs had to be disconnected prior to removing the USTs.

The soil around the vaults was excavated to facilitate pipe removal. As the soil was removed, it was screened with an organic vapor analyzer (OVA) and segregated into two stockpile designations: greater than ten ppm and less than ten ppm. The soil was stockpiled on plastic and the perimeter of the stockpile bermed to prevent runoff. Once the piping between the USTs was removed, an excavator was used to dislodge the concrete vaults from the USTs. The concrete was stockpiled adjacent to the soil and protected in the same manner as the soil.

The USTs were situated from west to east, at Site 19B east and were 1,000 gallons, 1,000 gallons, and 2,500 gallons capacity respectively. The USTs at Site 19B west were situated in reverse order. Two steel bands, attached to a concrete saddle beneath the tank, held each tank in place. The bands were broken with an excavator, and a choker was wrapped around each UST. Dry ice was added to each UST to inert the gases before removing them from the excavations. The USTs were lifted from the excavation and transported to the decontamination facility. The concrete saddles were left in place at this time. Approximately 300 gallons of sludge were removed during cleaning of the UST's and stored in six 55-gallon Department of Transportation (DOT) approved steel drums for disposal.

3.2.3 Monitoring Well Abandonment

The depth of ground water at Site 19B east was measured at 18 feet below ground surface (bgs) in the two monitoring wells immediately east of the east tank at Site 19B east. The wells were abandoned, per ADEM regulations, by filling them with a bentonite/grout slurry prior to the start of excavation activities. As the casings were encountered during excavation, they were removed. Casings below the excavation level were left in place.

3.2.4 Oil Water Separators

An OWS, located adjacent to the outside 1,000 gallon tank, was present at both Sites 19B east and west. The soil around each OWS was excavated along with the tank soils. The OWS at Site 19B east had an internal capacity of 3,200 gallons, and the OWS at Site 19B west had an internal capacity of 1,500 gallons. The OWS at Site 19B west was completely removed from the excavation and stockpiled with the concrete. At Site 19B east, the soil inside the OWS was vacuumed out and stockpiled separately from the excavated soil. The OWS was pressure washed with a detergent solution, and the liquid was pumped to the frac tank for storage and disposal. A four inch storm sewer drain pipe entered at the south end of the OWS and a four inch steel pipe at the north end allowed the water to drain from the OWS to the storm sewer system. Six inch schedule 40 PVC pipe was run through the OWS and tied into the drain pipes at the north and south ends to reconnect the storm sewer line. Low density concrete fill was pumped into the OWS to serve as a base for the connection pipe. The top three feet of the OWS walls were then saw cut, and the remaining portion of the OWS was filled with off-site fill and compacted.

3.2.5 Excavation of Contaminated Soil

After the USTs were removed, soil samples were collected, for field screening, from the walls of each excavation. The field screening samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 418.1 at a local laboratory (See Section 4, Sampling, Analysis and Quality Control). The analytical data from the field screening samples indicated that all of the contaminated soil above the concrete saddles had been removed. Confirmation soil samples from under the concrete saddles and along the walls of the excavation were collected by ABB Environmental. ABB's analytical data revealed that additional contamination existed under the saddles in each excavation. The concrete saddles were removed from the excavation, scraped clean of all potentially contaminated soils, pressure washed, and stockpiled.

Headspace analysis was performed on samples from various locations within each excavation. Soil was removed from those areas having a headspace greater than ten ppm. Field screening samples were collected from each excavation once the headspace was less than ten ppm. Excavation activities were ceased in each area after the field screening samples indicated that the TPH levels were below 100 ppm, the cleanup criteria, or the ground water table was reached at 18 feet bgs. When ground water was encountered, excavation activities were refocused on removing contamination in the lateral direction. Confirmation samples were collected a second time by ABB Environmental to verify the field screen results. ABB's analytical data showed that the TPH levels in both Sites 19B east and west were below 100 ppm.

At both sites, it was determined that there had been releases of petroleum material. The ADEM Groundwater Branch was notified in both cases within 24 hours of the discovery/determination. Copies of written confirmation sent to ADEM are included in Appendix B, Approvals, Permits and Regulatory Information.

3.2.6 Decontamination

Once the USTs were removed from the excavations, they were taken to the decontamination pad where the sludge contents were removed. At the decontamination pad, the USTs were either cut in half or a large hole was placed in them with a target saw. A pressure washer with a detergent solution was used to remove residual product from the interior of each tank. The sludge was drummed and the rinse water pumped into the frac tank. The interior atmosphere of each USTs was checked to determine if the lower explosive limit (LEL) was less than 10%, the oxygen level ranged between 19.5%-23.5%, if the organic concentration was less than 10 ppm, and if the USTs were visually clean. If the interior atmosphere did not meet the above requirements, the decontamination process was repeated. Prior to being transported to a recycling facility, the USTs were labeled "Not for Reuse, 0% LEL, Used Oil."

Concrete removed from the UST excavations was also pressure washed before being shipped off-site as a construction debris or with the soil.

3.3 FIRE FIGHTING TRAINING AREA

Approximately two feet of soil was excavated above the liner, followed by removal of the liner at the FFTA. Four field screening samples were then collected from around the perimeter of the excavation, and one was collected from the center. The field screen TPH results indicated that the level of TPH below the liner was less than 100 ppm. Confirmation samples were collected by ABB Environmental to verify the field screen data. ABB's analytical data indicated that the TPH level in the center of the excavation was greater than 100 ppm. A ten foot square area, one foot deep, was excavated around the area in which the center confirmation sample had been collected. Five field screen samples were collected from the small excavation, one at each corner and one in the center. Again the field screen samples indicated that the clean-up criteria had been achieved. ABB Environmental collected a confirmation sample from the area

and verified that the TPH level in the center of the excavation was below 100 ppm.

3.4 RECONSTRUCTION AND RESTORATION

3.4.1 Backfill Placement

Placement of backfill was accomplished using the same procedure in all three of the work areas. Two types of fill material, excavated soil containing less than 100 ppm TPH and imported fill, were used. A standard proctor test per ASTM D698, was run on each backfill material to determine the optimum moisture content and maximum dry density. The off-site material had a maximum dry density of 114.7 lbs/ft3 and an optimum moisture content of 11.9%; the excavated soil had a maximum dry density of 110.8 lbs/ft3 and an optimum moisture of 11.6%. The off-site fill material was also analyzed for TPH and confirmed to contain less than 100 ppm TPH. The FFTA was backfilled exclusively with off-site fill, while Sites 19B east and west were backfilled with both the excavated soil and off-site fill; the excavated soil was placed at the bottom of the excavation. The fill was placed in two foot lifts and compacted with a dozer, smooth drum vibrating roller, or jumping jack. The fill was compacted to 85% of the maximum dry density in unimproved areas (24B FFTA), 90% in areas adjacent to structures or utilities, and 95% in areas where roads or structures were to be constructed. The density and moisture of each lift was verified using a nuclear density gauge (ASTM D2922 and ASTM D3017). Due to the steep sidewalls, the first four or five lifts of fill at Sites 19B east and west were not tested with a nuclear density gauge; however a performance specification was developed. A two foot lift was placed and compacted with the the dozer. Each pass over the same area was recorded. The lift was tested with the nuclear density gauge to determine the density and moisture content. All lifts placed in the excavation were tracked over the specified number of times required to reach the specified compaction before the next lift was placed. Eight lifts at Site 19B west, nine lifts at Site 19B east, and two lifts at Site 24B were required to bring the excavation to within six inches of grade.

3.4.2 Topsoil

Six inches of top soil was placed over the fill material to bring the excavations up to grade. The topsoil was tested for organic content, pH, and TPH. The topsoil itself did not meet the minimum organic content of 5% and was, therefore, tilled with peat moss at a ratio of 1.4 cubic yards (cy) of peat moss per 80 cy of topsoil. The topsoil was graded to a crown at a slope of 50:1 to prevent ponding. The area was seeded with a mixture of rye and Bahaia, fertilized, rolled, and covered with hay.

3.4.3 Concrete Replacement

Masonry work was required to replace the curbing and paving that was removed during excavation activities. Damaged concrete paving at Sites 19B east and west was saw cut and removed. A 4,000 pound per square inch (psi) mix was used for both the curb and pavement repair.

3.5 WASTE DISPOSAL

Six waste streams were identified during site activities: soils from Site 24B, soils from Sites 19B east and west, tank product and decon water, tank sludge, non-contaminated concrete, and the USTs for recycling. The FFTA and Sites 19B east and west soils, designated as non-hazardous special waste, were shipped to the BFI Timberlands Landfill in Escambia County, Alabama. The ADEM Waste Certifications are provided in Appendix B. Approximately 1,820 cy of soil was excavated from Sites 19B east and west, while 878 tons of potentially contaminated soil and concrete were loaded from stockpiled materials into dump trucks and transported for disposal as non-hazardous special waste. Nearly 293 tons of soil and liner from the FFTA were loaded directly into dump trucks and transported for disposal as non-hazardous special waste. The tank product and decon water were shipped to Industrial Water Services, Inc. (IWS) in

Mobile, Alabama as a used oil, and the six drums of tank sludge and personal protective equipment (PPE) from the USTs were sent to the Chemical Waste Management (CWM) Incinerator in Port Arthur, Texas, due to lead and benzene concentrations above Land Disposal Restriction levels. Approximately 100 cy of non-impacted concrete were disposed at an off-site construction debris landfill, and the USTs were disabled for recycling. See Appendix C, Waste Disposal Log, for the quantities of each waste stream, and its final disposition. Manifest copies are not included in this report but are available in the Generator's file at NAS Whiting Field.

4.0
SAMPLING, ANALYSIS AND QUALITY CONTROL

4.1 FIELD SCREENING SAMPLES

Field screening samples were collected by Kemron Construction to determine the extent of contamination at each excavation. Field screen samples were analyzed for Total Petroleum Hydrocarbons (TPH), by method 418.1. The Work Plan (MK, 1996) had outlined the use of field test kits, but use of an off-site, local laboratory was proposed by the subcontractor and accepted by MK. The field screening samples were analyzed by Envirochem, Inc. All field screening samples were collected, labeled, and packaged per the Work Plan (MK, 1996). "FS" was incorporated into the sample ID of each field screening samples to identify them. Table 4-1 identifies all samples collected. Sixty-one field screening samples were collected and analyzed. Four duplicate samples were sent to Envirochem to meet the 5% duplicate requirement specified in the Work Plan.

4.2 SOIL SAMPLES

Stockpiled soils from Sites 19B east and west were sampled for TPH to determine the potential for reuse. A sample was collected for every 40 yards of stockpiled material. The stockpiled soil samples were collected by removing the top 10 to 12 inches of soil from the surface and collecting grab samples from five to six different locations and compositing them in a stainless steel bowl. The soil was thoroughly mixed and then placed in the appropriate sample containers. A total of 53 composite soil samples were collected and verified with ten duplicate and six matrix spike samples. After TPH sample results had been received, several composite samples were collected from stockpiled soils with TPH greater than 100 ppm. These samples were for disposal analysis and were analyzed using EPA methods 418.1, 1311, 8080, 8240, 8270, 6010, 7471, reactivity, ignitability, and corrosivity. (See Appendix D, Chain of Custody Forms, Appendix E, Analytical Data, and Appendix F, Field Screening Data). Volatile samples were collected as grab samples.

4.3 LIQUID SAMPLES

The liquid within the USTs and decontamination water was sampled to determine disposal options. The sludge from the bottom of the USTs was also sampled. Liquid samples were analyzed for 6010, 7471, 9045, 8260, flashpoint, and pH. The sludge sample was analyzed for 1311 (TCLP), 8240, 6010, 7470, 8270, pH, flashpoint and paint filter test. The liquid from the frac tank was found to have a flashpoint in the 85 to 110 degree Fahrenheit range. The flashpoint was due to a thin layer of petroleum product on the top of the frac tank. The liquid was a non-hazardous waste, as the compounds detected were all petroleum related.

4.4 DATA QUALITY CONTROL

All soil and liquid samples collected from OLF Barin were transported using proper chain of custody procedures. Copies of the chain of custody documents are included in Appendix D of this report. Samples collected for OLF Barin were analyzed for TCLP volatile organic compounds, semi-volatiles, metals; total pesticides/PCBs; RCRA characteristics and/or TPH.

4.4.1 Field Quality Control

Field quality control samples, including trip blanks and field duplicates were collected during the work at OLF Barin to identify potential sources of error or cross contamination that occurred during collection,

storage, or shipment of samples to the laboratory and assist in evaluating precision and representativeness. Results for these samples are included in Table 4-2, and in Appendices E and F.

Trip blank sample results were evaluated to identify any cross-contamination that may have occurred during storage and shipping of the samples to the analytical laboratory. Trip blank samples were received in sealed containers from the laboratory and were not opened at the site. No target analytes were present in the trip blanks.

Samples OLFT123ES011D, OLFT123ES013D, OLFT123ES017D, OLFT456ES023D, OLFES054D, OLFES061D, OLF19BES098D, OLF19BES100D, OLF19BES115D, and OLF19BES117D were identified as field duplicates collected during sampling. Precision objectives for field duplicate samples were established in the QAPP (25%), and data was evaluated to determine potential variability introduced by soil heterogeneity and sampling technique. The TCLP metals results for samples OLFT123ES013 and OLFT123ES013D showed low concentrations of lead and mercury significantly below toxicity levels, and precision is considered acceptable based upon the concentrations and data quality objectives. The precision between these two samples was acceptable for all other analyses. Field duplicate precision was less than 25% for all other field duplicate samples, which were analyzed for TPH only. The results were acceptable for intended data quality objectives.

4.4.2 Laboratory Quality Control

Laboratory analytical data was evaluated by the assessment of precision, accuracy, representativeness, comparability and completeness.

Precision is a measure of the reproducibility of measurements under a given set of conditions. Laboratory duplicates, matrix spikes and matrix spike duplicates were used to determine the precision of the analytical process.

Accuracy is a measure of the bias in a measurement system, and defined as the closeness of the reported value to the true value. The accuracy of a measurement system was assessed by evaluating the results of quality control samples (such as matrix spikes, analytical surrogates) and laboratory control samples.

Representativeness in the laboratory is ensured by using the proper analytical procedures, meeting sample holding times, and analyzing and assessing field duplicated samples. Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. Analytical data are considered to be comparable when similar sampling and analytical methods are used and documented per the QAPP. Laboratory completeness is a measure of the amount of valid measurements obtained from all measurements taken in the project.

The laboratory performed method blank, sample matrix spike, matrix spike duplicate, sample duplicate, surrogate, and standard matrix spike analyses in order to evaluate laboratory accuracy and precision. MK reviewed the laboratory data received to determine whether data quality objectives were met for the sampling and analytical programs through the assessment of precision, accuracy, representativeness, comparability and completeness.

Method blanks were free of target compounds above the reporting limits. The method blank analyzed with sample OLFES066 estimated the presence of chloroform at 1.2 ug/L. Sample OLFES066 had chloroform estimated at 12 ug/L, after a dilution of 1:10; the sample result has been flagged appropriately. Sample surrogate recoveries fell within acceptable ranges to meet the project data quality objectives.

The sample matrix spikes and matrix spike duplicates (MS/MSD) had acceptable accuracy and precision, with the following exceptions: recoveries for arsenic, barium, cadmium, chromium, lead, selenium, and

silver were high for one or more batches. These analytes recovered well in the post-digest spike, and the corresponding laboratory standard spike recoveries were acceptable. Metals results are considered acceptable as flagged for the intended objectives. TPH exhibited a high recovery in the MS corresponding with samples OLF19BES097 through OLF19BES111. The corresponding MSD recovery was within acceptable limits, and the corresponding laboratory standard spike accuracy was acceptable for this analyte.

All laboratory standard spikes had acceptable recoveries for the spiked compounds except one volatile control spike which had high recoveries for 1,2,3-trichlorobenzene and naphthalene. Corresponding quality control lot samples did not show the presence of 1,2,3-trichlorobenzene and naphthalene, and results are acceptable as reported.

Data quality objectives for accuracy, precision, comparability and completeness were outlined in the QAPP. Overall, the data quality objectives for this project have been met and data is determined to be acceptable as flagged.

TABLE 4-1
SAMPLE LOG

SAMPLE ID	DATE	TIME	DESCRIPTION	ANALYSES	RESULTS	LAB/TYPE
1	9/12/96	1505	19BW TANK 2 (E. TANK)	8020/8060/RCRA METALS/PH/FLASH POINT	*	CORE/DISPOSAL
2	9/12/96	1515	19BW TANK 1 (CENTER TANK)	8020/8060/RCRA METALS/PH/FLASH POINT	*	CORE/DISPOSAL
3	9/12/96	1545	19BE TANK 3 (W. TANK)	8020/8060/RCRA METALS/PH/FLASH POINT	*	CORE/DISPOSAL
4	9/12/96	1610	24B FFTA	TCLPMETALS/VOA/SVOC/PCB/418.1	*	CORE/DISPOSAL
5	9/12/96	1613	24B FFTA	TCLPMETALS/VOA/SVOC/PCB/418.1	*	CORE/DISPOSAL
6	9/12/96	1618	24B FFTA	TCLPMETALS/VOA/SVOC/PCB/418.1	*	CORE/DISPOSAL
7	9/12/96		TRIP BLANK	TCLP VOCS	ND *	CORE/DISPOSAL
OLFTW3TC008	10/1/96	0940	19BW TANK 3 (WEST TANK)	FP/PH/TCLP/8260/RCRA METALS	*	CORE/DISPOSAL
OLFFRCTC009	10/1/96	1430	FRAC TANK (19B E/W TANK CONTENTS)	FP/PH/TCLP/8260/RCRA METALS	*	
TB10016	10/1/96		TRIP BLANK	8240	ND *	
OLFT123ES010	10/4/96	1435	19BE EX. SOIL STKPL #3 20YDS <10PPM	418.1	98 PPM *	CORE/STOCKPILE
OLFT123ES011/011D	10/4/96	1440	19BE EX. SOIL STKPL #3 20YDS <10PPM	418.1	52 PPM/44PPM *	CORE/STOCKPILE
OLFT123ES012	10/4/96	1450	19BE EX. SOIL STKPL #3 20YDS <10PPM	418.1	72 PPM *	CORE/STOCKPILE
OLFT123ES013/013D	10/4/96	1505	19BE EX. SOIL STKPL #3/4 TCLP COMP <10PPM	418.1/TCLP/8240/8080/6010/7471/8270/REACTIVITY/IGNITABILITY/CORROSIVITY	30 PPM/30 PPM TPH *	CORE/DISPOSAL
OLFT123ES014	10/4/96	1540	19BE EX. SOIL STKPL #4 20YDS <10PPM	418.1	27 PPM *	CORE/STOCKPILE
OLFT123ES015	10/4/96	1550	19BE EX. SOIL STKPL #4 20 YDS <10 PPM	418.1	35 PPM *	CORE/STOCKPILE
OLFT123ES016	10/4/96	1555	19BE EX. SOIL STKPL #4 20 YDS <10PPM	418.1	30 PPM *	CORE/STOCKPILE
OLFT123ES017/017D	10/4/96	1600	19BE EX. SOIL STKPL #4 20 YDS <10PPM	418.1	34 PPM/36PPM *	CORE/STOCKPILE
OLFT1FS018	10/9/96	0905	19BE EX. FS W. SIDE WALL TOP OF SLAB	418.1	<10 PPM *	ENV/SCREENING
OLFT1FS019	10/9/96	0912	19BE EX. FS BELOW W. SLAB 12'BGS	418.1	44 PPM *	ENV/SCREENING
OLFT2FS020	10/11/96	0942	19BE EX. FS BELOW E. SLAB 13'BGS	418.1	12160 PPM *	ENV/SCREENING
OLFT3FS021	10/11/96	0946	19BE EX. FS BELOW E. SLAB 15'BGS	418.1	8425 PPM *	ENV/SCREENING
OLFT3FS022	10/11/96	0950	19BE EX. FS BELOW E. SLAB 18'BGS	418.1	4350 PPM *	ENV/SCREENING
OLFT456ES023/023D	10/15/96	1531	19BW EX. SOIL STKPL #3 40 YDS <10PPM	418.1	24 PPM/31 PPM *	CORE/STOCKPILE
OLFT456ES024	10/15/96	1541	19BW EX. SOIL STKPL #3 40 YDS <10PPM	418.1	33 PPM *	CORE/SCREENING
OLFT123ES025	10/15/96	1546	19BW EX. SOIL STKPL #3 40 YDS <10PPM	418.1	19 PPM *	CORE/STOCKPILE
OLFT456ES026	10/15/96	1550	19BW EX. SOIL STKPL #3 40 YDS <10PPM	418.1	26 PPM *	CORE/STOCKPILE
OLFT456ES027/27MS	10/15/96	1556	19BW EX. SOIL STKPL #3 40 YDS MS <10PPM	418.1	25 PPM/14 PPM *	CORE/STOCKPILE
OLFT456ES028	10/16/96	0800	19BW EX. SOIL STKPL #3 40YDS <10PPM	418.1	25 PPM *	CORE/STOCKPILE
OLFT456ES029	10/16/96	0810	19BW EX. SOIL STKPL #1 40YDS <10PPM	418.1	26 PPM *	CORE/STOCKPILE
OLF24BFS030/30D	10/17/96	1217	47'7" SE 69'3" SW FFTA BELOW LINER FS	418.1	15PPM/15PPM*	ENV/SCREENING
OLF24BFS031	10/17/96	1224	50' SE 44'6"NE FFTA SOIL BELOW LINER FS	418.1	15 PPM*	ENV/SCREENING

TABLE 4-1
SAMPLE LOG

SAMPLE ID	DATE	TIME	DESCRIPTION	ANALYSES	RESULTS	LAB/TYPE
OLF24BFS032	10/17/96	1227	58'5''NE 66'SW FFTA SOIL BELOW LINER FS	418.1	11 PPM*	ENV/SCREENING
OLF24BFS033	10/17/96	1231	51'7''SE 62'5''NE FFTA SOIL BELOW LINER FS	418.1	13 PPM *	ENV/SCREENING
OLF24BFS034	10/17/96	1234	57'NE 29'6''SE FFTA SOIL BELOW LINER FS	418.1	11 PPM *	ENV/SCREENING
OLF19BWFS035	10/17/96	1340	19BW EX. E. WALL 8'BGS FS	418.1	<10 PPM *	ENV/SCREENING
OLF19BWFS036	10/17/96	1345	19BW EX. UNDER OWS 11'4''BGS FS	418.1	<10 PPM *	ENV/SCREENING
OLF19BWFS037	10/17/96	1400	19BW EX. S. WALL 7'11''BGS 49.3'CURB 33.0'POLE FS	418.1	120 PPM *	ENV/SCREENING
OLF19BWFS038	10/17/96	1355	19BW EX. UNDER E. TANK 47.6'CURB 30.6'POLE 11.2'BGS FS	418.1	11 PPM*	ENV/SCREENING
OLF19BWFS039	10/17/96	1407	19BW EX. UNDER CENTER TANK 54.5'CURB 25.4'POLE 10'5''BGS FS	418.1	1300 PPM*	ENV/SCREENING
OLF19BWFS040/40D	10/17/96	1415	19BW EX. UNDER W. TANK 58.9'CURB 22.4'POLE 11'3''BGS FS	418.1	6400 PPM/5600 PPM *	ENV/SCREENING
OLF19BWFS041	10/17/96	1425	19BW EX. W. WALL 71.7'CURB 21.1'POLE 8'3''BGS FS	418.1	<10 PPM*	ENV/SCREENING
OLF19BWFS042	10/17/96	1350	19BW EX. N. WALL 45.7'CURB 22.8'POLE 7'4''BGS FS	418.1	<10 PPM*	ENV/SCREENING
OLFOSBP043	10/18/96	0940	OFFSITE BORROW SOURCE	418.1	<10 PPM *	ENV/SCREENING
OLF19BWFS044	10/22/96	1415	19BW EX. S. WALL W. END 42'6''FENCE LEFT SIDE FS	418.1	1200 PPM *	ENV/SCREENING
OLF19BWFS045	10/22/96	1420	19BW EX. S. WALL W. END 42'6'' FENCE RIGHT SIDE FS	418.1	1000 PPM *	ENV/SCREENING
OLF19BWFS046	10/22/96	1425	19BW EX. 15'BGS W. WALL FS	418.1	<10 PPM *	ENV/SCREENING
OLF19BWFS047	10/22/96	1430	19BW EX. 17'BGS BETWEEN W./CENTER TANK FS	418.1	3200 PPM *	ENV/SCREENING
OLF19BWFS048	10/22/96	1433	19BW EX. W. FACE OF STEP DOWN FS	418.1	19 PPM *	ENV/SCREENING
OLF19BWFS049/49D	10/22/96	1436	19BW EX. N. WALL 38'E FENCE FS	418.1	8000 PPM/ 3500 PPM *	ENV/SCREENING
OLF19BWFS050	10/22/96	1440	19BW EX. 55'E. FENCE UNDER E. TANK FS	418.1	<10 PPM *	ENV/SCREENING
OLF19BWFS051	10/22/96	1445	19BW EX. S. WALL BETWEEN E. TANK/OWS 60'E FENCE FS	418.1	54 PPM *	ENV/SCREENING
OLF19BWFS052	10/22/96	1450	19BW EX. N. WALL BETWEEN E. TANK/OWS 60'E FENCE FS	418.1	<10 PPM *	ENV/SCREENING
OLF19BWFS053/53D	10/22/96	1455	19BW EX. E. WALL 60'E FENCE FS	418.1	<10 PPM/<10 PPM *	ENV/SCREENING
OLFES054/54D	10/23/96	1445	19BE EX. SOIL STKPL#2 40YDS >10 PPM	418.1	180 PPM/170 PPM *	CORE/STOCKPILE
OLFES055	10/23/96	1455	19BE EX. SOIL STKPL#2 40YDS >10 PPM	418.1	3700 PPM *	CORE/STOCKPILE
OLFES056/56MS	10/23/96	1500	19BW EX. SOIL STKPL#2 40 YDS >10PPM	418.1	230 PPM/460 PPM*	CORE/STOCKPILE
OLFES057	10/23/96	1510	19BW EX. SOIL STKPL#2 40YDS >10PPM	418.1	2400 PPM *	CORE/STOCKPILE
OLFES058	10/23/96	1538	19BW EX. SOIL STKPL#1 40YDS <10 PPM	418.1	150 PPM *	CORE/STOCKPILE
OLFES059	10/23/96	1540	19BW EX. SOIL STKPL#1 40YDS <10PPM	418.1	130 PPM *	CORE/STOCKPILE
OLFES060	10/23/96	1543	19BW EX. SOIL STKPL#1 40 YDS <10PPM	418.1	54 PPM *	CORE/STOCKPILE
OLFES061/61D	10/23/96	1545	19BW EX. SOIL STKPL#1 40 YDS <10 PPM	418.1	33 PPM/36 PPM *	CORE/STOCKPILE
OLFES062	10/23/96	1548	19BW EX. SOIL STKPL#1 40 YDS <10 PPM	418.1	30 PPM*	CORE/STOCKPILE

TABLE 4-1
SAMPLE LOG

SAMPLE ID	DATE	TIME	DESCRIPTION	ANALYSES	RESULTS	LAB/TYPE
OLFES063	10/23/96	1550	19BW EX. SOIL STKPL#1 40 YDS <10 PPM	418.1	39 PPM*	CORE/STOCKPILE
OLFES064/64MS	10/23/96	1553	19BW EX. SOIL AROUND EX. W. END 40 YDS <10 PPM	418.1	24 PPM/220 PPM*	CORE/STOCKPILE
OLFES065	10/23/96	1555	19BW EX SOIL AROUND EX. E. END 40 YDS <10 PPM	418.1	26 PPM*	CORE/STOCKPILE
OLFES066	10/24/96	0845	19B EX. SOIL >10PPM STKPLS#2/5 COMP	418.1/1311/8240/8080/6010/8270/IGNITABILITY/REACTIVITY/CORROSIVITY	830 PPM TPH *	CORE/STOCKPILE
OLF19BWFS067	10/24/96	0850	19BW EX. S. WALL BETWEEN W./CENTER TANK 17'BGS FS	418.1	<10 PPM *	ENV/SCREENING
OLF19BWFS068	10/24/96	0835	19BW EX. N.WALL BETWEEN W./CENTER TANK 17'BGS FS	418.1	220 PPM *	ENV/SCREENING
OLF19BEFS069	10/24/96	1120	19BE EX. S. WALL EAST TANK 17'BGS FS	418.1	381 PPM *	ENV/SCREENING
OLF19BEFS070	10/24/96	1440	19BE EX. N.WALL EAST TANK 17'BGS FS	418.1	<10 PPM *	ENV/SCREENING
OLF19BWFS071	10/25/96	1325	19BW EX. N. WALL BETWEEN W./CENTER TANK 17'BGS FS	418.1	240 PPM*	ENV/SCREENING
OLF19BEFS072	10/25/96	1330	19BE EX. E. WALL 17'BGS FS	418.1	420 PPM *	ENV/SCREENING
OLF19BEFS073	10/25/96	1355	19BE EX. N. WALL 17' BGS FS	418.1	<10 PPM *	ENV/SCREENING
OLF19BEFS074	10/28/96	1525	19BE EX. E. WALL	418.1	<10 PPM*	ENV/SCREENING
OLF19BEFS075	10/28/96	1530	19BE EX. N.E. WALL	418.1	<10 PPM*	ENV/SCREENING
OLF19BEFS076	10/28/96	1520	19BE EX. N. WALL	418.1	<10 PPM*	ENV/SCREENING
OLF19BE077	10/29/96	1320	19BE EX. E. WALL N. END FS	418.1	70 PPM *	ENV/SCREENING
OLF19BE078	10/29/96	1340	19BE EX. E. WALL CENTER FS	418.1	<10 PPM*	ENV/SCREENING
OLF19BE079	10/29/96	1315	19BE EX. E. WALL S. END FS	418.1	<10 PPM*	ENV/SCREENING
OLF19BE080	10/29/96	1548	19BE. EX. W. WALL N. END	418.1	<10 PPM*	ENV/SCREENING
OLF24BFS081	10/30/96	1600	FFTA NE CORNER OF CENTER -1' FS	418.1	<10 PPM *	ENV/SCREENING
OLF19BEFS082	10/30/96	1100	19BE OWS NE CORNER FS	418.1	92 PPM *	ENV/SCREENING
OLF19BEFS083	10/30/96	1015	19BE OWS E WALL CENTER BELOW OWS FS	418.1	88 PPM *	ENV/SCREENING
OLF19BEFS084	10/30/96	1010	19BE OWS E WALL S END BELOW OWS FS	418.1	<10 PPM *	ENV/SCREENING
OLF19BEFS085	10/30/96	1425	19BE EX. SW CORNER FS	418.1	<10 PPM *	ENV/SCREENING
OLF19BEFS086	10/30/96	1415	19BE EX. S WALL FS	418.1	<10 PPM *	ENV/SCREENING
OLF24BFS087	10/30/96	1605	FFTA NW CORNER OF CENTER -1' FS	418.1	<10 PPM *	ENV/SCREENING
OLF24BFS088	10/30/96	1610	FFTA CENTER OF CENTER -1' FS	418.1	<10 PPM *	ENV/SCREENING
OLF24BFS089	10/30/96	1613	FFTA SW CORNER OF CENTER -1' FS	418.1	<10 PPM *	ENV/SCREENING
OLF24BFS090	10/30/96	1617	FFTA SE CORNER OF CENTER -1' FS	418.1	<10 PPM *	ENV/SCREENING
OLF19BWFS091	10/31/96	1100	19BW EX. NW CORNER FS	418.1	21 PPM *	ENV/SCREENING
OLF19BWFS092	10/31/96	1055	19BW EX. NW CORNER FS	418.1	<10 PPM *	ENV/SCREENING
OLF19BWFS093	10/31/96	1050	19BW EX. NW CORNER FS	418.1	3200 PPM *	ENV/SCREENING
OLF19BWFS094	11/1/96	1200	19BW EX. SW CORNER FS	418.1	<10 PPM *	ENV/SCREENING
OLF19BWFS095	11/1/96	1205	19BW EX. SW CORNER FS	418.1	<10 PPM *	ENV/SCREENING
OLF19BWFS096	11/1/96	1250	19BW EX. NW CORNER FS	418.1	<10 PPM *	ENV/SCREENING

TABLE 4-1
SAMPLE LOG

SAMPLE ID	DATE	TIME	DESCRIPTION	ANALYSES	RESULTS	LAB/TYPE
OLF19BEFS097	11/1/96	1000	19BE OWS N END UNDER OWS FS	418.1	<10 PPM *	ENV/SCREENING
OLF19BES097	11/4/96	0930	19B EX. SOIL STKPL#5 40CY	418.1	2300*	CORE/STOCKPILE
OLF19BES098/98D	11/4/96	0945	19B EX. SOIL STKPL#5 40CY	418.1	780/760*	CORE/STOCKPILE
OLF19BES099	11/4/96	0955	19B EX. SOIL STKPL#5 40 CY	418.1	370*	CORE/STOCKPILE
OLF19BES100/100D	11/4/96	1005	19B EX. SOIL STKPL#5 40CY	418.1	79/87*	CORE/STOCKPILE
OLF19BES101	11/4/96	1010	19B EX. SOIL STKPL#5 40 CY	418.1	1200*	CORE/STOCKPILE
OLF19BES102	11/4/96	1055	19B EX. SOIL STKPL#6 40CY	418.1	620*	CORE/STOCKPILE
OLF19BES103	11/4/96	1105	19B EX. SOIL STKPL#6 40CY	418.1	350*	CORE/STOCKPILE
OLF19BES104/104MS	11/4/96	1110	19B EX. SOIL STKPL#6 40 CY	418.1	370/770*	CORE/STOCKPILE
OLF19BES105	11/4/96	1115	19B EX. SOIL STKPL#6 40CY	418.1	30*	CORE/STOCKPILE
OLF19BES106	11/4/96	1125	19B EX. SOIL STKPL#6 40CY	418.1	150*	CORE/STOCKPILE
OLF19BES107	11/4/96	1305	19B EX. SOIL STKPL#6 40 CY	418.1	110*	CORE/STOCKPILE
OLF19BES108/108MS	11/4/96	1310	19B EX. SOIL STKPL#6 40CY	418.1	170/410*	CORE/STOCKPILE
OLF19BES109	11/4/96	1335	19B EX. SOIL STKPL#7 40CY	418.1	36*	CORE/STOCKPILE
OLF19BES110	11/4/96	1340	19B EX. SOIL STKPL#7 40 CY	418.1	29*	CORE/STOCKPILE
OLF19BES111	11/4/96	1350	19B EX. SOIL STKPL#7 40 CY	418.1	19*	CORE/STOCKPILE
OLF19BEEES112/112 MS	11/5/96	1345	19BE. EX SOIL NW STKPL	418.1	<11/240	CORE/STOCKPILE
OLF19BEES113	11/5/96	1355	19BE EX SOIL NW STKPL	418.1	110	CORE/STOCKPILE
OLF19BEES114	11/5/96	1400	19BE EX SOIL NW STKPL	418.1	37	CORE/STOCKPILE
OLF19BEES115/115D	11/5/96	1405	19BE EX SOIL NW STKPL	418.1	11/13	CORE/STOCKPILE
OLF19BEES116	11/5/96	1420	19BE EX SOIL SW STKPL	418.1	<11	CORE/STOCKPILE
OLF19BEES117/117D	11/5/96	1425	19BE EX SOIL SW STKPL	418.1	11/14	CORE/STOCKPILE
OLF19BEES118	11/5/96	1435	19BE EX SOIL SW STKPL	418.1	16	CORE/STOCKPILE
OLF19BTKS119	11/6/96	0730	TANK SLUDGE	418.11311/8240/6010/7470/8270/9045/1010/9095	*	CORE/DISPOSAL
OLF19BEFS119	11/11/96	1420	19BE W WALL FS	418.1	<10 PPM*	ENV\SCREENING

NOTE:
E.-EAST
W.-WEST
N.-NORTH
S.-SOUTH
FS-FIELD SCREEN
EX.-EXCAVATION
BGS-BELOW GROUND SURFACE
*-FINAL DATA

TABLE 4-2
SAMPLE RESULTS
SUMMARY

SiteID	SampleDate		TPH mg/Kg	Arsenic mg/L		Barium mg/L		Cadmium mg/L		Chromium mg/L		Lead mg/L		Selenium mg/L		Silver mg/L		Mercury mg/L		2-Methylphenol ug/L		3 & 4 Methylphenol ug/L		Benzene ug/L		Chloroform ug/L	
OLF/24B/D1	9/12/96	SOIL	**9600**	ND		0.477	B	ND		0.009	B	ND		ND		ND		ND		N/A		N/A		N/A		N/A	
OLF/24B/D2	9/12/96	SOIL	**4200**	ND		0.252	B	ND		0.008	B	ND		ND		ND		ND		N/A		N/A		N/A		N/A	
OLF/24B/D3	9/12/96	SOIL	**420**	ND		0.180	B	ND		0.009	B	ND		ND		ND		ND		N/A		N/A		N/A		N/A	
TRIPBLANK	9/12/96	TRIP BLANK	N/A	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		ND		ND	
OLF/T123ES010	10/4/96	SOIL	98	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/T123ES011	10/4/96	SOIL	52	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/T123ES011D	10/4/96	SOIL	44	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/T123ES012	10/4/96	SOIL	72	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/T123ES013	10/4/96	SOIL	30	ND		0.110	B	0.0032	B	ND		0.016	B	ND		ND		0.002	B	ND		ND		ND		ND	
OLF/T123ES013D	10/4/96	SOIL	30	ND		0.177	B	0.0073	B	ND		0.051		0.012	B	0.003	B	0.006		ND		ND		ND		ND	
OLF/T123ES014	10/4/96	SOIL	27	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/T123ES015	10/4/96	SOIL	35	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/T123ES016	10/4/96	SOIL	30	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/T123ES017	10/4/96	SOIL	34	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/T123ES017D	10/4/96	SOIL	36	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
TB10046	10/4/96	TRIP BLANK	N/A	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		ND		ND	
OLF/T456ES023	10/15/96	SOIL	24	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/T456ES023D	10/15/96	SOIL	31	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/T456ES024	10/15/96	SOIL	33	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/T456ES025	10/15/96	SOIL	19	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/T456ES026	10/15/96	SOIL	26	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/T456ES027	10/15/96	SOIL	25	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/T456ES028	10/16/96	SOIL	25	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/T456ES029	10/16/96	SOIL	26	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/ES-054	10/23/96	SOIL	180	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/ES-054DUP	10/23/96	SOIL	170	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/ES-055	10/23/96	SOIL	**3700**	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/ES-056	10/23/96	SOIL	**230**	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/ES-057	10/23/96	SOIL	**2400**	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/ES-058	10/23/96	SOIL	**150**	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/ES-059	10/23/96	SOIL	**130**	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/ES-060	10/23/96	SOIL	54	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/ES-061	10/23/96	SOIL	33	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/ES-061DUP	10/23/96	SOIL	36	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/ES-062	10/23/96	SOIL	30	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/ES-063	10/23/96	SOIL	39	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/ES-064	10/23/96	SOIL	24	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/ES-065	10/23/96	SOIL	26	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/ES-066	10/24/96	SOIL	**830**	0.009	B	0.114	BEY	0.0013	BY	ND		0.037	BY	ND		0.004	BY	0.001	BY	ND		ND		ND		12	JB
TB102496	10/24/96	TRIP BLANK	N/A	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		ND		ND	
OLF/19BES097	11/4/96	SOIL	**2300**	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/19BES098	11/4/96	SOIL	**780**	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	

TABLE 4-2
SAMPLE RESULTS
SUMMARY

SiteID	SampleDate		TPH	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury	2-Methylphenol	3 & 4 Methylphenol	Benzene	Chloroform
			mg/Kg	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L
OLF/19BES098D	11/4/96	SOIL	**760**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES099	11/4/96	SOIL	**370**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES100	11/4/96	SOIL	79	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES100D	11/4/96	SOIL	87	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES101	11/4/96	SOIL	**1200**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES102	11/4/96	SOIL	**620**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES103	11/4/96	SOIL	**350**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES104	11/4/96	SOIL	**370**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES105	11/4/96	SOIL	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES106	11/4/96	SOIL	**150**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES107	11/4/96	SOIL	**110**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES108	11/4/96	SOIL	**170**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES109	11/4/96	SOIL	36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES110	11/4/96	SOIL	29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES111	11/4/96	SOIL	19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES112	11/5/96	SOIL	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES113	11/5/96	SOIL	**110**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES114	11/5/96	SOIL	37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES115	11/5/96	SOIL	11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES115D	11/5/96	SOIL	13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES116	11/5/96	SOIL	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES117	11/5/96	SOIL	11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES117D	11/5/96	SOIL	14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/19BES118	11/5/96	SOIL	16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OLF/TKS119	11/6/96	SOIL	N/A	ND	0.428 B*	13.6	0.015	1100	ND	0.004 B	ND	400	300	1400	ND

Notes:
1. Outlined **BOLD**, underlined results indicate a sample level above the Interim Measures Cleanup Level.
2. Flagcode explanations:
   - J: Estimated concentration below reporting limit.
   - B: (for Organic Analytes): Analyte also found in corresponding Blank sample(s).
   - Y: (for Organic Analytes): Spike recovery for analyte outside laboratory criteria.
   - *: (for metals): indicates laboratory duplicate analysis not within control limits.
   - B: (for metals): indicates a concentration below reporting limit.
   - E: (for metals): indicates an estimated value because of the presence of an interference.
3. N/A: indicates Not Analyzed.
4. ND indicates analyte not detected.
5. All sample results not shown in this table are non-detects.
6. Analytes reported here, other than TPH, were prepared by TCLP.

TABLE 4-2
SAMPLE RESULTS
SUMMARY

			Corrosivity	Ignitability	Arsenic		Barium		Cadmium		Chromium		Lead		Selenium		Silver		Mercury	
SiteID	SampleDate		pH units	Pos/Neg	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
OLF/19E/T3	9/12/96	LIQUID	N/A	N/A	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/19W/T1	9/12/96	LIQUID	8.3	ND	ND		0.0075	BE	ND		ND		0.12		ND		0.003	B	ND	
OLF/19W/T2	9/12/96	LIQUID	8.1	ND	ND		0.0195	E	0.032		ND		1.08		ND		ND		0.0004	B
TRIPBLANK	9/12/96	TRIP BLANK	N/A	N/A	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/FRCTC009	10/1/96	FRAC TANK	5.6	87	ND		0.0638		0.233		0.013		5.32		ND		ND		0.0002	B
OLF/FRCTC009	10/1/96	(AQUEOUS PHASE)	N/A	106	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OLF/TW3TC008	10/1/96	LIQUID	5.7	ND	0.007	B	0.185		1.81		ND		9.26		ND		ND		ND	
TB10016	10/1/96	TRIP BLANK	N/A	N/A	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	

			Benzene		n-Butylbenzene		cis-1,2-Dichloroethene		Tetrachloroethene		Trichloroethene		Trichlorofluoromethane		Ethylbenzene		Isopropylbenzene		p-Isopropyltoluene	
SiteID	SampleDate		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
OLF/19E/T3	9/12/96	LIQUID	1000												210		15			
OLF/19W/T1	9/12/96	LIQUID	36		6.4		ND		ND		ND		ND		30		8.7		13	
OLF/19W/T2	9/12/96	LIQUID	210				ND		ND		ND		ND		120		20		14	
OLF/FRCTC009	10/1/96	FRAC TANK	730	Y	ND		ND		ND		ND		150		86		6.4		5.9	
OLF/FRCTC009	10/1/96	(AQUEOUS PHASE)	N/A		ND		ND		ND		ND		N/A		N/A		N/A		N/A	
OLF/TW3TC008	10/1/96	LIQUID	3200	Y	5.5		16		11		15	Y	ND		590		28		10	
TB10016	10/1/96	TRIP BLANK	ND		ND		ND		ND		ND		ND		ND		ND		ND	

			Methylene Chloride		Naphthalene		n-Propylbenzene		Toluene		1,2,4-Trimethylbenz		1,3,5-Trimethylbenzene		Xylenes (total)					
SiteID	SampleDate		ug/l		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L					
OLF/19E/T3	9/12/96	LIQUID			470		14		2200	Y	150		60		840					
OLF/19W/T1	9/12/96	LIQUID			900		12		170	Y	300		110		540					
OLF/19W/T2	9/12/96	LIQUID			720		28		550	Y	390		150		970					
OLF/FRCTC009	10/1/96	FRAC TANK	55		3800		8.2		1500		54		N/A		450					
OLF/FRCTC009	10/1/96	(AQUEOUS PHASE)	N/A		N/A		N/A		N/A		N/A		N/A		N/A					
OLF/TW3TC008	10/1/96	LIQUID	25		240		37		15000		350		140		2200					
TB10016	10/1/96	TRIP BLANK	ND		ND		ND		ND		ND		ND		ND					

Notes:

1. Outlined **BOLD** results indicate a sample level above the Interim Measures Cleanup Level.
2. Flagcode explanations:
   - J: Estimated concentration below reporting limit
   - B: (for Organic Analytes): Analyte also found in corresponding Blank sample(s)
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3. N/A: indicates Not Analyzed
4. ND indicates analyte not detected.
5. All sample results not shown in this table are non-detects.

5.0
SUMMARY AND CONCLUSION

All activities were performed in accordance with ADEM regulations and the MK Work Plan except as noted in previous sections. Field screening samples were utilized to aid in delineation of the excavation limits. Confirmation samples were collected, by ABB Environmental, to confirm that soils left in place met closure criteria prior to backfill and site restoration. Laboratory data confirmed that clean closure was achieved at Sites 19B east and west and Site 24B. All construction material and contaminated soil encountered was transported off-site for recycling or appropriate disposal. All excavations have been brought up to grade, and the sites restored with native grasses.

All requirements of the removal action under this Delivery Order and Statement of Work have been met.

6.0
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MK, 1996, *Work Plan, Outlying Landing Field Barin, Foley, Alabama,* Morrison Knudsen Corporation, June 1996.

APPENDIX A
PROJECT PHOTOGRAPHS

APPENDIX A
PHOTO LOG

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Roll-D Frame 36 September 24, 1996
Well Abandonment at 19B East

Roll-D Frame 37 September 24, 1996
Well Abandonment Pump Operation

Roll - 1823 Frame 4 September 25, 1996
Soil Screening Prior to Stockpiling

Roll - 1823 Frame 5 September 25, 1996
Soil Removal Around USTs at 19 B East

Roll - 1823 Frame 6 September 26, 1996
Soil Stockpile

Roll - 1823 Frame 8 September 30, 1996
Liquid Removed from Tanks at 19 B West

Roll - 1823 Frame 9 September 30, 1996
Soil Excavation at 19 B West

Roll - 1823 Frame 10 September 30, 1996
West Tank Vault at 19 B West

Roll - 1823 Frame 14 October 2, 1996
Piping Arrangement Between West and Center Tank at 19 B East

Roll - 1823 Frame 15 October 3, 1996
Concrete Vaults Removed From 19 B East

Roll - 1823 Frame 18 October 3, 1996
West Tank From 19 B East

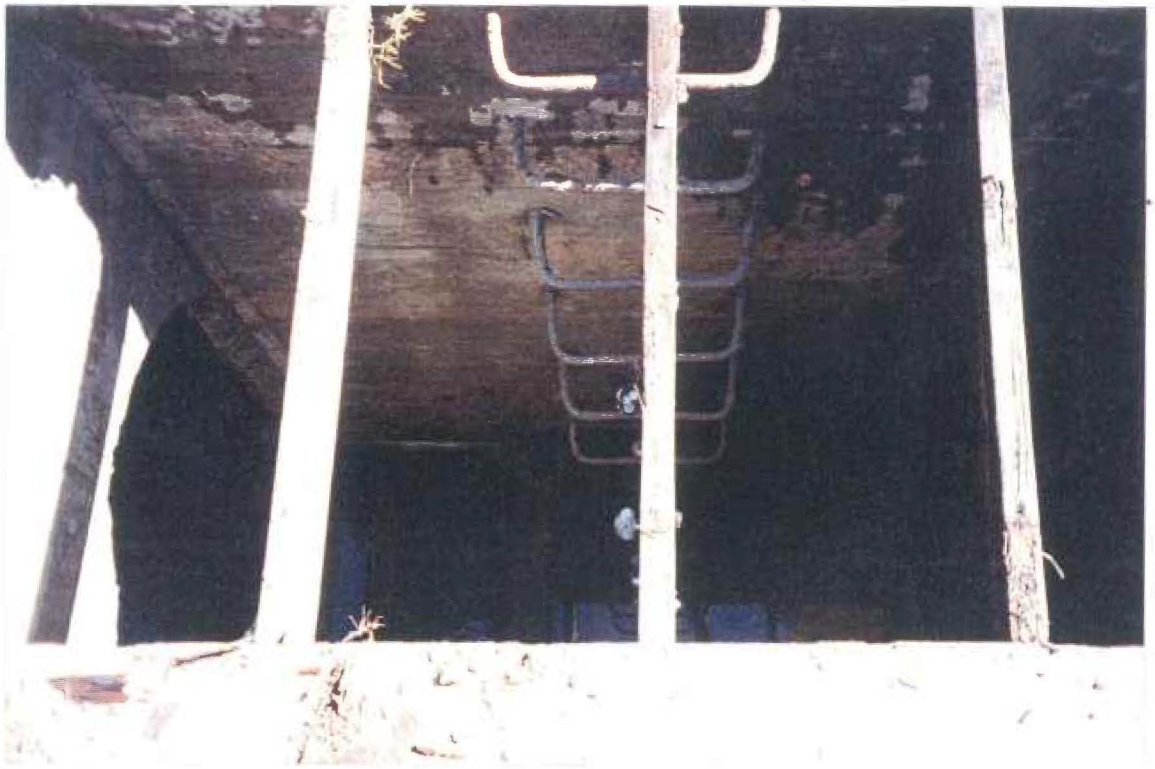
Roll - 1823 Frame 20 October 3, 1996
Excavation Protection at 19 B West

Roll - 1823 Frame 21 October 3, 1996
Monitoring Well Heads Removed
From 19 B East

Roll - 1823 Frame 22 October 4, 1996
East Tank Removed From
19 B East Excavation

Roll - 1823 Frame 23 October 4, 1996
East Tank Removed From
Excavation at 19 B East

Roll - 1823 Frame 25 October 4, 1996
Three Tanks From 19 B East



Roll - 1823 Frame 28 October 8, 1996
19 B East Oil Water Separator

Roll - 1823 Frame 33 October 9, 1996
Contaminated Soil on Concrete
Saddle at 19 B East Pressure Washed

Roll - 1823 Frame 37 October 14, 1996
Tank Vaults From East and Center
Tanks at 19 B West

Roll B Frame 2 October 14, 1996
Liquid Removal From East Tank
at 19 B West

Roll B Frame 5 October 15, 1996
West Tank From 19 B East Being Decontaminated

Roll B Frame 6 October 16, 1996
Interior of West Tank From 19 B East After Decontamination

Roll B Frame 9 October 16, 1996
Dry Ice Added to West Tank

Roll B Frame 10 October 16, 1996
Tanks From 19 B West Staged
Prior to Decontamination

Roll B Frame 11 October 16, 1996
Concrete Saddles From
19 B West

Roll B Frame 13 October 17, 1996
Excavation Loading Soil From
FFTA Into Trucks

Roll B Frame 14 October 17, 1996
Soil Removal From FFTA

Roll B Frame 19 October 24, 1996
19 B West Excavation

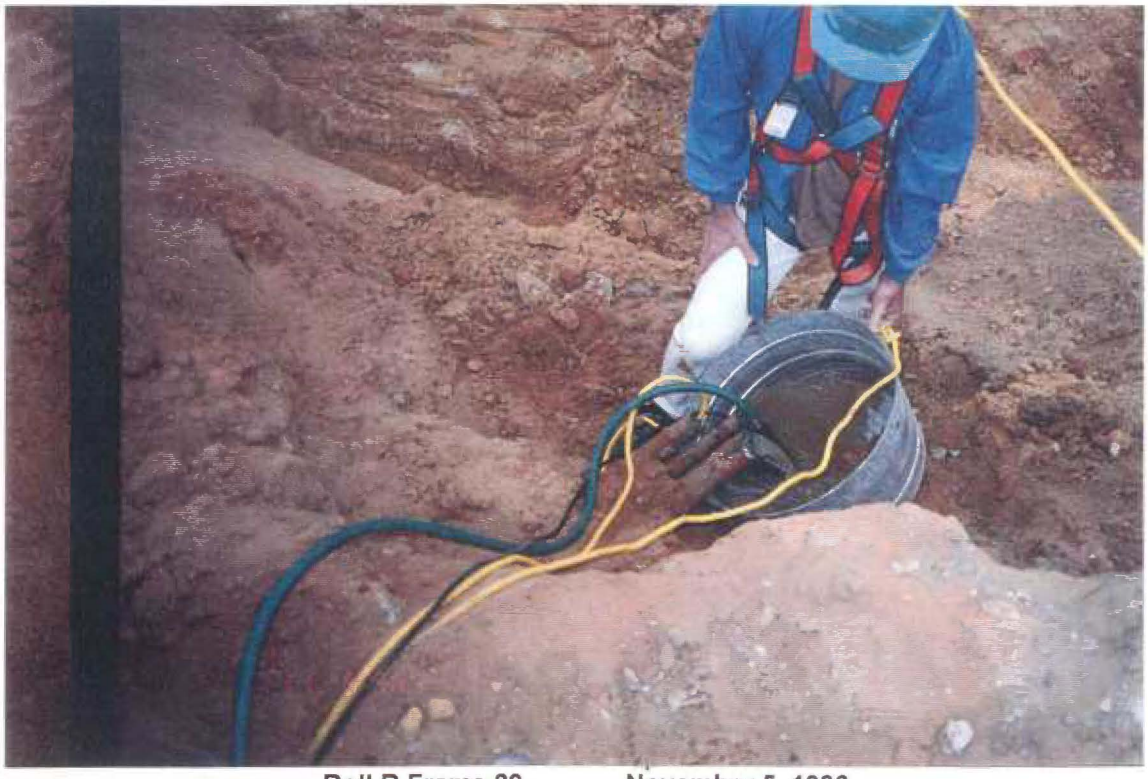
Roll B Frame 20 October 28, 1996
NE Corner of 19 B East Excavation

Roll B Frame 22 October 29, 1996
Support System to Prevent Telephone
Pole From Falling Into Excavation at 19B West

Roll B Frame 23 October 30, 1996
Samples Collected Around Center Point
of FFTA

Roll B Frame 27 November 5, 1996
Concrete Loaded out From
19 B West

Roll B Frame 28 November 5, 1996
Tanker Truck Pumping Liquid From Fract Tank



Roll B Frame 29 November 5, 1996
Flushing 19 B East Lines

Roll B Frame 31 November 6, 1996
Water in 19 B West Excavation
After Rainfall

Roll B Frame 33 November 6, 1996
Loading Out Steel Tanks Labeled
"Do Not Re-Use Used Oil, 0% LEL"

Roll B Frame 35 November 8, 1996
Oil Waste Separator After Decon
at 19 B East

Roll C Frame 1 November 11, 1996
North and South View of 19 B West
Prior to Backfilling

Roll C Frame 3 November 12, 1996
FFTA Backfilling

Roll C Frame 5 November 12, 1996
Concrete Pumped into 19 B East
Oil Water Separator

Roll C Frame 6 November 12, 1996
Concrete Pumped into 19 B East
Oil Water Separator

Roll C Frame 7 November 13, 1996
Ramp Cut into 19 B West With Dozer

Roll C Frame 9 November 14, 1996
4" Pipe Previously Connected to
2500 Gal Tank at 19 B West

Roll C Frame 10 November 14, 1996
FFTA Backfilled to Grade

Roll C Frame 12 November 19, 1996
Sewer Line Reconnected in 19 B East
Oil Water Separator

Roll C Frame 17 November 21, 1996
Construction of Concrete Curbing at 19 B West

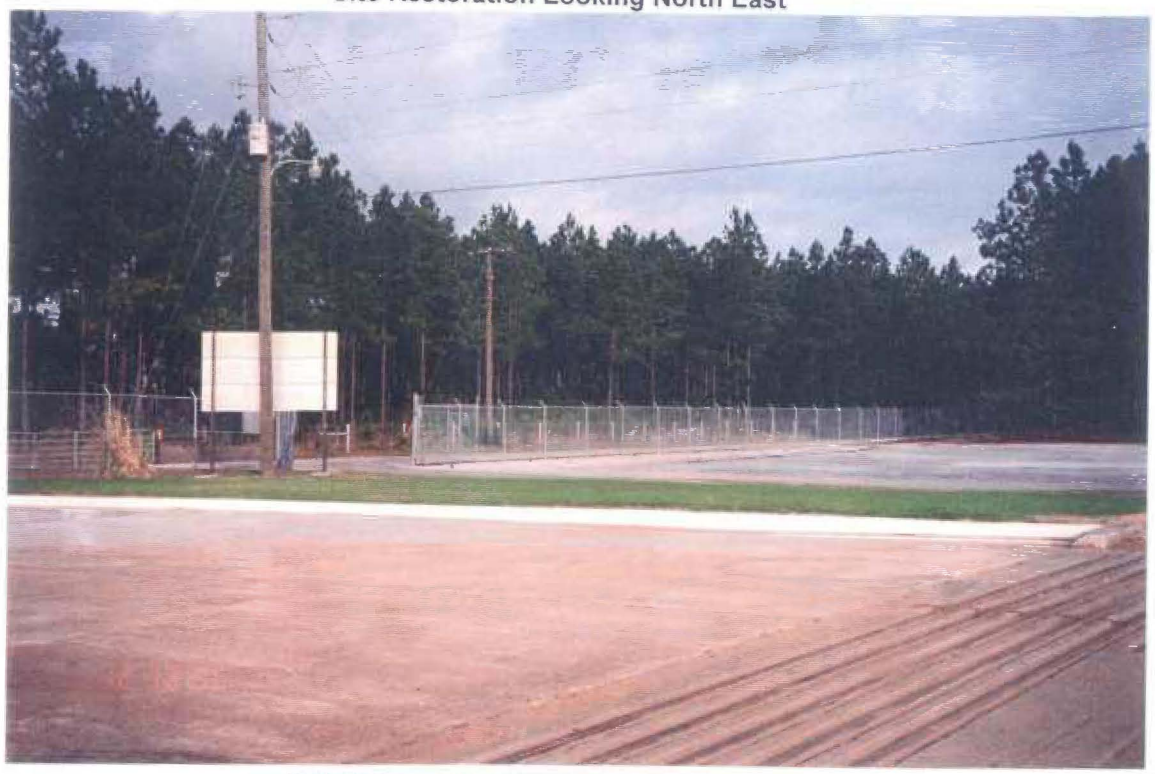
Roll C Frame 19 November 22, 1996
FFTA Seeded and Rolled Topsoil

Roll C Frame 21 November 26, 1996
Kemron/Rainbow Const. Pouring Concrete
at 19 B East

Roll C Frame 22 December 3, 1996
Kemron Loading Soil From Spoils Piles

Roll C Frame 24 December 4, 1996
View of 19 B East Post Concrete Replacement
Showing Finished Product and Barricades

Roll D Frame 7 December 16, 1996
19 B East Shows Grass Growing at Completed
Site Restoration Looking North East



Roll D Frame 9 December 16, 1996
19 B West Looking Northwest Post Site
Restoration

Roll D Frame 12 December 16, 1996
FFTA Area 24B Post Site Restoration
Shows Grass Growing

APPENDIX B
APPROVALS, PERMITS AND REGULATORY INFORMATION

APPENDIX B
APPROVALS, PERMITS AND REGULATORY INFORMATION

ADEM Waste Certification-SW-100898-001	Site 24B	(1 Page)
ADEM Waste Certification-SW-112598-0007	Site 19B	(1 Page)
UST Release Notification, dated October 10, 1996	Site 19B East	(3 Pages)
UST Release Notification, dated October 23, 1996	Site 19B West	(3 Pages)

Rec'd
10/11/96

ADEM

ALABAMA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

James W. Warr
Director

(334) 271-7700

1751 Cong. W. L. Dickinson Drive
Montgomery, AL
36109-2608

Mailing Address:
PO Box 301463
Montgomery, AL
36130-1463

FAX: (334)
Admin: 271-7950
Air: 279-3044
Land: 279-3050
Water: 279-3051
Sp Proj: 213-4399
Field Ops: 272-8131
Backup: 270-5612

Field Offices:

110 Vulcan Road
Birmingham, AL
35209-4702
(205) 942-6168
FAX: 941-1603

400 Well St, N.E.
P.O. Box 953
Decatur, AL
35602-0953
(205) 353-1713
FAX: 340-9359

2204 Perimeter Rd
Mobile, AL
36615-1131
(334) 450-3400
FAX: 479-2593

Fob James, Jr.
Governor

October 8, 1996

Mr. Jim Holland
NOLF Barin (U S Navy Installation)
11490 Barin Field Road
Foley, AL 36535-4853

Dear Mr. Holland:

The Alabama Department of Environmental Management has reviewed your request for disposal of the waste listed below and hereby assigns the following Disposal Certification Number for this waste.

Waste Description	Approved Quantity (Tons)	Disposal Certification Number
Waste Profile # 970014 Petroleum contaminated soils	500.00	SW-100898-0001

According to the information submitted dated 10/07/1996 , this waste appears to be non-hazardous in accordance with the applicable regulations.

This material is authorized to be accepted for a one-time disposal by the following:
Timberlands Sanitary Landfill — Permit Number 27-08
Contact Mr. Pat Manderscheid — at (334) 867-8921

Please note this letter does not exempt NOLF Barin (U S Navy Installation) from complying with applicable requirements of ADEM Administrative Code Divison 335-14, Hazardous Waste Program Rules.

If you have any questions, please contact Ms. Lynn T. Roper at (334)271-7728.

Sincerely,

Robert W. Barr, Chief
Southern Section
RCRA Compliance Branch
Land Division

RWB/ltr
c: Mr. Pat Manderscheid
File: I/W- NOLF Barin (U S Navy Installation)
CF 27-08

Dist
4324-0013-016
Earlen
DFuller

Printed on Recycled Paper

ADEM

ALABAMA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

James W. Warr
Director

(334) 271-7700

1751 Cong. W. L. Dickinson Drive
Montgomery, AL
36109-2608

Mailing Address:
PO Box 301463
Montgomery, AL
36130-1463

FAX: (334)
Admin: 271-7950
Air: 279-3044
Land: 279-3050
Water: 279-3051
Sp Proj: 213-4399
Field Ops: 272-8131
Backup: 270-5612

Field Offices:

110 Vulcan Road
Birmingham, AL
35209-4702
(205) 942-6168
FAX: 941-1603

400 Well St, N.E.
P.O. Box 953
Decatur, AL
35602-0953
(205) 353-1713
FAX: 340-9359

2204 Perimeter Rd
Mobile, AL
36615-1131
(334) 450-3400
FAX: 479-2593

Fob James, Jr.
Governor

November 26, 1996

Mr. Jim Holland
OLF Barin-US Navy Facility
11490 Barin Field Road
Foley, AL 36535

Dear Mr. Holland:

The Alabama Department of Environmental Management has reviewed your request for disposal of the waste listed below and hereby assigns the following Disposal Certification Number for this waste.

Waste Description	Approved Quantity (Cu. Yds)	Disposal Certification Number
Waste Profile # 970205 Contaminated soils	800.00	SW-112598-0007

According to the information submitted dated 11/21/1996 , this waste appears to be non-hazardous in accordance with the applicable regulations.

This material is authorized to be accepted for a one-time disposal by the following:
Timberlands Sanitary Landfill Permit Number 27-08
Contact Mr. Pat Maderscheid at (334) 867-8921

Please note this letter does not exempt OLF Barin-US Navy Facility from complying with applicable requirements of ADEM Administrative Code Divison 335-14, Hazardous Waste Program Rules.

If you have any questions, please contact Ms. Lynn T. Roper at (334)271-7728.

Sincerely,

Robert W. Barr, Chief
Southern Section
RCRA Compliance Branch
Land Division

RWB/ltr
c: Mr. Pat Maderscheid
Morrison Knudsen
Elise Allen
File: I/W- OLF Barin-US Navy Facility
CF 27-08

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MORRISON KNUDSEN CORPORATION

MK-FERGUSON PLAZA
1500 WEST 3RD STREET
CLEVELAND, OHIO 44113-1406
PHONE: (216) 523-5600
FAX: (216) 523-5201

TEL.AW

TELECOPIER COVER LETTER

DATE: 10-10-96

TO: NAME Lee Thomas

COMPANY ADEM

CITY

FAX NO. 334-271-7950

FROM: Environmental Services Division
1500 West Third Street
Cleveland, OH 44113-1406
FAX: (216) 523-5201

NAME Elise Allen

CONTACT NO. 216-523-5269

NUMBER OF PAGES TRANSMITTED (including this page) 3

MESSAGE TO ADDRESSEE:

Lee - Release form ~~&~~ we discussed for OLF Basin.

For ADEM Use Only
UST INCIDENT NO.: _____-___-___
Report Received by: _____

UST RELEASE REPORT

RELEASE REPORT INFORMATION

RELEASE REPORTED BY: ELISE ALLEN
PHONE NO.: 216-523-5269 / FAX 216 523-5201
DATE RELEASE REPORTED: Oct 10, 96

SITE INFORMATION

SITE NAME: NOLF Barin
SITE STREET ADDRESS: 11490 Barin Field Rd
CITY: Foley COUNTY: AL ZIP: 36535-4853

FACILITY I.D. No.: _____-___-_____ (no known # assigned)

FACILITY OWNER INFORMATION

OWNER/OPERATOR NAME: US NAVY
OWNER/OPERATOR STREET ADDRESS: 11490 Barin Field Rd
CITY: Foley COUNTY: AL ZIP: ~~363~~ 36535-4853
OWNER/OPERATOR PHONE NO.: NAVY RPM: Jeff Adams 803-820-7341

DESCRIPTION OF RELEASE

DATE OF DISCOVERY OF RELEASE: Oct 9, 96

SUBSTANCE RELEASED: { } Gasoline { } Diesel { } Waste Oil { } Kerosene {X} Other Cantleo

ESTIMATED AMOUNT OF SUBSTANCE RELEASED: UK

HOW WAS RELEASE DISCOVERED? {✓} During closure { } Tank Tightness Test
{ } Line Tightness Test { } Line Leak Detector { } Vapor Monitoring
{ } Vapors Detected { } Environmental Audit { } Citizen Complaint
{ } Groundwater Monitoring { } Inventory Loss/Gain

{ } Statistical Reconciliation { } Other (Please Describe)
{ } Unexplained Loss _____
{ } Inconclusive _____

CAUSE OF RELEASE: { } Overfill { } Spill { } Tank Leak { } Line Leak
{✓} Other: unknown during removal from service

TYPE OF PIPING: { } Pressurized { } Suction

ATTACH OTHER COMMENTS AS NECESSARY See attached

REPORTING OF RELEASES REQUIRED WITHIN 24 HOURS OF DISCOVERY

REPORT BY PHONE ~~(205)~~ 334 270-5655 REPORT BY FAX ~~(205)~~ 334 271-7950 or (205) 270-5612

REPORT BY OVERNIGHT MAIL : ADEM GROUNDWATER BRANCH
1751 CONGRESSMAN DICKINSON DRIVE
MONTGOMERY, ALABAMA 36130

OLF Barin UST Release Notification
Site 19B, East Wash Rack

During removal of the slab under the eastern most UST, Site 19B, East wash rack, petroleum contamination was discovered. The contamination appears to be from removal of supply and return lines (unknown date). The USTs were last known to be used as a wash rack collection area not fuel storage. The volume of the release is unknown as is the contaminant type (ie Kerosene etc).

The Excavation is at 10 feet with groundwater measured in the adjacent wells at 18 feet. The Navy's contractor, Morrison Knudsen, will continue to excavate and chase contamination as needed.

F:\eeallen\olfbarin\ademnotif.wpd

MORRISON KNUDSEN CORPORATION

TEL.AW

MK-FERGUSON PLAZA
1500 WEST 3RD STREET
CLEVELAND, OHIO 44113-1406
PHONE: (216) 523-5600
FAX: (216) 523-5201

TELECOPIER COVER LETTER

DATE: 10-23-96

TO: NAME Kirt Chandler

COMPANY ADEM

CITY

FAX NO. 334-270-5612

FROM: Environmental Services Division
1500 West Third Street
Cleveland, OH 44113-1406
FAX: (216) 523-5201

NAME Elise Allen

CONTACT NO. 216-523-5269

NUMBER OF PAGES TRANSMITTED (including this page) 3

MESSAGE TO ADDRESSEE:

Kirt - here is the notification form for OLF Barin site in Foley, Alabama. Our Special Projects Manager is David Thompson and David Lavoy (sp) is also involved. Call if you have any questions.

Elise Allen

For ADEM Use Only
UST INCIDENT NO.: _____-___-___
Report Received by: _____

UST RELEASE REPORT

RELEASE REPORT INFORMATION

RELEASE REPORTED BY: ELISE ALLEN
PHONE NO.: 216-523-5269 / Fax 216-523-5201
DATE RELEASE REPORTED: Oct 23, 96

SITE INFORMATION

SITE NAME: NOLF Barin
SITE STREET ADDRESS: 11490 Barin Field Rd
CITY: FOLEY COUNTY: BALDWIN ZIP: 36535-4853

FACILITY I.D. No.: _____-____-_____ (no known # assigned)

FACILITY OWNER INFORMATION

OWNER/OPERATOR NAME: US NAVY
OWNER/OPERATOR STREET ADDRESS: 11490 Barin Field Rd
CITY: Foley COUNTY: Baldwin ZIP: 36535-4853
OWNER/OPERATOR PHONE NO.: NAVY RPM Jeff Adams 803-820-7341

DESCRIPTION OF RELEASE

DATE OF DISCOVERY OF RELEASE: Oct 22, 1996

SUBSTANCE RELEASED: { } Gasoline { } Diesel { } Waste Oil { } Kerosene {X} Other Can't tell

ESTIMATED AMOUNT OF SUBSTANCE RELEASED: UK

HOW WAS RELEASE DISCOVERED? {X} During closure { } Tank Tightness Test
{ } Line Tightness Test { } Line Leak Detector { } Vapor Monitoring
{ } Vapors Detected { } Environmental Audit { } Citizen Complaint
{ } Groundwater Monitoring { } Inventory Loss/Gain

{ } Statistical Reconciliation { } Other (Please Describe)
{ } Unexplained Loss
{ } Inconclusive

CAUSE OF RELEASE: { } Overfill { } Spill { } Tank Leak { } Line Leak
{X} Other: Thought to be overfill but couldn't tell by tanks, lines or conditions

TYPE OF PIPING: { } Pressurized { } Suction

ATTACH OTHER COMMENTS AS NECESSARY - See attached

REPORTING OF RELEASES REQUIRED WITHIN 24 HOURS OF DISCOVERY

REPORT BY PHONE (~~205~~ 334) 270-5655 REPORT BY FAX (~~205~~ 334) 271-7950 or (~~205~~ 334) 270-5612

REPORT BY OVERNIGHT MAIL : ADEM GROUNDWATER BRANCH
1751 CONGRESSMAN DICKINSON DRIVE
MONTGOMERY, ALABAMA 36130

OLF Barin UST Release Notification
Site 19B, West Wash Rack
October 23, 1996

During removal of the slab under the USTs at Site 19B, West wash rack, petroleum contamination was discovered. The contamination source is unknown as the USTs did not appear to have any holes. The USTs were last known to be used as a wash rack collection area not fuel storage. The volume of the release is unknown as is the contaminant type (ie Kerosene etc).

The Excavation is at 12 feet once the slabs were removed with groundwater measured at approximately 18 feet. The Navy's contractor, Morrison Knudsen, has continued to excavate and has gone to a depth of 18 feet in one area of the excavation. TPH bottom samples have been collected and submitted to an off-site analytical laboratory.

F:\eeallen\olfbarin\ademnot2.wpd

APPENDIX C
WASTE DISPOSAL LOG

APPENDIX C
OLF BARIN WASTE DISPOSAL SUMMARY

TYPE	SITE AREA	GENERATION DATE	DISPOSAL DATE	DESTINATION	D. METHOD	MANIFEST NUMBER	WEIGHT (POUNDS)	CLASS	HAZ CODE	TYPE
SOIL	24B	17-Oct-96	18-Oct-96	BFI TIMBERLANDS	LANDFILL	070702	44840	NON-HAZ	NA	JP-5 SOILS
SOIL	24B	17-Oct-96	17-Oct-96	BFI TIMBERLANDS	LANDFILL	070703	38660	NON-HAZ	NA	JP-5 SOILS
SOIL	24B	17-Oct-96	17-Oct-96	BFI TIMBERLANDS	LANDFILL	070704	50820	NON-HAZ	NA	JP-5 SOILS
SOIL	24B	17-Oct-96	17-Oct-96	BFI TIMBERLANDS	LANDFILL	070705	40180	NON-HAZ	NA	JP-5 SOILS
SOIL	24B	17-Oct-96	17-Oct-96	BFI TIMBERLANDS	LANDFILL	070706	48840	NON-HAZ	NA	JP-5 SOILS
SOIL	24B	17-Oct-96	17-Oct-96	BFI TIMBERLANDS	LANDFILL	070707	40260	NON-HAZ	NA	JP-5 SOILS
SOIL	24B	17-Oct-96	17-Oct-96	BFI TIMBERLANDS	LANDFILL	070708	47500	NON-HAZ	NA	JP-5 SOILS
SOIL	24B	17-Oct-96	17-Oct-96	BFI TIMBERLANDS	LANDFILL	070709	42500	NON-HAZ	NA	JP-5 SOILS
SOIL	24B	17-Oct-96	17-Oct-96	BFI TIMBERLANDS	LANDFILL	070710	43520	NON-HAZ	NA	JP-5 SOILS
SOIL	24B	17-Oct-96	17-Oct-96	BFI TIMBERLANDS	LANDFILL	070711	39400	NON-HAZ	NA	JP-5 SOILS
SOIL	24B	17-Oct-96	17-Oct-96	BFI TIMBERLANDS	LANDFILL	070712	43860	NON-HAZ	NA	JP-5 SOILS
SOIL	24B	17-Oct-96	18-Oct-96	BFI TIMBERLANDS	LANDFILL	070719	43320	NON-HAZ	NA	JP-5 SOILS
SOIL	24B	17-Oct-96	18-Oct-96	BFI TIMBERLANDS	LANDFILL	070720	40680	NON-HAZ	NA	JP-5 SOILS
SOIL	24B	25-Nov-96	25-Nov-96	BFI TIMBERLANDS	LANDFILL	070721	20960	NON-HAZ	NA	JP-5 SOILS
						POUNDS	585340	292.67	TONS	

APPENDIX C
OLF BARIN WASTE DISPOSAL SUMMARY

TYPE	SITE AREA	GENERATION DATE	DISPOSAL DATE	DESTINATION	D. METHOD	MANIFEST NUMBER	WEIGHT (POUNDS)	CLASS	HAZ CODE	TYPE
SOIL	19B	04-Dec-96	04-Dec-96	BFI TIMBERLANDS	LANDFILL	016797	31020	NON-HAZ	NA	UST SOIL
SOIL	19B	04-Dec-96	04-Dec-96	BFI TIMBERLANDS	LANDFILL	016798	29000	NON-HAZ	NA	UST SOIL
SOIL	19B	04-Dec-96	04-Dec-96	BFI TIMBERLANDS	LANDFILL	016799	42300	NON-HAZ	NA	UST SOIL
SOIL	19B	04-Dec-96	04-Dec-96	BFI TIMBERLANDS	LANDFILL	016800	36120	NON-HAZ	NA	UST SOIL
SOIL	19B	04-Dec-96	04-Dec-96	BFI TIMBERLANDS	LANDFILL	016801	38980	NON-HAZ	NA	UST SOIL
SOIL	19B	04-Dec-96	04-Dec-96	BFI TIMBERLANDS	LANDFILL	016802	42420	NON-HAZ	NA	UST SOIL
						POUNDS	1756680	878.34	TONS	
LIQUID	19B	21-Oct-96	25-Oct-96	IWS INC.	RECYCLER	11190	5000 GAL	NON-HAZ	NA	PETROLEUM
LIQUID	19B	21-Oct-96	26-Oct-96	IWS INC.	RECYCLER	11191	5500 GAL	NON-HAZ	NA	PETROLEUM
						GALLONS	10500	NON-HAZ		
SLUDGE	19B	13-Jan-97	13-Jan-97	CWM EMELLE FAC.	INCINERATOR	839102	340 GAL	HAZ	D018	DRUMS
LUDGE/PP	19B	13-Jan-97	13-Jan-97	CWM EMELLE FAC.	INCINERATOR	839102	55 GAL	HAZ	D008	DRUMS
SLUDGE	19B	13-Jan-97	13-Jan-97	CWM EMELLE FAC.	INCINERATOR	839102	110 GAL	HAZ	D018	DRUMS
						GALLONS	505	HAZ		

APPENDIX D
CHAIN-OF-CUSTODY FORMS

CORE LAB

CORE LABORATORIES, INC.

NO. 11491

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: Morrison Knudsen	PROJECT NAME/NUMBER: NOLF Barin Field / 4324-013
SEND REPORT TO: Dan Fuller	BILLING INFORMATION
ADDRESS: c/o OLF Barin Field	BILL TO: same
11490 Barin Field Rd.	ADDRESS:
Foley, AL 36535	
PHONE: 334-943-7223	PHONE:
FAX:	FAX: PO NO.: 4324-013

LAB JOB NO. 962529

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	8020	8260	RCRA Metals	pH / Flashpoint	TCLP Metals, VOA, SVOC	PCB / TPH (418.1)	REMARKS / PRECAUTIONS
1	19W/T2	9/12/96	1505	Liquid			6	X	X	X	X			8020 & 8260's are
2	19W/T1		1515				6	X	X	X	X			preserved w/ HCl
3	19E/T3		1545				6	X	X	X	X			
4	24B/D1		1610	Soil			2					X	X	RCRA metals
5	24B/D2		1613				2					X	X	preserved w/ HNO_3
6	24B/D3		1618				2					X	X	
7	Trip Blank						1							
														temp blk 2.3°c

Do Not analyze per D. Carelli. 9-16-96

SAMPLER: Allen Youngblade / John Aitts

SHIPMENT METHOD: Fedex

AIRBILL NO.: 2373145891

REQUIRED TURNAROUND:* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE OTHER 2 weeks

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	9/12/96	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Allen Youngblade / KEMRON	TIME 1640	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Fedex		SIGNATURE: Michelle Weatherford	9/13/96	SIGNATURE:	
PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: CORE	TIME 0755	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

☐ **Anaheim, CA** 1250 E. Gene Autry Way, Anaheim, CA 92805, (714) 937-1094 Fax (714) 937-1170

☐ **Aurora, CO** 10703 E. Bethany Drive, Aurora, CO 80014, (303) 751-1780 Fax (303) 751-1784

☐ **Casper, WY** 420 W. First Street, Casper, WY 82601, (307) 235-5741 Fax (307) 266-1676

☐ **Corpus Christi, TX** 1733 N. Padre Island Drive, Corpus Christi, TX 78408, (512) 289-2673 Fax (512) 289-2471

☐ **Edison, NJ** 284 Raritan Center Parkway, Edison, NJ 08837, (908) 225-6700 Fax (908) 225-6777

☐ **Houston, TX (Env)** 6310 Rothway Drive, Houston, TX 77040, (713) 690-4444 Fax (713) 690-5646

☐ **Houston, TX (Pet)** 8210 Mosley Road, Houston, TX 77075, (713) 943-9776 Fax (713) 943-3846

☐ **Indianapolis, IN** 7726 Moller Road, Indianapolis, IN 46268, (317) 875-5894 Fax (317) 872-6189

☐ **Lake Charles, LA** 3645 Beglis Parkway, Sulphur, LA 70663, (318) 58[illegible]26 Fax (318) 583-4929

☐ **Long Beach, CA** 3700 Cherry Avenue, Long Beach, CA 90807, (310) 595-8401 Fax (310) 427-5174

☐ **Tampa, FL** 5460 Beaumont Center Blvd., Tampa, FL 33634, (813)884-8268 Fax (813) 885-4938

☐ **Valparaiso, IN** 2400 Cumberland Drive, Valparaiso, IN 46383, (219) 464-2389 Fax (219) 462-2953

CORE LAB

CORE LABORATOP S, INC.

Fedex # 1484380192

No. 11498

CHAIN OF CUSTODY RECORD

~~COC seal #~~ SC

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: MORRISON KNUDSEN	PROJECT NAME/NUMBER: OLF BARIN 4324-003
SEND REPORT TO: ALAN FOSPICK	BILLING INFORMATION
ADDRESS: 1500 WEST 3rd St.	BILL TO: PO# 1F6-4324-2773
Cleveland, OH 44113-1406	ADDRESS:
PHONE: 1800 334 3081	PHONE:
FAX:	FAX: PO NO.:

LAB JOB NO. 962729

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	FLASH POINT PH	RCRA metals	8260						REMARKS / PRECAUTIONS
OLFTW3TC008	TANK Contents	10/1/96	09:40	AQ	1Ltr	N/A	1	X								
OLFTW3TC008	" "	"	"	"	500 ml	HNO_3	1		X							
OLFTW3TC008	" "	"	"	"	(3) 40ml	HCL	3			X						
~~OLFTW3TC008~~ SC	TRIP BLANK	"	"	"	(1) 40ml	HCL	1			X						SAMPLE ID TB10016
OLFFRCTC 009	FRAC TANK	10/1/96	14 30	AQ	1Ltr	N/A	1	X								
OLFFRCTC 009	FRAC TANK	10/1/96	1430	AQ	500ml	HNO_3	1		X							
OLFFRCTC 009		10/1/96	1430	AQ	40ml	HCL	3			X						
																temp 3.0°C

SAMPLER: Gene Bland / Ran Frost

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND:* [ ] SAME DAY [ ] 24 HOURS [X] 48 HOURS [ ] 72 HOURS [ ] 5 DAYS [ ] 10 DAYS [ ] ROUTINE OTHER SC

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Steve Cosgriff	10/1/96	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Steve Cosgriff MK	TIME 1505	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Michelle Weatherford	10/2/96	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: CORE	TIME 0935	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

☐ **Anaheim, CA** 1250 E. Gene Autry Way Anaheim, CA 92805 (714) 937-1094 Fax (7 7-1170

☐ **Aurora, CO** 10703 E. Bethany Drive Aurora, CO 80014 (303) 751-1780 Fax (303) 751-1784

☐ **Casper, WY** 420 W. First Street Casper, WY 82601 (307) 235-5741 Fax (307) 266-1676

☐ **Corpus Christi, TX** 1733 N. Padre Island Drive Corpus Christi, TX 78408 (512) 289-2673 Fax (512) 289-2471

☐ **Edison, NJ** 284 Raritan Center Parkway Edison, NJ 08837 (908) 225-6700 Fax (908) 225-6777

☐ **Houston, TX (Env)** 6310 Rothway Drive Houston, TX 77040 (713) 690-4444 Fax (713) 690-5646

☐ **Houston, TX (Pet)** 8210 Mosley Road Houston, TX 77075 (713) 943-9776 Fax (713) 943-3846

☐ **Indianapolis, IN** 7726 Moller Road Indianapolis, IN 46268 (317) 875-5894 Fax (317) 872-6189

☐ **Lake Charles, LA** 3645 Beglis Parkway Sulphur, LA 70663 (318) 583-4926 Fax (318) 583-4929

☐ **Long Beach, CA** 3700 Cherry Avenue Long Beach, CA 90807 (310) 595-8401 Fax (310) 427-5174

☐ **Tampa, FL** 5460 Beaumont Center Blvd. Tampa, FL 33634 (813)884-8268 Fax (813) 885-4938

☐ **iso, IN** umberland Drive Valparaiso, IN 46383 (219) 464-2389 Fax (219) 462-2953

FEDEX # 2364[illegible]9031 9[illegible]770

SW 846 1.3.4.1 1.3.3.2 1.

MORRISON KNUDSEN CORPORATION

CHAIN OF CUSTODY RECORD

720 Park Blvd., P.O. Box 73
Boise, Idaho 83729
(208) 386-5000

Project No.: 4324-0013

Project Name: OLF BARIN

Samplers: (Signature) Steve Cosgriff

Sampler: (Print) Steve Cosgriff

Analysis Required: TPH 418.1; IGNITABILITY 1010; CORROSIVITY 9045C; Reactivity Cyan/Sulfide; TCLP ORGANICS; TCLP METALS

	Sample Type	Sampling Point Description	Sample Date	Time	Sample I.D. Number	Split Samples Yes	Split Samples No	TPH 418.1	IGNITABILITY 1010	CORROSIVITY 9045C	Reactivity Cyan/Sulfide	TCLP ORGANICS	TCLP METALS	Remarks
1	SOIL	19BEWR Ex. Soil	10/4/96	1435	OLFT123ES010			X						20yds
2	SOIL	19BEWR Ex Soil	10/4/96	1440	OLFT123ES011			X						20yds
3	Soil	19BEWR Ex Soil Dup	10/4/96	1440	OLFT123ES011D			X						20yds
4	Soil	19BEWR Ex Soil	10/4/96	1450	OLFT123ES012			X						20yds
5	Soil	19BEWR Ex Soil TOTAL composite	10/4/96	1505	OLFT123ES013			X	X	X	X	X	X	140yds
6	Soil	19BEWR Ex Soil TOTAL composite Dup	10/4/96	1505	OLFT123ES013D			X	X	X	X	X	X	140yds
7	soil	19BEWR Ex Soil	10/4/96	1540	OLFT123ES014			X						20yds
8	Soil	19BEWR Ex Soil	10/4/96	1550	OLFT123ES015			X						20yds
9	Soil	19BEWR Ex Soil	10/4/96	1555	OLFT123ES016			X						20yds
10	Soil	19BEWR Ex Soil	10/4/96	1600	OLFT123ES017			X						20yds
11	Soil	19BEWR Ex Soil Dup	10/4/96	1600	OLFT123ES017D			X						20yds
12	liquid	TRIPBLANKS	10/4/96	1620	TB10046						X			
	MK Contact - Alan Forsick				TCLP METALS consists of									
		(800) ~~334~~ 533-3081			6010/7471									
					TCLP ORGANICS consists of									
	5	day turnaround time			8240/8270/8080									
														Temp 2.3°C

Relinquished By: (Signature) / Company:	Date/Time	Received By: (Signature) / Company:	Relinquished By: (Signature) / Company:	Date/Time	Received By: (Signature) / Company:
Steve Cosgriff MK	10/4/96 1635				
Relinquished By: (Signature) / Company:	Date/Time 10/5/96 1030	Received By: (Signature) / Company: [illegible]	Relinquished By: (Signature) / Company:	Date/Time	Received By: (Signature) / Company:
Relinquished By: (Signature) / Company:	Date/Time	Received By: (Signature) / Company: CORE	Received for Laboratory By: (Signature) / Company:	Date/Time	Total No. Samples This Shipping Container: / Company:
Relinquished By: (Signature) / Company:	Date/Time	Received By: (Signature) / Company:	Relinquished By: (Signature) / Company:	Date/Time	Received By: (Signature) / Company:

CORE LAB

CORE LABORATORIES, INC.

No. 17666

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: MORRISON KNUDSEN	PROJECT NAME/NUMBER: 4324-0013 OLFBARIN
SEND REPORT TO: ALAN FOSDICK	BILLING INFORMATION
ADDRESS: 1500 West 3rd St	BILL TO: AS PER PO
Cleveland, OH 44113-1406	ADDRESS:
PHONE: 216 523 3316	PHONE:
FAX: 216 523 5201	FAX: PO NO.:

LAB JOB NO. 962875

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	418.1 TPH	DOP SC	MATRIX SPIKE SC	REMARKS / PRECAUTIONS
OLFT456ES023		10-15-96	3:31	Soil	4oz	NA	1	X			
OLFT456ES023D	(DUPLICATE	10-15-96	3:33	Soil	4oz	N/A	1	X	X		
OLFT456ES024		10-15-96	3:41	Soil	4oz	N/A	1	X			
OLFT123ES025		10-15-96	3:46	Soil	4oz	N/A	1	X			
OLF456ES026		10-15-96	3:50	Soil	4oz	N/A	1	X			
OLFT456ES027		10-15-96	3:56	Soil	4oz	N/A	1	X			
OLFT456ES027MS	(MATRIX SPIKE)	10-15-96	3:59	Soil	4oz	N/A	1	X	X	X	
OLFT456ES028		10-16-96	08:00	Soil	4oz	N/A	1	X			
OLFT456ES029		10-16-96	08:10	Soil	4oz	N/A	1	X			
											temp 2.7°C

SAMPLER: Gene Bland

SHIPMENT METHOD: Fedex

AIRBILL NO.: 2364389145

REQUIRED TURNAROUND:* ☐ SAME DAY ☒ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE OTHER CS#S 001463/001462

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: [signature]		SIGNATURE: [signature]	10/16/96	SIGNATURE:	
PRINTED NAME/COMPANY: Kemron	TIME	PRINTED NAME/COMPANY: MK	TIME 1535	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	**DATE**	**2. RECEIVED BY:**	**DATE**	**3. RECEIVED BY:**	**DATE**
SIGNATURE: [signature]	10/16/96	SIGNATURE: Michelle Weatherford	10/17/96	SIGNATURE:	
PRINTED NAME/COMPANY: MK	TIME 1510	PRINTED NAME/COMPANY: CORE	TIME 0955	PRINTED NAME/COMPANY:	TIME

RUSH TURNAROUND MAY REQUIRE SURCHARGE

☐ **Anaheim, CA** 1250 E. Gene Autry Way Anaheim,CA 92805 (714) 937-1094 Fax (714) 937-1170

☐ **Aurora, CO** 10703 E. Bethany Drive Aurora, CO 80014 (303) 751-1780 Fax (303) 751-1784

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☐ **Tampa, FL** 5460 Beaumont Center Blvd. Tampa, FL 33634 (813)884-8268 Fax (813) 885-4938

☐ **Valparaiso, IN** 2[illegible] Cumberland Drive Valparaiso, IN 46383 (219) 464-2389 Fax (219) 462-2953

CORE LAB

CORE LABORATORIES, INC.

No 77668

COC 2 of 2

CUSTODY SEALS 001163 / 001203

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: MORRISON KNUDSEN	PROJECT NAME/NUMBER: 4324-0013 OLF BARIN
SEND REPORT TO: ALAN FOSDICK	BILLING INFORMATION
ADDRESS: ENV. GROUP	BILL TO:
1500 West 3rd St.	ADDRESS:
Cleveland OH 44113-1406	
PHONE: 800 334-3081	PHONE:
FAX: 216 523 5201	FAX: PO NO.:

LAB JOB NO. 962967

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	418.1 TPH	REMARKS / PRECAUTIONS	
FES F5054	19BW Tank Vault Stk Pl #2	10-23-96	1445	Soil	4oz	NA	1	X	24hr turn around	1
FES F5054	Dup/19BW Tank Vault Stk Pl #2	10-23-96	1445	Soil	4oz	N/A	1	X	for TPH	2
FES F5055	19BW Tank Vault Stk Pl #2	10-23-96	1455	Soil	4oz	N/A	1	X	7day turnaround	3
FES F5056	19BW Tank Vault Stk Pl #2	10-23-96	1500	Soil	4oz	N/A	1	X	for TCLP	4
FES F5056MS	19BW Tank Vault Stk Pl #2	10-23-96	1500	Soil	4oz	N/A	1	X	← MATRIX SPIKE	5
FES F5057	19BW Tank Vault Stk Pl #2	10-23-96	15:10	Soil	4oz	N/A	1	X	note Sample ID's	6
FES F5058	19BW Tank Vault Stk #1	10-23-96	1538	Soil	4oz	N/A	1	X	should read	7
FES F5059	19BW Tank Vault Stk #1	10-23-96	1540	Soil	4oz	N/A	1	X	OLF ES XXX	8
FES F5060	19BW Tank Vault Stk #1	10-23-96	15:43	Soil	4oz	N/A	1	X	3 digit number in	9
FES F5061	19BW Tank Vault Stk #1	10-23-96	1545	Soil	4oz	N/A	1	X	sequential order	10

SAMPLER: [signature] SHIPMENT METHOD: FEDEX AIRBILL NO.: 2364389241

REQUIRED TURNAROUND:* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: [signature]	10/24/96	SIGNATURE: [signature]	10/24/96	SIGNATURE:	
PRINTED NAME/COMPANY: R.C.C.	TIME 1435	PRINTED NAME/COMPANY: Steve Cosgriff	TIME 1530	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: [signature]	10/24/96	SIGNATURE: Michelle Weatherford	10/25/96	SIGNATURE:	
PRINTED NAME/COMPANY: Steve Cosgriff MK	TIME 1435	PRINTED NAME/COMPANY: CORE	TIME 0725	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

☐ **Anaheim, CA** 1250 E. Gene Autry Way, Anaheim, CA 92805, (714) 937-1094 Fax (714) 937-1170

☐ **Aurora, CO** 10703 E. Bethany Drive, Aurora, CO 80014, (303) 751-1780 Fax (303) 751-1784

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☐ **Tampa, FL** 5460 Beaumont Center Blvd., Tampa, FL 33634, (813)884-8268 Fax (813) 885-4938

☐ **Valparaiso, IN** 2400 Cumberland Drive, Valparaiso, IN 46383, (219) 464-2389 Fax (219) 462-2953

CORE LAB

CORE LABORATORIES, INC.

No. 77667

CUSTODY SEALS 001163/001203 COC 1 of 2

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: MORRISON KNUDSEN	PROJECT NAME/NUMBER: 4324-0013
SEND REPORT TO: ALAN FOSDICK	BILLING INFORMATION
ADDRESS: ENV. GROUP	BILL TO:
1500 West 3rd St	ADDRESS:
Cleveland, OH 44113-1406	
PHONE: 800 334-3081	PHONE:
FAX: 216 523 5201	FAX: PO NO.:

LAB JOB NO. 962967

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	418.1 TPH	Ignitability 1010	~~Reactivity~~	TCLP ~~Metals~~	TCLP Metals	TCLP Semi volatile 1311/8270	TCLP PESTICIDES 1311/8080	CORROSIVITY 9045C/CYANIDE/SULFIDE Reactivity SW 846 Sec 7.3.3.2	REMARKS / PRECAUTIONS	
CES FS061 DUP	19BW TANK VAULT STK #1	10-23-96	15:45	Soil	402	NA	1	X								note sample ID's	11
CES FS062	19BW TANK VAULT STK #1	10-23-96	1548	Soil	402	NA	1	X								SHOULD READ	12
CES FS063	19BW TANK VAULT STK #1	10-23-96	15:50	Soil	402	NA	1	X								OLF ES XXX	13
CES FS064	Soil around 19BW EXCAV	10-23-96	15:53	Soil	402	NA	1	X								3016IT number	14
FES FS064 MS	Soil around 19BW EXCAV	10-23-96	15:53	Soil	402	NA	1	X								in sequential order	15
FES FS065	Soil around 19BW EXCAV	10-23-96	15:55	Soil	402	NA	1	X									16
CES FS066	STK PL #2 & #5 Contaminated	10-24-96	0845	Soil	1 402 5 802	N/A	6	X	X	X	X	X	X	X	X		17
TB10246	TRIP BLANK	10/24/96		liquid							X					temp 2.7°C	18
		24hr	turnaround	on	TPH	418.1		7day	turnaround	on	TCLP						

SAMPLER: [signature] SHIPMENT METHOD: FEDE X AIRBILL NO.: 2364389241

REQUIRED TURNAROUND* [ ] SAME DAY [ ] 24 HOURS [ ] 48 HOURS [ ] 72 HOURS [ ] 5 DAYS [ ] 10 DAYS [ ] ROUTINE OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: [signature]	10/24/96	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: R.C.C.	TIME 1435	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Michelle Weatherford	10/25/96	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: CORE	TIME 0925	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

CORE LAB

CORE LABORATORIES, INC.

No. 11612

CHAIN OF CUSTODY RECORD

Fedex 2364389226
COC 001165/001164

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: MORRISON KNUDSEN CORP	PROJECT NAME/NUMBER: 4324-0013 OLFBARIN
SEND REPORT TO: ALAN FOSDICK	BILLING INFORMATION
ADDRESS: 1500 West 3rd St.	BILL TO:
Cleveland, OH 44113-1406	ADDRESS:
PHONE: 800 334 3081	PHONE:
FAX: 216 523 5201	FAX: PO NO.:

LAB JOB NO. 963051

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST 418.1								REMARKS / PRECAUTIONS
19BES097	STK PL#5	11/4/96	09:30	Soil	4oz	N/A	1	X								Temp 2.6°C
19BES098	STK PL#5	11/4/96	09:45	Soil	4oz	N/A	1	X								
19BES098DUP	STK PL#5	11/4/96	09:45	Soil	4oz	N/A	1	X								
19BES099	STK PL#5	11/4/96	09:55	Soil	4oz	N/A	1	X								
19BES100	STK PL#5	11/4/96	10:05	Soil	4oz	N/A	1	X								
19BES100DUP	STK PL#5	11/4/96	10:05	Soil	4oz	N/A	1	X								
19BES101	STK PL#5	11/4/96	10:10	Soil	4oz	N/A	1	X								
19BES102	STK PL#6	11/4/96	10:55	Soil	4oz	N/A	1	X								
19BES103	STK PL#6	11/4/96	11:05	Soil	4oz	N/A	1	X								
19BES104	STK PL#6	11/4/96	11:10	Soil	4oz	N/A	1	X								

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND:* ☐ SAME DAY ☒ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE OTHER 24 hr TAT

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: [signature]	11/4/96	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: GENE BLANK K.C.C.	TIME 1400	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Michelle Weatherford	11/5/96	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: CORE	TIME 0900	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

RUSH TURNAROUND MAY REQUIRE SURCHARGE

☐ **Anaheim, CA** 1250 E. Gene Autry Way Anaheim, CA 92805 (714) 937-1094 Fax (714) 937-1170

☐ **Aurora, CO** 10703 E. Bethany Drive Aurora, CO 80014 (303) 751-1780 Fax (303) 751-1784

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☐ **Houston, TX (Pet)** 8210 Mosley Road Houston, TX 77075 (713) 943-9776 Fax (713) 943-3846

☐ **Indianapolis, IN** 7726 Moller Road Indianapolis, IN 46268 (317) 875-5894 Fax (317) 872-6189

☐ **Lake Charles, LA** 3645 Beglis Parkway Sulphur, LA 70663 (318) 583-4926 Fax (318) 583-4929

☐ **Long Beach, CA** 3700 Cherry Avenue Long Beach, CA 90807 (310) 595-8401 Fax (310) 427-5174

☐ **Tampa, FL** 5460 Beaumont Center Blvd. Tampa, FL 33634 (813)884-8268 Fax (813) 885-4938

☐ **Valparaiso, IN** 2400 Cumberland Drive Valparaiso, IN 46383 (219) 464-2389 Fax (219) 462-2953

ORIGINAL

CORE LAB

CORE LABORATORIES, INC.

No. 17673

CHAIN OF CUSTODY RECORD

Fedex ~~263~~ 2364389226
COC 001164/001165

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: MORRISON KNUDSEN CORP	PROJECT NAME/NUMBER: 4324-0013 OLF BARIN
SEND REPORT TO: ALAN FOSDICK	BILLING INFORMATION
ADDRESS: 1500 West 3rd St.	BILL TO:
Cleveland, OH 44113-1406	ADDRESS:
PHONE: 800 334 3081	PHONE:
FAX: 216 523 5201	FAX: PO NO.:

LAB JOB NO. 963051

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST: 418.1								REMARKS / PRECAUTIONS
19BES104MS	STKPL#6	11/4/96	11:10	Soil	4oz	—	1	X								
19BES105	STKPL#6	11/4/96	11:15	Soil	4oz	—	1	X								
19BES107	STKPL#6	11/4/96	13:05	Soil	4oz	—	1	X								
19BES108	STKPL#6	11/4/96	13:10	Soil	4oz	—	1	X								
19BES108MS	STKPL#6	11/4/96	13:16	Soil	4oz	—	1	X								
19BES106	STKPL#6	11/4/96	11:25	Soil	4oz	—	1	X								
19BES109	STKPL#7	11/4/96	13:35	Soil	4oz	—	1	X								
19BES110	STKPL#7	11/4/96	13:40	Soil	4oz	—	1	X								
19BES111	STKPL#7	11/4/96	13:50	Soil	4oz	—	1	X								
~~19BES114~~	~~Trip Blank~~	~~11/4/96~~	—	~~Soil~~	~~4oz~~	—	~~1~~	~~X~~								

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* [ ] SAME DAY [X] 24 HOURS [ ] 48 HOURS [ ] 72 HOURS [ ] 5 DAYS [ ] 10 DAYS [ ] ROUTINE OTHER 24hr TAT

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: [signature]	11/4/96	SIGNATURE: [signature]	11/4/96	SIGNATURE:	
PRINTED NAME/COMPANY: GENE BLANC K.C.C.	TIME 1450	PRINTED NAME/COMPANY: MORRISON KNUDSEN	TIME 1530	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: [signature]	11/4/96	SIGNATURE: Michelle Weatherford	11/5/96	SIGNATURE:	
PRINTED NAME/COMPANY: MORRISON KNUDSEN	TIME 1450	PRINTED NAME/COMPANY: CORE	TIME 0900	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

- [ ] Anaheim, CA — 1250 E. Gene Autry Way, Anaheim, CA 92805, (714) 937-1094 Fax (714) 937-1170
- [ ] Aurora, CO — 10703 E. Bethany Drive, Aurora, CO 80014, (303) 751-1780 Fax (303) 751-1784
- [ ] Casper, WY — 420 W. First Street, Casper, WY 82601, (307) 235-5741 Fax (307) 266-1676
- [ ] Corpus Christi, TX — 1733 N. Padre Island Drive, Corpus Christi, TX 78408, (512) 289-2673 Fax (512) 289-2471
- [ ] Edison, NJ — 284 Raritan Center Parkway, Edison, NJ 08837, (908) 225-6700 Fax (908) 225-6777
- [ ] Houston, TX (Env) — 6310 Rothway Drive, Houston, TX 77040, (713) 690-4444 Fax (713) 690-5646
- [ ] Houston, TX (Pet) — 8210 Mosley Road, Houston, TX 77075, (713) 943-9776 Fax (713) 943-3848
- [ ] Indianapolis, IN — 7726 Moller Road, Indianapolis, IN 46268, (317) 875-5894 Fax (317) 872-6189
- [ ] Lake Charles, LA — 3645 Beglis Parkway, Sulphur, LA 70663, (318) 583-4926 Fax (318) 583-4929
- [ ] Long Beach, CA — 3700 Cherry Avenue, Long Beach, CA 90807, (310) 595-8401 Fax (310) 427-5174
- [ ] Tampa, FL — 5460 Beaumont Center Blvd., Tampa, FL 33634, (813)884-8268 Fax (813) 885-4938
- [ ] Valparaiso, IN — 3 Cumberland Drive, Valparaiso, IN 46383, (219) 464-2389 Fax (219) 462-2953

CORE LAB

CORE LABORATORIES, INC.

No 77675

CHAIN OF CUSTODY RECORD

CS - 001166/001167

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: MORRISON KNUDSEN CORP	PROJECT NAME/NUMBER: 9324-0013 OLFBARIN
SEND REPORT TO: ALAN FOSDICK	BILLING INFORMATION
ADDRESS: 1506 West 3rd St	BILL TO: PO# 1F6-1324-2773
Cleveland, OH 44113-1906	ADDRESS:
PHONE: 800 334 3081	PHONE:
FAX: 216 523 5201	FAX: PO NO.

LAB JOB NO. 963065

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST: 418.1	REMARKS / PRECAUTIONS
F19BES113	STKPL N19BE	11/5/96	13:55	Soil	402	—	1	X	temp 4.6°C
F19BES114	STKPL N19BE	11/5/96	14:00	Soil	402	—	1	X	
F19BES115	STKPL N19BE	11/5/96	14:05	Soil	402	—	1	X	
F19BES115	DUP STKPL N19BE	11/5/96	14:05	SOIL	402	—	1	X	
F19BES112	STKPL NE 19BE	11/5/96	13:45	Soil	402	—	1	X	
F19BES112	MS STKPL NE19BE	11/5/96	13:45	SOIL	402	—	1	X	
F19BES116	STKPL S 19BE	11/5/96	14:20	SOIL	402	—	1	X	
F19BES117	STKPL S 19BE	11/5/96	14:25	SOIL	402	—	1	X	
F19BES117	DUP STKPL S19BE	11/5/96	14:25	SOIL	402	—	1	X	
F19BES118	STKPL S 19BE	11/5/96	14:35	SOIL	40L	—	1	X	

SAMPLER: Kemron

SHIPMENT METHOD: Fedex

AIRBILL NO.: 2364389215

REQUIRED TURNAROUND:* [ ] SAME DAY [ ] 24 HOURS [X] 48 HOURS [ ] 72 HOURS [ ] 5 DAYS [ ] 10 DAYS [ ] ROUTINE OTHER 48hr TAT

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: [signature]	11/5/96	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: K.C.L. GENE BLACK	TIME 1615	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Michelle Weathington-Ford	11/6/96	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY:	TIME 0945	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

☐ **Anaheim, CA** 1250 E. Gene Autry Way Anaheim, CA 92805 (714) 937-1094 Fax (714) 937-1170

☐ **Aurora, CO** 10703 E. Bethany Drive Aurora, CO 80014 (303) 751-1780 Fax (303) 751-1784

☐ **Casper, WY** 420 W. First Street Casper, WY 82601 (307) 235-5741 Fax (307) 266-1676

☐ **Corpus Christi, TX** 1733 N. Padre Island Drive Corpus Christi, TX 78408 (512) 289-2673 Fax (512) 289-2471

☐ **Edison, NJ** 284 Raritan Center Parkway Edison, NJ 08837 (908) 225-6700 Fax (908) 225-6777

☐ **Houston, TX (Env)** 6310 Rothway Drive Houston, TX 77040 (713) 690-4444 Fax (713) 690-5646

☐ **Houston, TX (Pet)** 8210 Mosley Road Houston, TX 77075 (713) 943-9776 Fax (713) 943-3846

☐ **Indianapolis, IN** 7726 Moller Road Indianapolis, IN 46268 (317) 875-5894 Fax (317) 872-6189

☐ **Lake Charles, LA** 3645 Beglis Parkway Sulphur, LA 70663 (318) 583-4926 Fax (318) 583-4929

☐ **Long Beach, CA** 3700 Cherry Avenue Long Beach, CA 90807 (310) 595-8401 Fax (310) 427-5174

☐ **Tampa, FL** 5460 Beaumont Center Blvd. Tampa, FL 33634 (813)884-8268 Fax (813) 885-4938

☐ **Valparaiso, IN** 2400 Cumberland Drive Valparaiso, IN 46383 (219) 464-2389 Fax (219) 462-2953

MORRISON KNUDSEN CORPORATION

Fedex 2364389204

CHAIN OF CUSTODY RECORD

CS-001202/001168

963076

720 Park Blvd., P.O. Box 73
Boise, Idaho 83729
(208) 386-5000

Project No.: 4324-0013

Project Name: OLF BARIN

Samplers: (Signature) Steve Cosgrove

Sampler: (Print) Steve Cosgrove

Split Samples

Analysis Required

Sample Type	Sampling Point Description	Sample Date	Time	Sample I.D. Number	Split Samples Yes	Split Samples No	1311 TCLP	8240 Volatiles	6010 RCRA metals	7470 Merc	8270 Semi Vols	9045 pH	1010 Flashpt	9095 paint filter	Remarks
Sludge	FRAC TANK SLUDGE	11/6/96	0730	OLFTKS119		X	X	X	X	X	X	X	X	X	

5 day TAT
MK Contact Alan Fordick
(800) 334-3081 phone #
(216) 523-5201 fax #

Temp 3.5°C

Relinquished By: (Signature) / Company:	Date/Time	Received By: (Signature) / Company:	Relinquished By: (Signature) / Company:	Date/Time	Received By: (Signature) / Company:
Steve Cosgrove / MK	11/6/96 1510	Michelle Lizarde / CORE Lab Inc			
Relinquished By: (Signature) / Company:	Date/Time	Received By: (Signature) / Company:	Relinquished By: (Signature) / Company:	Date/Time	Received By: (Signature) / Company:
	11/7/96 0905	Michelle Lizarde / CORE Lab			
Relinquished By: (Signature) / Company:	Date/Time	Received By: (Signature) / Company:	Received for Laboratory By: (Signature) / Company:	Date/Time	Total No. Samples This Shipping Container: / Company:
Relinquished By: (Signature) / Company:	Date/Time	Received By: (Signature) / Company:	Relinquished By: (Signature) / Company:	Date/Time	Received By: (Signature) / Company:

APPENDIX E
LABORATORY ANALYTICAL DATA

CORE LABORATORIES

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 962529 | Date: 10/08/96

CUSTOMER: Morrison Knudsen Corporation | PROJECT: 4324-013/NOLF BARIN | ATTN: Dylan Carelli

Customer Sample ID: 19W/T2
Date Sampled.....: 09/12/96
Time Sampled.....: 15:05
Sample Matrix.....: Water

Laboratory Sample ID: 962529-1
Date Received.....: 09/13/96
Time Received.....: 07:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 3010	Acid Digestion, Total Metals	Complete					09/20/96	lmt
SW-846 6010A	Arsenic (As), Total	<0.04	U		0.04	mg/L	09/20/96	gag
SW-846 6010A	Barium (Ba), Total	0.0195		E	0.0002	mg/L	09/20/96	gag
SW-846 6010A	Cadmium (Cd), Total	0.032			0.003	mg/L	09/20/96	gag
SW-846 6010A	Chromium (Cr), Total	<0.005	U		0.005	mg/L	09/20/96	gag
SW-846 6010A	Lead (Pb), Total	1.08			0.03	mg/L	09/20/96	gag
SW-846 7470	Mercury (Hg), Total	0.0004	B		0.0002	mg/L	09/20/96	lmt
[illegible]846 6010A	Selenium (Se), Total	<0.09	U		0.09	mg/L	09/20/96	gag
[illegible]-846 6010A	Silver (Ag), Total	<0.002	U		0.002	mg/L	09/20/96	gag
SW-846 9040	Corrosivity (pH-Liquids), Unfilt	8.1			0.1	pH Units	09/19/96	lmt
SW-846 1010	Ignitability (Flashpoint)	>197			1	Degrees F	09/16/96	lmt
SW-846 8260	Volatile Organics							
	Benzene	210			5	ug/L	09/19/96	tdw
	Bromobenzene	ND	U		5	ug/L	09/19/96	tdw
	Bromochloromethane	ND	U		5	ug/L	09/19/96	tdw
	Bromodichloromethane	ND	U		5	ug/L	09/19/96	tdw
	Bromoform	ND	U		5	ug/L	09/19/96	tdw
	Bromomethane	ND	U		10	ug/L	09/19/96	tdw
	n-Butylbenzene	ND	U		5	ug/L	09/19/96	tdw
	sec-Butylbenzene	ND	U		5	ug/L	09/19/96	tdw
	tert-Butylbenzene	ND	U		5	ug/L	09/19/96	tdw
	Carbon tetrachloride	ND	U		5	ug/L	09/19/96	tdw
	Chlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	Chloroethane	ND	U		10	ug/L	09/19/96	tdw
	Chloroform	ND	U		5	ug/L	09/19/96	tdw
	Chloromethane	ND	U		10	ug/L	09/19/96	tdw
	o-Chlorotoluene	ND	U		5	ug/L	09/19/96	tdw
	p-Chlorotoluene	ND	U		5	ug/L	09/19/96	tdw
	Dibromochloromethane	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dibromo-3-chloropropane	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dibromoethane (EDB)	ND	U		5	ug/L	09/19/96	tdw
	Dibromomethane	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dichlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	1,3-Dichlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	1,4-Dichlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	Dichlorodifluoromethane	ND	U		5	ug/L	09/19/96	tdw
	1,1-Dichloroethane	ND	U		5	ug/L	09/19/96	tdw

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962529 Date: 10/08/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-013/NOLF BARIN ATTN: Dylan Carelli

Customer Sample ID: 19W/T2
Date Sampled.....: 09/12/96
Time Sampled.....: 15:05
Sample Matrix.....: Water

Laboratory Sample ID: 962529-1
Date Received.....: 09/13/96
Time Received.....: 07:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
	1,2-Dichloroethane	ND	U		5	ug/L	09/19/96	tdw
	1,1-Dichloroethene	ND	U		5	ug/L	09/19/96	tdw
	cis-1,2-Dichloroethene	ND	U		5	ug/L	09/19/96	tdw
	trans-1,2-Dichloroethene	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dichloropropane	ND	U		5	ug/L	09/19/96	tdw
	1,3-Dichloropropane	ND	U		5	ug/L	09/19/96	tdw
	2,2-Dichloropropane	ND	U		5	ug/L	09/19/96	tdw
	1,1-Dichloropropene	ND	U		5	ug/L	09/19/96	tdw
	Ethylbenzene	120			5	ug/L	09/19/96	tdw
	Hexachlorobutadiene	ND	U		5	ug/L	09/19/96	tdw
	Isopropylbenzene	20			5	ug/L	09/19/96	tdw
	p-Isopropyltoluene	14			5	ug/L	09/19/96	tdw
	Methylene chloride	ND	U		5	ug/L	09/19/96	tdw
	Naphthalene	720			50	ug/L	09/20/96	tdw
	n-Propylbenzene	28			5	ug/L	09/19/96	tdw
	Styrene	ND	U		5	ug/L	09/19/96	
	1,1,1,2-Tetrachloroethane	ND	U		5	ug/L	09/19/96	
	1,1,2,2-Tetrachloroethane	ND	U		5	ug/L	09/19/96	tdw
	Tetrachloroethene	ND	U		5	ug/L	09/19/96	tdw
	Toluene	550		Y	20	ug/L	09/19/96	tdw
	1,2,3-Trichlorobenzene	ND	U	Y	5	ug/L	09/19/96	tdw
	1,2,4-Trichlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	1,1,1-Trichloroethane	ND	U		5	ug/L	09/19/96	tdw
	1,1,2-Trichloroethane	ND	U		5	ug/L	09/19/96	tdw
	Trichloroethene	ND	U		5	ug/L	09/19/96	tdw
	Trichlorofluoromethane	ND	U		5	ug/L	09/19/96	tdw
	1,2,4-Trimethylbenzene	390			20	ug/L	09/19/96	tdw
	1,3,5-Trimethylbenzene	150			5	ug/L	09/19/96	tdw
	1,2,3-Trichloropropane	ND	U		5	ug/L	09/19/96	tdw
	Vinyl chloride	ND	U		10	ug/L	09/19/96	tdw
	Xylenes (total)	970			20	ug/L	09/19/96	tdw

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962529 Date: 10/08/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-013/NOLF BARIN ATTN: Dylan Carelli

Customer Sample ID: 19W/T1
Date Sampled.....: 09/12/96
Time Sampled.....: 15:15
Sample Matrix.....: Water

Laboratory Sample ID: 962529-2
Date Received.....: 09/13/96
Time Received.....: 07:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 3010	Acid Digestion, Total Metals	Complete					09/20/96	lmt
SW-846 6010A	Arsenic (As), Total	<0.04	U		0.04	mg/L	09/20/96	gag
SW-846 6010A	Barium (Ba), Total	0.0075	B	E	0.0002	mg/L	09/20/96	gag
SW-846 6010A	Cadmium (Cd), Total	<0.003	U		0.003	mg/L	09/20/96	gag
SW-846 6010A	Chromium (Cr), Total	<0.005	U		0.005	mg/L	09/20/96	gag
SW-846 6010A	Lead (Pb), Total	0.12			0.03	mg/L	09/20/96	gag
SW-846 7470	Mercury (Hg), Total	<0.0002	U		0.0002	mg/L	09/20/96	lmt
-846 6010A	Selenium (Se), Total	<0.09	U		0.09	mg/L	09/20/96	gag
846 6010A	Silver (Ag), Total	0.003	B		0.002	mg/L	09/20/96	gag
SW-846 9040	Corrosivity (pH-Liquids), Unfilt	8.3			0.1	pH Units	09/19/96	lmt
SW-846 1010	Ignitability (Flashpoint)	>197			1	Degrees F	09/16/96	lmt
SW-846 8260	Volatile Organics							
	Benzene	36			1	ug/L	09/19/96	tdw
	Bromobenzene	ND	U		5	ug/L	09/19/96	tdw
	Bromochloromethane	ND	U		5	ug/L	09/19/96	tdw
	Bromodichloromethane	ND	U		5	ug/L	09/19/96	tdw
	Bromoform	ND	U		5	ug/L	09/19/96	tdw
	Bromomethane	ND	U		10	ug/L	09/19/96	tdw
	n-Butylbenzene	6.4			5	ug/L	09/19/96	tdw
	sec-Butylbenzene	ND	U		5	ug/L	09/19/96	tdw
	tert-Butylbenzene	ND	U		5	ug/L	09/19/96	tdw
	Carbon tetrachloride	ND	U		5	ug/L	09/19/96	tdw
	Chlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	Chloroethane	ND	U		10	ug/L	09/19/96	tdw
	Chloroform	ND	U		5	ug/L	09/19/96	tdw
	Chloromethane	ND	U		10	ug/L	09/19/96	tdw
	o-Chlorotoluene	ND	U		5	ug/L	09/19/96	tdw
	p-Chlorotoluene	ND	U		5	ug/L	09/19/96	tdw
	Dibromochloromethane	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dibromo-3-chloropropane	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dibromoethane (EDB)	ND	U		5	ug/L	09/19/96	tdw
	Dibromomethane	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dichlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	1,3-Dichlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	1,4-Dichlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	Dichlorodifluoromethane	ND	U		5	ug/L	09/19/96	tdw
	1,1-Dichloroethane	ND	U		5	ug/L	09/19/96	tdw

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962529 Date: 10/08/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-013/NOLF BARIN ATTN: Dylan Carelli

Customer Sample ID: 19W/T1
Date Sampled.....: 09/12/96
Time Sampled.....: 15:15
Sample Matrix.....: Water

Laboratory Sample ID: 962529-2
Date Received.....: 09/13/96
Time Received.....: 07:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
	1,2-Dichloroethane	ND	U		5	ug/L	09/19/96	tdw
	1,1-Dichloroethene	ND	U		5	ug/L	09/19/96	tdw
	cis-1,2-Dichloroethene	ND	U		5	ug/L	09/19/96	tdw
	trans-1,2-Dichloroethene	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dichloropropane	ND	U		5	ug/L	09/19/96	tdw
	1,3-Dichloropropane	ND	U		5	ug/L	09/19/96	tdw
	2,2-Dichloropropane	ND	U		5	ug/L	09/19/96	tdw
	1,1-Dichloropropene	ND	U		5	ug/L	09/19/96	tdw
	Ethylbenzene	30			5	ug/L	09/19/96	tdw
	Hexachlorobutadiene	ND	U		5	ug/L	09/19/96	tdw
	Isopropylbenzene	8.7			5	ug/L	09/19/96	tdw
	p-Isopropyltoluene	13			5	ug/L	09/19/96	tdw
	Methylene chloride	ND	U		5	ug/L	09/19/96	tdw
	Naphthalene	900			50	ug/L	09/20/96	tdw
	n-Propylbenzene	12			5	ug/L	09/19/96	tdw
	Styrene	ND	U		5	ug/L	09/19/96	[illegible]
	1,1,1,2-Tetrachloroethane	ND	U		5	ug/L	09/19/96	
	1,1,2,2-Tetrachloroethane	ND	U		5	ug/L	09/19/96	tdw
	Tetrachloroethene	ND	U		5	ug/L	09/19/96	tdw
	Toluene	170		Y	5	ug/L	09/19/96	tdw
	1,2,3-Trichlorobenzene	ND	U	Y	5	ug/L	09/19/96	tdw
	1,2,4-Trichlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	1,1,1-Trichloroethane	ND	U		5	ug/L	09/19/96	tdw
	1,1,2-Trichloroethane	ND	U		5	ug/L	09/19/96	tdw
	Trichloroethene	ND	U		5	ug/L	09/19/96	tdw
	Trichlorofluoromethane	ND	U		5	ug/L	09/19/96	tdw
	1,2,4-Trimethylbenzene	300			20	ug/L	09/19/96	tdw
	1,3,5-Trimethylbenzene	110			5	ug/L	09/19/96	tdw
	1,2,3-Trichloropropane	ND	U		5	ug/L	09/19/96	tdw
	Vinyl chloride	ND	U		10	ug/L	09/19/96	tdw
	Xylenes (total)	540			5	ug/L	09/19/96	tdw

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962529 Date: 10/08/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-013/NOLF BARIN ATTN: Dylan Carelli

Customer Sample ID: 19E/T3
Date Sampled.....: 09/12/96
Time Sampled.....: 15:45
Sample Matrix.....: Water

Laboratory Sample ID: 962529-3
Date Received.....: 09/13/96
Time Received.....: 07:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8260	Volatile Organics							
	Benzene	1000			50	ug/L	09/19/96	tdw
	Bromobenzene	ND	U		5	ug/L	09/19/96	tdw
	Bromochloromethane	ND	U		5	ug/L	09/19/96	tdw
	Bromodichloromethane	ND	U		5	ug/L	09/19/96	tdw
	Bromoform	ND	U		5	ug/L	09/19/96	tdw
	Bromomethane	ND	U		10	ug/L	09/19/96	tdw
	n-Butylbenzene	ND	U		5	ug/L	09/19/96	tdw
	sec-Butylbenzene	ND	U		5	ug/L	09/19/96	tdw
	tert-Butylbenzene	ND	U		5	ug/L	09/19/96	tdw
	Carbon tetrachloride	ND	U		5	ug/L	09/19/96	tdw
	Chlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	Chloroethane	ND	U		10	ug/L	09/19/96	tdw
	Chloroform	ND	U		5	ug/L	09/19/96	tdw
	Chloromethane	ND	U		10	ug/L	09/19/96	tdw
	o-Chlorotoluene	ND	U		5	ug/L	09/19/96	tdw
	p-Chlorotoluene	ND	U		5	ug/L	09/19/96	tdw
	Dibromochloromethane	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dibromo-3-chloropropane	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dibromoethane (EDB)	ND	U		5	ug/L	09/19/96	tdw
	Dibromomethane	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dichlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	1,3-Dichlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	1,4-Dichlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	Dichlorodifluoromethane	ND	U		5	ug/L	09/19/96	tdw
	1,1-Dichloroethane	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dichloroethane	ND	U		5	ug/L	09/19/96	tdw
	1,1-Dichloroethene	ND	U		5	ug/L	09/19/96	tdw
	cis-1,2-Dichloroethene	ND	U		5	ug/L	09/19/96	tdw
	trans-1,2-Dichloroethene	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dichloropropane	ND	U		5	ug/L	09/19/96	tdw
	1,3-Dichloropropane	ND	U		5	ug/L	09/19/96	tdw
	2,2-Dichloropropane	ND	U		5	ug/L	09/19/96	tdw
	1,1-Dichloropropene	ND	U		5	ug/L	09/19/96	tdw
	Ethylbenzene	210			20	ug/L	09/19/96	tdw
	Hexachlorobutadiene	ND	U		5	ug/L	09/19/96	tdw
	Isopropylbenzene	15			5	ug/L	09/19/96	tdw
	p-Isopropyltoluene	ND	U		5	ug/L	09/19/96	tdw
	Methylene chloride	ND	U		5	ug/L	09/19/96	tdw
	Naphthalene	470			50	ug/L	09/20/96	tdw
	n-Propylbenzene	14			5	ug/L	09/19/96	tdw
	Styrene	ND	U		5	ug/L	09/19/96	tdw
	1,1,1,2-Tetrachloroethane	ND	U		5	ug/L	09/19/96	tdw
	1,1,2,2-Tetrachloroethane	ND	U		5	ug/L	09/19/96	tdw
	Tetrachloroethene	ND	U		5	ug/L	09/19/96	tdw
	Toluene	2200		Y	200	ug/L	09/19/96	tdw
	1,2,3-Trichlorobenzene	ND	U	Y	5	ug/L	09/19/96	tdw
	1,2,4-Trichlorobenzene	ND	U		5	ug/L	09/19/96	tdw

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962529

Date: 10/08/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-013/NOLF BARIN

ATTN: Dylan Carelli

Customer Sample ID: 19E/T3
Date Sampled.....: 09/12/96
Time Sampled.....: 15:45
Sample Matrix.....: Water

Laboratory Sample ID: 962529-3
Date Received.....: 09/13/96
Time Received.....: 07:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
	1,1,1-Trichloroethane	ND	U		5	ug/L	09/19/96	tdw
	1,1,2-Trichloroethane	ND	U		5	ug/L	09/19/96	tdw
	Trichloroethene	ND	U		5	ug/L	09/19/96	tdw
	Trichlorofluoromethane	ND	U		5	ug/L	09/19/96	tdw
	1,2,4-Trimethylbenzene	150			5	ug/L	09/19/96	tdw
	1,3,5-Trimethylbenzene	60			5	ug/L	09/19/96	tdw
	1,2,3-Trichloropropane	ND	U		5	ug/L	09/19/96	tdw
	Vinyl chloride	ND	U		10	ug/L	09/19/96	tdw
	Xylenes (total)	840			20	ug/L	09/19/96	tdw

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962529 Date: 10/08/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-013/NOLF BARIN ATTN: Dylan Carelli

Customer Sample ID: 24B/D1
Date Sampled.....: 09/12/96
Time Sampled.....: 16:10
Sample Matrix.....: Soil

Laboratory Sample ID: 962529-4
Date Received.....: 09/13/96
Time Received.....: 07:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	87.8			0.1	%	09/19/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	12.2			0.1	%	09/19/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	9600			460	mg/Kg	09/24/96	jbd
SW-846 1311	TCLP Glass Jar Extraction	Complete					09/19/96	lmt
SW-846 1311	TCLP Zero Head Space (ZHE) Extraction	Complete					09/17/96	lmt
SW-846 6010A	TCLP Metals Analysis (ICAP)							
	Arsenic (As)	<0.04	U		0.04	mg/L	09/20/96	gag
	Barium (Ba)	0.477	B		0.0002	mg/L	09/20/96	gag
	Cadmium (Cd)	<0.003	U		0.003	mg/L	09/20/96	gag
	Chromium (Cr)	0.009	B		0.005	mg/L	09/20/96	gag
	Lead (Pb)	<0.03	U		0.03	mg/L	09/20/96	gag
	Selenium (Se)	<0.09	U		0.09	mg/L	09/20/96	gag
	Silver (Ag)	<0.002	U		0.002	mg/L	09/20/96	gag
SW-846 7470	TCLP Mercury (CVAA)							
	Mercury (Hg)	<0.001	U		0.001	mg/L	09/20/96	lmt
SW-846 3550	Extraction (Ultrasonic) PCBs							
	Ultrasonic Extraction	Complete					09/23/96	jbd
SW-846 8080	PCB Analysis							
	Aroclor 1016, Solid	ND	U		19	ug/Kg	09/24/96	smc
	Aroclor 1221, Solid	ND	U		19	ug/Kg	09/24/96	smc
	Aroclor 1232, Solid	ND	U		19	ug/Kg	09/24/96	smc
	Aroclor 1242, Solid	ND	U		19	ug/Kg	09/24/96	smc
	Aroclor 1248, Solid	ND	U		19	ug/Kg	09/24/96	smc
	Aroclor 1254, Solid	ND	U	Y	19	ug/Kg	09/24/96	smc
	Aroclor 1260, Solid	ND	U		19	ug/Kg	09/24/96	smc
	Aroclor 1262, Solid	ND	U		19	ug/Kg	09/24/96	smc
	Aroclor 1268, Solid	ND	U		19	ug/Kg	09/24/96	smc
SW-846 3510B	Extraction (Sep. Funnel) TCLP SVOC							
	Separatory Funnel Liq/Liq Extraction	Complete					09/19/96	vdt
SW-846 8270	Semivolatile Organics (TCLP)							
	1,4-Dichlorobenzene	ND	U		100	ug/L	09/23/96	mla
	2,4-Dinitrotoluene	ND	U		100	ug/L	09/23/96	mla
	Hexachlorobenzene	ND	U		100	ug/L	09/23/96	mla
	Hexachlorobutadiene	ND	U		100	ug/L	09/23/96	mla
	Hexachloroethane	ND	U		100	ug/L	09/23/96	mla
	Nitrobenzene	ND	U		100	ug/L	09/23/96	mla
	Pyridine	ND	U		100	ug/L	09/23/96	mla
	2-Methylphenol (o-cresol)	ND	U		100	ug/L	09/23/96	mla

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962529 Date: 10/08/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-013/NOLF BARIN ATTN: Dylan Carelli

Customer Sample ID: 24B/D1
Date Sampled.....: 09/12/96
Time Sampled.....: 16:10
Sample Matrix.....: Soil

Laboratory Sample ID: 962529-4
Date Received.....: 09/13/96
Time Received.....: 07:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
	3 & 4 Methylphenol (m&p cresol)	ND	U		100	ug/L	09/23/96	mla
	Pentachlorophenol	ND	U		500	ug/L	09/23/96	mla
	2,4,5-Trichlorophenol	ND	U		100	ug/L	09/23/96	mla
	2,4,6-Trichlorophenol	ND	U		100	ug/L	09/23/96	mla
SW-846 8240	Volatile Organics (TCLP)							
	Benzene	ND	U		10	ug/L	09/19/96	tdw
	Carbon tetrachloride	ND	U		50	ug/L	09/19/96	tdw
	Chlorobenzene	ND	U		50	ug/L	09/19/96	tdw
	Chloroform	ND	U		50	ug/L	09/19/96	tdw
	1,2-Dichloroethane	ND	U		50	ug/L	09/19/96	tdw
	1,1-Dichloroethene	ND	U		50	ug/L	09/19/96	tdw
	Methyl ethyl ketone (2-Butanone)	ND	U	Y	1000	ug/L	09/19/96	tdw
	Tetrachloroethene	ND	U		50	ug/L	09/19/96	tdw
	Trichloroethene	ND	U		50	ug/L	09/19/96	tdw
	Vinyl chloride	ND	U		100	ug/L	09/19/96	
SW-846 1311	TCLP Glass Jar Physical Characterization							
	% Solids	100			0.5	%	09/19/96	lmt
	% Liquid	<0.5			0.5	%	09/19/96	lmt
	% Aqueous - Extract	100			0.5	%	09/19/96	lmt
	% Non-aqueous - Extract	<0.5			0.5	%	09/19/96	lmt
	Density Of Extract	1.0			0.1	Kg/L	09/19/96	lmt
SW-846 1311	TCLP ZHE Physical Characterization							
	% Solids	100			0.5	%	09/17/96	lmt
	% Liquid	<0.5			0.5	%	09/17/96	lmt
	% Aqueous - Extract	100			0.5	%	09/17/96	lmt
	% Non-aqueous - Extract	<0.5			0.5	%	09/17/96	lmt
	Density Of Extract	1.0			0.1	Kg/L	09/17/96	lmt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962529 Date: 10/08/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-013/NOLF BARIN ATTN: Dylan Carelli

Customer Sample ID: 24B/D2
Date Sampled.....: 09/12/96
Time Sampled.....: 16:13
Sample Matrix.....: Soil

Laboratory Sample ID: 962529-5
Date Received.....: 09/13/96
Time Received.....: 07:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	86.6			0.1	%	09/19/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	13.4			0.1	%	09/19/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	4200			230	mg/Kg	09/24/96	jbd
SW-846 1311	TCLP Glass Jar Extraction	Complete					09/19/96	lmt
SW-846 1311	TCLP Zero Head Space (ZHE) Extraction	Complete					09/17/96	lmt
SW-846 6010A	TCLP Metals Analysis (ICAP)							
	Arsenic (As)	<0.04	U		0.04	mg/L	09/20/96	gag
	Barium (Ba)	0.252	B		0.0002	mg/L	09/20/96	gag
	Cadmium (Cd)	<0.003	U		0.003	mg/L	09/20/96	gag
	Chromium (Cr)	0.008	B		0.005	mg/L	09/20/96	gag
	Lead (Pb)	<0.03	U		0.03	mg/L	09/20/96	gag
	Selenium (Se)	<0.09	U		0.09	mg/L	09/20/96	gag
	Silver (Ag)	<0.002	U		0.002	mg/L	09/20/96	gag
SW-846 7470	TCLP Mercury (CVAA)							
	Mercury (Hg)	<0.001	U		0.001	mg/L	09/20/96	lmt
SW-846 3550	Extraction (Ultrasonic) PCBs							
	Ultrasonic Extraction	Complete					09/23/96	jbd
SW-846 8080	PCB Analysis							
	Aroclor 1016, Solid	ND	U		20	ug/Kg	09/24/96	smc
	Aroclor 1221, Solid	ND	U		20	ug/Kg	09/24/96	smc
	Aroclor 1232, Solid	ND	U		20	ug/Kg	09/24/96	smc
	Aroclor 1242, Solid	ND	U		20	ug/Kg	09/24/96	smc
	Aroclor 1248, Solid	ND	U		20	ug/Kg	09/24/96	smc
	Aroclor 1254, Solid	ND	U	Y	20	ug/Kg	09/24/96	smc
	Aroclor 1260, Solid	ND	U		20	ug/Kg	09/24/96	smc
	Aroclor 1262, Solid	ND	U		20	ug/Kg	09/24/96	smc
	Aroclor 1268, Solid	ND	U		20	ug/Kg	09/24/96	smc
SW-846 3510B	Extraction (Sep. Funnel) TCLP SVOC							
	Separatory Funnel Liq/Liq Extraction	Complete					09/19/96	vdt
SW-846 8270	Semivolatile Organics (TCLP)							
	1,4-Dichlorobenzene	ND	U		100	ug/L	09/23/96	mla
	2,4-Dinitrotoluene	ND	U		100	ug/L	09/23/96	mla
	Hexachlorobenzene	ND	U		100	ug/L	09/23/96	mla
	Hexachlorobutadiene	ND	U		100	ug/L	09/23/96	mla
	Hexachloroethane	ND	U		100	ug/L	09/23/96	mla
	Nitrobenzene	ND	U		100	ug/L	09/23/96	mla
	Pyridine	ND	U		100	ug/L	09/23/96	mla
	2-Methylphenol (o-cresol)	ND	U		100	ug/L	09/23/96	mla

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962529 Date: 10/08/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-013/NOLF BARIN ATTN: Dylan Carelli

Customer Sample ID: 24B/D2
Date Sampled.....: 09/12/96
Time Sampled.....: 16:13
Sample Matrix.....: Soil

Laboratory Sample ID: 962529-5
Date Received.....: 09/13/96
Time Received.....: 07:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
	3 & 4 Methylphenol (m&p cresol)	ND	U		100	ug/L	09/23/96	mla
	Pentachlorophenol	ND	U		500	ug/L	09/23/96	mla
	2,4,5-Trichlorophenol	ND	U		100	ug/L	09/23/96	mla
	2,4,6-Trichlorophenol	ND	U		100	ug/L	09/23/96	mla
SW-846 8240	Volatile Organics (TCLP)							
	Benzene	ND	U		10	ug/L	09/19/96	tdw
	Carbon tetrachloride	ND	U		50	ug/L	09/19/96	tdw
	Chlorobenzene	ND	U		50	ug/L	09/19/96	tdw
	Chloroform	ND	U		50	ug/L	09/19/96	tdw
	1,2-Dichloroethane	ND	U		50	ug/L	09/19/96	tdw
	1,1-Dichloroethene	ND	U		50	ug/L	09/19/96	tdw
	Methyl ethyl ketone (2-Butanone)	ND	U	Y	1000	ug/L	09/19/96	tdw
	Tetrachloroethene	ND	U		50	ug/L	09/19/96	tdw
	Trichloroethene	ND	U		50	ug/L	09/19/96	tdw
	Vinyl chloride	ND	U		100	ug/L	09/19/96	[illegible]
SW-846 1311	TCLP Glass Jar Physical Characterization							
	% Solids	100			0.5	%	09/19/96	lmt
	% Liquid	<0.5			0.5	%	09/19/96	lmt
	% Aqueous - Extract	100			0.5	%	09/19/96	lmt
	% Non-aqueous - Extract	<0.5			0.5	%	09/19/96	lmt
	Density Of Extract	1.0			0.1	Kg/L	09/19/96	lmt
SW-846 1311	TCLP ZHE Physical Characterization							
	% Solids	100			0.5	%	09/17/96	lmt
	% Liquid	<0.5			0.5	%	09/17/96	lmt
	% Aqueous - Extract	100			0.5	%	09/17/96	lmt
	% Non-aqueous - Extract	<0.5			0.5	%	09/17/96	lmt
	Density Of Extract	1.0			0.1	Kg/L	09/17/96	lmt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962529 Date: 10/08/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-013/NOLF BARIN ATTN: Dylan Carelli

Customer Sample ID: 24B/D3
Date Sampled.....: 09/12/96
Time Sampled.....: 16:18
Sample Matrix.....: Soil

Laboratory Sample ID: 962529-6
Date Received.....: 09/13/96
Time Received.....: 07:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	88.8			0.1	%	09/19/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	11.2			0.1	%	09/19/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	420			11	mg/Kg	09/24/96	jbd
SW-846 1311	TCLP Glass Jar Extraction	Complete					09/19/96	lmt
SW-846 1311	TCLP Zero Head Space (ZHE) Extraction	Complete					09/17/96	lmt
SW-846 6010A	TCLP Metals Analysis (ICAP)							
	Arsenic (As)	<0.04	U		0.04	mg/L	09/20/96	gag
	Barium (Ba)	0.180	B		0.0002	mg/L	09/20/96	gag
	Cadmium (Cd)	<0.003	U		0.003	mg/L	09/20/96	gag
	Chromium (Cr)	0.009	B		0.005	mg/L	09/20/96	gag
	Lead (Pb)	<0.03	U		0.03	mg/L	09/20/96	gag
	Selenium (Se)	<0.09	U		0.09	mg/L	09/20/96	gag
	Silver (Ag)	<0.002	U		0.002	mg/L	09/20/96	gag
SW-846 7470	TCLP Mercury (CVAA)							
	Mercury (Hg)	<0.001	U		0.001	mg/L	09/20/96	lmt
SW-846 3550	Extraction (Ultrasonic) PCBs							
	Ultrasonic Extraction	Complete					09/23/96	jbd
SW-846 8080	PCB Analysis							
	Aroclor 1016, Solid	ND	U		19	ug/Kg	09/24/96	smc
	Aroclor 1221, Solid	ND	U		19	ug/Kg	09/24/96	smc
	Aroclor 1232, Solid	ND	U		19	ug/Kg	09/24/96	smc
	Aroclor 1242, Solid	ND	U		19	ug/Kg	09/24/96	smc
	Aroclor 1248, Solid	ND	U		19	ug/Kg	09/24/96	smc
	Aroclor 1254, Solid	ND	U	Y	19	ug/Kg	09/24/96	smc
	Aroclor 1260, Solid	ND	U		19	ug/Kg	09/24/96	smc
	Aroclor 1262, Solid	ND	U		19	ug/Kg	09/24/96	smc
	Aroclor 1268, Solid	ND	U		19	ug/Kg	09/24/96	smc
SW-846 3510B	Extraction (Sep. Funnel) TCLP SVOC							
	Separatory Funnel Liq/Liq Extraction	Complete					09/19/96	vdt
SW-846 8270	Semivolatile Organics (TCLP)							
	1,4-Dichlorobenzene	ND	U		100	ug/L	09/24/96	mla
	2,4-Dinitrotoluene	ND	U		100	ug/L	09/24/96	mla
	Hexachlorobenzene	ND	U		100	ug/L	09/24/96	mla
	Hexachlorobutadiene	ND	U		100	ug/L	09/24/96	mla
	Hexachloroethane	ND	U		100	ug/L	09/24/96	mla
	Nitrobenzene	ND	U		100	ug/L	09/24/96	mla
	Pyridine	ND	U		100	ug/L	09/24/96	mla
	2-Methylphenol (o-cresol)	ND	U		100	ug/L	09/24/96	mla

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962529 Date: 10/08/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-013/NOLF BARIN ATTN: Dylan Carelli

Customer Sample ID: 24B/D3
Date Sampled.....: 09/12/96
Time Sampled.....: 16:18
Sample Matrix.....: Soil

Laboratory Sample ID: 962529-6
Date Received.....: 09/13/96
Time Received.....: 07:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
	3 & 4 Methylphenol (m&p cresol)	ND	U		100	ug/L	09/24/96	mla
	Pentachlorophenol	ND	U		500	ug/L	09/24/96	mla
	2,4,5-Trichlorophenol	ND	U		100	ug/L	09/24/96	mla
	2,4,6-Trichlorophenol	ND	U		100	ug/L	09/24/96	mla
SW-846 8240	Volatile Organics (TCLP)							
	Benzene	ND	U		10	ug/L	09/19/96	tdw
	Carbon tetrachloride	ND	U		50	ug/L	09/19/96	tdw
	Chlorobenzene	ND	U		50	ug/L	09/19/96	tdw
	Chloroform	ND	U		50	ug/L	09/19/96	tdw
	1,2-Dichloroethane	ND	U		50	ug/L	09/19/96	tdw
	1,1-Dichloroethene	ND	U		50	ug/L	09/19/96	tdw
	Methyl ethyl ketone (2-Butanone)	ND	U	Y	1000	ug/L	09/19/96	tdw
	Tetrachloroethene	ND	U		50	ug/L	09/19/96	tdw
	Trichloroethene	ND	U		50	ug/L	09/19/96	tdw
	Vinyl chloride	ND	U		100	ug/L	09/19/96	
SW-846 1311	TCLP Glass Jar Physical Characterization							
	% Solids	100			0.5	%	09/19/96	lmt
	% Liquid	<0.5			0.5	%	09/19/96	lmt
	% Aqueous - Extract	100			0.5	%	09/19/96	lmt
	% Non-aqueous - Extract	<0.5			0.5	%	09/19/96	lmt
	Density Of Extract	1.0			0.1	Kg/L	09/19/96	lmt
SW-846 1311	TCLP ZHE Physical Characterization							
	% Solids	100			0.5	%	09/17/96	lmt
	% Liquid	<0.5			0.5	%	09/17/96	lmt
	% Aqueous - Extract	100			0.5	%	09/17/96	lmt
	% Non-aqueous - Extract	<0.5			0.5	%	09/17/96	lmt
	Density Of Extract	1.0			0.1	Kg/L	09/17/96	lmt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962529 Date: 10/08/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-013/NOLF BARIN ATTN: Dylan Carelli

Customer Sample ID: TRIP BLANK
Date Sampled.....:
Time Sampled.....:
Sample Matrix.....: Water

Laboratory Sample ID: 962529-7
Date Received.....: 09/13/96
Time Received.....: 07:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8260	Volatile Organics							
	Benzene	ND	U		1	ug/L	09/19/96	tdw
	Bromobenzene	ND	U		5	ug/L	09/19/96	tdw
	Bromochloromethane	ND	U		5	ug/L	09/19/96	tdw
	Bromodichloromethane	ND	U		5	ug/L	09/19/96	tdw
	Bromoform	ND	U		5	ug/L	09/19/96	tdw
	Bromomethane	ND	U		10	ug/L	09/19/96	tdw
	n-Butylbenzene	ND	U		5	ug/L	09/19/96	tdw
	sec-Butylbenzene	ND	U		5	ug/L	09/19/96	tdw
	tert-Butylbenzene	ND	U		5	ug/L	09/19/96	tdw
	Carbon tetrachloride	ND	U		5	ug/L	09/19/96	tdw
	Chlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	Chloroethane	ND	U		10	ug/L	09/19/96	tdw
	Chloroform	ND	U		5	ug/L	09/19/96	tdw
	Chloromethane	ND	U		10	ug/L	09/19/96	tdw
	o-Chlorotoluene	ND	U		5	ug/L	09/19/96	tdw
	p-Chlorotoluene	ND	U		5	ug/L	09/19/96	tdw
	Dibromochloromethane	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dibromo-3-chloropropane	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dibromoethane (EDB)	ND	U		5	ug/L	09/19/96	tdw
	Dibromomethane	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dichlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	1,3-Dichlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	1,4-Dichlorobenzene	ND	U		5	ug/L	09/19/96	tdw
	Dichlorodifluoromethane	ND	U		5	ug/L	09/19/96	tdw
	1,1-Dichloroethane	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dichloroethane	ND	U		5	ug/L	09/19/96	tdw
	1,1-Dichloroethene	ND	U		5	ug/L	09/19/96	tdw
	cis-1,2-Dichloroethene	ND	U		5	ug/L	09/19/96	tdw
	trans-1,2-Dichloroethene	ND	U		5	ug/L	09/19/96	tdw
	1,2-Dichloropropane	ND	U		5	ug/L	09/19/96	tdw
	1,3-Dichloropropane	ND	U		5	ug/L	09/19/96	tdw
	2,2-Dichloropropane	ND	U		5	ug/L	09/19/96	tdw
	1,1-Dichloropropene	ND	U		5	ug/L	09/19/96	tdw
	Ethylbenzene	ND	U		5	ug/L	09/19/96	tdw
	Hexachlorobutadiene	ND	U		5	ug/L	09/19/96	tdw
	Isopropylbenzene	ND	U		5	ug/L	09/19/96	tdw
	p-Isopropyltoluene	ND	U		5	ug/L	09/19/96	tdw
	Methylene chloride	ND	U		5	ug/L	09/19/96	tdw
	Naphthalene	ND	U	Y	5	ug/L	09/19/96	tdw
	n-Propylbenzene	ND	U		5	ug/L	09/19/96	tdw
	Styrene	ND	U		5	ug/L	09/19/96	tdw
	1,1,1,2-Tetrachloroethane	ND	U		5	ug/L	09/19/96	tdw
	1,1,2,2-Tetrachloroethane	ND	U		5	ug/L	09/19/96	tdw
	Tetrachloroethene	ND	U		5	ug/L	09/19/96	tdw
	Toluene	ND	U	Y	5	ug/L	09/19/96	tdw
	1,2,3-Trichlorobenzene	ND	U	Y	5	ug/L	09/19/96	tdw
	1,2,4-Trichlorobenzene	ND	U		5	ug/L	09/19/96	tdw

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962529 Date: 10/08/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-013/NOLF BARIN ATTN: Dylan Carelli

Customer Sample ID: TRIP BLANK
Date Sampled.....:
Time Sampled.....:
Sample Matrix.....: Water

Laboratory Sample ID: 962529-7
Date Received.....: 09/13/96
Time Received.....: 07:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
	1,1,1-Trichloroethane	ND	U		5	ug/L	09/19/96	tdw
	1,1,2-Trichloroethane	ND	U		5	ug/L	09/19/96	tdw
	Trichloroethene	ND	U		5	ug/L	09/19/96	tdw
	Trichlorofluoromethane	ND	U		5	ug/L	09/19/96	tdw
	1,2,4-Trimethylbenzene	ND	U		5	ug/L	09/19/96	tdw
	1,3,5-Trimethylbenzene	ND	U		5	ug/L	09/19/96	tdw
	1,2,3-Trichloropropane	ND	U		5	ug/L	09/19/96	tdw
	Vinyl chloride	ND	U		10	ug/L	09/19/96	tdw
	Xylenes (total)	ND	U		5	ug/L	09/19/96	tdw

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962729 Date: 10/14/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: OLF BARIN 4324-0013 ATTN: Allan Fosdick

Customer Sample ID: OLFTW3TC008
Date Sampled.....: 10/01/96
Time Sampled.....: 09:40
Sample Matrix.....: Water

Laboratory Sample ID: 962729-1
Date Received.....: 10/02/96
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 3010	Acid Digestion, Total Metals	Complete					10/03/96	gag
SW-846 6010A	Arsenic (As), Total	0.007	B		0.004	mg/L	10/04/96	smh
SW-846 6010A	Barium (Ba), Total	0.185			0.0004	mg/L	10/04/96	smh
SW-846 6010A	Cadmium (Cd), Total	1.81			0.0004	mg/L	10/04/96	smh
SW-846 6010A	Chromium (Cr), Total	<0.002	U		0.002	mg/L	10/04/96	smh
SW-846 6010A	Lead (Pb), Total	9.26			0.04	mg/L	10/04/96	smh
SW-846 7470	Mercury (Hg), Total	<0.0001	U		0.0001	mg/L	10/05/96	lmt
W-846 6010A	Selenium (Se), Total	<0.009	U		0.009	mg/L	10/04/96	smh
W-846 6010A	Silver (Ag), Total	<0.002	U		0.002	mg/L	10/04/96	smh
SW-846 9040	Corrosivity (pH-Liquids)	5.7			0.1	pH Units	10/03/96	lmt
SW-846 1010	Ignitability (Flashpoint)	>190			1	Degrees F	10/03/96	lmt
SW-846 8260	Volatile Organics							
	Benzene	3200		Y	20	ug/L	10/07/96	tdw
	Bromobenzene	ND	U		5	ug/L	10/04/96	tdw
	Bromochloromethane	ND	U		5	ug/L	10/04/96	tdw
	Bromodichloromethane	ND	U		5	ug/L	10/04/96	tdw
	Bromoform	ND	U		5	ug/L	10/04/96	tdw
	Bromomethane	ND	U		10	ug/L	10/04/96	tdw
	n-Butylbenzene	5.5			5	ug/L	10/04/96	tdw
	sec-Butylbenzene	ND	U		5	ug/L	10/04/96	tdw
	tert-Butylbenzene	ND	U		5	ug/L	10/04/96	tdw
	Carbon tetrachloride	ND	U		5	ug/L	10/04/96	tdw
	Chlorobenzene	ND	U	Y	5	ug/L	10/04/96	tdw
	Chloroethane	ND	U		10	ug/L	10/04/96	tdw
	Chloroform	ND	U		5	ug/L	10/04/96	tdw
	Chloromethane	ND	U		10	ug/L	10/04/96	tdw
	o-Chlorotoluene	ND	U		5	ug/L	10/04/96	tdw
	p-Chlorotoluene	ND	U		5	ug/L	10/04/96	tdw
	Dibromochloromethane	ND	U		5	ug/L	10/04/96	tdw
	1,2-Dibromo-3-chloropropane	ND	U		5	ug/L	10/04/96	tdw
	1,2-Dibromoethane (EDB)	ND	U		5	ug/L	10/04/96	tdw
	Dibromomethane	ND	U		5	ug/L	10/04/96	tdw
	1,2-Dichlorobenzene	ND	U		5	ug/L	10/04/96	tdw
	1,3-Dichlorobenzene	ND	U		5	ug/L	10/04/96	tdw
	1,4-Dichlorobenzene	ND	U		5	ug/L	10/04/96	tdw
	Dichlorodifluoromethane	ND	U		5	ug/L	10/04/96	tdw
	1,1-Dichloroethane	ND	U		5	ug/L	10/04/96	tdw

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962729 Date: 10/14/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: OLF BARIN 4324-0013 ATTN: Allan Fosdick

Customer Sample ID: OLFTW3TC008
Date Sampled.....: 10/01/96
Time Sampled.....: 09:40
Sample Matrix.....: Water

Laboratory Sample ID: 962729-1
Date Received.....: 10/02/96
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
	1,2-Dichloroethane	ND	U		5	ug/L	10/04/96	tdw
	1,1-Dichloroethene	ND	U		5	ug/L	10/04/96	tdw
	cis-1,2-Dichloroethene	16			5	ug/L	10/04/96	tdw
	trans-1,2-Dichloroethene	ND	U		5	ug/L	10/04/96	tdw
	1,2-Dichloropropane	ND	U		5	ug/L	10/04/96	tdw
	1,3-Dichloropropane	ND	U		5	ug/L	10/04/96	tdw
	2,2-Dichloropropane	ND	U		5	ug/L	10/04/96	tdw
	1,1-Dichloropropene	ND	U		5	ug/L	10/04/96	tdw
	Ethylbenzene	590			100	ug/L	10/07/96	tdw
	Hexachlorobutadiene	ND	U		5	ug/L	10/04/96	tdw
	Isopropylbenzene	28			5	ug/L	10/04/96	tdw
	p-Isopropyltoluene	10			5	ug/L	10/04/96	tdw
	Methylene chloride	25			5	ug/L	10/04/96	tdw
	Naphthalene	240			100	ug/L	10/07/96	tdw
	n-Propylbenzene	37			5	ug/L	10/04/96	tdw
	Styrene	ND	U		5	ug/L	10/04/96	tdw
	1,1,1,2-Tetrachloroethane	ND	U		5	ug/L	10/04/96	tdw
	1,1,2,2-Tetrachloroethane	ND	U		5	ug/L	10/04/96	tdw
	Tetrachloroethene	11			5	ug/L	10/04/96	tdw
	Toluene	15000			500	ug/L	10/05/96	tdw
	1,2,3-Trichlorobenzene	ND	U		5	ug/L	10/04/96	tdw
	1,2,4-Trichlorobenzene	ND	U		5	ug/L	10/04/96	tdw
	1,1,1-Trichloroethane	ND	U		5	ug/L	10/04/96	tdw
	1,1,2-Trichloroethane	ND	U		5	ug/L	10/04/96	tdw
	Trichloroethene	15		Y	5	ug/L	10/04/96	tdw
	Trichlorofluoromethane	ND	U		5	ug/L	10/04/96	tdw
	1,2,4-Trimethylbenzene	350			100	ug/L	10/07/96	tdw
	1,3,5-Trimethylbenzene	140			5	ug/L	10/04/96	tdw
	1,2,3-Trichloropropane	ND	U		5	ug/L	10/04/96	tdw
	Vinyl chloride	ND	U		10	ug/L	10/04/96	tdw
	Xylenes (total)	2200			100	ug/L	10/07/96	tdw

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962729 Date: 10/14/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: OLF BARIN 4324-0013 ATTN: Allan Fosdick

Customer Sample ID: OLFFRCTC009
Date Sampled.....: 10/01/96
Time Sampled.....: 14:30
Sample Matrix.....: Water

Laboratory Sample ID: 962729-2
Date Received.....: 10/02/96
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 3010	Acid Digestion, Total Metals	Complete					10/03/96	gag
SW-846 6010A	Arsenic (As), Total	<0.004	U		0.004	mg/L	10/04/96	smh
SW-846 6010A	Barium (Ba), Total	0.0638			0.0004	mg/L	10/04/96	smh
SW-846 6010A	Cadmium (Cd), Total	0.233			0.0004	mg/L	10/04/96	smh
SW-846 6010A	Chromium (Cr), Total	0.013			0.002	mg/L	10/04/96	smh
SW-846 6010A	Lead (Pb), Total	5.32			0.02	mg/L	10/04/96	smh
SW-846 7470	Mercury (Hg), Total	0.0002	B		0.0001	mg/L	10/05/96	lmt
SW-846 6010A	Selenium (Se), Total	<0.009	U		0.009	mg/L	10/04/96	smh
846 6010A	Silver (Ag), Total	<0.002	U		0.002	mg/L	10/04/96	smh
SW-846 9040	Corrosivity (pH-Liquids)	5.6			0.1	pH Units	10/03/96	lmt
SW-846 1010	Ignitability (Flashpoint)	87			1	Degrees F	10/03/96	lmt
SW-846 8260	Volatile Organics							
	Benzene	730		Y	100	ug/L	10/04/96	tdw
	Bromobenzene	ND	U		5	ug/L	10/04/96	tdw
	Bromochloromethane	ND	U		5	ug/L	10/04/96	tdw
	Bromodichloromethane	ND	U		5	ug/L	10/04/96	tdw
	Bromoform	ND	U		5	ug/L	10/04/96	tdw
	Bromomethane	ND	U		10	ug/L	10/04/96	tdw
	n-Butylbenzene	ND	U		5	ug/L	10/04/96	tdw
	sec-Butylbenzene	ND	U		5	ug/L	10/04/96	tdw
	tert-Butylbenzene	ND	U		5	ug/L	10/04/96	tdw
	Carbon tetrachloride	ND	U		5	ug/L	10/04/96	tdw
	Chlorobenzene	ND	U	Y	5	ug/L	10/04/96	tdw
	Chloroethane	ND	U		10	ug/L	10/04/96	tdw
	Chloroform	ND	U		5	ug/L	10/04/96	tdw
	Chloromethane	ND	U		10	ug/L	10/04/96	tdw
	o-Chlorotoluene	ND	U		5	ug/L	10/04/96	tdw
	p-Chlorotoluene	ND	U		5	ug/L	10/04/96	tdw
	Dibromochloromethane	ND	U		5	ug/L	10/04/96	tdw
	1,2-Dibromo-3-chloropropane	ND	U		5	ug/L	10/04/96	tdw
	1,2-Dibromoethane (EDB)	ND	U		5	ug/L	10/04/96	tdw
	Dibromomethane	ND	U		5	ug/L	10/04/96	tdw
	1,2-Dichlorobenzene	ND	U		5	ug/L	10/04/96	tdw
	1,3-Dichlorobenzene	ND	U		5	ug/L	10/04/96	tdw
	1,4-Dichlorobenzene	ND	U		5	ug/L	10/04/96	tdw
	Dichlorodifluoromethane	ND	U		5	ug/L	10/04/96	tdw
	1,1-Dichloroethane	ND	U		5	ug/L	10/04/96	tdw

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12/30/96

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962729 Date: 10/14/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: OLF BARIN 4324-0013 ATTN: Allan Fosdick

Customer Sample ID: OLFFRCTC009
Date Sampled.....: 10/01/96
Time Sampled.....: 14:30
Sample Matrix.....: Water

Laboratory Sample ID: 962729-2
Date Received.....: 10/02/96
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
	1,2-Dichloroethane	ND	U		5	ug/L	10/04/96	tdw
	1,1-Dichloroethene	ND	U		5	ug/L	10/04/96	tdw
	cis-1,2-Dichloroethene	ND	U		5	ug/L	10/04/96	tdw
	trans-1,2-Dichloroethene	ND	U		5	ug/L	10/04/96	tdw
	1,2-Dichloropropane	ND	U		5	ug/L	10/04/96	tdw
	1,3-Dichloropropane	ND	U		5	ug/L	10/04/96	tdw
	2,2-Dichloropropane	ND	U		5	ug/L	10/04/96	tdw
	1,1-Dichloropropene	ND	U		5	ug/L	10/04/96	tdw
	Ethylbenzene	86			5	ug/L	10/04/96	tdw
	Hexachlorobutadiene	ND	U		5	ug/L	10/04/96	tdw
	Isopropylbenzene	6.4			5	ug/L	10/04/96	tdw
	p-Isopropyltoluene	5.9			5	ug/L	10/04/96	tdw
	Methylene chloride	55			5	ug/L	10/04/96	tdw
	Naphthalene	3800			500	ug/L	10/04/96	tdw
	n-Propylbenzene	8.2			5	ug/L	10/04/96	tdw
	Styrene	ND	U		5	ug/L	10/04/96	t
	1,1,1,2-Tetrachloroethane	ND	U		5	ug/L	10/04/96	
	1,1,2,2-Tetrachloroethane	ND	U		5	ug/L	10/04/96	tdw
	Tetrachloroethene	ND	U		5	ug/L	10/04/96	tdw
	Toluene	1500			500	ug/L	10/04/96	tdw
	1,2,3-Trichlorobenzene	ND	U		5	ug/L	10/04/96	tdw
	1,2,4-Trichlorobenzene	ND	U		5	ug/L	10/04/96	tdw
	1,1,1-Trichloroethane	ND	U		5	ug/L	10/04/96	tdw
	1,1,2-Trichloroethane	ND	U		5	ug/L	10/04/96	tdw
	Trichloroethene	ND	U	Y	5	ug/L	10/04/96	tdw
	Trichlorofluoromethane	ND	U		5	ug/L	10/04/96	tdw
	1,2,4-Trimethylbenzene	150			5	ug/L	10/04/96	tdw
	1,3,5-Trimethylbenzene	54			5	ug/L	10/04/96	tdw
	1,2,3-Trichloropropane	ND	U		5	ug/L	10/04/96	tdw
	Vinyl chloride	ND	U		10	ug/L	10/04/96	tdw
	Xylenes (total)	450			5	ug/L	10/04/96	tdw

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12/30/96

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962729 Date: 10/14/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: OLF BARIN 4324-0013 ATTN: Allan Fosdick

Customer Sample ID: OLFFRCTC009 - AQUEOUS PHASE
Date Sampled.....: 10/01/96
Time Sampled.....: 14:30
Sample Matrix.....: Water

Laboratory Sample ID: 962729-4
Date Received.....: 10/02/96
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 1010	Ignitability (Flashpoint)	106			1	Degrees F	10/10/96	lmt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962729 Date: 10/14/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: OLF BARIN 4324-0013 ATTN: Allan Fosdick

Customer Sample ID: TB10016
Date Sampled.....: 10/01/96
Time Sampled.....: 00:00
Sample Matrix.....: Water

Laboratory Sample ID: 962729-3
Date Received.....: 10/02/96
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8260	Volatile Organics							
	Benzene	ND	U	Y	1	ug/L	10/04/96	tdw
	Bromobenzene	ND	U		5	ug/L	10/04/96	tdw
	Bromochloromethane	ND	U		5	ug/L	10/04/96	tdw
	Bromodichloromethane	ND	U		5	ug/L	10/04/96	tdw
	Bromoform	ND	U		5	ug/L	10/04/96	tdw
	Bromomethane	ND	U		10	ug/L	10/04/96	tdw
	n-Butylbenzene	ND	U		5	ug/L	10/04/96	tdw
	sec-Butylbenzene	ND	U		5	ug/L	10/04/96	tdw
	tert-Butylbenzene	ND	U		5	ug/L	10/04/96	tdw
	Carbon tetrachloride	ND	U		5	ug/L	10/04/96	tdw
	Chlorobenzene	ND	U	Y	5	ug/L	10/04/96	tdw
	Chloroethane	ND	U		10	ug/L	10/04/96	tdw
	Chloroform	ND	U		5	ug/L	10/04/96	tdw
	Chloromethane	ND	U		10	ug/L	10/04/96	[illegible]
	o-Chlorotoluene	ND	U		5	ug/L	10/04/96	tdw
	p-Chlorotoluene	ND	U		5	ug/L	10/04/96	tdw
	Dibromochloromethane	ND	U		5	ug/L	10/04/96	tdw
	1,2-Dibromo-3-chloropropane	ND	U		5	ug/L	10/04/96	tdw
	1,2-Dibromoethane (EDB)	ND	U		5	ug/L	10/04/96	tdw
	Dibromomethane	ND	U		5	ug/L	10/04/96	tdw
	1,2-Dichlorobenzene	ND	U		5	ug/L	10/04/96	tdw
	1,3-Dichlorobenzene	ND	U		5	ug/L	10/04/96	tdw
	1,4-Dichlorobenzene	ND	U		5	ug/L	10/04/96	tdw
	Dichlorodifluoromethane	ND	U		5	ug/L	10/04/96	tdw
	1,1-Dichloroethane	ND	U		5	ug/L	10/04/96	tdw
	1,2-Dichloroethane	ND	U		5	ug/L	10/04/96	tdw
	1,1-Dichloroethene	ND	U		5	ug/L	10/04/96	tdw
	cis-1,2-Dichloroethene	ND	U		5	ug/L	10/04/96	tdw
	trans-1,2-Dichloroethene	ND	U		5	ug/L	10/04/96	tdw
	1,2-Dichloropropane	ND	U		5	ug/L	10/04/96	tdw
	1,3-Dichloropropane	ND	U		5	ug/L	10/04/96	tdw
	2,2-Dichloropropane	ND	U		5	ug/L	10/04/96	tdw
	1,1-Dichloropropene	ND	U		5	ug/L	10/04/96	tdw
	Ethylbenzene	ND	U		5	ug/L	10/04/96	tdw
	Hexachlorobutadiene	ND	U		5	ug/L	10/04/96	tdw
	Isopropylbenzene	ND	U		5	ug/L	10/04/96	tdw
	p-Isopropyltoluene	ND	U		5	ug/L	10/04/96	tdw
	Methylene chloride	ND	U		5	ug/L	10/04/96	tdw
	Naphthalene	ND	U		5	ug/L	10/04/96	tdw
	n-Propylbenzene	ND	U		5	ug/L	10/04/96	tdw
	Styrene	ND	U		5	ug/L	10/04/96	tdw
	1,1,1,2-Tetrachloroethane	ND	U		5	ug/L	10/04/96	tdw
	1,1,2,2-Tetrachloroethane	ND	U		5	ug/L	10/04/96	tdw
	Tetrachloroethene	ND	U		5	ug/L	10/04/96	tdw
	Toluene	ND	U		5	ug/L	10/04/96	tdw
	1,2,3-Trichlorobenzene	ND	U		5	ug/L	10/04/96	tdw
	1,2,4-Trichlorobenzene	ND	U		5	ug/L	10/04/96	tdw

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962729 Date: 10/14/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: OLF BARIN 4324-0013 ATTN: Allan Fosdick

Customer Sample ID: TB10016
Date Sampled.....: 10/01/96
Time Sampled.....: 00:00
Sample Matrix.....: Water

Laboratory Sample ID: 962729-3
Date Received.....: 10/02/96
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
	1,1,1-Trichloroethane	ND	U		5	ug/L	10/04/96	tdw
	1,1,2-Trichloroethane	ND	U		5	ug/L	10/04/96	tdw
	Trichloroethene	ND	U	Y	5	ug/L	10/04/96	tdw
	Trichlorofluoromethane	ND	U		5	ug/L	10/04/96	tdw
	1,2,4-Trimethylbenzene	ND	U		5	ug/L	10/04/96	tdw
	1,3,5-Trimethylbenzene	ND	U		5	ug/L	10/04/96	tdw
	1,2,3-Trichloropropane	ND	U		5	ug/L	10/04/96	tdw
	Vinyl chloride	ND	U		10	ug/L	10/04/96	tdw
	Xylenes (total)	ND	U		5	ug/L	10/04/96	tdw

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962770 Date: 10/22/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013/OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: OLFT123ES010
Date Sampled.....: 10/04/96
Time Sampled.....: 14:35
Sample Matrix.....: Soil

Laboratory Sample ID: 962770-1
Date Received.....: 10/05/96
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	81.5			0.1	%	10/08/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	18.5			0.1	%	10/08/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	98			12	mg/Kg	10/09/96	jbd

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CORE LABORATORIES

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 962770

Date: 10/22/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013/OLF BARIN

ATTN: Dylan Carelli

Customer Sample ID: OLFT123ES011
Date Sampled.....: 10/04/96
Time Sampled.....: 14:40
Sample Matrix.....: Soil

Laboratory Sample ID: 962770-2
Date Received.....: 10/05/96
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	90.2			0.1	%	10/08/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	9.8			0.1	%	10/08/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	52			11	mg/Kg	10/09/96	jbd

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962770 Date: 10/22/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013/OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: OLFT123ES011D
Date Sampled.....: 10/04/96
Time Sampled.....: 14:40
Sample Matrix.....: Soil

Laboratory Sample ID: 962770-3
Date Received.....: 10/05/96
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	90.1			0.1	%	10/08/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	9.9			0.1	%	10/08/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	44			11	mg/Kg	10/09/96	jbd

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CORE LABORATORIES

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 962770

Date: 10/22/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013/OLF BARIN

ATTN: Dylan Carelli

Customer Sample ID: OLFT123ES012
Date Sampled.....: 10/04/96
Time Sampled.....: 14:50
Sample Matrix.....: Soil

Laboratory Sample ID: 962770-4
Date Received.....: 10/05/96
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	91.0			0.1	%	10/08/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	9.0			0.1	%	10/08/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	72			11	mg/Kg	10/09/96	jbd

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962770 Date: 10/22/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013/OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: OLFT123ES013
Date Sampled.....: 10/04/96
Time Sampled.....: 15:05
Sample Matrix.....: Soil

Laboratory Sample ID: 962770-5
Date Received.....: 10/05/96
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	91.2			0.1	%	10/08/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	8.8			0.1	%	10/08/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	30			11	mg/Kg	10/09/96	jbd
SW-846 9045	Corrosivity (pH Solid)	6.6			0.1	pH Units	10/08/96	lmt
SW846 7-7.1.2.2	Ignitability	neg				Pos/Neg	10/08/96	lmt
SW846 7.3/9010	Reactivity, Cyanide	<10			10	mg/Kg	10/11/96	lmt
SW846 7.3/9030	Reactivity, Sulfide	<0.5			10	mg/Kg	10/14/96	lmt
SW-846 1311	TCLP Glass Jar Extraction	Complete					10/10/96	lmt
SW-846 1311	TCLP Zero Head Space (ZHE) Extraction	Complete					10/10/96	
SW-846 6010A	TCLP Metals Analysis (ICAP)							
	Arsenic (As)	<0.004	U		0.004	mg/L	10/14/96	gag
	Barium (Ba)	0.110	B		0.0004	mg/L	10/14/96	gag
	Cadmium (Cd)	0.0032	B		0.0004	mg/L	10/14/96	gag
	Chromium (Cr)	<0.002	U		0.002	mg/L	10/14/96	gag
	Lead (Pb)	0.016	B		0.004	mg/L	10/14/96	gag
	Selenium (Se)	<0.009	U		0.009	mg/L	10/14/96	gag
	Silver (Ag)	<0.002	U		0.002	mg/L	10/14/96	gag
SW-846 7470	TCLP Mercury (CVAA)							
	Mercury (Hg)	0.002	B		0.001	mg/L	10/11/96	lmt
SW-846 3510B	Extraction (Sep. Funnel) TCLP Pest.							
	Separatory Funnel Liq/Liq Extraction	Complete					10/10/96	jbd
SW-846 8080	TCLP Pesticides							
	Chlordane	ND	U		1.4	ug/L	10/16/96	smc
	Endrin	ND	U		0.6	ug/L	10/16/96	smc
	Heptachlor	ND	U		0.3	ug/L	10/16/96	smc
	Heptachlor epoxide	ND	U		8.3	ug/L	10/16/96	smc
	gamma-BHC (Lindane)	ND	U		0.4	ug/L	10/16/96	smc
	Methoxychlor	ND	U		18.0	ug/L	10/16/96	smc
	Toxaphene	ND	U		24.0	ug/L	10/16/96	smc
SW-846 3510B	Extraction (Sep. Funnel) TCLP SVOC							
	Separatory Funnel Liq/Liq Extraction	Complete					10/11/96	jbd
SW-846 8270	Semivolatile Organics (TCLP)							
	1,4-Dichlorobenzene	ND	U		100	ug/L	10/15/96	dmj
	2,4-Dinitrotoluene	ND	U		100	ug/L	10/15/96	dmj

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962770 Date: 10/22/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013/OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: OLFT123ES013
Date Sampled.....: 10/04/96
Time Sampled.....: 15:05
Sample Matrix.....: Soil

Laboratory Sample ID: 962770-5
Date Received.....: 10/05/96
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
	Hexachlorobenzene	ND	U		100	ug/L	10/15/96	dmj
	Hexachlorobutadiene	ND	U		100	ug/L	10/15/96	dmj
	Hexachloroethane	ND	U		100	ug/L	10/15/96	dmj
	Nitrobenzene	ND	U		100	ug/L	10/15/96	dmj
	Pyridine	ND	U		100	ug/L	10/15/96	dmj
	2-Methylphenol (o-cresol)	ND	U		100	ug/L	10/15/96	dmj
	3 & 4 Methylphenol (m&p cresol)	ND	U		100	ug/L	10/15/96	dmj
	Pentachlorophenol	ND	U		500	ug/L	10/15/96	dmj
	2,4,5-Trichlorophenol	ND	U		100	ug/L	10/15/96	dmj
	2,4,6-Trichlorophenol	ND	U		100	ug/L	10/15/96	dmj
SW-846 8240	Volatile Organics (TCLP)							
	Benzene	ND	U		10	ug/L	10/11/96	tdw
	Carbon tetrachloride	ND	U		50	ug/L	10/11/96	tdw
	Chlorobenzene	ND	U		50	ug/L	10/11/96	tdw
	Chloroform	ND	U		50	ug/L	10/11/96	tdw
	1,4-Dichlorobenzene	ND	U		50	ug/L	10/11/96	tdw
	1,1-Dichloroethane	ND	U		50	ug/L	10/11/96	tdw
	1,2-Dichloroethane	ND	U		50	ug/L	10/11/96	tdw
	1,2-Dichloropropane	ND	U		50	ug/L	10/11/96	tdw
	1,1-Dichloroethene	ND	U		50	ug/L	10/11/96	tdw
	cis-1,2-Dichloroethene	ND	U		50	ug/L	10/11/96	tdw
	Methyl ethyl ketone (2-Butanone)	ND	U		1000	ug/L	10/11/96	tdw
	Tetrachloroethene	ND	U		50	ug/L	10/11/96	tdw
	1,1,1-Trichloroethane	ND	U		50	ug/L	10/11/96	tdw
	Trichloroethene	ND	U		50	ug/L	10/11/96	tdw
	Trichlorofluoromethane	ND	U		50	ug/L	10/11/96	tdw
	Vinyl chloride	ND	U		100	ug/L	10/11/96	tdw
SW-846 1311	TCLP Glass Jar Physical Characterization							
	% Solids	100			0.5	%	10/10/96	lmt
	% Liquid	<0.5			0.5	%	10/10/96	lmt
	% Aqueous - Extract	100			0.5	%	10/10/96	lmt
	% Non-aqueous - Extract	<0.5			0.5	%	10/10/96	lmt
	Density Of Extract	1.0			0.1	Kg/L	10/10/96	lmt
SW-846 1311	TCLP ZHE Physical Characterization							
	% Solids	100			0.5	%	10/10/96	lmt
	% Liquid	<0.5			0.5	%	10/10/96	lmt
	% Aqueous - Extract	100			0.5	%	10/10/96	lmt
	% Non-aqueous - Extract	<0.5			0.5	%	10/10/96	lmt
	Density Of Extract	1.0			0.1	Kg/L	10/10/96	lmt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962770 Date: 10/22/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013/OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: OLFT123ES013D
Date Sampled.....: 10/04/96
Time Sampled.....: 15:05
Sample Matrix.....: Soil

Laboratory Sample ID: 962770-6
Date Received.....: 10/05/96
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	90.7			0.1	%	10/08/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	9.3			0.1	%	10/08/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	30			11	mg/Kg	10/09/96	jbd
SW-846 9045	Corrosivity (pH Solid)	6.3			0.1	pH Units	10/08/96	lmt
SW846 7-7.1.2.2	Ignitability	neg				Pos/Neg	10/08/96	lmt
SW846 7.3/9010	Reactivity, Cyanide	<10			10	mg/Kg	10/11/96	lmt
SW846 7.3/9030	Reactivity, Sulfide	<0.5			10	mg/Kg	10/14/96	lmt
SW-846 1311	TCLP Glass Jar Extraction	Complete					10/10/96	lmt
SW-846 1311	TCLP Zero Head Space (ZHE) Extraction	Complete					10/10/96	
SW-846 6010A	TCLP Metals Analysis (ICAP)							
	Arsenic (As)	<0.004	U		0.004	mg/L	10/14/96	gag
	Barium (Ba)	0.177	B		0.0004	mg/L	10/14/96	gag
	Cadmium (Cd)	0.0073	B		0.0004	mg/L	10/14/96	gag
	Chromium (Cr)	<0.002	U		0.002	mg/L	10/14/96	gag
	Lead (Pb)	0.051			0.004	mg/L	10/14/96	gag
	Selenium (Se)	0.012	B		0.009	mg/L	10/14/96	gag
	Silver (Ag)	0.003	B		0.002	mg/L	10/14/96	gag
SW-846 7470	TCLP Mercury (CVAA)							
	Mercury (Hg)	0.006			0.001	mg/L	10/11/96	lmt
SW-846 3510B	Extraction (Sep. Funnel) TCLP Pest.							
	Separatory Funnel Liq/Liq Extraction	Complete					10/10/96	jbd
SW-846 8080	TCLP Pesticides							
	Chlordane	ND	U		1.4	ug/L	10/16/96	smc
	Endrin	ND	U		0.6	ug/L	10/16/96	smc
	Heptachlor	ND	U		0.3	ug/L	10/16/96	smc
	Heptachlor epoxide	ND	U		8.3	ug/L	10/16/96	smc
	gamma-BHC (Lindane)	ND	U		0.4	ug/L	10/16/96	smc
	Methoxychlor	ND	U		18.0	ug/L	10/16/96	smc
	Toxaphene	ND	U		24.0	ug/L	10/16/96	smc
SW-846 3510B	Extraction (Sep. Funnel) TCLP SVOC							
	Separatory Funnel Liq/Liq Extraction	Complete					10/11/96	jbd
SW-846 8270	Semivolatile Organics (TCLP)							
	1,4-Dichlorobenzene	ND	U		100	ug/L	10/15/96	dmj
	2,4-Dinitrotoluene	ND	U		100	ug/L	10/15/96	dmj

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962770 Date: 10/22/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013/OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: OLFT123ES013D
Date Sampled.....: 10/04/96
Time Sampled.....: 15:05
Sample Matrix.....: Soil

Laboratory Sample ID: 962770-6
Date Received.....: 10/05/96
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
	Hexachlorobenzene	ND	U		100	ug/L	10/15/96	dmj
	Hexachlorobutadiene	ND	U		100	ug/L	10/15/96	dmj
	Hexachloroethane	ND	U		100	ug/L	10/15/96	dmj
	Nitrobenzene	ND	U		100	ug/L	10/15/96	dmj
	Pyridine	ND	U		100	ug/L	10/15/96	dmj
	2-Methylphenol (o-cresol)	ND	U		100	ug/L	10/15/96	dmj
	3 & 4 Methylphenol (m&p cresol)	ND	U		100	ug/L	10/15/96	dmj
	Pentachlorophenol	ND	U		500	ug/L	10/15/96	dmj
	2,4,5-Trichlorophenol	ND	U		100	ug/L	10/15/96	dmj
	2,4,6-Trichlorophenol	ND	U		100	ug/L	10/15/96	dmj
SW-846 8240	Volatile Organics (TCLP)							
	Benzene	ND	U		10	ug/L	10/11/96	tdw
	Carbon tetrachloride	ND	U		50	ug/L	10/11/96	tdw
	Chlorobenzene	ND	U		50	ug/L	10/11/96	tdw
	Chloroform	ND	U		50	ug/L	10/11/96	tdw
	1,4-Dichlorobenzene	ND	U		50	ug/L	10/11/96	tdw
	1,1-Dichloroethane	ND	U		50	ug/L	10/11/96	tdw
	1,2-Dichloroethane	ND	U		50	ug/L	10/11/96	tdw
	1,2-Dichloropropane	ND	U		50	ug/L	10/11/96	tdw
	1,1-Dichloroethene	ND	U		50	ug/L	10/11/96	tdw
	cis-1,2-Dichloroethene	ND	U		50	ug/L	10/11/96	tdw
	Methyl ethyl ketone (2-Butanone)	ND	U		1000	ug/L	10/11/96	tdw
	Tetrachloroethene	ND	U		50	ug/L	10/11/96	tdw
	1,1,1-Trichloroethane	ND	U		50	ug/L	10/11/96	tdw
	Trichloroethene	ND	U		50	ug/L	10/11/96	tdw
	Trichlorofluoromethane	ND	U		50	ug/L	10/11/96	tdw
	Vinyl chloride	ND	U		100	ug/L	10/11/96	tdw
SW-846 1311	TCLP Glass Jar Physical Characterization							
	% Solids	100			0.5	%	10/10/96	lmt
	% Liquid	<0.5			0.5	%	10/10/96	lmt
	% Aqueous - Extract	100			0.5	%	10/10/96	lmt
	% Non-aqueous - Extract	<0.5			0.5	%	10/10/96	lmt
	Density Of Extract	1.0			0.1	Kg/L	10/10/96	lmt
SW-846 1311	TCLP ZHE Physical Characterization							
	% Solids	100			0.5	%	10/10/96	lmt
	% Liquid	<0.5			0.5	%	10/10/96	lmt
	% Aqueous - Extract	100			0.5	%	10/10/96	lmt
	% Non-aqueous - Extract	<0.5			0.5	%	10/10/96	lmt
	Density Of Extract	1.0			0.1	Kg/L	10/10/96	lmt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962770

Date: 10/22/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013/OLF BARIN

ATTN: Dylan Carelli

Customer Sample ID: OLFT123ES014
Date Sampled.....: 10/04/96
Time Sampled.....: 15:40
Sample Matrix.....: Soil

Laboratory Sample ID: 962770-7
Date Received.....: 10/05/96
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	90.0			0.1	%	10/08/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	10.0			0.1	%	10/08/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	27			11	mg/Kg	10/09/96	jbd

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962770 Date: 10/22/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013/OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: OLFT123ES015
Date Sampled.....: 10/04/96
Time Sampled.....: 15:50
Sample Matrix.....: Soil

Laboratory Sample ID: 962770-8
Date Received.....: 10/05/96
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	90.8			0.1	%	10/08/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	9.2			0.1	%	10/08/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	35			11	mg/Kg	10/09/96	jbd

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962770

Date: 10/22/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013/OLF BARIN

ATTN: Dylan Carelli

Customer Sample ID: OLFT123ES016
Date Sampled.....: 10/04/96
Time Sampled.....: 15:55
Sample Matrix.....: Soil

Laboratory Sample ID: 962770-9
Date Received.....: 10/05/96
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	91.2			0.1	%	10/08/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	8.8			0.1	%	10/08/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	30			11	mg/Kg	10/09/96	jbd

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962770 Date: 10/22/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013/OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: OLFT123ES017
Date Sampled.....: 10/04/96
Time Sampled.....: 16:00
Sample Matrix.....: Soil

Laboratory Sample ID: 962770-10
Date Received.....: 10/05/96
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	81.2			0.1	%	10/08/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	18.8			0.1	%	10/08/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	34			12	mg/Kg	10/09/96	jbd

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962770 Date: 10/22/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013/OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: OLFT123ES017D
Date Sampled.....: 10/04/96
Time Sampled.....: 16:00
Sample Matrix.....: Soil

Laboratory Sample ID: 962770-11
Date Received.....: 10/05/96
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	91.2			0.1	%	10/08/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	8.8			0.1	%	10/08/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	36			11	mg/Kg	10/09/96	jbd

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962770 Date: 10/22/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013/OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: TB10046
Date Sampled.....: 10/04/96
Time Sampled.....: 16:20
Sample Matrix.....: Water

Laboratory Sample ID: 962770-12
Date Received.....: 10/05/96
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 1311	TCLP Zero Head Space (ZHE) Extraction	Complete					10/11/96	lmt
SW-846 8240	Volatile Organics (TCLP)							
	Benzene	ND	U		10	ug/L	10/14/96	tdw
	Carbon tetrachloride	ND	U		50	ug/L	10/14/96	tdw
	Chlorobenzene	ND	U		50	ug/L	10/14/96	tdw
	Chloroform	ND	U		50	ug/L	10/14/96	tdw
	1,4-Dichlorobenzene	ND	U		50	ug/L	10/14/96	tdw
	1,1-Dichloroethane	ND	U		50	ug/L	10/14/96	tdw
	1,2-Dichloroethane	ND	U		50	ug/L	10/14/96	tdw
	1,2-Dichloropropane	ND	U		50	ug/L	10/14/96	tdw
	1,1-Dichloroethene	ND	U		50	ug/L	10/14/96	tdw
	cis-1,2-Dichloroethene	ND	U		50	ug/L	10/14/96	tdw
	Methyl ethyl ketone (2-Butanone)	ND	U		1000	ug/L	10/14/96	tdw
	Tetrachloroethene	ND	U		50	ug/L	10/14/96	tdw
	1,1,1-Trichloroethane	ND	U		50	ug/L	10/14/96	tdw
	Trichloroethene	ND	U		50	ug/L	10/14/96	tdw
	Trichlorofluoromethane	ND	U		50	ug/L	10/14/96	tdw
	Vinyl chloride	ND	U		100	ug/L	10/14/96	tdw
SW-846 1311	TCLP ZHE Physical Characterization							
	% Solids	<0.5			0.5	%	10/11/96	lmt
	% Liquid	100			0.5	%	10/11/96	lmt
	% Aqueous - Extract	100			0.5	%	10/11/96	lmt
	% Non-aqueous - Extract	<0.5			0.5	%	10/11/96	lmt
	Density Of Extract	1.0			0.1	Kg/L	10/11/96	lmt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962875 Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLF BARIN ATTN: Allan Fosdick

Customer Sample ID: OLFT456ES023
Date Sampled.....: 10/15/96
Time Sampled.....: 15:31
Sample Matrix.....: Soil

Laboratory Sample ID: 962875-1
Date Received.....: 10/17/96
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	92.0			0.1	%	10/17/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	8.0			0.1	%	10/17/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	24			11	mg/Kg	10/18/96	jbd

[illegible]

CORE LABORATORIES

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 962875

Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLF BARIN

ATTN: Allan Fosdick

Customer Sample ID: OLFT456ES023D (DUPLICATE)
Date Sampled.....: 10/15/96
Time Sampled.....: 15:33
Sample Matrix.....: Soil

Laboratory Sample ID: 962875-2
Date Received.....: 10/17/96
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	91.6			0.1	%	10/17/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	8.4			0.1	%	10/17/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	31			11	mg/Kg	10/18/96	jbd

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962875 Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLF BARIN ATTN: Allan Fosdick

Customer Sample ID: OLFT456ES024
Date Sampled.....: 10/15/96
Time Sampled.....: 15:41
Sample Matrix.....: Soil

Laboratory Sample ID: 962875-3
Date Received.....: 10/17/96
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	92.4			0.1	%	10/17/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	7.6			0.1	%	10/17/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	33			11	mg/Kg	10/18/96	jbd

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962875 Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLF BARIN ATTN: Allan Fosdick

Customer Sample ID: OLFT456ES025
Date Sampled.....: 10/15/96
Time Sampled.....: 15:46
Sample Matrix.....: Soil

Laboratory Sample ID: 962875-4
Date Received.....: 10/17/96
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	90.4			0.1	%	10/17/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	9.6			0.1	%	10/17/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	19			11	mg/Kg	10/18/96	jbd

[illegible]

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962875 Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLF BARIN ATTN: Allan Fosdick

Customer Sample ID: OLFT456ES026
Date Sampled.....: 10/15/96
Time Sampled.....: 15:50
Sample Matrix.....: Soil

Laboratory Sample ID: 962875-5
Date Received.....: 10/17/96
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	89.9			0.1	%	10/17/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	10.1			0.1	%	10/17/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	26			11	mg/Kg	10/18/96	jbd

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962875

Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLF BARIN

ATTN: Allan Fosdick

Customer Sample ID: OLFT456ES027
Date Sampled.....: 10/15/96
Time Sampled.....: 15:56
Sample Matrix.....: Soil

Laboratory Sample ID: 962875-6
Date Received.....: 10/17/96
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	90.5			0.1	%	10/17/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	9.5			0.1	%	10/17/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	25			11	mg/Kg	10/18/96	jbd

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962875

Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLF BARIN

ATTN: Allan Fosdick

Customer Sample ID: OLFT456ES028
Date Sampled.....: 10/16/96
Time Sampled.....: 08:00
Sample Matrix.....: Soil

Laboratory Sample ID: 962875-8
Date Received.....: 10/17/96
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	91.9			0.1	%	10/17/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	8.1			0.1	%	10/17/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	25			11	mg/Kg	10/18/96	jbd

[illegible]

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962967

Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLF BARIN

ATTN: Dylan Carelli

Customer Sample ID: OLF ES 054
Date Sampled.....: 10/23/96
Time Sampled.....: 14:45
Sample Matrix.....: Soil

Laboratory Sample ID: 962967-1
Date Received.....: 10/25/96
Time Received.....: 09:25

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	90.8			0.1	%	10/25/96	rwm
SM 2540G	Moisture (@ 104 deg. C)	9.2			0.1	%	10/25/96	rwm
EPA 418.1	Total Recoverable Petroleum Hydrocarbo	180			1	mg/L	10/25/96	jbd

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962967 Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: OLF ES 054DUP (DUPLICATE)
Date Sampled.....: 10/23/96
Time Sampled.....: 14:45
Sample Matrix.....: Soil

Laboratory Sample ID: 962967-2
Date Received.....: 10/25/96
Time Received.....: 09:25

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	91.0			0.1	%	10/25/96	rwm
SM 2540G	Moisture (@ 104 deg. C)	9.0			0.1	%	10/25/96	rwm
EPA 418.1	Total Recoverable Petroleum Hydrocarbo	170			1	mg/L	10/25/96	jbd

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 962967

Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLF BARIN

ATTN: Dylan Carelli

Customer Sample ID: OLF ES 055
Date Sampled.....: 10/23/96
Time Sampled.....: 14:55
Sample Matrix.....: Soil

Laboratory Sample ID: 962967-3
Date Received.....: 10/25/96
Time Received.....: 09:25

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	91.3			0.1	%	10/25/96	rwm
SM 2540G	Moisture (@ 104 deg. C)	8.7			0.1	%	10/25/96	rwm
EPA 418.1	Total Recoverable Petroleum Hydrocarbo	3700			30	mg/L	10/25/96	jbd

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LABORATORY TEST RESULTS

Job Number: 962967 Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: OLF ES 056
Date Sampled.....: 10/23/96
Time Sampled.....: 15:00
Sample Matrix.....: Soil

Laboratory Sample ID: 962967-4
Date Received.....: 10/25/96
Time Received.....: 09:25

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	91.4			0.1	%	10/25/96	rwm
SM 2540G	Moisture (@ 104 deg. C)	8.6			0.1	%	10/25/96	rwm
EPA 418.1	Total Recoverable Petroleum Hydrocarbo	230			1	mg/L	10/25/96	jbd

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LABORATORY TEST RESULTS

Job Number: 962967

Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLF BARIN

ATTN: Dylan Carelli

Customer Sample ID: OLF ES 057
Date Sampled.....: 10/23/96
Time Sampled.....: 15:10
Sample Matrix.....: Soil

Laboratory Sample ID: 962967-6
Date Received.....: 10/25/96
Time Received.....: 09:25

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	92.4			0.1	%	10/25/96	rwm
SM 2540G	Moisture (@ 104 deg. C)	7.6			0.1	%	10/25/96	rwm
EPA 418.1	Total Recoverable Petroleum Hydrocarbo	2400			10	mg/L	10/25/96	jbd

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LABORATORY TEST RESULTS

Job Number: 962967

Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLF BARIN

ATTN: Dylan Carelli

Customer Sample ID: OLF ES 058
Date Sampled.....: 10/23/96
Time Sampled.....: 15:38
Sample Matrix.....: Soil

Laboratory Sample ID: 962967-7
Date Received.....: 10/25/96
Time Received.....: 09:25

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	91.1			0.1	%	10/25/96	rwm
SM 2540G	Moisture (@ 104 deg. C)	8.9			0.1	%	10/25/96	rwm
EPA 418.1	Total Recoverable Petroleum Hydrocarbo	150			1	mg/L	10/25/96	jbd

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LABORATORY TEST RESULTS

Job Number: 962967

Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLF BARIN

ATTN: Dylan Carelli

Customer Sample ID: OLF ES 059
Date Sampled.....: 10/23/96
Time Sampled.....: 15:40
Sample Matrix.....: Soil

Laboratory Sample ID: 962967-8
Date Received.....: 10/25/96
Time Received.....: 09:25

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	92.2			0.1	%	10/25/96	rwm
SM 2540G	Moisture (@ 104 deg. C)	7.8			0.1	%	10/25/96	rwm
EPA 418.1	Total Recoverable Petroleum Hydrocarbo	130			1	mg/L	10/25/96	jbd

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LABORATORY TEST RESULTS

Job Number: 962967

Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLF BARIN

ATTN: Dylan Carelli

Customer Sample ID: OLF ES 060
Date Sampled.....: 10/23/96
Time Sampled.....: 15:43
Sample Matrix.....: Soil

Laboratory Sample ID: 962967-9
Date Received.....: 10/25/96
Time Received.....: 09:25

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	93.3			0.1	%	10/25/96	rwm
SM 2540G	Moisture (@ 104 deg. C)	6.7			0.1	%	10/25/96	rwm
EPA 418.1	Total Recoverable Petroleum Hydrocarbo	54			1	mg/L	10/25/96	jbd

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LABORATORY TEST RESULTS

Job Number: 962967 Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: OLF ES 061
Date Sampled.....: 10/23/96
Time Sampled.....: 15:45
Sample Matrix.....: Soil

Laboratory Sample ID: 962967-10
Date Received.....: 10/25/96
Time Received.....: 09:25

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	93.6			0.1	%	10/25/96	rwm
SM 2540G	Moisture (@ 104 deg. C)	6.4			0.1	%	10/25/96	rwm
EPA 418.1	Total Recoverable Petroleum Hydrocarbo	33			1	mg/L	10/25/96	jbd

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LABORATORY TEST RESULTS

Job Number: 962967 Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: OLF ES 061DUP (DUPLICATE)
Date Sampled.....: 10/23/96
Time Sampled.....: 15:45
Sample Matrix.....: Soil

Laboratory Sample ID: 962967-11
Date Received.....: 10/25/96
Time Received.....: 09:25

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	93.4			0.1	%	10/25/96	rwm
SM 2540G	Moisture (@ 104 deg. C)	6.6			0.1	%	10/25/96	rwm
EPA 418.1	Total Recoverable Petroleum Hydrocarbo	36			1	mg/L	10/25/96	jbd

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Job Number: 962967

Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLF BARIN

ATTN: Dylan Carelli

Customer Sample ID: OLF ES 062
Date Sampled.....: 10/23/96
Time Sampled.....: 15:48
Sample Matrix.....: Soil

Laboratory Sample ID: 962967-12
Date Received.....: 10/25/96
Time Received.....: 09:25

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	92.7			0.1	%	10/25/96	rwm
SM 2540G	Moisture (@ 104 deg. C)	7.3			0.1	%	10/25/96	rwm
EPA 418.1	Total Recoverable Petroleum Hydrocarbo	30			1	mg/L	10/25/96	jbd

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LABORATORY TEST RESULTS

Job Number: 962967

Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLF BARIN

ATTN: Dylan Carelli

Customer Sample ID: OLF ES 063
Date Sampled.....: 10/23/96
Time Sampled.....: 15:50
Sample Matrix.....: Soil

Laboratory Sample ID: 962967-13
Date Received.....: 10/25/96
Time Received.....: 09:25

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	92.8			0.1	%	10/25/96	rwm
SM 2540G	Moisture (@ 104 deg. C)	7.2			0.1	%	10/25/96	rwm
EPA 418.1	Total Recoverable Petroleum Hydrocarbo	39			1	mg/L	10/25/96	jbd

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LABORATORY TEST RESULTS

Job Number: 962967 Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: OLF ES 064
Date Sampled.....: 10/23/96
Time Sampled.....: 15:53
Sample Matrix.....: Soil

Laboratory Sample ID: 962967-14
Date Received.....: 10/25/96
Time Received.....: 09:25

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	95.3			0.1	%	10/25/96	rwm
SM 2540G	Moisture (@ 104 deg. C)	4.7			0.1	%	10/25/96	rwm
EPA 418.1	Total Recoverable Petroleum Hydrocarbo	24			1	mg/L	10/25/96	jbd

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LABORATORY TEST RESULTS

Job Number: 962967 Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: OLF ES 065
Date Sampled.....: 10/23/96
Time Sampled.....: 15:55
Sample Matrix.....: Soil

Laboratory Sample ID: 962967-16
Date Received.....: 10/25/96
Time Received.....: 09:25

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	93.0			0.1	%	10/25/96	rwm
SM 2540G	Moisture (@ 104 deg. C)	7.0			0.1	%	10/25/96	rwm
EPA 418.1	Total Recoverable Petroleum Hydrocarbo	26			1	mg/L	10/25/96	jbd

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L A B O R A T O R Y T E S T R E S U L T S

Job Number: 962967 Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: OLF ES 066
Date Sampled.....: 10/24/96
Time Sampled.....: 08:45
Sample Matrix.....: Soil

Laboratory Sample ID: 962967-17
Date Received.....: 10/25/96
Time Received.....: 09:25

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	92.8			0.1	%	10/25/96	rwm
SM 2540G	Moisture (@ 104 deg. C)	7.2			0.1	%	10/25/96	rwm
EPA 418.1	Total Recoverable Petroleum Hydrocarbo	830			5	mg/L	10/25/96	jbd
SW-846 9045	Corrosivity (pH Solid)	6.8			0.1	pH Units	10/28/96	lmt
SW846 7-7.1.2.2	Ignitability	neg				Pos/Neg	10/28/96	lmt
SW846 7.3/9010	Reactivity, Cyanide	<10			10	mg/Kg	10/28/96	lmt
SW846 7.3/9030	Reactivity, Sulfide	<10			10	mg/Kg	10/28/96	lmt
SW-846 1311	TCLP Glass Jar Extraction	Complete					10/29/96	lmt
SW-846 1311	TCLP Zero Head Space (ZHE) Extraction	Complete					10/29/96	lmt
SW-846 6010A	TCLP Metals Analysis (ICAP)							
	Arsenic (As)	0.009	B		0.004	mg/L	11/01/96	smh
	Barium (Ba)	0.114	B	EY	0.0004	mg/L	11/01/96	smh
	Cadmium (Cd)	0.0013	B	Y	0.0004	mg/L	11/01/96	smh
	Chromium (Cr)	<0.002	U	Y	0.002	mg/L	11/01/96	smh
	Lead (Pb)	0.037	B	Y	0.004	mg/L	11/01/96	smh
	Selenium (Se)	<0.009	U	Y	0.009	mg/L	11/01/96	smh
	Silver (Ag)	0.004	B	Y	0.002	mg/L	11/01/96	smh
SW-846 7470	TCLP Mercury (CVAA)							
	Mercury (Hg)	0.001	B	Y	0.001	mg/L	10/31/96	lmt
SW-846 3510B	Extraction (Sep. Funnel) TCLP Pest.							
	Separatory Funnel Liq/Liq Extraction	Complete					10/29/96	rwm
SW-846 8080	TCLP Pesticides							
	Chlordane	ND	U		1.4	ug/L	11/05/96	smc
	Endrin	ND	U		0.6	ug/L	11/05/96	smc
	Heptachlor	ND	U		0.3	ug/L	11/05/96	smc
	Heptachlor epoxide	ND	U		8.3	ug/L	11/05/96	smc
	gamma-BHC (Lindane)	ND	U		0.4	ug/L	11/05/96	smc
	Methoxychlor	ND	U		18.0	ug/L	11/05/96	smc
	Toxaphene	ND	U		24.0	ug/L	11/05/96	smc
SW-846 3510B	Extraction (Sep. Funnel) TCLP SVOC							
	Separatory Funnel Liq/Liq Extraction	Complete					10/29/96	rwm
SW-846 8270	Semivolatile Organics (TCLP)							
	1,4-Dichlorobenzene	ND	U		100	ug/L	10/31/96	mla
	2,4-Dinitrotoluene	ND	U		100	ug/L	10/31/96	mla

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LABORATORY TEST RESULTS

Job Number: 962967 Date: 11/11/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLF BARIN ATTN: Dylan Carelli

Customer Sample ID: OLF ES 066
Date Sampled.....: 10/24/96
Time Sampled.....: 08:45
Sample Matrix.....: Soil

Laboratory Sample ID: 962967-17
Date Received.....: 10/25/96
Time Received.....: 09:25

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
	Hexachlorobenzene	ND	U		100	ug/L	10/31/96	mla
	Hexachlorobutadiene	ND	U		100	ug/L	10/31/96	mla
	Hexachloroethane	ND	U		100	ug/L	10/31/96	mla
	Nitrobenzene	ND	U		100	ug/L	10/31/96	mla
	Pyridine	ND	U		100	ug/L	10/31/96	mla
	2-Methylphenol (o-cresol)	ND	U		100	ug/L	10/31/96	mla
	3 & 4 Methylphenol (m&p cresol)	ND	U		100	ug/L	10/31/96	mla
	Pentachlorophenol	ND	U		500	ug/L	10/31/96	mla
	2,4,5-Trichlorophenol	ND	U		100	ug/L	10/31/96	mla
	2,4,6-Trichlorophenol	ND	U		100	ug/L	10/31/96	mla
SW-846 8240	Volatile Organics (TCLP)							
	Benzene	ND	U		10	ug/L	10/30/96	tdw
	Carbon tetrachloride	ND	U		50	ug/L	10/30/96	tdw
	Chlorobenzene	ND	U		50	ug/L	10/30/96	tdw
	Chloroform	12	J	B	50	ug/L	10/30/96	
	1,4-Dichlorobenzene	ND	U		50	ug/L	10/30/96	
	1,1-Dichloroethane	ND	U		50	ug/L	10/30/96	tdw
	1,2-Dichloroethane	ND	U		50	ug/L	10/30/96	tdw
	1,2-Dichloropropane	ND	U		50	ug/L	10/30/96	tdw
	1,1-Dichloroethene	ND	U		50	ug/L	10/30/96	tdw
	cis-1,2-Dichloroethene	ND	U		50	ug/L	10/30/96	tdw
	Methyl ethyl ketone (2-Butanone)	ND	U		1000	ug/L	10/30/96	tdw
	Tetrachloroethene	ND	U		50	ug/L	10/30/96	tdw
	1,1,1-Trichloroethane	ND	U		50	ug/L	10/30/96	tdw
	Trichloroethene	ND	U		50	ug/L	10/30/96	tdw
	Trichlorofluoromethane	ND	U		50	ug/L	10/30/96	tdw
	Vinyl chloride	ND	U		100	ug/L	10/30/96	tdw
SW-846 1311	TCLP Glass Jar Physical Characterization							
	% Solids	100			0.5	%	10/29/96	lmt
	% Liquid	<0.5			0.5	%	10/29/96	lmt
	% Aqueous - Extract	100			0.5	%	10/29/96	lmt
	% Non-aqueous - Extract	<0.5			0.5	%	10/29/96	lmt
	Density Of Extract	1.0			0.1	Kg/L	10/29/96	lmt
SW-846 1311	TCLP ZHE Physical Characterization							
	% Solids	100			0.5	%	10/29/96	lmt
	% Liquid	<0.5			0.5	%	10/29/96	lmt
	% Aqueous - Extract	100			0.5	%	10/29/96	lmt
	% Non-aqueous - Extract	<0.5			0.5	%	10/29/96	lmt
	Density Of Extract	1.0			0.1	Kg/L	10/29/96	lmt

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DSC 1/22/97

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963051 Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLFBARIN ATTN: Allan Fosdick

Customer Sample ID: OLF19BES097
Date Sampled.....: 11/04/96
Time Sampled.....: 09:30
Sample Matrix.....: Soil

Laboratory Sample ID: 963051-1
Date Received.....: 11/05/96
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	90.3			0.1	%	11/05/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	9.7			0.1	%	11/05/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	2300			110	mg/Kg	11/05/96	vdt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963051

Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLFBARIN

ATTN: Allan Fosdick

Customer Sample ID: OLF19BES098
Date Sampled.....: 11/04/96
Time Sampled.....: 09:45
Sample Matrix.....: Soil

Laboratory Sample ID: 963051-2
Date Received.....: 11/05/96
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	89.6			0.1	%	11/05/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	10.4			0.1	%	11/05/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	780			56	mg/Kg	11/05/96	vdt

CORE LABORATORIES

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 963051 Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLFBARIN ATTN: Allan Fosdick

Customer Sample ID: OLF19BES098DUP (DUPLICATE)
Date Sampled.....: 11/04/96
Time Sampled.....: 09:45
Sample Matrix.....: Soil

Laboratory Sample ID: 963051-3
Date Received.....: 11/05/96
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	89.6			0.1	%	11/05/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	10.4			0.1	%	11/05/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	760			56	mg/Kg	11/05/96	vdt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963051 Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLFBARIN ATTN: Allan Fosdick

Customer Sample ID: OLF19BES099
Date Sampled.....: 11/04/96
Time Sampled.....: 09:55
Sample Matrix.....: Soil

Laboratory Sample ID: 963051-4
Date Received.....: 11/05/96
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	91.5			0.1	%	11/05/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	8.5			0.1	%	11/05/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	370			11	mg/Kg	11/05/96	vdt

CORE LABORATORIES

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 963051

Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLFBARIN

ATTN: Allan Fosdick

Customer Sample ID: OLF19BES100
Date Sampled.....: 11/04/96
Time Sampled.....: 10:05
Sample Matrix.....: Soil

Laboratory Sample ID: 963051-5
Date Received.....: 11/05/96
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	90.2			0.1	%	11/05/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	9.8			0.1	%	11/05/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	79			11	mg/Kg	11/05/96	vdt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963051

Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLFBARIN

ATTN: Allan Fosdick

Customer Sample ID: OLF19BES100DUP (DUPLICATE)
Date Sampled.....: 11/04/96
Time Sampled.....: 10:05
Sample Matrix.....: Soil

Laboratory Sample ID: 963051-6
Date Received.....: 11/05/96
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	90.5			0.1	%	11/05/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	9.5			0.1	%	11/05/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	87			11	mg/Kg	11/05/96	vdt

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CORE LABORATORIES

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 963051

Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLFBARIN

ATTN: Allan Fosdick

Customer Sample ID: OLF19BES101
Date Sampled.....: 11/04/96
Time Sampled.....: 10:10
Sample Matrix.....: Soil

Laboratory Sample ID: 963051-7
Date Received.....: 11/05/96
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	90.9			0.1	%	11/05/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	9.1			0.1	%	11/05/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	1200			55	mg/Kg	11/05/96	vdt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963051 Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLFBARIN ATTN: Allan Fosdick

Customer Sample ID: OLF19BES102
Date Sampled.....: 11/04/96
Time Sampled.....: 10:55
Sample Matrix.....: Soil

Laboratory Sample ID: 963051-8
Date Received.....: 11/05/96
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	90.8			0.1	%	11/05/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	9.2			0.1	%	11/05/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	620			22	mg/Kg	11/05/96	vdt

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963051 Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLFBARIN ATTN: Allan Fosdick

Customer Sample ID: OLF19BES103
Date Sampled.....: 11/04/96
Time Sampled.....: 11:05
Sample Matrix.....: Soil

Laboratory Sample ID: 963051-9
Date Received.....: 11/05/96
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	90.9			0.1	%	11/05/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	9.1			0.1	%	11/05/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	350			11	mg/Kg	11/05/96	vdt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963051

Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLFBARIN

ATTN: Allan Fosdick

Customer Sample ID: OLF19BES104
Date Sampled.....: 11/04/96
Time Sampled.....: 11:10
Sample Matrix.....: Soil

Laboratory Sample ID: 963051-10
Date Received.....: 11/05/96
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	90.6			0.1	%	11/05/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	9.4			0.1	%	11/05/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	370			11	mg/Kg	11/05/96	vdt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963051 Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLFBARIN ATTN: Allan Fosdick

Customer Sample ID: OLF19BES105
Date Sampled.....: 11/04/96
Time Sampled.....: 11:15
Sample Matrix.....: Soil

Laboratory Sample ID: 963051-12
Date Received.....: 11/05/96
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	90.6			0.1	%	11/05/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	9.4			0.1	%	11/05/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	30			11	mg/Kg	11/05/96	vdt

CORE LABORATORIES

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 963051

Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLFBARIN

ATTN: Allan Fosdick

Customer Sample ID: OLF19BES106
Date Sampled.....: 11/04/96
Time Sampled.....: 11:25
Sample Matrix.....: Soil

Laboratory Sample ID: 963051-16
Date Received.....: 11/05/96
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	92.4			0.1	%	11/05/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	7.6			0.1	%	11/05/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	150			11	mg/Kg	11/05/96	vdt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963051

Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLFBARIN

ATTN: Allan Fosdick

Customer Sample ID: OLF19BES107
Date Sampled.....: 11/04/96
Time Sampled.....: 13:05
Sample Matrix.....: Soil

Laboratory Sample ID: 963051-13
Date Received.....: 11/05/96
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	91.9			0.1	%	11/05/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	8.1			0.1	%	11/05/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	110			11	mg/Kg	11/05/96	vdt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963051 Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLFBARIN ATTN: Allan Fosdick

Customer Sample ID: OLF19BES108
Date Sampled.....: 11/04/96
Time Sampled.....: 13:10
Sample Matrix.....: Soil

Laboratory Sample ID: 963051-14
Date Received.....: 11/05/96
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	92.3			0.1	%	11/05/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	7.7			0.1	%	11/05/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	170			11	mg/Kg	11/05/96	vdt

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963051 Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLFBARIN ATTN: Allan Fosdick

Customer Sample ID: OLF19BES109
Date Sampled.....: 11/04/96
Time Sampled.....: 13:35
Sample Matrix.....: Soil

Laboratory Sample ID: 963051-17
Date Received.....: 11/05/96
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	93.1			0.1	%	11/05/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	6.9			0.1	%	11/05/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	36			11	mg/Kg	11/05/96	vdt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963051

Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLFBARIN

ATTN: Allan Fosdick

Customer Sample ID: OLF19BES110
Date Sampled.....: 11/04/96
Time Sampled.....: 13:40
Sample Matrix.....: Soil

Laboratory Sample ID: 963051-18
Date Received.....: 11/05/96
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	93.7			0.1	%	11/05/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	6.3			0.1	%	11/05/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	29			11	mg/Kg	11/05/96	vdt

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963051 Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLFBARIN ATTN: Allan Fosdick

Customer Sample ID: OLF19BES111
Date Sampled.....: 11/04/96
Time Sampled.....: 13:50
Sample Matrix.....: Soil

Laboratory Sample ID: 963051-19
Date Received.....: 11/05/96
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven), Solid	94.3			0.1	%	11/05/96	jbd
SM 2540G	Moisture (@ 104 deg. C), Solid	5.7			0.1	%	11/05/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	19			11	mg/Kg	11/05/96	vdt

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963065 Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLFBARIN ATTN: Dylan Carelli

Customer Sample ID: OLF19BES113
Date Sampled.....: 11/05/96
Time Sampled.....: 13:55
Sample Matrix.....: Soil

Laboratory Sample ID: 963065-1
Date Received.....: 11/06/96
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	93.2			0.1	%	11/07/96	jbd
SM 2540G	Moisture (@ 104 deg. C)	6.8			0.1	%	11/07/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	110			11	mg/Kg	11/06/96	vdt

CORE LABORATORIES

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 963065

Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLFBARIN

ATTN: Dylan Carelli

Customer Sample ID: OLF19BES114
Date Sampled.....: 11/05/96
Time Sampled.....: 14:00
Sample Matrix.....: Soil

Laboratory Sample ID: 963065-2
Date Received.....: 11/06/96
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	94.2			0.1	%	11/07/96	jbd
SM 2540G	Moisture (@ 104 deg. C)	5.8			0.1	%	11/07/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	37			11	mg/Kg	11/06/96	vdt

CORE LABORATORIES

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 963065

Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLFBARIN

ATTN: Dylan Carelli

Customer Sample ID: OLF19BES115
Date Sampled.....: 11/05/96
Time Sampled.....: 14:05
Sample Matrix.....: Soil

Laboratory Sample ID: 963065-3
Date Received.....: 11/06/96
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	92.4			0.1	%	11/07/96	jbd
SM 2540G	Moisture (@ 104 deg. C)	7.6			0.1	%	11/07/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	11			11	mg/Kg	11/06/96	vdt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963065 Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLFBARIN ATTN: Dylan Carelli

Customer Sample ID: OLF19BES115DUP (DUPLICATE)
Date Sampled.....: 11/05/96
Time Sampled.....: 14:05
Sample Matrix.....: Soil

Laboratory Sample ID: 963065-4
Date Received.....: 11/06/96
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	92.8			0.1	%	11/07/96	jbd
SM 2540G	Moisture (@ 104 deg. C)	7.2			0.1	%	11/07/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	13			11	mg/Kg	11/06/96	vdt

CORE LABORATORIES

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 963065

Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLFBARIN

ATTN: Dylan Carelli

Customer Sample ID: OLF19BES112
Date Sampled.....: 11/05/96
Time Sampled.....: 13:45
Sample Matrix.....: Soil

Laboratory Sample ID: 963065-5
Date Received.....: 11/06/96
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	94.1			0.1	%	11/07/96	jbd
SM 2540G	Moisture (@ 104 deg. C)	5.9			0.1	%	11/07/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	<11	U		11	mg/Kg	11/06/96	vdt

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963065 Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLFBARIN ATTN: Dylan Carelli

Customer Sample ID: OLF19BES116
Date Sampled.....: 11/05/96
Time Sampled.....: 14:20
Sample Matrix.....: Soil

Laboratory Sample ID: 963065-7
Date Received.....: 11/06/96
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	93.6			0.1	%	11/07/96	jbd
SM 2540G	Moisture (@ 104 deg. C)	6.4			0.1	%	11/07/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	<11	U		11	mg/Kg	11/06/96	vdt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963065

Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation

PROJECT: 4324-0013 OLFBARIN

ATTN: Dylan Carelli

Customer Sample ID: OLF19BES117
Date Sampled.....: 11/05/96
Time Sampled.....: 14:25
Sample Matrix.....: Soil

Laboratory Sample ID: 963065-8
Date Received.....: 11/06/96
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	93.3			0.1	%	11/07/96	jbd
SM 2540G	Moisture (@ 104 deg. C)	6.7			0.1	%	11/07/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	11			11	mg/Kg	11/06/96	vdt

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CORE LABORATORIES

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 963065 Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLFBARIN ATTN: Dylan Carelli

Customer Sample ID: OLF19BES117DUP (DUPLICATE)
Date Sampled.....: 11/05/96
Time Sampled.....: 14:25
Sample Matrix.....: Soil

Laboratory Sample ID: 963065-9
Date Received.....: 11/06/96
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	93.2			0.1	%	11/07/96	jbd
SM 2540G	Moisture (@ 104 deg. C)	6.8			0.1	%	11/07/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	14			11	mg/Kg	11/06/96	vdt

CORE LABORATORIES

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 963065 Date: 11/12/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: 4324-0013 OLFBARIN ATTN: Dylan Carelli

Customer Sample ID: OLF19BES118
Date Sampled.....: 11/05/96
Time Sampled.....: 14:35
Sample Matrix.....: Soil

Laboratory Sample ID: 963065-10
Date Received.....: 11/06/96
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (104 Degree C Oven)	92.9			0.1	%	11/07/96	jbd
SM 2540G	Moisture (@ 104 deg. C)	7.1			0.1	%	11/07/96	jbd
EPA 418.1	Total Recoverable Petroleum Hydrocarbo, Solid	16			11	mg/Kg	11/06/96	vdt

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963076 Date: 11/21/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: OLFBARIN ATTN: Dylan Carelli

Customer Sample ID: OLFTKS119-FRAC TANK SLUDGE
Date Sampled.....: 11/06/96
Time Sampled.....: 07:30
Sample Matrix.....: Sludge

Laboratory Sample ID: 963076-1
Date Received.....: 11/07/96
Time Received.....: 09:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 9045	Corrosivity (pH Solid)	5.0			0.1	pH Units	11/08/96	lmt
SW846 7-7.1.2.2	Ignitability	neg				Pos/Neg	11/08/96	lmt
SW-846 9095	Paint Filter Test, Solid	neg			0	Pos/Neg	11/08/96	lmt
SW-846 1311	TCLP Glass Jar Extraction	Complete					11/09/96	lmt
SW-846 1311	TCLP Zero Head Space (ZHE) Extraction	Complete					11/09/96	lmt
SW-846 6010A	TCLP Metals Analysis (ICAP)							
	Arsenic (As)	<0.004	U		0.004	mg/L	11/11/96	gag
	Barium (Ba)	0.428	B	*	0.0004	mg/L	11/11/96	gag
	Cadmium (Cd)	13.6			0.004	mg/L	11/11/96	gag
	Chromium (Cr)	0.015			0.002	mg/L	11/11/96	gag
	Lead (Pb)	1100			4	mg/L	11/11/96	gag
	Selenium (Se)	<0.009	U		0.009	mg/L	11/11/96	gag
	Silver (Ag)	0.004	B		0.002	mg/L	11/11/96	gag
SW-846 7470	TCLP Mercury (CVAA)							
	Mercury (Hg)	<0.0001	U		0.0001	mg/L	11/12/96	lmt
SW-846 3510B	Extraction (Sep. Funnel) TCLP SVOC							
	Separatory Funnel Liq/Liq Extraction	Complete					11/12/96	rwm
SW-846 8270	Semivolatile Organics (TCLP)							
	1,4-Dichlorobenzene	ND	U		100	ug/L	11/14/96	dmj
	2,4-Dinitrotoluene	ND	U		100	ug/L	11/14/96	dmj
	Hexachlorobenzene	ND	U		100	ug/L	11/14/96	dmj
	Hexachlorobutadiene	ND	U		100	ug/L	11/14/96	dmj
	Hexachloroethane	ND	U		100	ug/L	11/14/96	dmj
	Nitrobenzene	ND	U		100	ug/L	11/14/96	dmj
	Pyridine	ND	U		100	ug/L	11/14/96	dmj
	2-Methylphenol (o-cresol)	400			100	ug/L	11/14/96	dmj
	3 & 4 Methylphenol (m&p cresol)	300			100	ug/L	11/14/96	dmj
	Pentachlorophenol	ND	U		500	ug/L	11/14/96	dmj
	2,4,5-Trichlorophenol	ND	U		100	ug/L	11/14/96	dmj
	2,4,6-Trichlorophenol	ND	U		100	ug/L	11/14/96	dmj
SW-846 8240	Volatile Organics (TCLP)							
	Benzene	1400			10	ug/L	11/12/96	tdw
	Carbon tetrachloride	ND	U		50	ug/L	11/12/96	tdw
	Chlorobenzene	ND	U		50	ug/L	11/12/96	tdw
	Chloroform	ND	U		50	ug/L	11/12/96	tdw
	1,4-Dichlorobenzene	ND	U		50	ug/L	11/12/96	tdw
	1,1-Dichloroethane	ND	U		50	ug/L	11/12/96	tdw
	1,2-Dichloroethane	ND	U		50	ug/L	11/12/96	tdw
	1,2-Dichloropropane	ND	U		50	ug/L	11/12/96	tdw

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 963076 Date: 11/21/96

CUSTOMER: Morrison Knudsen Corporation PROJECT: OLFBARIN ATTN: Dylan Carelli

Customer Sample ID: OLFTKS119-FRAC TANK SLUDGE
Date Sampled.....: 11/06/96
Time Sampled.....: 07:30
Sample Matrix.....: Sludge

Laboratory Sample ID: 963076-1
Date Received.....: 11/07/96
Time Received.....: 09:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
	1,1-Dichloroethene	ND	U		50	ug/L	11/12/96	tdw
	cis-1,2-Dichloroethene	ND	U		50	ug/L	11/12/96	tdw
	Methyl ethyl ketone (2-Butanone)	ND	U		1000	ug/L	11/12/96	tdw
	Tetrachloroethene	ND	U		50	ug/L	11/12/96	tdw
	1,1,1-Trichloroethane	ND	U		50	ug/L	11/12/96	tdw
	Trichloroethene	ND	U		50	ug/L	11/12/96	tdw
	Trichlorofluoromethane	ND	U		50	ug/L	11/12/96	tdw
	Vinyl chloride	ND	U		100	ug/L	11/12/96	tdw
SW-846 1311	TCLP Glass Jar Physical Characterization							
	% Solids	100			0.5	%	11/09/96	lmt
	% Liquid	<0.5			0.5	%	11/09/96	lmt
	% Aqueous - Extract	100			0.5	%	11/09/96	lmt
	% Non-aqueous - Extract	<0.5			0.5	%	11/09/96	lmt
	Density Of Extract	1.0			0.1	Kg/L	11/09/96	lmt
SW-846 1311	TCLP ZHE Physical Characterization							
	% Solids	100			0.5	%	11/09/96	lmt
	% Liquid	<0.5			0.5	%	11/09/96	lmt
	% Aqueous - Extract	100			0.5	%	11/09/96	lmt
	% Non-aqueous - Extract	<0.5			0.5	%	11/09/96	lmt
	Density Of Extract	1.0			0.1	Kg/L	11/09/96	lmt

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APPENDIX F
FIELD SCREEN ANALYSIS

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-20-1996 Time: 10:50:25

Sample I.D. AA49513
Status: Complete and inactive
Purchase order number:
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/17/96
Date submitted: 10/17/96
Due date: 10/18/96
Specification checking: off
Descript: OLF19BWF837

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15) TOTAL PETROLEUM HYDROCARBONS	120	10	mg/kg	manual	10/31/96	10/18/96 07:15	10/18/96	JH

End of progress report on sample: AA49513

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-20-1996 Time: 10:50:25

Sample I.D. AA49514
Status: Complete and inactive
Purchase order number:
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/17/96
Date submitted: 10/17/96
Due date: 10/18/96
Specification checking: off
Descript: OLF19BWFS38

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Ani
(15)TOTAL PETROLEUM HYDROCARBONS	11	10	mg/kg	manual	10/31/96	10/18/96 07:15	10/18/96	JH

End of progress report on sample: AA49514

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-20-1996 Time: 10:50:26

Sample I.D. AA49515
Status: Complete and inactive
Purchase order number:
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/17/96
Date submitted: 10/17/96
Due date: 10/18/96
Specification checking: off
Descript: OLF19BWFS39

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15) TOTAL PETROLEUM HYDROCARBONS	1300	10	mg/kg	manual	10/31/96	10/18/96 07:15	10/18/96	JM

End of progress report on sample: AA49515

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-20-1996 Time: 10:50:27

Sample I.D. AA49516
Status: Complete and inactive
Purchase order number:
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/17/96
Date submitted: 10/17/96
Due date: 10/18/96
Specification checking: off
Descript: OLF19BWFS40

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Ani
(16)TOTAL PETROLEUM HYDROCARBONS	6400	10	mg/kg	manual	10/31/96	10/18/96 07:15	10/18/96	JH

End of progress report on sample: AA49516

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-20-1996 Time: 10:50:28

Sample I.D. AA49517
Status: Complete and inactive
Purchase order number:
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/17/96
Date submitted: 10/17/96
Due date: 10/18/96
Specification checking: off
Descript: OLF19BWFS40D

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15) TOTAL PETROLEUM HYDROCARBONS	5600	10	mg/kg	manual	10/31/96	10/18/96 07:15	10/18/96	JM

End of progress report on sample: **AA49517**

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-20-1996 Time: 10:50:29

Sample I.D. AA49518
Status: Complete and inactive
Purchase order number:
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/17/96
Date submitted: 10/17/96
Due date: 10/18/96
Specification checking: off
Descript: OLF19BWFS41

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15) TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	10/31/96	10/18/96 07:15	10/18/96	JH

End of progress report on sample: AA49518

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-20-1996 Time: 10:50:29

Sample I.D. AA49519
Status: Complete and inactive
Purchase order number:
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/17/96
Date submitted: 10/17/96
Due date: 10/18/96
Specification checking: off
Descript: OLF19EWFS42

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15)TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	10/31/96	10/18/96 07:18	10/18/96	JK

End of progress report on sample: **AA49519**

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-20-1996 Time: 10:50:30

Sample I.D. AA49535
Status: In invoice queue
Purchase order number:
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/18/96
Date submitted: 10/18/96
Due date: 10/19/96
Specification checking: off
Descript: CLF05BP043

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(LS)TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/01/96	10/18/96 13:46	10/18/96	JW

End of progress report on sample: AA49535

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-20-1996 Time: 10:50:31

Sample I.D. AA49796
Status: In invoice queue
Purchase order number: 96003
Project code: 1260
Location code: 1260
Sample collector: CLIENT/RF
Sam type: SOIL
T. DEPTH:

Date collected: 10/29/96
Date submitted: 10/30/96
Due date: 10/30/96
Specification checking: off
Descript: OLF19BE077

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(16) TOTAL PETROLEUM HYDROCARBONS	70	10	mg/kg	manual	11/13/96	10/30/96 08:10	10/30/96	JH

End of progress report on sample: AA49796

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-20-1996 Time: 10:50:32

Sample I.D. AA49797
Status: In invoice queue
Purchase order number: 96003
Project code: 1260
Location code: 1260
Sample collector: CLIENT/RF
Sam type: SOIL
T. DEPTH:

Date collected: 10/29/96
Date submitted: 10/30/96
Due date: 10/30/96
Specification checking: off
Descript: OLF19BE078

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15)TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/13/96	10/30/96 08:10	10/30/96	JM

End of progress report on sample: AA49797

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-20-1996 Time: 10:50:33

Sample I.D. AA49798
Status: In invoice queue
Purchase order number: 96003
Project code: 1260
Location code: 1260
Sample collector: CLIENT/RF
Sam type: SOIL
T. DEPTH:

Date collected: 10/29/96
Date submitted: 10/30/96
Due date: 10/30/96
Specification checking: off
Descript: OLF19BE079

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Ani
(18) TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/12/96	10/30/96 08:10	10/30/96	JK

End of progress report on sample: AA49798

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-20-1996 Time: 10:50:34

Sample I.D. AA49799
Status: In invoice queue
Purchase order number: 96003
Project code: 1260
Location code: 1260
Sample collector: CLIENT/RF
Sam type: SOIL
T. DEPTH:

Date collected: 10/29/96
Date submitted: 10/30/96
Due date: 10/30/96
Specification checking: off
Descript: OLF19BE080

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15)TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/13/96	10/30/96 08:10	10/30/96	JH

End of progress report on sample: AA49799

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:13

Sample I.D. AA49839
Status: In invoice queue
Purchase order number: 96003
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/30/96
Date submitted: 10/30/96
Due date: 10/31/96
Specification checking: off
Descript: OLF24BFS081
,
Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(18)TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/13/96	10/31/96 08:30	10/31/96	JH

End of progress report on sample: AA49839

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:57:03

Sample I.D. AA49834
Status: In invoice queue
Purchase order number: 96003
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL

Date collected: 10/30/96
Date submitted: 10/30/96
Due date: 10/31/96
Specification checking: off
Descript: OLF19BEFS082

Well No.:

Analysis	Result	Unit	Finished	Anl
(15)TOTAL PETROLEUM HYDROCARBONS	92	mg/kg	10/31/96	JH

End of progress report on sample: AA49834

Date: 11-19-1996 Time: 12:22:14

Sample I.D. AA49835
Status: In invoice queue
urchase order number: 96003
roject code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/30/96
Date submitted: 10/30/96
Due date: 10/31/96
Specification checking: off
Descript: OLF19BEFS083

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(18)TOTAL PETROLEUM HYDROCARBONS	88	10	mg/kg	manual	11/13/96	10/31/96 08:30	10/31/96	JK

End of progress report on sample: AA49835

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:15

Sample I.D. AA49836
Status: In invoice queue
Purchase order number: 96003
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/30/96
Date submitted: 10/30/96
Due date: 10/31/96
Specification checking: off
Descript: OLF19BEF6084

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15)TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/13/96	10/31/96 08:30	10/31/96	JM

End of progress report on sample: AA49836

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:16

Sample I.D. AA49837
Status: In invoice queue
Purchase order number: 96003
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/30/96
Date submitted: 10/30/96
Due date: 10/31/96
Specification checking: off
Descript: OLF19BEFS085

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15) TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/13/96	10/31/96 08:30	10/31/96	JH

End of progress report on sample: AA49837

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:17

Sample I.D. AA49838
Status: In invoice queue
Purchase order number: 96003
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/30/96
Date submitted: 10/30/96
Due date: 10/31/96
Specification checking: off
Descript: OLF19BEF6086

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15) TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/13/96	10/31/96 08:30	10/31/96	JM

End of progress report on sample: AA49838

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:17

Sample I.D. AA49840
Status: In invoice queue
Purchase order number: 95003
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/30/96
Date submitted: 10/30/96
Due date: 10/31/96
Specification checking: off
Descript: OLF24BF5087

Well No.:

Analysis	Result	MDL	Unit	Mlt Origin	Due Date	Started	Ended	Anl
(15)TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/13/96	10/31/96 08:30	10/31/96	JM

End of progress report on sample: AA49840

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:18

Sample I.D. AA49841
Status: In invoice queue
Purchase order number: 96003
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/30/96
Date submitted: 10/30/96
Due date: 10/31/96
Specification checking: off
Descript: OLF24BFS088

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15)TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/13/96	10/31/96 08:30	10/31/96	JH

End of progress report on sample: AA49841

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:19

Sample I.D. AA49842
Status: In invoice queue
Purchase order number: 96003
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/30/96
Date submitted: 10/30/96
Due date: 10/31/96
Specification checking: off
Descript: OLF24BFS089

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15) TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/13/96	10/31/96 08:30	10/31/96	JH

End of progress report on sample: AA49842

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:20

Sample I.D. AA49843
Status: In invoice queue
Purchase order number: 96003
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/30/96
Date submitted: 10/30/96
Due date: 10/31/96
Specification checking: off
Descript: OLF24BFS090

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15)TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/13/96	10/31/96 08:30	10/31/96	JM

End of progress report on sample: AA49843

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:21

Sample I.D. AA49874
Status: In invoice queue
Purchase order number: BTL
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/31/96
Date submitted: 10/31/96
Due date: 11/01/96
Specification checking: off
Descript: OLF19BWS091

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15) TOTAL PETROLEUM HYDROCARBONS	21	10	mg/kg	manual	11/14/96	11/01/96 00:00	11/01/96	JM

End of progress report on sample: AA49874

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:22

Sample I.D. AA49875
Status: In invoice queue
Purchase order number: BTL
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/31/96
Date submitted: 10/31/96
Due date: 11/01/96
Specification checking: off
Descript: OLF19BWS092

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15)TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/14/96	11/01/96 09:00	11/01/96	JH

End of progress report on sample: AA49875

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:22

Sample I.D. AA49876
Status: In invoice queue
Purchase order number: BTL
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 10/31/96
Date submitted: 10/31/96
Due date: 11/01/96
Specification checking: off
Descript: OLF19BWS093

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15)TOTAL PETROLEUM HYDROCARBONS	3200	10	mg/kg	manual	11/14/96	11/01/96 09:00	11/01/96	JM

End of progress report on sample: AA49876

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:24

Sample I.D. AA49891
Status: In invoice queue
Purchase order number:
Project code: 1260
Location code: 1260
Sample collector: CLIENT/RF
Sam type: SOIL
T. DEPTH:

Date collected: 11/01/96
Date submitted: 11/01/96
Due date: 11/02/96
Specification checking: off
Descript: F19BWFS094

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15)TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/15/96	11/04/96 08:00	11/04/96	JH

End of progress report on sample: **AA49891**

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:25

Sample I.D. AA49892
Status: In invoice queue
Purchase order number:
Project code: 1260
Location code: 1260
Sample collector: CLIENT/RF
Sam type: SOIL
T. DEPTH:

Date collected: 11/01/96
Date submitted: 11/01/96
Due date: 11/02/96
Specification checking: off
Descript: F19BFS095

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15)TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/15/96	11/04/96 08:00	11/04/96	JH

End of progress report on sample: AA49892

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:26

Sample I.D. AA49893
Status: In invoice queue
Purchase order number:
Project code: 1260
Location code: 1260
Sample collector: CLIENT/RF
Sam type: SOIL
T. DEPTH:

Date collected: 11/01/96
Date submitted: 11/01/96
Due date: 11/02/96
Specification checking: off
Descript: F19BFS096

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(16)TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/15/96	11/06/96 08:00	11/04/96	JH

End of progress report on sample: AA49893

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:23

Sample I.D. AA49890
Status: In invoice queue
Purchase order number:
Project code: 1260
Location code: 1260
Sample collector: CLIENT/RF
Sam type: SOIL
T. DEPTH:

Date collected: 11/01/96
Date submitted: 11/01/96
Due date: 11/02/96
Specification checking: off
Descript: F198EFS097

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15)TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/15/96	11/04/96 00:00	11/04/96	JH

End of progress report on sample: AA49890

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:27

Sample I.D. AA50105
Status: In final report queue
Purchase order number:
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 11/11/96
Date submitted: 11/11/96
Due date: 11/12/96
Specification checking: off
Descript: F19BEFS119

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15)TOTAL PETROLEUM HYDROCARBONS	<10	10	mg/kg	manual	11/25/96	11/12/96 07:46	11/12/96	JH

End of progress report on sample: AA50105

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:27

Sample I.D. AA50162
Status: In final report queue
Purchase order number: 96003
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 11/13/96
Date submitted: 11/13/96
Due date: 11/14/96
Specification checking: off
Descript: OLFOSTS121

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started		Ended	Anl
(18) VOLATILE RESIDUE	2.51	1	mg/l	manual	11/20/96	11/13/96	13:30	11/13/96	JH
(15) pH	4.79	0.01	s.u.	manual	11/13/96	11/13/96	13:45	11/13/96	JH
(15) TOTAL PETROLEUM HYDROCARBONS	18	10	mg/kg	manual	11/27/96	11/13/96	13:50	11/13/96	JH

End of progress report on sample: AA50162

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:29

Sample I.D. AA50326
Status: In final report queue
Purchase order number:
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 11/15/96
Date submitted: 11/15/96
Due date: 11/16/96
Specification checking: off
Descript: OLFOSTS123

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started		Ended	Ana
(15)TOTAL PETROLEUM HYDROCARBONS	15	10	mg/kg	manual	11/29/96	11/18/96	13:30	11/15/96	JH
(15) pH	5.52	0.01	s.u.	manual	11/15/96	11/15/96	10:30	11/15/96	JH
(18) VOLATILE RESIDUE	1.88	1	mg/l	manual	11/22/96	11/15/96	13:30	11/18/96	JH

End of progress report on sample: AA50326

SAMPLE PROGRESS REPORT

Envirochem, Inc.
Date: 11-19-1996 Time: 12:22:30

Sample I.D. AA50327
Status: In final report queue
Purchase order number:
Project code: 1260
Location code: 1260
Sample collector: CLIENT
Sam type: SOIL
T. DEPTH:

Date collected: 11/15/96
Date submitted: 11/15/96
Due date: 11/16/96
Specification checking: off
Descript: OLFOSTS124

Well No.:

Analysis	Result	MDL	Unit	Rlt Origin	Due Date	Started	Ended	Anl
(15) TOTAL PETROLEUM HYDROCARBONS	14	10	mg/kg	manual	11/29/96	11/15/96 13:30	11/18/96	JH
(16) pH	6.12	0.01	s.u.	manual	11/15/96	11/15/96 14:15	11/15/96	JH
(18) VOLATILE RESIDUE	2.65	1	mg/l	manual	11/22/96	11/15/96 13:30	11/15/96	JH

End of progress report on sample: AA50327

ENVIROCHEM, INCORPORATED

4920 MIDMOST DRIVE MOBILE, ALABAMA 36609 PHONE (334) 344-9106 FAX (334) 341-9492

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FOLEY, AL 36535

ATTN: JOHN PITTS

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SAMPLE I.D.	AA49239	LOCATION CODE	1260
SAMPLE DESCRIPTION	KAMRON CONST. OLPTVFS018	LAB SUBMITTAL DATE/TIME	10/10/96 09:15
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/GB
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/09/96 09:00

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(17) TOTAL PETROLEUM HYDROCARBON	EPA 418.1	DK	10/10/96 09:30	10	mg/kg	<10

SAMPLE I.D.	AA49240	LOCATION CODE	1260
SAMPLE DESCRIPTION	KAMRON CONST. OLPTVFS019	LAB SUBMITTAL DATE/TIME	10/10/96 09:15
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/GB
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/09/96 09:12

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(17) TOTAL PETROLEUM HYDROCARBON	EPA 418.1	DK	10/10/96 09:30	10	mg/kg	44

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4320 MIDMOST DRIVE MOBILE, ALABAMA 36609 PHONE (334) 344-9106 FAX (334) 341-9492

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FOLEY, AL 36535

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SAMPLE I.D.	AA49297	LOCATION CODE	1260
SAMPLE DESCRIPTION	KAMRON CONST. OLFT2F8020	LAB SUBMITTAL DATE/TIME	10/11/96 10:52
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/11/96 09:42

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(17)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	HY	10/14/96 08:00		mg/kg	12160

SAMPLE I.D.	AA49298	LOCATION CODE	1260
SAMPLE DESCRIPTION	KAMRON CONST. OLFT3F8021	LAB SUBMITTAL DATE/TIME	10/11/96 10:52
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/11/96 09:46

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(17)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	HY	10/14/96 08:00		mg/kg	8425

SAMPLE I.D.	AA49299	LOCATION CODE	1260
SAMPLE DESCRIPTION	KAMRON CONST. OLFT3F8022	LAB SUBMITTAL DATE/TIME	10/11/96 10:52
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/11/96 09:50

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(17)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	HY	10/14/96 08:00		mg/kg	4350

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SAMPLE I.D.	AA69505	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF24BF8030	LAB SUBMITTAL DATE/TIME	10/17/96 16:05
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/17/96 12:17

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(17)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/18/96 07:15	10	mg/kg	15

SAMPLE I.D.	AA69506	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF24BF8030D	LAB SUBMITTAL DATE/TIME	10/17/96 16:05
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/17/96 12:17

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(17)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/18/96 07:15	10	mg/kg	15

SAMPLE I.D.	AA69507	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF24BF8031	LAB SUBMITTAL DATE/TIME	10/17/96 16:05
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/17/96 12:24

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(17)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/18/96 07:15	10	mg/kg	15

SAMPLE I.D.	AA69508	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF24BF8032	LAB SUBMITTAL DATE/TIME	10/17/96 16:05
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/17/96 12:27

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(17)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/18/96 07:15	10	mg/kg	11

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SAMPLE I.D.	AA49509	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF24BFS073	LAB SUBMITTAL DATE/TIME	10/17/96 16:05
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/17/96 12:31

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(17)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/18/96 07:15	10	mg/kg	13

SAMPLE I.D.	AA49510	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF24BFS034	LAB SUBMITTAL DATE/TIME	10/17/96 16:05
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/17/96 12:34

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(17)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/18/96 07:15	10	mg/kg	11

SAMPLE I.D.	AA49511	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWFS35	LAB SUBMITTAL DATE/TIME	10/17/96 16:05
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/17/96 13:26

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(17)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/18/96 07:15	10	mg/kg	<10

SAMPLE I.D.	AA49512	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWFS36	LAB SUBMITTAL DATE/TIME	10/17/96 16:05
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/17/96 13:45

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(17)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/18/96 07:15	10	mg/kg	<10

SAMPLE I.D.	AA49513	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWFS37	LAB SUBMITTAL DATE/TIME	10/17/96 16:05
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/17/96 14:00

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(17)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/18/96 07:15	10	mg/kg	120

SAMPLE I.D.	AA49514	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWFS38	LAB SUBMITTAL DATE/TIME	10/17/96 16:05
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/17/96 13:55

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(17)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/18/96 07:15	10	mg/kg	11

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SAMPLE I.D.	AA49624	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWF5044	LAB SUBMITTAL DATE/TIME	10/22/96 16:45
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/JP
PURCHASE ORDER NO.	96003	COLLECTION DATE/TIME	10/22/96 14:15

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/23/96 07:30	10	mg/kg	1200

SAMPLE I.D.	AA49625	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWF5045	LAB SUBMITTAL DATE/TIME	10/22/96 16:45
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/JP
PURCHASE ORDER NO.	96003	COLLECTION DATE/TIME	10/22/96 14:20

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/23/96 07:30	10	mg/kg	1000

SAMPLE I.D.	AA49626	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWF5046	LAB SUBMITTAL DATE/TIME	10/22/96 16:45
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/JP
PURCHASE ORDER NO.	96003	COLLECTION DATE/TIME	10/22/96 14:25

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/23/96 07:30	10	mg/kg	<10

SAMPLE I.D.	AA49627	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWF5047	LAB SUBMITTAL DATE/TIME	10/22/96 16:45
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/JP
PURCHASE ORDER NO.	96003	COLLECTION DATE/TIME	10/22/96 14:30

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/23/96 07:30	10	mg/kg	3200

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SAMPLE I.D.	AA49628	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWFS048	LAB SUBMITTAL DATE/TIME	10/22/96 16:45
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/JP
PURCHASE ORDER NO.	96003	COLLECTION DATE/TIME	10/22/96 14:33

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/23/96 07:30	10	mg/kg	19

SAMPLE I.D.	AA49629	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWFS049	LAB SUBMITTAL DATE/TIME	10/22/96 16:45
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/JP
PURCHASE ORDER NO.	96003	COLLECTION DATE/TIME	10/22/96 14:36

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/23/96 07:30	10	mg/kg	8000

SAMPLE I.D.	AA49630	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWFS049DUP	LAB SUBMITTAL DATE/TIME	10/22/96 16:45
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/JP
PURCHASE ORDER NO.	96003	COLLECTION DATE/TIME	10/22/96 14:37

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/23/96 07:30	10	mg/kg	3500

SAMPLE I.D.	AA49631	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWFS050	LAB SUBMITTAL DATE/TIME	10/22/96 16:45
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/JP
PURCHASE ORDER NO.	96003	COLLECTION DATE/TIME	10/22/96 14:40

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/23/96 07:30	10	mg/kg	<10

SAMPLE I.D.	AA49632	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWFS051	LAB SUBMITTAL DATE/TIME	10/22/96 16:45
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/JP
PURCHASE ORDER NO.	96003	COLLECTION DATE/TIME	10/22/96 14:45

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/23/96 07:30	10	mg/kg	54

SAMPLE I.D.	AA49633	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWFS052	LAB SUBMITTAL DATE/TIME	10/22/96 16:45
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/JP
PURCHASE ORDER NO.	96003	COLLECTION DATE/TIME	10/22/96 14:50

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/23/96 07:30	10	mg/kg	<10

SAMPLE I.D.	AA49634	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWFS053	LAB SUBMITTAL DATE/TIME	10/22/96 16:45
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/JP
PURCHASE ORDER NO.	96003	COLLECTION DATE/TIME	10/22/96 14:55

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/23/96 07:30	10	mg/kg	<10

SAMPLE I.D.	AA49635	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWFS053DUP	LAB SUBMITTAL DATE/TIME	10/22/96 16:45
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/JP
PURCHASE ORDER NO.	96003	COLLECTION DATE/TIME	10/22/96 14:55

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/23/96 07:30	10	mg/kg	<10

REVIEWED BY: Susan Rennick

ENVIROCHEM, INCORPORATED

4320 MIDMOST DRIVE MOBILE, ALABAMA 36609 PHONE (334) 344-9106 FAX (334) 341-9492

KAMRON CONSTRUCTION
11490 BARIN FIELD
FOLEY, AL 36535

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ATTN: JOHN PITTS

SAMPLE I.D.	AA49694	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWFS-067	LAB SUBMITTAL DATE/TIME	10/24/96 14:53
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT
PURCHASE ORDER NO		COLLECTION DATE/TIME	10/21/96 08:50

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/25/96 08:20	10	mg/kg	<10

SAMPLE I.D.	AA49695	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWFS-068	LAB SUBMITTAL DATE/TIME	10/24/96 14:53
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/21/96 08:50

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/25/96 08:20	10	mg/kg	220

SAMPLE I.D.	AA49696	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BEFS-069	LAB SUBMITTAL DATE/TIME	10/24/96 14:53
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/21/96 11:30

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/25/96 08:20	10	mg/kg	381

SAMPLE I.D.	AA49697	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BEFS-070	LAB SUBMITTAL DATE/TIME	10/24/96 15:41
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/21/96 14:40

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/25/96 08:20	10	mg/kg	<10

REVIEWED BY: Susan Bennison

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SAMPLE I.D.	AA49727	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BWFS071	LAB SUBMITTAL DATE/TIME	10/25/96 14:45
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/JP
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/25/96 13:25

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/28/96 06:30	10	mg/kg	240

SAMPLE I.D.	AA49728	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BEFS072	LAB SUBMITTAL DATE/TIME	10/25/96 14:45
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/JP
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/25/96 13:30

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/28/96 06:30	10	mg/kg	620

SAMPLE I.D.	AA49729	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BEFS073	LAB SUBMITTAL DATE/TIME	10/25/96 14:45
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/JP
PURCHASE ORDER NO.		COLLECTION DATE/TIME	10/25/96 13:35

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/28/96 06:30	10	mg/kg	<10

REVIEWED BY: Susan Rennison

ENVIROCHEM, INCORPORATED

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SAMPLE I.D.	AA49755	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BEPS073	LAB SUBMITTAL DATE/TIME	10/28/96 16:10
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/GB
PURCHASE ORDER NO.	96003	COLLECTION DATE/TIME	10/28/96 15:25

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/29/96 07:15	10	mg/kg	<10

SAMPLE I.D.	AA49756	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BEPS076	LAB SUBMITTAL DATE/TIME	10/28/96 16:10
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/GB
PURCHASE ORDER NO.	96003	COLLECTION DATE/TIME	10/28/96 15:30

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/29/96 07:15	10	mg/kg	<10

SAMPLE I.D.	AA49757	LOCATION CODE	1260
SAMPLE DESCRIPTION	OLF19BEPS074	LAB SUBMITTAL DATE/TIME	10/28/96 16:10
SAMPLE TYPE	SOIL	SAMPLE COLLECTOR	CLIENT/GB
PURCHASE ORDER NO.	96003	COLLECTION DATE/TIME	10/28/96 15:20

PARAMETER	REFERENCE	ANALYST	DATE/TIME STARTED	MDL	UNITS	RESULTS
(15)TOTAL PETROLEUM HYDROCARBON	EPA 418.1	JH	10/29/96 07:15	10	mg/kg	<10

REVIEWED BY: Susan Dennison