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MCAS EL TORO
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OHM Remediation
Services Corp.

1202 Kettner Boulevard
San Diego, California 92101

Temporary Accumulation Area 771
Marine Corps Air Station
El Toro, California

SWDIV Contract No. N68711-93-D-1459
Delivery Order No. 0070 – Revision 0
OHM Project No. 18609 – Document Control No. SW5983
December 10, 1999

Closure Report

Appendix A - JEG RFA Background Information; Appendix B - BNI VSI Evaluation Report;
Appendix C - Site Photographs; Appendix D - Site Assessment Log; Appendix E - Land Survey Data;
Appendix F - Laboratory Analytical Results for TAA Effluent Treated Water;
Appendix G - Laboratory Analytical Reports; Appendix H - LDC Data Validation Report;
Appendix I - Tentative Reuse Parcel Location of TAA 771

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COMMENTS BY DTSC ON CLOSURE REPORT FOR TEMPORARY ACCUMULATION AREA 771 ENTERED INTO DATABASE AND FILED UNDER ADMINSTRATIVE RECORD NO. M60050.000401

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Abbreviations and Acronyms

BEHP	bis(2-ethylhexyl) phthalate
bgs	below ground surface
BNI	Bechtel National Inc.
BRAC	Base Realignment and Closure
CA LUFT	California Leaking Underground Fuel Tank
CCR	California Code of Regulations
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CQC	Contractor Quality Control
CTF	central treatment facility
DHS	California Department of Health Services
DO	delivery order
DTSC	Department of Toxic Substances Control
EPA	United States Environmental Protection Agency
HSO	Health and Safety Officer
HSP	Health and Safety Plan
IRP	Installation Restoration Program
JEG	Jacobs Engineering Group Inc.
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LDC	Laboratory Data Consultants
m/z	mass-to-change
MCAS	Marine Corps Air Station
MDL	method detection limit
mg/kg	milligram per kilogram
MS	matrix spike
MSD	matrix spike duplicate
OHM	OHM Remediation Services Corp.
OU	Operable Unit
PAH	polynuclear aromatic hydrocarbon
PPE	personal protective equipment
PRG	Preliminary Remediation Goal
QA	quality assurance
QC	quality control
RCRA	Resource Conservation and Recovery Act
RDL	reporting detection limit
RI	Remedial Investigation
RPD	relative percent difference
RRF	relative response factor
RWQCB	Regional Water Quality Control Board
SIM	selected ion monitoring
SVOC	semi-volatile organic compound
SWDIV	Southwest Division Naval Facilities Engineering Command

Abbreviations and Acronyms (Cont.)

SWMU	Solid Waste Management Unit
TAA	temporary accumulation area
TAL	target analyte list
TPH	total petroleum hydrocarbons
VOA	volatile organic analysis
VOC	volatile organic compound
VSI	Visual Site Inspection
%D	percent difference
µg/kg	micrograms per kilogram

Section 1
Introduction

This Closure Report summarizes the sampling and decontamination activities performed at the Temporary Accumulation Area (TAA) 771 Site at the Marine Corps Air Station (MCAS) El Toro (hereinafter referred to as the "Station"), California. OHM Remediation Services Corp (OHM) performed the work for the Southwest Division Naval Facilities Engineering Command (SWDIV) under Remedial Action Contract No. N68711-93-D-1459, Delivery Order (DO) 0070.

Sampling and decontamination activities were conducted in accordance with the Navy, Station, and Department of Toxic Substance Control (DTSC)-approved *Draft Supplemental Work Plan, Closure of Various Temporary Accumulation Areas and RCRA Facility Assessment Sites at the Marine Corps Air Station El Toro, California* (OHM, 1997_a).

1.1 Site Location and Background

The Station is located approximately 45 miles southeast of the city of Los Angeles in Orange County, California, 1 mile north of the intersection of Interstate 5 (Santa Ana) and Interstate 405 (San Diego) freeways. The Station covers approximately 4,738 acres. Approximately 800 acres of the Station property are currently designated for agricultural outlease. Agricultural outleased lands are located at the corners of the Station, and are used for plant nursery and crop production (MCAS El Toro, 1998). The location of the Station is shown in Figure 1-1.

TAA 771, a temporary, less than 90-day, Hazardous Waste Storage Area (HWSA) is located in the northwestern quadrant of the Station, west of the Bee Canyon Wash. The TAA 771 is located south east of former Tank Farm 1 (Figure 1-2) near the intersection of "South 8th" street and West Marine Way.

The depth to groundwater in the vicinity of the TAA 771 site is based on available water level data collected from the nearest groundwater monitoring well TF1MW-01. The location of this well is shown in Figure 1-2. Based on this data, the depth to the groundwater at TAA 771 is approximately 110 feet below ground surface (bgs) (OHM, 1997_b).

1.2 Project Objectives

The objectives of this project were the following:

- Verify that all stored hazardous wastes, residues, and constituents that may pose a potential health risk have been removed from TAA 771 in accordance with the MCAS El Toro Detailed Plan (OHM, 1995).
- Perform verification soil sampling and analysis to obtain "closure status" of TAA 771.

Based on a classification in the Draft Supplemental Work Plan, TAA 771 was considered to be a Type 2 facility (i.e., bermed TAA without containment sump). Project operations at Type 2 facilities were defined as decontamination of the interior portion of the structure and soil sampling. (OHM, 1997_a).

1.3 Regulatory Background and Cleanup Goals

The closure activities at TAA 771 were completed in accordance with the appropriate federal and state requirements. TAA 771 is characterized as "*hazardous waste accumulation areas*" according to the Code of Federal Regulations (CFR), Title 40, Part 262.34, and the California Code of Regulations (CCR), Title 22, Section 66262.34. Because hazardous wastes have been stored at the site, closure of TAA 771 is also subject to federal and state regulations for closure of less than 90 days hazardous waste management facilities (CFR 40, part 264, Subpart G; and CCR 22, Section 66264, Article 7, respectively).

The cleanup goals established for TAA 771 are based on the following:

Soil

- United States Environmental Protection Agency (EPA) Region IX Preliminary Remediation Goals (PRGs) dated October 1, 1999 for residential land use for organic contaminants
- Background concentrations for metals contaminants (Bechtel National Inc. [BNI], 1996_b)
- 5,000-milligrams per kilogram (mg/kg) concentration limit for total petroleum hydrocarbons (TPH)-purgeable
- 10,000-mg/kg concentration limit for TPH-extractable

1.4 Project Scope of Work

The Scope of Work at TAA 771 consisted of the following tasks:

- collection and laboratory analysis of confirmation samples, including soil samples obtained from beneath and adjacent to the TAA structure.
- turning over salvageable and recyclable materials to the Station's Defense Reutilization and Marketing Office for recycling.
- disposal of solid wastes generated during field sampling activities.
- preparation of a Closure Report to describe and document the work performed.

Section 2
Previous Investigations and Site Background

The following section summarizes results from previous investigations and background history at the TAA 771 site. Background information regarding TAA 771 was obtained from the following documents:

1. *Final RCRA Facility Assessment Report, Marine Corps Air Station El Toro, California (Jacobs Engineering Group Inc., [JEG] 1993)*
2. *Final Addendum RCRA Facility Assessment Report, Marine Corps Air Station El Toro, California (BNI, 1996a)*
3. *Final Base Realignment and Closure Cleanup Plan, March 1998, Marine Corps Air Station El Toro, California (MCAS El Toro, 1999)*

2.1 RCRA Facility Assessment

In 1991, JEG, as part of the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA), performed the initial Preliminary Review (PR) and a Visual Site Inspection (VSI) of the 307 Solid Waste Management Units (SWMUs) within the Station. JEG also conducted a site visit to observe the current conditions of the SWMUs and/or TAA, and performed limited sampling. JEG identified SWMU 224 (also known as TAA 771) as a temporary HWSA southeast of former Tank Farm 1 during their field RFA visit in April 1991.

Per JEG VSI Evaluation form, SWMU 224 (TAA 771) was one of the six Department of Health Services permitted HWSA consisting of a concrete pad with berm and aluminum roof but no sump. JEG observed that the TAA 771 was not in use and appeared to be inactive for long time, also concrete pad was covered with about 2-iches of ponding water. JEG observed no significant stains or cracks on the concrete pad. Although there was no evidence of a release during site visit at SWMU 224 but all past permitted HWSAs were recommended for sampling visit by JEG. Therefore, as part of the VSI evaluation process SWMU 224 (TAA 771) was recommended for *"Sampling Visit"*.

During the sampling visit, JEG advanced one angle soil boring (224A1) to a depth of 60 feet below ground surface (bgs) in close proximity of SWMU 224 and collected six soil samples. Analysis of all six-soil samples did not indicate presence of TPH, VOCs, SVOCs, pesticide and PCB compounds. As a results of these findings JEG recommended *"No Further Action (NFA)"* for SWMU 224 (TAA 771). Copies of the VSI form, figure and analytical results table from the JEG RFA report are included in Appendix A, JEG RFA Background Information.

After review of the JEG RFA report, DTSC requested additional information about TAAs to determine the closure requirements. BNI performed the visual assessment of 73 TAA sites to

provide more specific information for a closure strategy for TAAs. In November 1995, BNI visited SWMU 224 (TAA 771).

During the BNI VSI in November 1995, TAA 771 was empty, vacant and the concrete pad was clean. Therefore, no soil sampling was performed by BNI. Copies of TAA 771 VSI evaluation forms from the BNI Final RFA Addendum report are included in Appendix B, BNI VSI Evaluation Report.

Section 3
Field Activities

The following subsections describe the activities that were performed by OHM at TAA 771. Field activities were conducted in accordance with the approved *Final Supplemental Work Plan* (OHM, 1997_a)

Field activities conducted at TAA 771 included a site inspection, preconstruction meeting, a geophysical survey, decontamination and confirmation soil sampling, and waste management. Photographs of the field activities at TAA 771 are presented in Appendix C, Site Photographs.

3.1 Preparatory Work

OHM performed a site visit at TAA 771 in January 1997 and October 13, 1997 before performing any field activities. The TAA 771 was observed to be an inactive TAA, consisting of a vacant concrete pad with a berm and roof. No evidence of a release or stains was observed around the TAA 771. A copy of the Site Assessment Log is included as Appendix D.

OHM subcontractor, Geovision, conducted a geophysical survey on January 17, 1997 to identify and locate buried utilities, pipes, and other subsurface anomalies in the vicinity of TAA 771. OHM also notified Underground Service Alert of the intent to hand-auger seven locations up to 3 feet bgs.

OHM, in coordination with the Station's Resident Officer in Charge of Construction (ROICC), conducted a preconstruction meeting. The meeting addressed the Station's regulations for contractors, the construction schedule, health and safety coordination, construction quality control (QC), and tenant notifications.

3.2 Site Decontamination

Decontamination activities at TAA 771 began on November 5, 1997 and included site preparation and concrete floor decontamination as specified in the Supplemental Work Plan (OHM, 1997a).

The following construction management activities were implemented at the TAA 771 site:

- OHM notified Station ROICC of the decontamination area.
- OHM Health and Safety Officer (HSO) implemented site security, health and safety procedures, and dust control activities. The work area was divided into exclusion or hot zone; a contamination reduction zone; and a support zone. The OHM Project Engineer performed a visual inspection for evidence of contamination inside and adjacent to the TAA 771 site.

- OHM field crew prepared the TAA for decontamination. Preparation included initial scraping, vacuuming, and sweeping.

The following decontamination methods were selected to minimize the generation of air emissions and the quantity of decontamination water. The decontamination methods included the following:

- vacuuming of solid materials from floor
- mechanical scrubbing of floor and hand scrubbing of berms
- cold water pressure washing

Vacuuming techniques included the physical removal of dust and other solid dirt particles from the pad surface. Dust and other dirt particles collected as a result of this activity were placed in a 55-gallon steel drum for later disposal. Vacuuming was performed using high-efficiency particle filter vacuums. Visible stains on the berms and floor were wire-brushed or scraped to remove loose particles and stained coatings.

A pressure washer was used to wash down the berms and floor of TAA 771. After completion of two wash cycles, the concrete pad floor was rinsed and pumped out, then a third and final rinse of the pad was performed in a similar manner as described above. After the third rinse, rinse water was allowed to settle on the pad and then a plastic sample bottle was immersed in the standing water to collect the rinse water sample.

Decontamination wastewater was then collected from the pad floor using a trailer-mounted portable skid unit (equipped with vacuum pump and 1,500-gallon steel storage tank). Wastewater was then transferred to the 2,500-gallon polyethylene storage tank located at the Station's central treatment facility (CTF) compound near Installation Restoration Program (IRP) Site 3 at the cross section of North Marine Way and Desert Storm Road.

3.3 Confirmation Soil Sampling

Confirmation soil samples were collected from five hand auger locations at TAA 771 to verify if any spillage occurred during handling of hazardous material drums and the lateral and/or vertical extent of contamination beneath concrete/asphalt paved area. A total of 10 soil samples were collected from five hand auger boring locations (SB-A, SB-B, SB-C, SB-D, and SB-E). Soil sample locations were selected, based on a visual inspection performed during the site visit on October 13, 1997.

Soil samples were collected in standard stainless steel sleeves at two different depths: 18 and 36 inches bgs. Details on the sampling strategy and analytical methods are discussed in Section 4. The locations of the OHM hand-auger borings at TAA 771 are shown on Figure 3-1, Site Plan.

3.4 Land Surveying

After completing the confirmation soil sampling at TAA 771, the hand auger soil boring locations were surveyed by Cal Vada Surveying Inc., a California-licensed land surveyor. The surveyed locations were measured to ±0.01 foot horizontally and tied to the California State Plane Coordinate Systems, North American Datum 1983. The surveyed elevations were measured to ±0.01 foot vertically and tied to mean sea level datum. The land surveying data for TAA 771 are presented as Appendix E.

3.5 Waste Management

Waste generated during the decontamination activities and confirmation soil sampling at the TAA 771 site included the following:

- one bag (55-gallon drum liners) of Personal Protective Equipment (PPE).
- 0.2 cubic yards of debris (e.g., rocks, rust, solid soils, etc) from concrete floor.
- approximately 80 gallons of decontamination wash water stored on-site at the CTF in a closed-top polyethylene storage tank, specifically marked "TAA Water".

All generated wastes have been disposed of in accordance with applicable State and Federal regulations. Based on the results and review of analytical data, OHM disposed of the wastes as follows:

- The bags of PPE was disposed off-site at Bowerman Canyon non-hazardous Class III landfill, based on the results of the sump/floor debris samples.
- 0.2 cubic yards of floor debris, disposed off-site at Bowerman Canyon non-hazardous Class III landfill, based on the confirmation soil sample analytical results.

Wastewater generated from decontamination activities was treated through the Station's CERCLA Carbon Adsorption Treatment System (operated and maintained by OHM) located at the CTF, following the determination that the constituents were within the normal range for treatment. Treated effluent water was sampled and based on the review of the analytical results, transferred to the Station's Golf Course holding tank for reuse (JEG 1991). A copy of the analytical result of the treated water is included in Appendix F, Laboratory Analytical Results for TAA Effluent Treated Water.

Section 4
Sampling Analytical Results and Data Quality Assessment

The objective of the sampling and analysis is to provide analytical data to document the successful decontamination of TAA 771 and to characterize the soil condition adjacent to and beneath TAA 771. The sampling methodology, analytical methods, analytical results, and interpretation of confirmation soil sampling have been performed in accordance with the analytical strategy presented in the Draft Supplemental Work Plan (OHM, 1997_a) and are described in the following text.

The laboratory analyses were performed according to test methods specified in EPA Solid Waste-846 (Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, June 1997) and California Leaking Underground Fuel Tank (CA LUFT) Manual (State Water Resources Control Board, 1989). The test methods used for analyses were selected on the basis of their ability to detect the chemicals of potential concern with suitable detection limits to verify the successful decontamination of TAA 771 and to provide data for assessment of risk to human health and the environment. A list of all the analytical methods that were performed for TAA 771 is provided in Section 4.2.

All samples were analyzed by VOC Analytical Laboratory, a state of California certified and Naval Facilities Engineering Services Center-approved analytical laboratory.

4.1 Field Sampling Summary

4.1.1 Confirmation Soil Sampling

The sampling strategy for TAA 771 focused on two aspects of the site: possible releases on the surface of the TAA or possible releases into the soil surrounding the TAA. Soil samples were collected and analyzed for the constituents contained in the wastes that may have been stored at TAA 771.

Sample locations were selected based on visual inspection performed during a site visit, which included any areas where there was evidence of spills, contamination of concrete, or visual signs of secondary containment structure deterioration (cracks in berms). However, no cracks or visual indications of spills were observed at TAA 771. A total of 10 confirmation soil samples (sample numbers 18609-610 through 18609-619) were collected at TAA 771 from five hand auger borings (SBA, SBB, SBC, SBD, and SBE). The locations of all the hand auger borings are shown in Figure 3-1.

A concrete-coring machine was used to open a 6-inch diameter hole in the concrete/asphalt, and then a hand auger was used to bore into the soil under the concrete to approximately 18 inches. An undisturbed soil sample was collected at 18 and 36 inches bgs using a hammer-driven split core sampler that contained a stainless steel sleeve. Following the

collection of the soil samples, the excess soil was placed back in the open borehole (no VOCs were identified by the photoionization detector). Concrete (ready mix) was poured into the open hole in the bottom of the sump to seal the opening. The surface was then finished with a trowel to match the existing surface of the asphalt. The Sample Collection Summary Log for TAA 771 is presented in Table 4-1.

4.1.2 Rinsate Water Sampling

Samples collected from large porous (concrete) surfaces using wipe techniques were not considered to be representative by DTSC. Therefore, samples of the rinsate water were collected to provide an indicator of the effectiveness of the decontamination. Rinsate samples were collected to determine the concentrations of any constituents that might be present in any washwater coming in contact with the floors and sump following the wash process.

The fire hydrant located on North Marine Way near IRP Site 3 within the CTF compound was used as the source water for washing and rinsing the concrete pad floor at TAA 771. A sample was collected from the source water (sample number 18609-743), and the rinsate (sample number 18609-759) from the third rinse of the floor surface that was collected in the sump.

4.1.3 Quality Control

Field quality assurance/quality control (QA/QC) samples were collected at the TAA site as follows:

- Equipment rinsate samples were collected at a frequency of 1 per day.
- Trip blank samples were collected at a frequency of 1 per sample cooler for coolers containing samples for volatile analysis.
- Source blank was collected at a frequency of 1 per source.

One equipment rinsate (sample number 18609-637A), three trip blanks (sample numbers 18609-636, 18609-760, and 18609-742), and one source water sample (sample number 18609-743) were collected for the TAA site.

VOC Analytical Laboratory performed the following laboratory QA/QC sample analysis:

- Laboratory control sample/sample duplicate analysis was performed at a frequency of 1 per 20 samples or per batch.
- Laboratory matrix spike/spike duplicate sample analysis was performed at a frequency of 1 per 20 samples or per batch.
- Laboratory method blank analysis was performed at a frequency of 1 per 20 samples or per batch.

4.1.4 Equipment Decontamination

Equipment used in the exclusion zone was decontaminated prior to removal from the site, as identified in the site specific Health and Safety Plan (HSP). The equipment used for collecting soil samples was decontaminated between each use. The hand auger assembly was washed in a typical three step procedure consisting of: decontaminating the equipment first using a brush in a bucket of Alconox™ detergent and water; then a second bucket of water for immediate rinse; and again in a third bucket of water for the final rinse.

4.2 Analytical Methods

Analytical methods were selected to encompass all the chemicals of potential concern at TAA 771. The following methods were performed to characterize samples collected from TAA 771:

- Volatile organic compounds (VOCs) by EPA Method 8260A
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270B
- Total Petroleum Hydrocarbons (TPH) as Gasoline by CA LUFT 8015 Modified
- TPH as JP-5 and Diesel by CA LUFT 8015 Modified
- Polychlorinated Biphenyls (PCBs) and Pesticides by EPA method 8081
- Metals by EPA Method 6010A and 7000 series
- Total Cyanide by EPA Method 9010
- pH by EPA Method 9045/150.1

Additionally, the Selected Ion Monitoring (SIM) technique was used on the following four semi-volatile organic compounds in order to achieve detection limits lower than the Region IX PRGs (U.S.EPA, October 1999):

- benzo(a)pyrene
- dibenzo(a,h)anthracene
- n-nitrosodi-n-propylamine
- bis(2-chloroethyl)ether

SIM is a recognized gas chromatograph/mass spectrometer technique used to lower detection limits for organic compounds. As specified in EPA Method 8270B, semi-volatile compounds are introduced into the gas chromatograph by direct injection. The components of the sample are separated by the gas chromatograph and detected by the mass spectrometer, which provides both qualitative and quantitative information.

For each component or compound separated by the gas chromatograph, the mass spectrometer produces a characteristic mass spectrum. The mass spectrometer ionizes the sample molecules and separates any resulting fragments by mass-to-charge (m/z) ratios. The

fragmentation pattern is used to determine the structure of the original molecule. The intensity of one or more of the fragments is used to quantitate the identified compound.

Upon identification of a target compound by comparison of the acquired mass spectrum with the mass spectrum of a standard, EPA Method 8270B specifies a fragment or characteristic ion to use for quantitation of the analyte. Method 8270B requires that the mass spectrometer scan from 35 to 500 amu (m/z) every 1-second or less. In SIM, the entire mass range is not scanned. Typically, only a few m/z are monitored. As a result, the mass spectrometer is able to collect more data from a specific m/z, resulting in an improved signal-to-noise ratio, which in turn improves detection limits. There is, however, a practical limitation to the number of m/z that can be monitored at one time so that the total scan time does not exceed 1 second. As a result, the number of compounds that can be measured in a single SIM analysis is limited.

4.3 Laboratory Analytical Results

This section provides summary and assessment of the analytical results from the sampling performed at TAA 771. The analytical results for the confirmation soil samples at TAA 771 with comparison to the background concentrations and PRGs are presented in Table 4-2, Summary of Analytical Results for Confirmation Soil Samples – TAA 771. QC sample analytical data for TAA 771 are presented in Table 4-3, Summary of Analytical Results for QC Samples – TAA 771. Rinse and source water analytical data for TAA 771 are presented in Table 4-4, Summary of Analytical Results for Rinse Water Samples – TAA 771. The hard copies of the analytical results with QA/QC data obtained from VOC Analytical Laboratory are included in Appendix G, Laboratory Analytical Results.

4.3.1 Soil Sample Analytical Results

Volatile Organic Compounds (VOCs) — VOCs were not detected above the laboratory reporting limits for all confirmation soil samples collected from TAA 771.

Semi-Volatile Organic Compounds (SVOCs) — No SVOCs were detected above the laboratory reporting limits in all confirmation soil samples collected from TAA 771. However, the reporting limit for hexachlorobenzene exceeded the residential PRG for all confirmation soil samples, and the reporting limits for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perlyene, benzo(k)fluoranthene, chrysene, dibenz(a.h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene exceeded the background level concentrations.

The following four SVOCs were analyzed using the SIM technique to ensure that the laboratory reporting limits were lower than the residential PRGs:

- benzo(a)pyrene
- dibenzo(a,h)anthracene
- n-nitrosodi-n-propylamine

- bis(2-chloroethyl)ether

The OHM criterion for acceptance of this SIM data was that the laboratory MDL must be equal to or less than half of the PRG.

Total Petroleum Hydrocarbons (TPH) — TPH as gasoline, JP-5, and diesel were not detected above the laboratory reporting limits for all confirmation soil samples collected from TAA 771.

PCBs/Pesticides — PCB/pesticide compounds were not detected above the laboratory reporting limits for all confirmation soil samples collected from TAA 771 except for 4,4'-DDE and 4,4'-DDT detected at 3.0 and 15 ug/kg, respectively. Additionally, the reporting limits for alpha-chlordane, endosulfan I, endosulfan II, endrin, endrin aldehyde, and gamma-chlordane exceeded the established background concentrations for many of the confirmation soil samples.

Metals — Various metal results for the confirmation soil samples were above the established background levels as noted by the "B" qualifier in Table 4–2, Summary of Analytical Results for Confirmation Soil Samples.

The following table illustrates the metal results that are above residential or industrial PRGs:

Sample Number	Sample Location	Concentrations Exceeding Residential PRGs	Concentrations Exceeding Industrial PRGs
18609-610	TAA771-SBA	Arsenic (4.6 mg/kg)	Arsenic (4.6 mg/kg)
		Iron (27000 mg/kg)	N/A
		Thallium (7.1 U mg/kg)	N/A
18609-612	TAA771-SBB	Arsenic (13 mg/kg)	Arsenic (13 mg/kg)
		Thallium (5.5 U mg/kg)	N/A
18609-613	TAA771-SBB	Arsenic (1.5 mg/kg)	N/A
18609-614	TAA771-SBC	Arsenic (2.2 mg/kg)	N/A
		Thallium (5.7 U mg/kg)	N/A
18609-616	TAA771-SBD	Arsenic (2.6 mg/kg)	N/A
		Thallium (5.6 U mg/kg)	N/A
18609-618	TAA771-SBE	Arsenic (1.8 mg/kg)	N/A
		Thallium (5.6 U mg/kg)	N/A

mg/kg – milligrams per kilogram
N/A – not applicable
U – not detected

Total Cyanide — Total cyanide was not detected above the laboratory reporting limits for all confirmation soil samples collected from TAA 771.

4.3.2 Rinsate Sample Analytical Results

One source blank sample (18609-743) and one rinse water sample (18609-759) were collected at TAA 771. The samples were analyzed for VOCs, SVOCs, TPH, PCBs/Pesticides, Metals, total cyanide, and pH. Analytes detected in the rinse water are

consistent with the analytes present in the source blank sample. Various organic analytes and metals are present in both the rinse and/or the source water sample. Analytes were detected at levels expected in fire hydrant water.

4.3.3 QC Sample Analytical Results

Three trip blanks were collected for TAA 771 (18609-636, 18609-760, and 18609-742). Trip blanks were analyzed for TPH as Gasoline and/or VOCs, and all analytes were not detected except sample number 18609-609 where ethylbenzene was detected as 0.63 J ug/L (which is below the reporting limit for ethylbenzene).

One equipment rinsate samples (18609-637A) was collected and analyzed for VOCs and TPH. All analytes detected were less than the reporting limits.

4.4 Data Quality Assessment

The TAA 771 analytical data were reviewed and validated with respect to the QA/QC parameters specified in the work plan. The following were evaluated:

- EPA recommended holding times
- cooler condition upon receipt by the laboratory
- initial and continuing calibration standards
- method blanks
- surrogate recoveries
- matrix spike/matrix spike duplicate (MS/MSD) recoveries
- laboratory control samples (LCS) recoveries

All samples were prepared and analyzed within EPA recommended holding times. The sample cooler was received intact and within the required temperature range of 4±2 degrees Celsius. Any sample results associated with QC parameters that were out of compliance with the Work Plan have been flagged and annotated in Tables 4-2 through 4-4. All data are useable as qualified.

4.5 Data Validation

This section addresses the validity and quality of the data collected from TAA 771. Analytical data were reviewed and validated in accordance with the EPA *National Functional Guidelines for Organic and Inorganic Data Review* (U.S.EPA, 1994). Laboratory Data Consultants (LDC), an independent data validation company, performed Level III and Level IV validation on the data. A hard copy of the LDC report is provided in Appendix H, Data Validation Reports.

Laboratory analytical data were subjected to a four-stage process of evaluation: completeness checks; verification of hard copy and electronic results; validation of the data; and final evaluation based on the professional judgment of the project chemist.

The data were qualified by LDC to indicate whether the data has been affected by any deviation from the analytical protocols established in the Draft Supplemental Work Plan (OHM, 1997_a). Unusable data was qualified with an "R" (rejected). All other results were either unqualified (no flag), nondetected ("U" flag), nondetected with uncertainty in the report detection limits ("UJ" flag), or detected with uncertainty in the reported concentration ("J" flag).

4.5.1 Analytical Quality Control Program

This section provides a description of the field and laboratory QC sample results, which were used to evaluate the precision, accuracy, representativeness, completeness, and comparability.

Precision — Precision was evaluated based on the QC results submitted from the field and from the laboratory. The calculated relative percent difference (RPD) of MS/MSDs, laboratory control sample/laboratory control sample duplicates (LCS/LCSDs), and the field duplicate pair provided information on the precision of sampling and analytical procedures. RPDs for duplicate samples were not calculable when one or both results were not detected. The precision results for all the samples were within the required limits.

Accuracy — Evaluation of the percent recovery (%R) of spiked analytes in MS/MSD samples, LCS/LCSDs, and surrogates provide information on accuracy. In addition, the initial and continuing calibration results provided information on analytical accuracy. The accuracy results for all samples were within the required limits with the following exceptions:

- The initial calibration relative response factor (RRF) for acetone and vinyl acetate were out of QC limits; therefore, all soil confirmation samples were flagged as estimated with "UJ" since the analytes were not detected in those samples.
- The initial calibration RRF for acetone, vinyl acetate, and 2-butanone were out of QC limits; therefore, samples 18609-637A and 18609-636 were flagged as estimated with "UJ" since the analytes were not detected in those samples.
- The percent difference (%D) for carbon disulfide, 2-butanone, and 2-chloroethylvinyl ether were out of QC limits; therefore, samples 18609-610, 18609-612, 18609-614, and 18609-616 were flagged as estimated with "UJ" since the analytes were not detected in those samples.
- The %D for 2-hexanone was out of QC limits; therefore, samples 18609-611, 18609-613, 18609-617, 18609-618, and 18609-619 were flagged as estimated with "UJ" since the analytes were flagged as estimated with "UJ" since the analyte was not detected in those samples.

- The %D for 2-chloroethylvinyl ether was out of QC limits; therefore, samples 18609-636 and 18609-637A were flagged as estimated with "UJ" since the analyte was not detected in those samples.
- The continuing calibration RRF for vinyl acetate was out of QC limits; therefore, samples 18609-610, 18609-612, 18609-614, 18609-615, and 18609-616 were flagged as estimated with "UJ" since the analyte was not detected in those samples.
- The continuing calibration RRF for acetone, vinyl acetate, and 2-butanone were out of QC limits; therefore, samples 18609-611, 18609-613, 18609-617, 18609-618, 18609-619, 18609-636, and 18609-637A were flagged as estimated with "UJ" since the analytes were not detected in those samples.
- The initial calibration RRF for acetone, 2-butanone, and 4-methyl-2-pentanone were out of QC limits; therefore, samples 18609-759 and 18609-760 were flagged as estimated with "UJ" since the analytes were not detected in those samples.
- The continuing calibration RRF for 4-methyl-2-pentanone was out of QC limits; therefore, samples 18609-759 and 18609-760 were flagged as "UJ" since the analyte was not detected in those samples.
- The %D for aroclor-1260 was out of QC limits; therefore, sample 18609-759 was flagged as estimated with "UJ" since the analyte was not detected in this sample.
- The %R for the MS/MSD for 4,4'-DDT, dieldrin, endrin, and gamma-BHC were out of QC limits; therefore, sample 18609-759 was flagged as estimated with "UJ" since the analytes were not detected for this sample.
- The %R for MS for selenium was out of QC limits; therefore, sample 18609-759 was flagged as "UJ" since the analyte was not detected in this sample.
- The initial calibration RRF for acetone, 2-butanone, and 4-methyl-2-pentanone were out of QC limits; therefore, samples 18609-742 and 18609-743 were flagged as estimated with "UJ" since the analytes were not detected in those samples.
- The %D for chloroform, trichloroethene, and 4-methyl-2-pentanone were out of QC limits; therefore, samples 18609-742 and 18609-743 were flagged as estimated with "UJ" since the analytes were not detected in those samples.
- The continuing calibration RRF for acetone, 2-butanone, and 4-methyl-2-pentanone were out of QC limits; therefore, samples 18609-742 and 18609-743 were flagged as estimated with "UJ" since the analytes were not detected in those samples.
- The %R for the LCS for trichloroethene was out of QC limits; therefore, samples 18609-742 and 18609-743 were flagged as estimated with "UJ" since the analyte was not detected in those samples.
- The %R for the LCS for 4-nitrophenol was out of QC limits; therefore, sample 18609-743 was flagged as estimated with "UJ" since the analyte was not detected in this sample.

Representativeness — Representativeness was assessed through the evaluation of method blank and trip blank samples. Target analytes were not detected in the method and trip blank samples with the following exception:

- Acetone was detected in the method blank; therefore, samples 18609-613, 18609-636, and 18609-637A were changed to the reporting limit and flagged with a "U" for not detected.
- Di-n-butyl phthalate was detected in the method blank; therefore, samples 18609-610, 18609-612, 18609-614, 18609-616, and 18609-618 were changed to the reporting limit and flagged with a "U" for not detected.
- Bis (2-ethylhexyl) phthalate was detected in the method blank; therefore, sample 18609-759 was changed to the reporting limit and flagged with a "U" for not detected.
- Bis (2-ethylhexyl) phthalate was detected in the method blank; therefore, sample 18609-743 was changed to the reporting limit and flagged with a "U" for not detected.

Completeness — Completeness was evaluated in two criteria. The first criteria was assuring that all analytical requests were met, samples were received in the proper condition, and all analytes were performed within the technical holding times. The second criterion was evaluating the analytical completeness by calculating the percent of acceptable analytes. The completeness parameters are:

- the completeness goal for holding times is 100 percent
- the goal for sample collection and analysis frequency of duplicate and MS/MSD samples was 10 and 5 percent, respectively
- the percent analytical completeness goal was 90 percent

All samples were extracted and analyzed within the appropriate holding times. No duplicate samples were collected. The percent analytical completeness goal is based on a project-wide sampling program and cannot be assessed on a site-by-site basis.

Comparability — To ensure comparability, sampling was performed using standardized procedures. Laboratory procedures follow EPA analytical methods and the CA LUFT Manual guidelines. All soil samples were reported on a dry weight basis. The data were then evaluated for comparability of reporting detection limits (RDLs) and associated dilution factors. RDLs were elevated when samples required dilution to quantify target compounds within the linear range of the instrument or when there was sample matrix interference.

All reporting limits were achieved for VOCs, SVOCs, TPH, PCBs/Pesticides, Metals, total cyanide, and pH by the laboratory.

Summary — All data associated with TAA 771 were usable and acceptable as qualified. Overall precision and accuracy were met. The analytical results and associated qualifiers are summarized in Tables 4-2 through 4-4.

Section 5
Risk Characterization and Hazard Index Calculation

This section briefly describes the approach used to estimate risk and summarizes the baseline screening level risk assessment results for TAA 771. A screening level risk assessment for human health was conducted following the guidance provided in the EPA Region IX PRGs Memorandum (U.S. EPA, 1999). The results of confirmation soil sampling conducted at the TAA were used to calculate risks.

5.1 Physical Characteristics of TAA 771

Based on the review of the boring log of the groundwater monitoring well, TF1MW-02, the subsurface lithology at TAA 771 consists of primarily of silts, sands, and clays. These sediments have moderate-to-high porosity and low permeability. The groundwater is present at a depth of approximately 110 feet bgs. (OHM 1997_b).

5.2 Exposure Assessment

The TAA 771 was used as a temporary HWSA for storage of hazardous waste drums. The TAA 771 and surrounding area is paved. The land use scenario is currently considered to be industrial.

The Station officially closed on July 2, 1999 in accordance with the Base Closure and Realignment Act of 1993 (BRAC III). The TAA 771 is located within a parcel designated for terminal complex according to *the El Toro Community Reuse Plan, 1997 Working Draft,* (County of Orange 1997) as shown in Figure 1 of Appendix I. Also, TAA 771 is located within or near an area designated as terminal complex according to *The Airport and Open Space Plan, Concept C, Year 2020* as published by the County of Orange in August 1998, as shown in Figure 2, Appendix I.

There is limited exposure to soil because there is a concrete and asphalt surface over surrounding area of the site. The cover is expected to remain until the future land use as terminal complex. However, for screening purposes, the ingestion, dermal contact, and inhalation exposure pathways are assumed to be complete as if there were no cover. Should the screening fail, further evaluation of the exposure pathways would be required. Site conceptual model for TAA 771 is shown on Figure 5-1.

Under an industrial and/or residential land use scenario at TAA 771, workers or humans could be potentially exposed to surrounding soil by ingestion, dermal contact, or inhalation of dust or volatilized contaminants. These are the same exposure pathways evaluated by the EPA PRGs (U.S. EPA, 1999). Figure 5-2 presents the potential migration pathways at TAA 771.

For the purposes of this risk screening evaluation, the residential scenario is used as the worst case scenario. The current industrial use or future use as a terminal complex would have lower exposures and the risk would be less. If the risk is acceptable for the residential land use scenario, the risk would also be acceptable for both the current and future land use scenarios.

5.3 Toxicity Assessment

The PRGs incorporate the toxicity values from the Integrated Risk Information System, the Health Effects Assessment Summary Tables, and the National Center for Environmental Assessment. Cancer PRGs incorporate cancer toxicity values and the noncancer PRGs incorporate the toxicity values for chronic health effects other than cancer (EPA, 1999). Both cancer risk and noncancer hazards were evaluated in this screening risk assessment.

5.4 Risk Characterization

The PRGs are concentrations calculated using standard exposure factors that are protective of humans, including sensitive groups, over a lifetime. These PRG concentrations pose acceptable cancer risk or non-cancer hazard under the exposure scenarios evaluated. Generally, a cancer risk of 10^{-6} to 10^{-4} and a non-cancer hazard index of 1 or less are considered acceptable levels of exposure. The PRG concentrations are calculated to at a cancer risk level of $1x10^{-6}$ and a non-cancer hazard index of 1.

Cancer risk is calculated by dividing the site concentration by the PRG for each chemical. The ratios are added and multiplied by 10^{-6}. The hazard index is calculated by dividing the site concentration by the PRG for each chemical and adding the ratios.

At TAA 771, the detected carcinogens include 4,4'-DDE, 4'4'-DDT, arsenic, and chromium. The summed cancer risk for the potential future residential scenario after subtracting background is within the acceptable range at 1.5×10^{-5} as shown in Table 5-1, Risk Screening Worksheet for soil using Residential PRG values. Under the current industrial scenario the risk is 2.2×10^{-6} as shown in Table 5-2, Risk Screening Worksheet for soil using Industrial PRG values. Arsenic was the only carcinogen detected above the Station background concentrations. Arsenic was detected in all six samples at the concentrations; 13 mg/kg, 4.6 mg/kg, 2.6 mg/kg, 2.2 mg/kg, 1.8 mg/kg, and 1.5 mg/kg respectively. The average concentration is 4.3 mg/kg, which is below background (6.86 mg/kg).

The non-cancer hazard index (HI) for the potential future residential scenario was 2.0 using maximum concentrations (Table 5-1). However, the HI for the current industrial scenario is less than 1.0 (Table 5-2). Because the HI for the residential scenario was greater than 1.0, further evaluation of the average concentrations and target organ system endpoints was conducted for the potential contributors (Table 5-3).

Aluminum, arsenic, iron and manganese are the only contributors to the non-cancer hazard with a HI greater than 0.1. The maximum concentrations of the contributors were not in the

same sample. Iron was the only contributor with a HI greater than 1.0 (HI= 1.2). Iron is normally considered a human nutrient. However, at elevated concentrations, iron has been shown to effect soft tissue. Iron was detected in all five samples analyzed at the following concentrations: 27,000 mg/kg, 20,000 mg/kg, 18,000 mg/kg, 17,000 mg/kg, and 12,000 mg/kg. The average concentration is 18,800 mg/kg. The average concentration of iron results in a HI of 0.8.

Aluminum was detected in all five samples analyzed at the following concentrations: 19,000 mg/kg, 10,000 mg/kg, 9,200 mg/kg, 9,100 mg/kg, and 7,100 mg/kg. The average concentration is 10,880 mg/kg, which is less than the background concentration for aluminum (14,800 mg/kg). The average concentration of aluminum results in a HI of 0.1. The target organ system endpoint for aluminum is the central nervous system where it effects the brain (Alzheimer's disease).

Manganese was detected in all five samples at the following concentrations: 56 mg/kg, 240 mg/kg, 260 mg/kg, 300 mg/kg, and 340 mg/kg. The average concentration is 239 mg/kg, which is less than the background concentration of 291 mg/kg. The average concentration results in a HI of 0.1. The target organ system endpoint for manganese is the central nervous system.

The average concentration of arsenic is 4.3 mg/kg, which is less than the background concentration for arsenic (6.86 mg/kg). The average concentration of arsenic results in a HI of 0.2. The target organ system for arsenic is the skin.

The average concentration of the potential contributors is less than background concentrations and they do not share target organ system endpoints. Therefore, summing the HIs for the contributors is not appropriate and the HI is less than 1.0 for individual target organs.

A rinse water sample was collected from the concrete pad floor after decontamination activities at TAA 771. Rinse water sample analytes were compared to source water concentrations. The rinse water was determined to be within the range of source water concentrations.

Summary

The site-related incremental cancer risk and non-cancer hazard index at TAA 771 is acceptable for the following reasons:

- The cancer risk using maximum concentrations was within the acceptable range of 10^{-4} to 10^{-6} for the potential future residential scenario (1.5×10^{-5}) and for the current industrial scenario (2.2×10^{-6}). The risk was solely due to arsenic and further evaluation showed that the average concentration of arsenic was less than background.

- The non-cancer hazard index for detected chemicals is less than 1.0 for the current industrial scenario.

- The average concentrations of the contributors to the HI for the potential future residential scenario were less than background concentrations. The contributors did not share target organs and the HI for each individual target organ system endpoint was less than 1.0 using average concentrations.

Section 6
Conclusions and Recommendations

The following conclusions are based upon existing background information, previous field investigations, and OHM's confirmation soil sampling analytical results and screening level risk assessment calculations:

- The TAA 771 (SWMU 224), a permitted temporary HWSA was identified by JEG during the RFA PR/VSI field visit in May 1991. JEG observed that the TAA 771 was not in use and no significant stains or cracks on the concrete pad. Although there was no evidence of a release during site visit at TAA 771, but since all past permitted HWSAs were recommended for sampling visit by JEG. Therefore, as part of the VSI evaluation process JEG recommended *"Sampling Visit"* for TAA 771.

- During the sampling visit, JEG advanced one angle soil boring (224A1) to a depth of 60 feet bgs in close proximity of TAA 771 and collected six samples. Analysis of all six-soil samples did not indicate presence of TPH, VOCs, SVOCs, pesticide and PCB compounds. As a results of these findings JEG recommended *"NFA"* for SWMU 224 (TAA 771).

- BNI visited TAA 771 in November 1995 and found inactive, vacant concrete pad. No waste or staining from release was observed at the TAA 771 site. Therefore, BNI performed no soil sampling at the TAA 771 site.

- OHM observed vacant TAA 771 during the site visits conducted in January 1996 and October 13, 1997. No visible stains or evidence of spills were observed at the TAA 771 site.

- OHM collected 10 confirmation soil samples from five hand augur borings at TAA 771. Based on the review of analytical data, no indications of hazardous contaminants (i.e., previous spills) were found in the soil under or around TAA 771. Therefore, the temporary use of the DSA did not impact the concrete pad and soil beneath or around the TAA 771.

- TPH, VOCs, SVOCs, pesticides, and most of the metal compounds from all 10-confirmation soil samples were not detected above the laboratory reporting limits. 4,4'-DDE, 4,4' DDT, arsenic and chromium (only carcinogens) were detected in the soil above the laboratory reporting limits and were analyzed to determine the risk associated with their presence.

- The various metal compounds detected in the rinsate sample were consistent in identity and concentration with the metals and levels measured in the source water. Alkali metals, iron, zinc, THMs and BEHP are commonly found in chlorinated potable water supplies such as the source water used for the decontamination of TAA 771.

- The residential risk calculations for TAA 771 resulted in a site-related cancer risk less background risk of 1.5×10^{-5} and a site-related residential noncancer HI does not significantly exceed 1.0 for any individual target organ. Both of which are generally accepted levels of exposure.

The objectives of this project are considered to be achieved, since TAA 771 is no longer used for storage of hazardous wastes. Decontamination activities (vacuuming, scrubbing, and pressure washing) were performed at TAA 771 to remove any possible contamination, and confirmation soil sampling was conducted at the TAA 771 site to verify that concentrations of contaminants were at or below acceptable background or health-risk based concentrations.

Based on the information provided, closure goals were achieved with respect to soil and rinsate water for TAA 771; therefore, TAA 771 (also known as SWMU 224) should be identified as "closed."

Section 7
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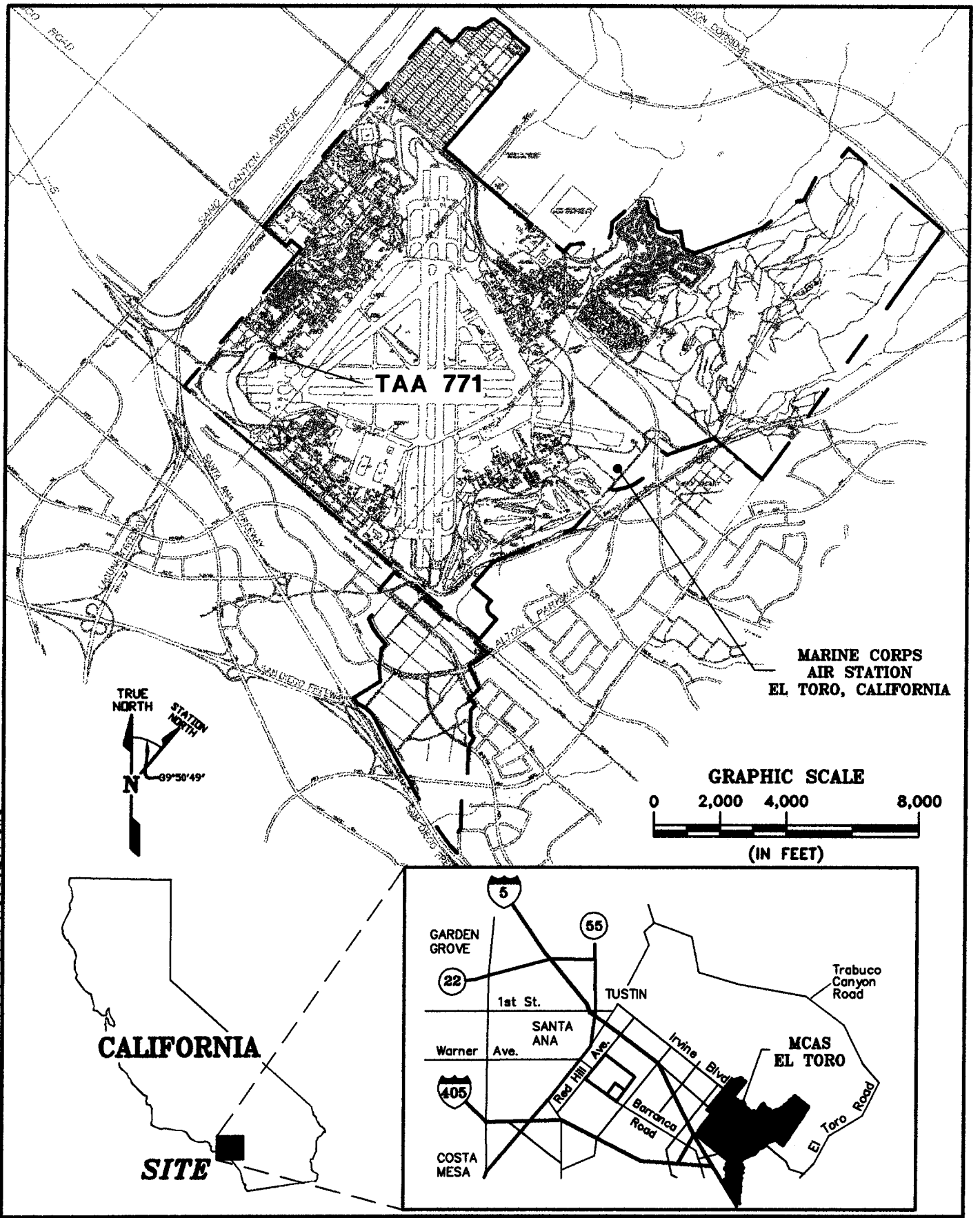
Figures



OHM Remediation Services Corp. A Subsidiary of OHM Corporation SAN DIEGO, CA	DRAWN BY R. PIRMORADIAN	DATE 11/10/99				FACILITY LOCATION MAP TAA 771		
	CHECKED BY DR	DATE 11/12/99						
	APPROVED BY	DATE						
CONTRACT NAME SWDIV	PROJECT MANAGER	DATE 12/10/99				MARINE CORPS AIR STATION EL TORO, CALIFORNIA		
AUTOCAD FILE No. 18609267.DWG	PLOT SCALE 1=1	SHEET 1	OF 1	SCALE 1"=4,000'	DOCUMENT CONTROL No. SW5983	OHM PROJECT No. 18609	FIGURE No. FIG 1-1	REVISION 0

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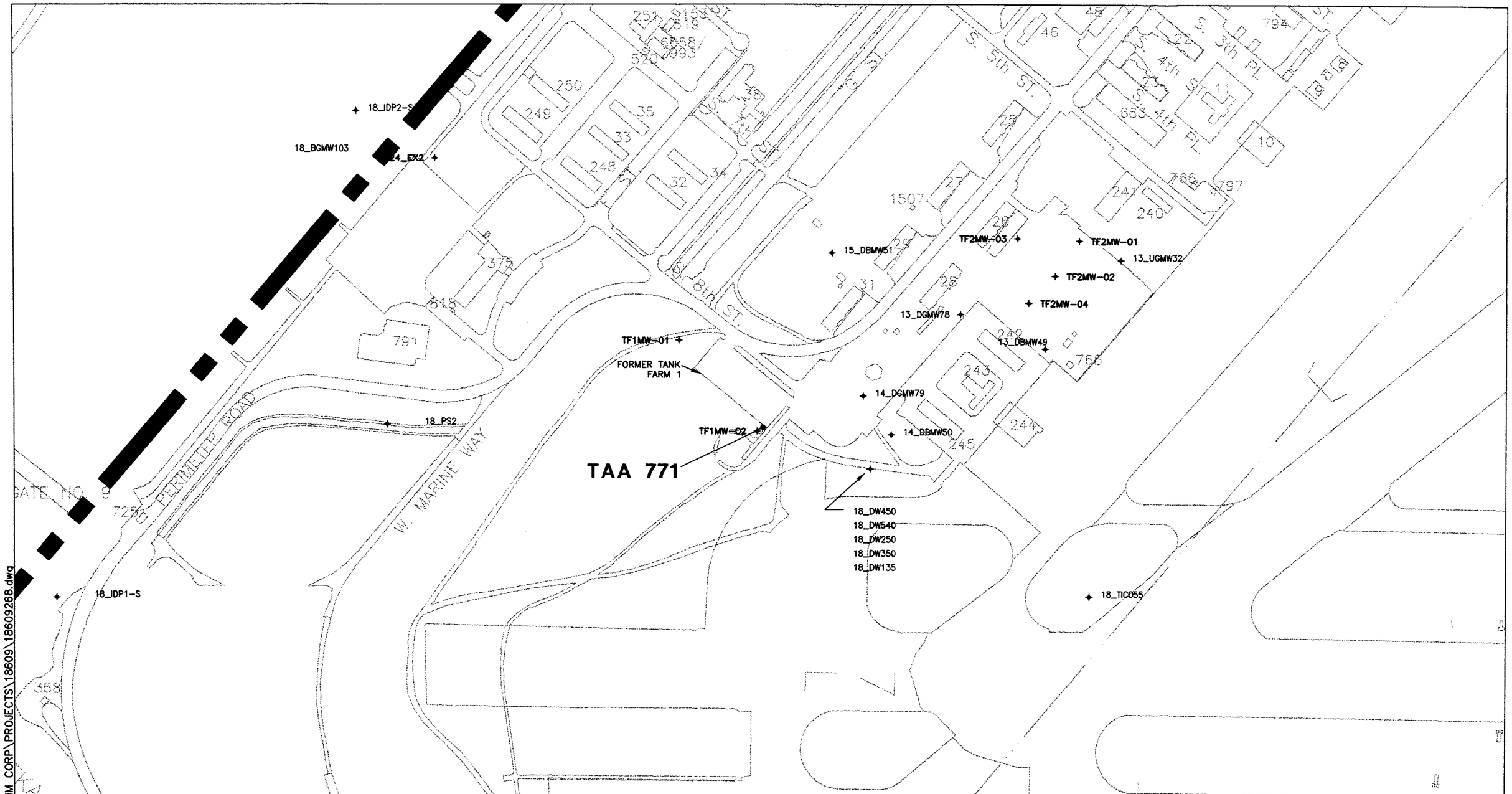

EXPLANATION:

UNDERGROUND STORAGE TANKS

✦ GROUNDWATER MONITORING WELL

TRUE NORTH
STATION NORTH
N
39°50'49"

GRAPHIC SCALE

0 150 300 600

(IN FEET)

REVISIONS			
REV. No.	DESCRIPTION	DATE	APPROVED

CONTRACT NAME: SWDIV

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation
IRVINE, CA

DRAWN BY: R. PIRMORADIAN — DATE: 12/09/99
CHECKED BY: DR — DATE: 12/9/99
APPROVED BY — DATE
PROJECT MANAGER — DATE: 12/10/99
AUTOCAD FILE No.: 18609268.DWG

LOCATION MAP
TAA 771

MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

SCALE	SHEET	OF	DOCUMENT CONTROL No.	OHM PROJECT No.	DRAWING No.
1"=300'	1	1	SW5983	18609	FIG 1-2

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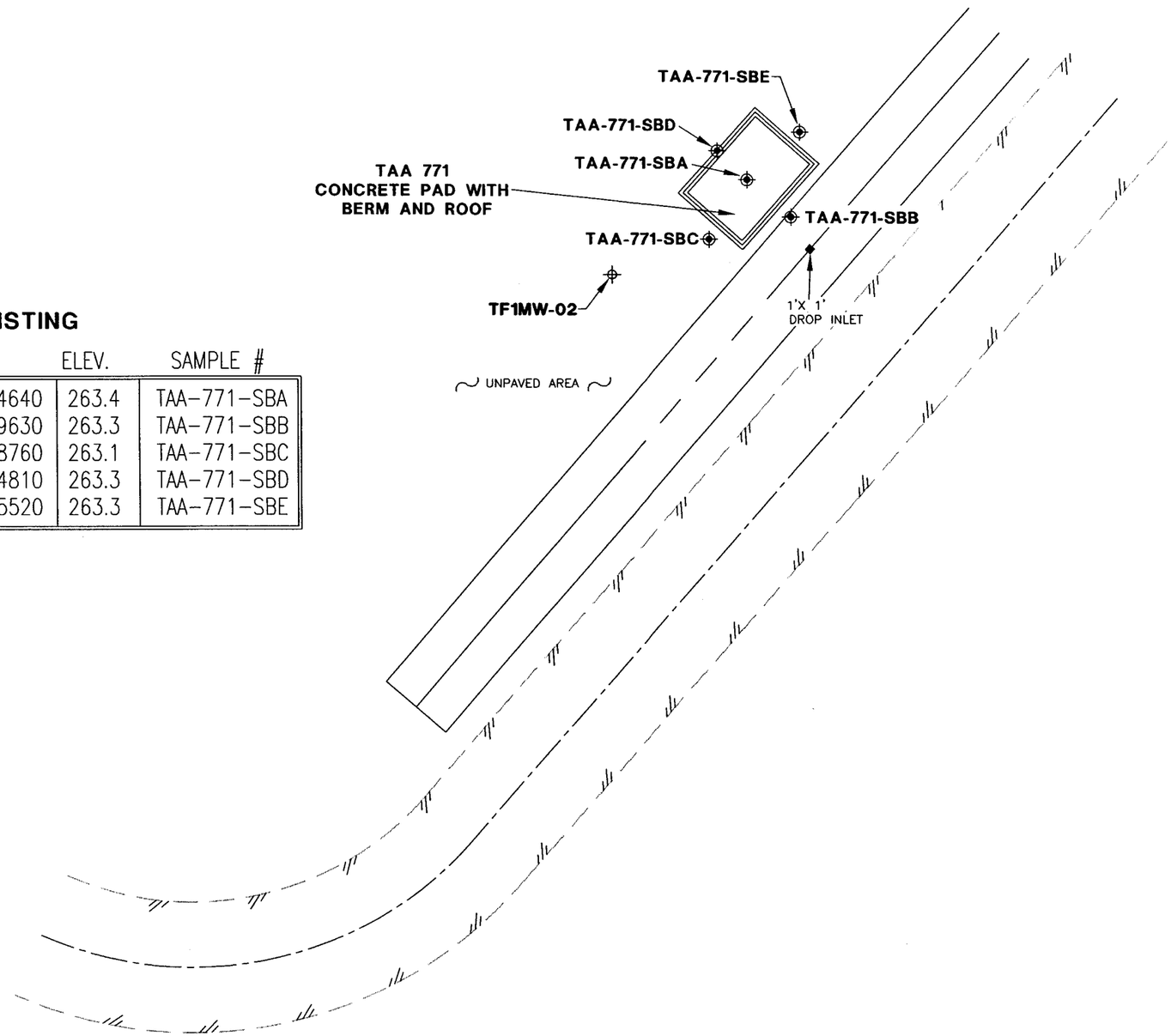

SAMPLE COORDINATE LISTING

NORTHING	EASTING	ELEV.	SAMPLE #
2192089.459750	6107040.934640	263.4	TAA-771-SBA
2192083.766360	6107047.639630	263.3	TAA-771-SBB
2192080.331860	6107035.108760	263.1	TAA-771-SBC
2192093.884270	6107036.414810	263.3	TAA-771-SBD
2192096.775510	6107049.025520	263.3	TAA-771-SBE

EXPLANATION:

- GROUNDWATER MONITORING WELL
- SAMPLE LOCATION
- CENTERLINE OF STREET
- EDGE OF PAVEMENT
- DROP INLET

GRAPHIC SCALE

0 10 20 40

(IN FEET)

REVISIONS			
REV. No.	DESCRIPTION	DATE	APPROVED
01	97102-40.DWG BY CALVADA SURVEYING, INC.		

CONTRACT NAME	SWDIV
DRAWN BY	R. PIRMORADIAN — DATE 12/09/99
CHECKED BY	DR — DATE 12/9/99
APPROVED BY	DATE
PROJECT MANAGER	W. Stelle — DATE 12/10/99
AUTOCAD FILE No.	18609266.DWG

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation
IRVINE, CA

SITE PLAN
TAA 771

MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

SCALE	SHEET	OF	DOCUMENT CONTROL No.	OHM PROJECT No.	DRAWING No.
1"=20'	1	1	SW5983	18609	FIG 3-1

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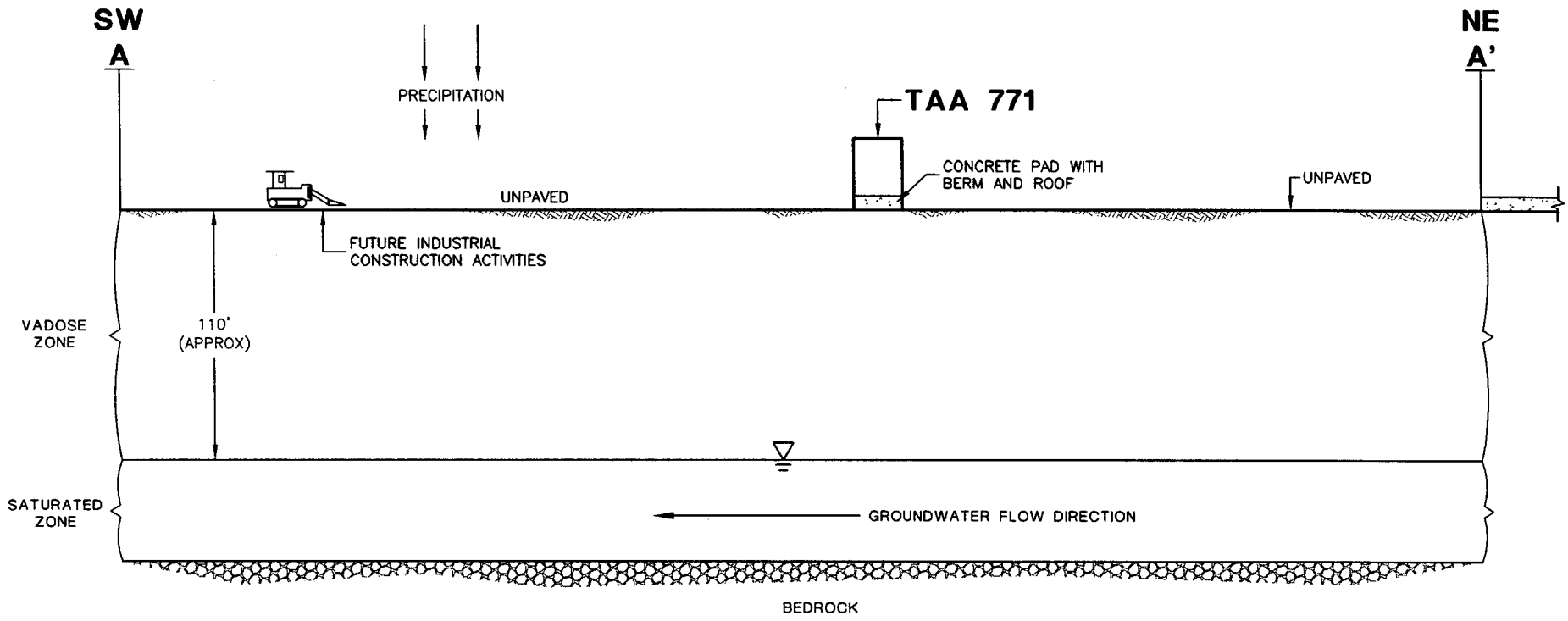


EXPLANATION:

RECEPTORS:

WORKERS

PATHWAYS:

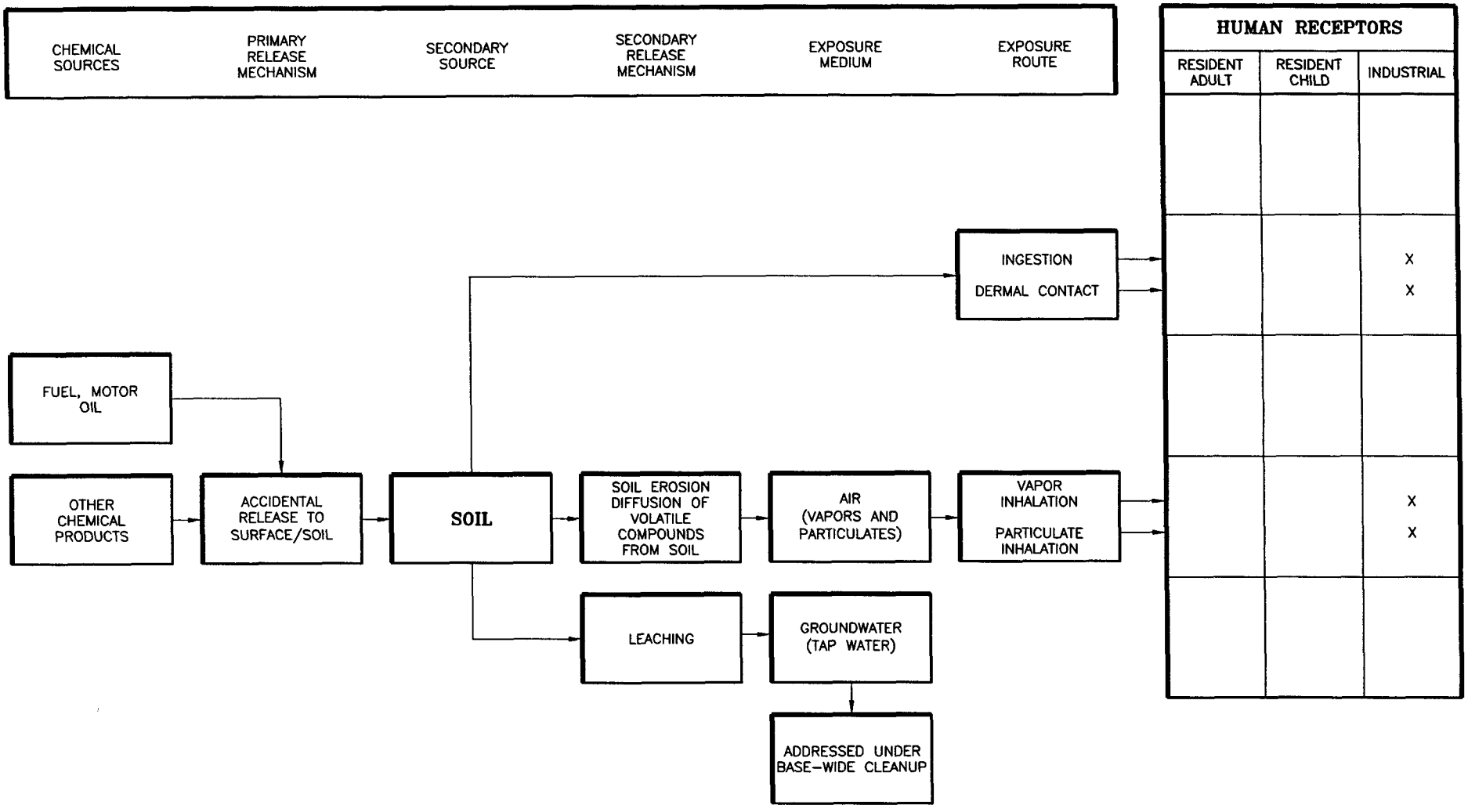
GROUNDWATER

PRECIPITATION

REFERENCE:
103M2088.DWG

OHM Remediation Services Corp. A Subsidiary of OHM Corporation SAN DIEGO, CA			DRAWN BY R. PIRMORADIAN	DATE 11/10/99	CONCEPTUAL SITE MODEL TAA 771		
			CHECKED BY DR	DATE 11/12/99			
			APPROVED BY	DATE			
CONTRACT NAME SWDIV			PROJECT MANAGER	DATE 12/10/99	MARINE CORPS AIR STATION EL TORO, CALIFORNIA		
AUTOCAD FILE No. 18609275.DWG	PLOT SCALE 1=1	SHEET 1	OF 1	SCALE NONE	DOCUMENT CONTROL No. SW5983	OHM PROJECT No. 18609	FIGURE No. FIG 5-1

Nov 10, 1999 – 22:47:37 I:\OHM CORP\PROJECTS\18609\18609274.dwg



EXPLANATION:

X COMPLETE PATHWAY

REFERENCE:
103C2089.DXF

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation
SAN DIEGO, CA

CONTRACT NAME: SWDIV

DRAWN BY: R. PIRMORADIAN DATE: 11/10/99
CHECKED BY: DR DATE: 11/12/99
APPROVED BY: DATE:
PROJECT MANAGER: W. Seddle DATE: 12/10/99

POTENTIAL MIGRATION PATHWAYS
EXPOSURE ROUTES AND RECEPTORS
TAA 771

MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

AUTOCAD FILE No.	PLOT SCALE	SHEET	OF	SCALE	DOCUMENT CONTROL No.	OHM PROJECT No.	FIGURE No.
18609274.DWG	1=1	1	1	NONE	SW5983	18609	FIG 5-2

Tables

Table 4 - 1
Sample Collection Summary Log — TAA 771

Field Sample Identification	Sample Location	Sample Depth	Date Sampled	TPH AS GASOLINE	TPH AS DIESEL	TPH AS JP-5	EPA 8260A	EPA 8270B	EPA 8081	EPA 6010A	EPA 7060A
18609-610	TAA771-SBA	1.5	10/16/97	X	X	X	X	X	X	X	X
18609-611	TAA771-SBA	3.0	10/16/97				X				
18609-612	TAA771-SBB	1.5	10/16/97	X	X	X	X	X	X	X	X
18609-613	TAA771-SBB	3.0	10/16/97				X				X
18609-614	TAA771-SBC	1.5	10/16/97	X	X	X	X	X	X	X	X
18609-615	TAA771-SBC	3.0	10/16/97				X				
18609-616	TAA771-SBD	1.5	10/16/97	X	X	X	X	X	X	X	X
18609-617	TAA771-SBD	3.0	10/16/97				X				
18609-618	TAA771-SBE	1.5	10/16/97	X	X	X	X	X	X	X	X
18609-619	TAA771-SBE	3.0	10/16/97				X				
18609-636	Trip Blank	-	10/16/97	X			X				
18609-637A	Equipment Rinsate	-	10/16/97	X	X	X	X				
18609-742	Trip Blank	-	10/30/97	X			X				
18609-743	Source Blank	-	10/30/97	X	X	X	X	X	X	X	X
18609-759	TAA771-Rinse	-	11/05/97	X	X	X	X	X	X	X	X
18609-760	Trip Blank	-	11/05/97	X			X				

Table 4 - 1
Sample Collection Summary Log — TAA 771

Field Sample Identification	Sample Location	Sample Depth	Date Sampled	EPA 7421	EPA 7470A	EPA 7471A	EPA 7740	EPA 9010A	EPA 9040/9045
18609-610	TAA771-SBA	1.5	10/16/97	X		X	X	X	X
18609-611	TAA771-SBA	3.0	10/16/97						
18609-612	TAA771-SBB	1.5	10/16/97	X		X	X	X	X
18609-613	TAA771-SBB	3.0	10/16/97						
18609-614	TAA771-SBC	1.5	10/16/97	X		X	X	X	X
18609-615	TAA771-SBC	3.0	10/16/97						
18609-616	TAA771-SBD	1.5	10/16/97	X		X	X	X	X
18609-617	TAA771-SBD	3.0	10/16/97						
18609-618	TAA771-SBE	1.5	10/16/97	X		X	X	X	X
18609-619	TAA771-SBE	3.0	10/16/97						
18609-636	Trip Blank	-	10/16/97						
18609-637A	Equipment Rinsate	-	10/16/97						
18609-742	Trip Blank	-	10/30/97						
18609-743	Source Blank	-	10/30/97	X	X		X	X	X
18609-759	TAA771-Rinse	-	11/05/97	X	X		X	X	X
18609-760	Trip Blank	-	11/05/97						

Table 4 - 2
Summary of Analytical Results for Confirmation Soil Samples — TAA 771

OHM Sample Number					18609-610	18609-611	18609-612	18609-613	18609-614
Sample Location					TAA771-SBA	TAA771-SBA	TAA771-SBB	TAA771-SBB	TAA771-SBC
Date Collected					10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Sample Depth (feet below ground surface)					1.5	3.0	1.5	3.0	1.5
	Unit	Background	PRG Residential	PRG Industrial					
CA LUFT 8015M									
TPH as Diesel	mg/kg	NE	NE	NE	14 U	NA	11 U	NA	11 U
TPH as Gasoline	mg/kg	NE	NE	NE	14 U	NA	11 U	NA	11 U
TPH as JP-5	mg/kg	NE	NE	NE	14 U	NA	11 U	NA	11 U
EPA 8081									
4,4'-DDD	µg/kg	36.1	2400	17000	2.9 U	NA	2.2 U	NA	2.3 U
4,4'-DDE	µg/kg	145	1700	12000	2.9 U	NA	2.2 U	NA	2.3 U
4,4'-DDT	µg/kg	236	1700	12000	2.9 U	NA	2.2 U	NA	2.3 U
Aldrin	µg/kg	NE	29	150	2.9 U	NA	2.2 U	NA	2.3 U
alpha-BHC	µg/kg	NE	90	590	1 U	NA	0.77 U	NA	0.8 U
alpha-Chlordane	µg/kg	2.24	1600	11000	2.9 U B	NA	2.2 U	NA	2.3 U B
Aroclor-1016	µg/kg	NE	3900	29000	47 U	NA	37 U	NA	37 U
Aroclor-1221	µg/kg	NE	220	1000	47 U	NA	37 U	NA	37 U
Aroclor-1232	µg/kg	NE	220	1000	47 U	NA	37 U	NA	37 U
Aroclor-1242	µg/kg	NE	220	1000	47 U	NA	37 U	NA	37 U
Aroclor-1248	µg/kg	NE	220	1000	47 U	NA	37 U	NA	37 U
Aroclor-1254	µg/kg	NE	220	1000	47 U	NA	37 U	NA	37 U
Aroclor-1260	µg/kg	NE	220	1000	47 U	NA	37 U	NA	37 U
Beta-BHC	µg/kg	NE	320	2100	2.9 U	NA	2.2 U	NA	2.3 U
Delta-BHC	µg/kg	NE	NE	NE	2.9 U	NA	2.2 U	NA	2.3 U
Dieldrin	µg/kg	19.9	30	150	2.9 U	NA	2.2 U	NA	2.3 U
Endosulfan I	µg/kg	0.179	370000	5300000	1 U B	NA	0.77 U B	NA	0.8 U B
Endosulfan II	µg/kg	2.22	370000	5300000	2.9 U B	NA	2.2 U	NA	2.3 U B
Endosulfan sulfate	µg/kg	3.1	NE	NE	2.9 U	NA	2.2 U	NA	2.3 U
Endrin	µg/kg	2.22	18000	260000	2.9 U B	NA	2.2 U	NA	2.3 U B
Endrin aldehyde	µg/kg	2.22	NE	NE	2.9 U B	NA	2.2 U	NA	2.3 U B
gamma-BHC	µg/kg	NE	440	2900	2.9 U	NA	2.2 U	NA	2.3 U
gamma-Chlordane	µg/kg	2.7	1600	11000	2.9 U B	NA	2.2 U	NA	2.3 U
Heptachlor	µg/kg	NE	110	550	2.9 U	NA	2.2 U	NA	2.3 U
Heptachlor epoxide	µg/kg	NE	53	270	2.9 U	NA	2.2 U	NA	2.3 U
Methoxychlor	µg/kg	NE	310000	4400000	2.9 U	NA	2.2 U	NA	2.3 U

Table 4 - 2
Summary of Analytical Results for Confirmation Soil Samples — TAA 771

OHM Sample Number					18609-610	18609-611	18609-612	18609-613	18609-614
Sample Location					TAA771-SBA	TAA771-SBA	TAA771-SBB	TAA771-SBB	TAA771-SBC
Date Collected					10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Sample Depth (feet below ground surface)					1.5	3.0	1.5	3.0	1.5
	Unit	Background	PRG Residential	PRG Industrial					
EPA 8260A									
1,1,1-Trichloroethane	µg/kg	NE	770000	1400000	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
1,1,2,2-Tetrachloroethane	µg/kg	NE	380	900	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
1,1,2-Trichloroethane	µg/kg	NE	840	1900	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
1,1-Dichloroethane	µg/kg	NE	590000	2100000	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
1,1-Dichloroethene	µg/kg	NE	54	120	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
1,2-Dichloroethane	µg/kg	NE	350	760	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
1,2-Dichloropropane	µg/kg	NE	350	770	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
2-Butanone (MEK)	µg/kg	NE	7300000	28000000	71 UJ	57 UJ	55 UJ	53 UJ	57 UJ
2-Chloroethyl vinyl ether	µg/kg	NE	NE	NE	71 UJ	57 U	55 UJ	53 U	57 UJ
2-Hexanone	µg/kg	NE	NE	NE	71 U	57 UJ	55 U	53 UJ	57 U
4-Methyl-2-pentanone (MIBK)	µg/kg	NE	790000	2900000	71 U	57 U	55 U	53 U	57 U
Acetone	µg/kg	NE	1600000	6200000	71 UJ	57 UJ	55 UJ	53 UJ	57 UJ
Benzene	µg/kg	NE	670	1500	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
Bromodichloromethane	µg/kg	NE	1000	2400	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
Bromoform	µg/kg	NE	62000	310000	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
Bromomethane	µg/kg	NE	3900	13000	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
Carbon disulfide	µg/kg	NE	360000	720000	7.1 UJ	5.7 U	5.5 UJ	5.3 U	5.7 UJ
Carbon tetrachloride	µg/kg	NE	240	530	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
Chlorobenzene	µg/kg	NE	150000	540000	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
Chloroethane	µg/kg	NE	3000	6500	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
Chloroform	µg/kg	NE	240	520	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
Chloromethane	µg/kg	NE	1200	2700	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
cis-1,2-Dichloroethene	µg/kg	NE	43000	150000	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
cis-1,3-Dichloropropene	µg/kg	NE	82	180	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
Dibromochloromethane	µg/kg	NE	1100	2700	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
Ethylbenzene	µg/kg	NE	230000	230000	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
Methyl tert-butyl ether (MTBE)	µg/kg	NE	NE	NE	14 U	11 U	11 U	11 U	11 U
Methylene chloride	µg/kg	NE	8900	21000	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
Styrene	µg/kg	NE	1700000	1700000	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
Tetrachloroethene	µg/kg	NE	5700	19000	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U

Table 4 - 2
Summary of Analytical Results for Confirmation Soil Samples — TAA 771

OHM Sample Number					18609-610	18609-611	18609-612	18609-613	18609-614
Sample Location					TAA771-SBA	TAA771-SBA	TAA771-SBB	TAA771-SBB	TAA771-SBC
Date Collected					10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Sample Depth (feet below ground surface)					1.5	3.0	1.5	3.0	1.5
	Unit	Background	PRG Residential	PRG Industrial					
Toluene	µg/kg	NE	520000	520000	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
trans-1,2-Dichloroethene	µg/kg	NE	63000	210000	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
trans-1,3-Dichloropropene	µg/kg	NE	82	180	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
Trichloroethene	µg/kg	NE	2800	6100	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
Vinyl acetate	µg/kg	NE	430000	1400000	14 UJ	11 UJ	11 UJ	11 UJ	11 UJ
Vinyl chloride	µg/kg	NE	22	49	7.1 U	5.7 U	5.5 U	5.3 U	5.7 U
Xylenes (total)	µg/kg	NE	210000	210000	21 U	17 U	17 U	16 U	17 U
EPA 8270B									
1,2,4-Trichlorobenzene	µg/kg	NE	650000	3000000	470 U	NA	370 U	NA	370 U
1,2-Dichlorobenzene	µg/kg	NE	370000	370000	470 U	NA	370 U	NA	370 U
1,3-Dichlorobenzene	µg/kg	NE	13000	52000	470 U	NA	370 U	NA	370 U
1,4-Dichlorobenzene	µg/kg	NE	3400	8100	470 U	NA	370 U	NA	370 U
2,4,5-Trichlorophenol	µg/kg	NE	6100000	88000000	470 U	NA	370 U	NA	370 U
2,4,6-Trichlorophenol	µg/kg	NE	44000	220000	470 U	NA	370 U	NA	370 U
2,4-Dichlorophenol	µg/kg	NE	180000	2600000	470 U	NA	370 U	NA	370 U
2,4-Dimethylphenol	µg/kg	NE	1200000	18000000	470 U	NA	370 U	NA	370 U
2,4-Dinitrophenol	µg/kg	NE	120000	1800000	1200 U	NA	920 U	NA	940 U
2,4-Dinitrotoluene	µg/kg	NE	120000	1800000	470 U	NA	370 U	NA	370 U
2,6-Dinitrotoluene	µg/kg	NE	61000	880000	470 U	NA	370 U	NA	370 U
2-Chloronaphthalene	µg/kg	NE	4900000	27000000	470 U	NA	370 U	NA	370 U
2-Chlorophenol	µg/kg	NE	63000	240000	470 U	NA	370 U	NA	370 U
2-Methyl-4,6-dinitrophenol	µg/kg	NE	NE	NE	1200 U	NA	920 U	NA	940 U
2-Methylnaphthalene	µg/kg	NE	NE	NE	470 U	NA	370 U	NA	370 U
2-Methylphenol	µg/kg	NE	3100000	44000000	470 U	NA	370 U	NA	370 U
2-Nitroaniline	µg/kg	NE	3500	50000	470 U	NA	370 U	NA	370 U
2-Nitrophenol	µg/kg	NE	NE	NE	470 U	NA	370 U	NA	370 U
3,3'-Dichlorobenzidine	µg/kg	NE	1100	5500	470 U	NA	370 U	NA	370 U
3-Methyl-4-chlorophenol	µg/kg	NE	NE	NE	470 U	NA	370 U	NA	370 U
3-Nitroaniline	µg/kg	NE	NE	NE	470 U	NA	370 U	NA	370 U
4-Bromophenyl phenyl ether	µg/kg	NE	NE	NE	470 U	NA	370 U	NA	370 U
4-Chloroaniline	µg/kg	NE	240000	3500000	470 U	NA	370 U	NA	370 U

Table 4 - 2
Summary of Analytical Results for Confirmation Soil Samples — TAA 771

OHM Sample Number					18609-610	18609-611	18609-612	18609-613	18609-614
Sample Location					TAA771-SBA	TAA771-SBA	TAA771-SBB	TAA771-SBB	TAA771-SBC
Date Collected					10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Sample Depth (feet below ground surface)					1.5	3.0	1.5	3.0	1.5
	Unit	Background	PRG Residential	PRG Industrial					
4-Chlorophenyl phenyl ether	µg/kg	NE	NE	NE	470 U	NA	370 U	NA	370 U
4-Methylphenol	µg/kg	NE	310000	4400000	470 U	NA	370 U	NA	370 U
4-Nitroaniline	µg/kg	NE	NE	NE	470 U	NA	370 U	NA	370 U
4-Nitrophenol	µg/kg	NE	490000	7000000	1200 U	NA	920 U	NA	940 U
Acenaphthene	µg/kg	NE	3700000	38000000	470 U	NA	370 U	NA	370 U
Acenaphthylene	µg/kg	NE	NE	NE	470 U	NA	370 U	NA	370 U
Anthracene	µg/kg	NE	22000000	100000000	470 U	NA	370 U	NA	370 U
Benzo[a]anthracene	µg/kg	22	620	2900	470 U B	NA	370 U B	NA	370 U B
Benzo[a]pyrene	µg/kg	27	62	290	47 U B	NA	37 U B	NA	37 U B
Benzo[b]fluoranthene	µg/kg	28	620	2900	470 U B	NA	370 U B	NA	370 U B
Benzo[ghi]perylene	µg/kg	29	NE	NE	470 U B	NA	370 U B	NA	370 U B
Benzo[k]fluoranthene	µg/kg	24	6200	29000	470 U B	NA	370 U B	NA	370 U B
Bis (2-chloroethoxy)methane	µg/kg	NE	NE	NE	470 U	NA	370 U	NA	370 U
Bis (2-chloroethyl)ether	µg/kg	NE	210	620	47 U	NA	37 U	NA	37 U
Bis (2-chloroisopropyl)ether	µg/kg	NE	2900	8100	470 U	NA	370 U	NA	370 U
Bis (2-ethylhexyl)phthalate	µg/kg	NE	35000	180000	470 U	NA	370 U	NA	370 U
Butyl benzyl phthalate	µg/kg	NE	12000000	100000000	470 U	NA	370 U	NA	370 U
Chrysene	µg/kg	31	6100	290000	470 U B	NA	370 U B	NA	370 U B
Di-n-butyl phthalate	µg/kg	NE	6100000	88000000	470 U	NA	370 U	NA	370 U
Di-n-octyl phthalate	µg/kg	NE	1200000	10000000	470 U	NA	370 U	NA	370 U
Dibenz[a,h]anthracene	µg/kg	8	62	290	47 U B	NA	37 U B	NA	37 U B
Dibenzofuran	µg/kg	NE	290000	5100000	470 U	NA	370 U	NA	370 U
Diethyl phthalate	µg/kg	NE	49000000	100000000	470 U	NA	370 U	NA	370 U
Dimethyl phthalate	µg/kg	NE	100000000	100000000	470 U	NA	370 U	NA	370 U
Fluoranthene	µg/kg	45	2300000	30000000	470 U B	NA	370 U B	NA	370 U B
Fluorene	µg/kg	NE	2600000	33000000	470 U	NA	370 U	NA	370 U
Hexachlorobenzene	µg/kg	NE	300	1500	470 U Y1*	NA	370 U Y1*	NA	370 U Y1*
Hexachlorobutadiene	µg/kg	NE	6200	32000	470 U	NA	370 U	NA	370 U
Hexachlorocyclopentadiene	µg/kg	NE	420000	5900000	470 U	NA	370 U	NA	370 U
Hexachloroethane	µg/kg	NE	35000	180000	470 U	NA	370 U	NA	370 U
Indeno[1,2,3-cd]pyrene	µg/kg	21	620	2900	470 U B	NA	370 U B	NA	370 U B

Table 4 - 2
Summary of Analytical Results for Confirmation Soil Samples — TAA 771

OHM Sample Number					18609-610	18609-611	18609-612	18609-613	18609-614
Sample Location					TAA771-SBA	TAA771-SBA	TAA771-SBB	TAA771-SBB	TAA771-SBC
Date Collected					10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Sample Depth (feet below ground surface)					1.5	3.0	1.5	3.0	1.5
	Unit	Background	PRG Residential	PRG Industrial					
N-Nitrosodi-n-propylamine	µg/kg	NE	69	350	47 U	NA	37 U	NA	37 U
N-Nitrosodiphenylamine	µg/kg	NE	99000	500000	470 U	NA	370 U	NA	370 U
Naphthalene	µg/kg	NE	56000	190000	470 U	NA	370 U	NA	370 U
Nitrobenzene	µg/kg	NE	20000	110000	470 U	NA	370 U	NA	370 U
Pentachlorophenol	µg/kg	NE	3000	11000	940 U	NA	730 U	NA	750 U
Phenanthrene	µg/kg	18	NE	NE	470 U B	NA	370 U B	NA	370 U B
Phenol	µg/kg	NE	37000000	100000000	470 U	NA	370 U	NA	370 U
Pyrene	µg/kg	41	2300000	54000000	470 U B	NA	370 U B	NA	370 U B
EPA 6010A									
Aluminum	mg/kg	14800	76000	100000	19000 B	NA	7100	NA	9100
Antimony	mg/kg	3.06	31	820	7.1 U B	NA	5.5 U B	NA	5.7 U B
Barium	mg/kg	173	5400	100000	130	NA	22	NA	140
Beryllium	mg/kg	0.669	150	2200	0.71 B	NA	0.37	NA	0.55
Cadmium	mg/kg	2.35	9.0	810	0.71 U	NA	0.55 U	NA	0.57 U
Calcium	mg/kg	46000	NE	NE	7300	NA	950	NA	5700
Chromium	mg/kg	26.9	210	450	19	NA	10.0	NA	9.5
Cobalt	mg/kg	6.98	4700	100000	26 B	NA	5.8	NA	7.0 B
Copper	mg/kg	10.5	2900	76000	29 B	NA	9.7	NA	14 B
Iron	mg/kg	18400	23000	100000	27000 B Y	NA	12000	NA	17000
Magnesium	mg/kg	8370	NE	NE	8400 B	NA	1100	NA	6100
Manganese	mg/kg	291	1800	32000	300 B	NA	56	NA	260
Molybdenum	mg/kg	NE	390	10000	2.9 U	NA	2.2 U	NA	2.3 U
Nickel	mg/kg	15.3	150	41000	11.0	NA	6.0	NA	6.5
Potassium	mg/kg	4890	NE	NE	4900 B	NA	970	NA	4900 B
Silver	mg/kg	0.539	390	10000	1.4 U B	NA	1.1 U B	NA	1.1 U B
Sodium	mg/kg	405	NE	NE	330	NA	100 J	NA	230
Thallium	mg/kg	0.42	5.5	140	7.1 U BY	NA	5.5 U BY	NA	5.7 U BY
Vanadium	mg/kg	71.8	550	14000	50	NA	19	NA	34
Zinc	mg/kg	77.9	23000	100000	93 B	NA	28	NA	53
EPA 7060A									
Arsenic	mg/kg	6.86	0.39	2.7	4.6 YX	NA	13 BYX	1.5 Y	2.2 Y

Table 4 - 2
Summary of Analytical Results for Confirmation Soil Samples — TAA 771

OHM Sample Number					18609-610	18609-611	18609-612	18609-613	18609-614
Sample Location					TAA771-SBA	TAA771-SBA	TAA771-SBB	TAA771-SBB	TAA771-SBC
Date Collected					10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Sample Depth (feet below ground surface)					1.5	3.0	1.5	3.0	1.5
	Unit	Background	PRG Residential	PRG Industrial					
EPA 7421									
Lead	mg/kg	15.1	400	1000	5.7	NA	5.3	NA	2.6
EPA 7471A									
Mercury	mg/kg	0.22	23	610	0.066 J	NA	0.088 U	NA	0.091 U
EPA 7740									
Selenium	mg/kg	0.32	390	10000	0.71 U B	NA	0.29 J	NA	0.57 U B
EPA 9010									
Total Cyanide	mg/kg	NE	310	4400	0.71 U	NA	0.55 U	NA	0.57 U
EPA 9045									
pH	pH units	NE	NE	NE	9.0	NA	8.1	NA	8.1

Table 4 - 2
Summary of Analytical Results for Confirmation Soil Samples — TAA 771

OHM Sample Number					18609-615	18609-616	18609-617	18609-618	18609-619
Sample Location					TAA771-SBC	TAA771-SBD	TAA771-SBD	TAA771-SBE	TAA771-SBE
Date Collected					10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Sample Depth (feet below ground surface)					3.0	1.5	3.0	1.5	3.0
	Unit	Background	PRG Residential	PRG Industrial					
CA LUFT 8015M									
TPH as Diesel	mg/kg	NE	NE	NE	NA	11 U	NA	11 U	NA
TPH as Gasoline	mg/kg	NE	NE	NE	NA	11 U	NA	11 U	NA
TPH as JP-5	mg/kg	NE	NE	NE	NA	11 U	NA	11 U	NA
EPA 8081									
4,4'-DDD	µg/kg	36.1	2400	17000	NA	2.2 U	NA	2.2 U	NA
4,4'-DDE	µg/kg	145	1700	12000	NA	3.0 J	NA	2.2 U	NA
4,4'-DDT	µg/kg	236	1700	12000	NA	15	NA	2.2 U	NA
Aldrin	µg/kg	NE	29	150	NA	2.2 U	NA	2.2 U	NA
alpha-BHC	µg/kg	NE	90	590	NA	0.79 U	NA	0.78 U	NA
alpha-Chlordane	µg/kg	2.24	1600	11000	NA	2.2 U	NA	2.2 U	NA
Aroclor-1016	µg/kg	NE	3900	29000	NA	37 U	NA	37 U	NA
Aroclor-1221	µg/kg	NE	220	1000	NA	37 U	NA	37 U	NA
Aroclor-1232	µg/kg	NE	220	1000	NA	37 U	NA	37 U	NA
Aroclor-1242	µg/kg	NE	220	1000	NA	37 U	NA	37 U	NA
Aroclor-1248	µg/kg	NE	220	1000	NA	37 U	NA	37 U	NA
Aroclor-1254	µg/kg	NE	220	1000	NA	37 U	NA	37 U	NA
Aroclor-1260	µg/kg	NE	220	1000	NA	37 U	NA	37 U	NA
Beta-BHC	µg/kg	NE	320	2100	NA	2.2 U	NA	2.2 U	NA
Delta-BHC	µg/kg	NE	NE	NE	NA	2.2 U	NA	2.2 U	NA
Dieldrin	µg/kg	19.9	30	150	NA	2.2 U	NA	2.2 U	NA
Endosulfan I	µg/kg	0.179	370000	5300000	NA	0.79 U B	NA	0.78 U B	NA
Endosulfan II	µg/kg	2.22	370000	5300000	NA	2.2 U	NA	2.2 U	NA
Endosulfan sulfate	µg/kg	3.1	NE	NE	NA	2.2 U	NA	2.2 U	NA
Endrin	µg/kg	2.22	18000	260000	NA	2.2 U	NA	2.2 U	NA
Endrin aldehyde	µg/kg	2.22	NE	NE	NA	2.2 U	NA	2.2 U	NA
gamma-BHC	µg/kg	NE	440	2900	NA	2.2 U	NA	2.2 U	NA
gamma-Chlordane	µg/kg	2.7	1600	11000	NA	2.2 U	NA	2.2 U	NA
Heptachlor	µg/kg	NE	110	550	NA	2.2 U	NA	2.2 U	NA
Heptachlor epoxide	µg/kg	NE	53	270	NA	2.2 U	NA	2.2 U	NA
Methoxychlor	µg/kg	NE	310000	4400000	NA	2.2 U	NA	2.2 U	NA

Table 4 - 2
Summary of Analytical Results for Confirmation Soil Samples — TAA 771

OHM Sample Number					18609-615	18609-616	18609-617	18609-618	18609-619
Sample Location					TAA771-SBC	TAA771-SBD	TAA771-SBD	TAA771-SBE	TAA771-SBE
Date Collected					10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Sample Depth (feet below ground surface)					3.0	1.5	3.0	1.5	3.0
	Unit	Background	PRG Residential	PRG Industrial					
EPA 8260A									
1,1,1-Trichloroethane	µg/kg	NE	770000	1400000	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
1,1,2,2-Tetrachloroethane	µg/kg	NE	380	900	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
1,1,2-Trichloroethane	µg/kg	NE	840	1900	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
1,1-Dichloroethane	µg/kg	NE	590000	2100000	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
1,1-Dichloroethene	µg/kg	NE	54	120	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
1,2-Dichloroethane	µg/kg	NE	350	760	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
1,2-Dichloropropane	µg/kg	NE	350	770	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
2-Butanone (MEK)	µg/kg	NE	7300000	28000000	58 U	56 UJ	57 UJ	56 UJ	58 UJ
2-Chloroethyl vinyl ether	µg/kg	NE	NE	NE	58 U	56 UJ	57 U	56 U	58 U
2-Hexanone	µg/kg	NE	NE	NE	58 U	56 U	57 UJ	56 UJ	58 UJ
4-Methyl-2-pentanone (MIBK)	µg/kg	NE	790000	2900000	58 U	56 U	57 U	56 U	58 U
Acetone	µg/kg	NE	1600000	6200000	58 UJ	56 UJ	57 UJ	56 UJ	58 UJ
Benzene	µg/kg	NE	670	1500	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
Bromodichloromethane	µg/kg	NE	1000	2400	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
Bromoform	µg/kg	NE	62000	310000	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
Bromomethane	µg/kg	NE	3900	13000	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
Carbon disulfide	µg/kg	NE	360000	720000	5.8 U	5.6 UJ	5.7 U	5.6 U	5.8 U
Carbon tetrachloride	µg/kg	NE	240	530	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
Chlorobenzene	µg/kg	NE	150000	540000	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
Chloroethane	µg/kg	NE	3000	6500	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
Chloroform	µg/kg	NE	240	520	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
Chloromethane	µg/kg	NE	1200	2700	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
cis-1,2-Dichloroethene	µg/kg	NE	43000	150000	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
cis-1,3-Dichloropropene	µg/kg	NE	82	180	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
Dibromochloromethane	µg/kg	NE	1100	2700	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
Ethylbenzene	µg/kg	NE	230000	230000	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
Methyl tert-butyl ether (MTBE)	µg/kg	NE	NE	NE	12 U	11 U	11 U	11 U	12 U
Methylene chloride	µg/kg	NE	8900	21000	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
Styrene	µg/kg	NE	1700000	1700000	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
Tetrachloroethene	µg/kg	NE	5700	19000	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U

Table 4 - 2
Summary of Analytical Results for Confirmation Soil Samples — TAA 771

OHM Sample Number					18609-615	18609-616	18609-617	18609-618	18609-619
Sample Location					TAA771-SBC	TAA771-SBD	TAA771-SBD	TAA771-SBE	TAA771-SBE
Date Collected					10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Sample Depth (feet below ground surface)					3.0	1.5	3.0	1.5	3.0
	Unit	Background	PRG Residential	PRG Industrial					
Toluene	µg/kg	NE	520000	520000	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
trans-1,2-Dichloroethene	µg/kg	NE	63000	210000	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
trans-1,3-Dichloropropene	µg/kg	NE	82	180	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
Trichloroethene	µg/kg	NE	2800	6100	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
Vinyl acetate	µg/kg	NE	430000	1400000	12 UJ	11 UJ	11 UJ	11 UJ	12 UJ
Vinyl chloride	µg/kg	NE	22	49	5.8 U	5.6 U	5.7 U	5.6 U	5.8 U
Xylenes (total)	µg/kg	NE	210000	210000	17 U	17 U	17 U	17 U	17 U
EPA 8270B									
1,2,4-Trichlorobenzene	µg/kg	NE	650000	3000000	NA	370 U	NA	370 U	NA
1,2-Dichlorobenzene	µg/kg	NE	370000	370000	NA	370 U	NA	370 U	NA
1,3-Dichlorobenzene	µg/kg	NE	13000	52000	NA	370 U	NA	370 U	NA
1,4-Dichlorobenzene	µg/kg	NE	3400	8100	NA	370 U	NA	370 U	NA
2,4,5-Trichlorophenol	µg/kg	NE	6100000	88000000	NA	370 U	NA	370 U	NA
2,4,6-Trichlorophenol	µg/kg	NE	44000	220000	NA	370 U	NA	370 U	NA
2,4-Dichlorophenol	µg/kg	NE	180000	2600000	NA	370 U	NA	370 U	NA
2,4-Dimethylphenol	µg/kg	NE	1200000	18000000	NA	370 U	NA	370 U	NA
2,4-Dinitrophenol	µg/kg	NE	120000	1800000	NA	930 U	NA	920 U	NA
2,4-Dinitrotoluene	µg/kg	NE	120000	1800000	NA	370 U	NA	370 U	NA
2,6-Dinitrotoluene	µg/kg	NE	61000	880000	NA	370 U	NA	370 U	NA
2-Chloronaphthalene	µg/kg	NE	4900000	27000000	NA	370 U	NA	370 U	NA
2-Chlorophenol	µg/kg	NE	63000	240000	NA	370 U	NA	370 U	NA
2-Methyl-4,6-dinitrophenol	µg/kg	NE	NE	NE	NA	930 U	NA	920 U	NA
2-Methylnaphthalene	µg/kg	NE	NE	NE	NA	370 U	NA	370 U	NA
2-Methylphenol	µg/kg	NE	3100000	44000000	NA	370 U	NA	370 U	NA
2-Nitroaniline	µg/kg	NE	3500	50000	NA	370 U	NA	370 U	NA
2-Nitrophenol	µg/kg	NE	NE	NE	NA	370 U	NA	370 U	NA
3,3'-Dichlorobenzidine	µg/kg	NE	1100	5500	NA	370 U	NA	370 U	NA
3-Methyl-4-chlorophenol	µg/kg	NE	NE	NE	NA	370 U	NA	370 U	NA
3-Nitroaniline	µg/kg	NE	NE	NE	NA	370 U	NA	370 U	NA
4-Bromophenyl phenyl ether	µg/kg	NE	NE	NE	NA	370 U	NA	370 U	NA
4-Chloroaniline	µg/kg	NE	240000	3500000	NA	370 U	NA	370 U	NA

Table 4 - 2
Summary of Analytical Results for Confirmation Soil Samples — TAA 771

OHM Sample Number					18609-615	18609-616	18609-617	18609-618	18609-619
Sample Location					TAA771-SBC	TAA771-SBD	TAA771-SBD	TAA771-SBE	TAA771-SBE
Date Collected					10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Sample Depth (feet below ground surface)					3.0	1.5	3.0	1.5	3.0
	Unit	Background	PRG Residential	PRG Industrial					
4-Chlorophenyl phenyl ether	µg/kg	NE	NE	NE	NA	370 U	NA	370 U	NA
4-Methylphenol	µg/kg	NE	310000	4400000	NA	370 U	NA	370 U	NA
4-Nitroaniline	µg/kg	NE	NE	NE	NA	370 U	NA	370 U	NA
4-Nitrophenol	µg/kg	NE	490000	7000000	NA	930 U	NA	920 U	NA
Acenaphthene	µg/kg	NE	3700000	38000000	NA	370 U	NA	370 U	NA
Acenaphthylene	µg/kg	NE	NE	NE	NA	370 U	NA	370 U	NA
Anthracene	µg/kg	NE	22000000	100000000	NA	370 U	NA	370 U	NA
Benzo[a]anthracene	µg/kg	22	620	2900	NA	370 U B	NA	370 U B	NA
Benzo[a]pyrene	µg/kg	27	62	290	NA	37 U B	NA	37 U B	NA
Benzo[b]fluoranthene	µg/kg	28	620	2900	NA	370 U B	NA	370 U B	NA
Benzo[ghi]perylene	µg/kg	29	NE	NE	NA	370 U B	NA	370 U B	NA
Benzo[k]fluoranthene	µg/kg	24	6200	29000	NA	370 U B	NA	370 U B	NA
Bis (2-chloroethoxy)methane	µg/kg	NE	NE	NE	NA	370 U	NA	370 U	NA
Bis (2-chloroethyl)ether	µg/kg	NE	210	620	NA	37 U	NA	37 U	NA
Bis (2-chloroisopropyl)ether	µg/kg	NE	2900	8100	NA	370 U	NA	370 U	NA
Bis (2-ethylhexyl)phthalate	µg/kg	NE	35000	180000	NA	370 U	NA	370 U	NA
Butyl benzyl phthalate	µg/kg	NE	12000000	100000000	NA	370 U	NA	370 U	NA
Chrysene	µg/kg	31	6100	290000	NA	370 U B	NA	370 U B	NA
Di-n-butyl phthalate	µg/kg	NE	6100000	88000000	NA	370 U	NA	370 U	NA
Di-n-octyl phthalate	µg/kg	NE	1200000	10000000	NA	370 U	NA	370 U	NA
Dibenz[a,h]anthracene	µg/kg	8	62	290	NA	37 U B	NA	37 U B	NA
Dibenzofuran	µg/kg	NE	290000	5100000	NA	370 U	NA	370 U	NA
Diethyl phthalate	µg/kg	NE	49000000	100000000	NA	370 U	NA	370 U	NA
Dimethyl phthalate	µg/kg	NE	100000000	100000000	NA	370 U	NA	370 U	NA
Fluoranthene	µg/kg	45	2300000	30000000	NA	370 U B	NA	370 U B	NA
Fluorene	µg/kg	NE	2600000	33000000	NA	370 U	NA	370 U	NA
Hexachlorobenzene	µg/kg	NE	300	1500	NA	370 U Y1*	NA	370 U Y1*	NA
Hexachlorobutadiene	µg/kg	NE	6200	32000	NA	370 U	NA	370 U	NA
Hexachlorocyclopentadiene	µg/kg	NE	420000	5900000	NA	370 U	NA	370 U	NA
Hexachloroethane	µg/kg	NE	35000	180000	NA	370 U	NA	370 U	NA
Indeno[1,2,3-cd]pyrene	µg/kg	21	620	2900	NA	370 U B	NA	370 U B	NA

Table 4 - 2
Summary of Analytical Results for Confirmation Soil Samples — TAA 771

OHM Sample Number					18609-615	18609-616	18609-617	18609-618	18609-619
Sample Location					TAA771-SBC	TAA771-SBD	TAA771-SBD	TAA771-SBE	TAA771-SBE
Date Collected					10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Sample Depth (feet below ground surface)					3.0	1.5	3.0	1.5	3.0
	Unit	Background	PRG Residential	PRG Industrial					
N-Nitrosodi-n-propylamine	µg/kg	NE	69	350	NA	37 U	NA	37 U	NA
N-Nitrosodiphenylamine	µg/kg	NE	99000	500000	NA	370 U	NA	370 U	NA
Naphthalene	µg/kg	NE	56000	190000	NA	370 U	NA	370 U	NA
Nitrobenzene	µg/kg	NE	20000	110000	NA	370 U	NA	370 U	NA
Pentachlorophenol	µg/kg	NE	3000	11000	NA	740 U	NA	730 U	NA
Phenanthrene	µg/kg	18	NE	NE	NA	370 U B	NA	370 U B	NA
Phenol	µg/kg	NE	37000000	100000000	NA	370 U	NA	370 U	NA
Pyrene	µg/kg	41	2300000	54000000	NA	370 U B	NA	370 U B	NA
EPA 6010A									
Aluminum	mg/kg	14800	76000	100000	NA	9200	NA	10000	NA
Antimony	mg/kg	3.06	31	820	NA	5.6 U B	NA	5.6 U B	NA
Barium	mg/kg	173	5400	100000	NA	110	NA	160	NA
Beryllium	mg/kg	0.669	150	2200	NA	0.49	NA	0.59	NA
Cadmium	mg/kg	2.35	9.0	810	NA	0.56 U	NA	0.56 U	NA
Calcium	mg/kg	46000	NE	NE	NA	4700	NA	5700	NA
Chromium	mg/kg	26.9	210	450	NA	10.0	NA	11.0	NA
Cobalt	mg/kg	6.98	4700	100000	NA	6.3	NA	7.4 B	NA
Copper	mg/kg	10.5	2900	76000	NA	15 B	NA	27 B	NA
Iron	mg/kg	18400	23000	100000	NA	18000	NA	20000 B	NA
Magnesium	mg/kg	8370	NE	NE	NA	5600	NA	6800	NA
Manganese	mg/kg	291	1800	32000	NA	240	NA	340 B	NA
Molybdenum	mg/kg	NE	390	10000	NA	2.2 U	NA	2.2 U	NA
Nickel	mg/kg	15.3	150	41000	NA	6.6	NA	6.6	NA
Potassium	mg/kg	4890	NE	NE	NA	4200	NA	5100 B	NA
Silver	mg/kg	0.539	390	10000	NA	1.1 U B	NA	1.1 U B	NA
Sodium	mg/kg	405	NE	NE	NA	120	NA	210	NA
Thallium	mg/kg	0.42	5.5	140	NA	5.6 U BY	NA	5.6 U BY	NA
Vanadium	mg/kg	71.8	550	14000	NA	33	NA	38	NA
Zinc	mg/kg	77.9	23000	100000	NA	130 B	NA	61	NA
EPA 7060A									
Arsenic	mg/kg	6.86	0.39	2.7	NA	2.6 Y	NA	1.8 Y	NA

Table 4 - 2
Summary of Analytical Results for Confirmation Soil Samples — TAA 771

OHM Sample Number					18609-615	18609-616	18609-617	18609-618	18609-619
Sample Location					TAA771-SBC	TAA771-SBD	TAA771-SBD	TAA771-SBE	TAA771-SBE
Date Collected					10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Sample Depth (feet below ground surface)					3.0	1.5	3.0	1.5	3.0
	Unit	Background	PRG Residential	PRG Industrial					
EPA 7421									
Lead	mg/kg	15.1	400	1000	NA	4.8	NA	2.8	NA
EPA 7471A									
Mercury	mg/kg	0.22	23	610	NA	0.09 U	NA	0.089 U	NA
EPA 7740									
Selenium	mg/kg	0.32	390	10000	NA	0.56 U B	NA	0.56 U B	NA
EPA 9010									
Total Cyanide	mg/kg	NE	310	4400	NA	0.56 U	NA	0.56 U	NA
EPA 9045									
pH	pH units	NE	NE	NE	NA	8.2	NA	8.3	NA

Table 4 - 2
Summary of Analytical Results for Confirmation Soil Samples — TAA 771

Explanation:
B - result exceeds established background limits
CA LUFT - California Leaking Underground Fuel Tank
EPA - United States Environmental Protection Agency
J - estimated
M - Modified
MDL - method detection limit
mg/kg - milligrams per kilogram
NA - not analyzed
NE - not established
OHM - OHM Remediation Services Corp.
PRG - Preliminary Remediation Goal, EPA Region IX, October 1999
RL - reporting limit
SB - soil boring
TAA - temporary accumulation area
TPH - total petroleum hydrocarbons
U - not detected above or equal to the stated reporting limit
X - result exceeds industrial PRGs
Y - result exceeds residential PRGs
µg/kg - micrograms per kilogram
1 - MDL = 110 ug/kg
* If the analyte had been detected bewteen the MDL and RL the actual value would have been reported and flagged with a "J" qualifier. For the samples in question, the laboratory did not detect analyte concentrations between the MDL and the RL. As a result, the samples are qualified as non-detect ("U").

Table 4 - 3
Summary of Analytical Results for QC Samples — TAA 771

OHM Sample Number		18609-636	18609-637A	18609-742	18609-760
Sample Location		Trip Blank	Equipment Rinsate	Trip Blank	Trip Blank
Date Collected		10/16/97	10/16/97	10/30/97	11/05/97
	Unit				
CA LUFT 8015M					
TPH as Diesel	mg/L	NA	0.068 J	NA	NA
TPH as Gasoline	mg/L	0.1 U	0.048 J	0.1 U	0.1 U
TPH as JP-5	mg/L	NA	0.5 U	NA	NA
EPA 8260A					
1,1,1-Trichloroethane	µg/L	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U	5 U	5 U
1,1-Dichloroethane	µg/L	5 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L	5 U	5 U	5 U	5 U
1,2-Dichloroethane	µg/L	5 U	5 U	5 U	5 U
1,2-Dichloropropane	µg/L	5 U	5 U	5 U	5 U
2-Butanone (MEK)	µg/L	50 UJ	50 UJ	50 UJ	50 UJ
2-Chloroethyl vinyl ether	µg/L	50 UJ	50 UJ	50 U	50 U
2-Hexanone	µg/L	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (MIBK)	µg/L	50 U	50 U	50 UJ	50 UJ
Acetone	µg/L	50 UJ	50 UJ	50 UJ	50 UJ
Benzene	µg/L	5 U	5 U	5 U	5 U
Bromodichloromethane	µg/L	5 U	5 U	5 U	5 U
Bromoform	µg/L	5 U	5 U	5 U	5 U
Bromomethane	µg/L	5 U	5 U	5 U	5 U
Carbon disulfide	µg/L	5 U	5 U	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U	5 U	5 U
Chlorobenzene	µg/L	5 U	5 U	5 U	5 U
Chloroethane	µg/L	5 U	5 U	5 U	5 U
Chloroform	µg/L	5 U	5 U	5 UJ	5 U
Chloromethane	µg/L	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U
Dibromochloromethane	µg/L	5 U	5 U	5 U	5 U
Ethylbenzene	µg/L	0.63 J	5 U	5 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	10 U	10 U	10 U	10 U
Methylene chloride	µg/L	5 U	5 U	5 U	5 U

Table 4 - 3
Summary of Analytical Results for QC Samples — TAA 771

OHM Sample Number		18609-636	18609-637A	18609-742	18609-760
Sample Location		Trip Blank	Equipment Rinsate	Trip Blank	Trip Blank
Date Collected		10/16/97	10/16/97	10/30/97	11/05/97
	Unit				
Styrene	µg/L	5 U	5 U	5 U	5 U
Tetrachloroethene	µg/L	5 U	5 U	5 U	5 U
Toluene	µg/L	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U
Trichloroethene	µg/L	5 U	5 U	5 UJ	5 U
Vinyl acetate	µg/L	50 UJ	50 UJ	50 U	50 U
Vinyl chloride	µg/L	5 U	5 U	5 U	5 U
Xylenes (total)	µg/L	15 U	15 U	15 U	20 U

Explanation:

CA LUFT - California Leaking Underground Fuel Tank
EPA - United States Environmental Protection Agency
J - estimated
M - Modified
mg/L - milligrams per liter
NA - not analyzed
OHM - OHM Remediation Services Corp.
TAA - temporary accumulation area
TPH - total petroleum hydrocarbons
U - not detected above or equal to the stated reporting limit
µg/L - micrograms per liter

Table 4 - 4
Summary of Analytical Results for Rinse Water Samples — TAA 771

OHM Sample Number		18609-759	18609-743
Sample Location		TAA771-Rinse	Source Blank
Date Collected		11/05/97	10/30/97
	Unit		
CA LUFT 8015M			
TPH as Diesel	mg/L	0.053 J	0.5 U
TPH as Gasoline	mg/L	0.1 U	0.1 U
TPH as JP-5	mg/L	0.5 U	0.5 U
EPA 8081			
4,4'-DDD	µg/L	0.03 U	0.03 U
4,4'-DDE	µg/L	0.03 U	0.03 U
4,4'-DDT	µg/L	0.05 UJ	0.05 U
Aldrin	µg/L	0.03 U	0.03 U
alpha-BHC	µg/L	0.03 U	0.03 U
alpha-Chlordane	µg/L	0.03 U	0.03 U
Aroclor-1016	µg/L	1 U	1 U
Aroclor-1221	µg/L	1 U	1 U
Aroclor-1232	µg/L	1 U	1 U
Aroclor-1242	µg/L	1 U	1 U
Aroclor-1248	µg/L	1 U	1 U
Aroclor-1254	µg/L	1 U	1 U
Aroclor-1260	µg/L	1 UJ	1 U
Beta-BHC	µg/L	0.03 U	0.03 U
Delta-BHC	µg/L	0.03 U	0.03 U
Dieldrin	µg/L	0.03 UJ	0.03 U
Endosulfan I	µg/L	0.03 U	0.03 U
Endosulfan II	µg/L	0.03 U	0.03 U
Endosulfan sulfate	µg/L	0.05 U	0.05 U
Endrin	µg/L	0.03 UJ	0.03 U
Endrin aldehyde	µg/L	0.03 U	0.03 U
Endrin ketone	µg/L	0.05 U	NA
gamma-BHC	µg/L	0.03 UJ	0.03 U
gamma-Chlordane	µg/L	0.03 U	0.03 U
Heptachlor	µg/L	0.03 U	0.03 U
Heptachlor epoxide	µg/L	0.03 U	0.03 U
Methoxychlor	µg/L	0.05 U	0.05 U
Toxaphene	µg/L	5 U	5 U

Table 4 - 4
Summary of Analytical Results for Rinse Water Samples — TAA 771

OHM Sample Number		18609-759	18609-743
Sample Location		TAA771-Rinse	Source Blank
Date Collected		11/05/97	10/30/97
	Unit		
EPA 8260A			
1,1,1-Trichloroethane	µg/L	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U
1,1-Dichloroethane	µg/L	5 U	5 U
1,1-Dichloroethene	µg/L	5 U	5 U
1,2-Dichloroethane	µg/L	5 U	5 U
1,2-Dichloropropane	µg/L	5 U	5 U
2-Butanone (MEK)	µg/L	50 UJ	50 UJ
2-Chloroethyl vinyl ether	µg/L	50 U	50 U
2-Hexanone	µg/L	50 U	50 U
4-Methyl-2-pentanone (MIBK)	µg/L	50 UJ	50 UJ
Acetone	µg/L	50 UJ	50 UJ
Benzene	µg/L	5 U	5 U
Bromodichloromethane	µg/L	1.8 J	5 U
Bromoform	µg/L	5 U	5 U
Bromomethane	µg/L	5 U	5 U
Carbon disulfide	µg/L	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U
Chlorobenzene	µg/L	5 U	5 U
Chloroethane	µg/L	5 U	5 U
Chloroform	µg/L	2.0 J	5 UJ
Chloromethane	µg/L	5 U	5 U
cis-1,2-Dichloroethene	µg/L	5 U	5 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U
Dibromochloromethane	µg/L	1.7 J	5 U
Ethylbenzene	µg/L	5 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	10 U	10 U
Methylene chloride	µg/L	5 U	5 U
Styrene	µg/L	5 U	5 U
Tetrachloroethene	µg/L	5 U	5 U
Toluene	µg/L	5 U	5 U
trans-1,2-Dichloroethene	µg/L	5 U	5 U

Table 4 - 4
Summary of Analytical Results for Rinse Water Samples — TAA 771

OHM Sample Number		18609-759	18609-743
Sample Location		TAA771-Rinse	Source Blank
Date Collected		11/05/97	10/30/97
	Unit		
trans-1,3-Dichloropropene	µg/L	5 U	5 U
Trichloroethene	µg/L	5 U	5 UJ
Vinyl acetate	µg/L	50 U	50 U
Vinyl chloride	µg/L	5 U	5 U
Xylenes (total)	µg/L	15 U	15 U
EPA 8270B			
1,2,4-Trichlorobenzene	µg/L	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U
2,4,5-Trichlorophenol	µg/L	10 U	10 U
2,4,6-Trichlorophenol	µg/L	10 U	10 U
2,4-Dichlorophenol	µg/L	10 U	10 U
2,4-Dimethylphenol	µg/L	10 U	10 U
2,4-Dinitrophenol	µg/L	25 U	25 U
2,4-Dinitrotoluene	µg/L	10 U	10 U
2,6-Dinitrotoluene	µg/L	10 U	10 U
2-Chloronaphthalene	µg/L	10 U	10 U
2-Chlorophenol	µg/L	10 U	10 U
2-Methyl-4,6-dinitrophenol	µg/L	25 U	25 U
2-Methylnaphthalene	µg/L	10 U	10 U
2-Methylphenol	µg/L	10 U	10 U
2-Nitroaniline	µg/L	10 U	10 U
2-Nitrophenol	µg/L	10 U	10 U
3,3'-Dichlorobenzidine	µg/L	10 U	10 U
3-Methyl-4-chlorophenol	µg/L	10 U	10 U
3-Nitroaniline	µg/L	10 U	10 U
4-Bromophenyl phenyl ether	µg/L	10 U	10 U
4-Chloroaniline	µg/L	10 U	10 U
4-Chlorophenyl phenyl ether	µg/L	10 U	10 U
4-Methylphenol	µg/L	10 U	10 U
4-Nitroaniline	µg/L	10 U	10 U
4-Nitrophenol	µg/L	25 U	25 UJ

Table 4 - 4
Summary of Analytical Results for Rinse Water Samples — TAA 771

OHM Sample Number		18609-759	18609-743
Sample Location		TAA771-Rinse	Source Blank
Date Collected		11/05/97	10/30/97
	Unit		
Acenaphthene	µg/L	10 U	10 U
Acenaphthylene	µg/L	10 U	10 U
Anthracene	µg/L	10 U	10 U
Benzo[a]anthracene	µg/L	10 U	10 U
Benzo[a]pyrene	µg/L	10 U	10 U
Benzo[b]fluoranthene	µg/L	10 U	10 U
Benzo[ghi]perylene	µg/L	10 U	10 U
Benzo[k]fluoranthene	µg/L	10 U	10 U
Bis (2-chloroethoxy)methane	µg/L	10 U	10 U
Bis (2-chloroethyl)ether	µg/L	10 U	10 U
Bis (2-chloroisopropyl)ether	µg/L	10 U	10 U
Bis (2-ethylhexyl)phthalate	µg/L	10 U	10 U
Butyl benzyl phthalate	µg/L	10 U	10 U
Chrysene	µg/L	10 U	10 U
Di-n-butyl phthalate	µg/L	10 U	10 U
Di-n-octyl phthalate	µg/L	10 U	10 U
Dibenz[a,h]anthracene	µg/L	10 U	10 U
Dibenzofuran	µg/L	10 U	10 U
Diethyl phthalate	µg/L	10 U	10 U
Dimethyl phthalate	µg/L	10 U	10 U
Fluoranthene	µg/L	10 U	10 U
Fluorene	µg/L	10 U	10 U
Hexachlorobenzene	µg/L	10 U	10 U
Hexachlorobutadiene	µg/L	10 U	10 U
Hexachlorocyclopentadiene	µg/L	10 U	10 U
Hexachloroethane	µg/L	10 U	10 U
Indeno[1,2,3-cd]pyrene	µg/L	10 U	10 U
N-Nitrosodi-n-propylamine	µg/L	10 U	10 U
N-Nitrosodiphenylamine	µg/L	10 U	10 U
Naphthalene	µg/L	10 U	10 U
Nitrobenzene	µg/L	10 U	10 U
Pentachlorophenol	µg/L	20 U	20 U
Phenanthrene	µg/L	10 U	10 U

Table 4 - 4
Summary of Analytical Results for Rinse Water Samples — TAA 771

OHM Sample Number		18609-759	18609-743
Sample Location		TAA771-Rinse	Source Blank
Date Collected		11/05/97	10/30/97
	Unit		
Phenol	µg/L	10 U	10 U
Pyrene	µg/L	10 U	10 U
EPA 6010A			
Aluminum	µg/L	350 J	170 J
Antimony	µg/L	500 U	500 U
Barium	µg/L	82 J	93 J
Beryllium	µg/L	0.3 J	10 U
Cadmium	µg/L	4.2 J	5 U
Calcium	µg/L	56000	66000
Chromium	µg/L	50 U	50 U
Cobalt	µg/L	50 U	50 U
Copper	µg/L	7.6 J	11 J
Iron	µg/L	690	550
Magnesium	µg/L	21000	26000
Manganese	µg/L	23	10 J
Molybdenum	µg/L	100 U	100 U
Nickel	µg/L	150 U	150 U
Potassium	µg/L	4400 J	4100 J
Silver	µg/L	50 U	50 U
Sodium	µg/L	82000	91000
Thallium	µg/L	400 U	400 U
Vanadium	µg/L	100 U	100 U
Zinc	µg/L	310	38
EPA 7060A			
Arsenic	µg/L	5 U	2.5 J
EPA 7421			
Lead	µg/L	12	5 U
EPA 7470A			
Mercury	µg/L	0.2 U	0.2 U
EPA 7740			
Selenium	µg/L	5 UJ	5 U

Table 4 - 4
Summary of Analytical Results for Rinse Water Samples — TAA 771

OHM Sample Number		18609-759	18609-743
Sample Location		TAA771-Rinse	Source Blank
Date Collected		11/05/97	10/30/97
	Unit		
EPA 9010			
Total Cyanide	mg/L	0.02 U	0.02 U
EPA 9040			
pH	pH units	8.0	8.0

Explanation:

CA LUFT - California Leaking Underground Fuel Tank
EPA - United States Environmental Protection Agency
J - estimated
M - Modified
mg/L - milligrams per liter
OHM - OHM Remediation Services Corp.
TAA - temporary accumulation area
TPH - total petroleum hydrocarbons
U - not detected above or equal to the stated reporting limit
µg/L - micrograms per liter

Table 5-1
Residential Risk Screening Worksheet for Soil - TAA 771

Detected Chemical	Maximum TAA 771 Soil Concentration (mg/kg)	MCAS El Toro Background Concentration[A] (mg/kg)	CANCER			NON-CANCER		
			Residential PRG[B] (mg/kg)	TAA 771 Maximum Ratio[C]	MCAS El Toro Background Ratio[D]	Residential PRG[E] (mg/kg)	TAA 771 Maximum Ratio[F]	MCAS El Toro Background Ratio[F]
Pesticides/PCBs								
4,4'-DDE	0.003	0.145	1.7E+00	1.76E-03	1.76E-03	NE	NE	NE
4,4'-DDT	0.015	0.236	1.7E+00	8.82E-03	8.82E-03	NE	NE	NE
METALS								
Aluminum	19,000	14,800	NE	NE	NE	7.6E+04	2.50E-01	1.95E-01
Arsenic	13	6.86	3.9E-01	3.33E+01	1.76E+01	2.2E+01	5.91E-01	3.12E-01
Barium	160	173	NE	NE	NE	5.4E+03	NE	NE
Beryllium	0.71	0.669	NE	NE	NE	1.5E+02	4.73E-03	4.46E-03
Chromium	19	26.9	2.1E+02	9.05E-02	9.05E-02	NE	NE	NE
Cobalt	26	6.98	NE	NE	NE	4.7E+03	5.53E-03	1.49E-03
Copper	29	10.5	NE	NE	NE	2.9E+03	1.00E-02	3.62E-03
Iron	27,000	18,400	NE	NE	NE	2.3E+04	1.17E+00	8.00E-01
Lead	5.7	15.1	NE	NE	NE	4.0E+02	NE	NE
Manganese	340	291	NE	NE	NE	1.8E+03	1.89E-01	1.62E-01
Mercury	0.066	0.22	NE	NE	NE	2.3E+01	NE	NE
Nickel	11	15.3	NE	NE	NE	1.5E+02	NE	NE
Selenium	0.29	0.32	NE	NE	NE	3.9E+02	NE	NE
Vanadium	50	71.8	NE	NE	NE	5.5E+02	NE	NE
Zinc	130	77.9	NE	NE	NE	2.3E+04	5.65E-03	3.39E-03
Subtotal sum of ratios				3.34E+01	1.77E+01		2.23E+00	1.48E+00
MCAS EL TORO BACKGROUND RISK			**CANCER RISK**		**1.77E-05**	**NON-CANCER HAZARD INDEX**		**1.48E+00**
TAA 771 SUMMED RISK			**CANCER RISK**	**3.34E-05**		**NON-CANCER HAZARD INDEX**	**2.23E+00**	
TAA 771 RISK LESS BACKGROUND RISK (NET RISK)			**NET CANCER RISK**	**1.57E-05**				

[A] MCAS El Toro Background upper threshold limit concentrations from Final Technical Memorandum Background and Reference Levels, Bechtel National, Inc. 1996b.

[B] Residential soil PRG for cancer from the EPA Region 9, October 1, 1999 list.

[C] The Ratio is determined by dividing the Concentration by the respective PRG.

[D] Where the background concentration exceeds the maximum concentration the background ratio was defaulted to the maximum ratio.

[E] Residential soil PRG for non-cancer from the EPA Region 9, October 1, 1999 list.

[F] The Ratio is determined by dividing the Concentration by the respective PRG. No ratios were calculated for chemicals detected below background levels.

mg/kg - Milligrams per kilogram.

NE - Not established/No entry.

PRG - Preliminary remediation goal.

Table 5-2
Industrial Risk Screening Worksheet for Soil -TAA 771

Detected Chemical	Maximum TAA 771 Soil Concentration (mg/kg)	MCAS El Toro Background Concentration[A] (mg/kg)	CANCER			NON-CANCER		
			Industrial PRG[B] (mg/kg)	TAA 771 Maximum Ratio[C]	MCAS El Toro Background Ratio[D]	Industrial PRG[E] (mg/kg)	TAA 771 Maximum Ratio[F]	MCAS El Toro Background Ratio[F]
PCBs/Pesticides								
4,4'-DDE	0.003	0.145	1.2E+01	2.50E-04	2.50E-04	NE	NE	NE
4,4'-DDT	0.015	0.236	1.2E+01	1.25E-03	1.25E-03	NE	NE	NE
METALS								
Aluminum	19,000	14,800	NE	NE	NE	1.0E+05	1.90E-01	1.48E-01
Arsenic	13	6.86	2.7E+00	4.81E+00	2.54E+00	4.4E+02	2.95E-02	1.56E-02
Barium	160	173	NE	NE	NE	1.0E+05	NE	NE
Beryllium	0.71	0.669	NE	NE	NE	2.2E+03	3.23E-04	3.04E-04
Chromium	19	26.9	4.5E+02	4.22E-02	4.22E-02	NE	NE	NE
Cobalt	26	6.98	NE	NE	NE	1.0E+05	2.60E-04	6.98E-05
Copper	29	10.5	NE	NE	NE	7.6E+04	3.82E-04	1.38E-04
Iron	27,000	18,400	NE	NE	NE	1.0E+05	2.70E-01	1.84E-01
Lead	5.7	15.1	NE	NE	NE	1.0E+03	NE	NE
Manganese	340	291	NE	NE	NE	3.2E+04	1.06E-02	9.09E-03
Mercury	0.066	0.22	NE	NE	NE	6.1E+02	NE	NE
Nickel	11	15.3	NE	NE	NE	4.1E+04	NE	NE
Selenium	0.29	0.32	NE	NE	NE	1.0E+04	NE	NE
Vanadium	50	71.8	NE	NE	NE	1.4E+04	NE	NE
Zinc	130	77.9	NE	NE	NE	1.0E+05	1.30E-03	7.79E-04
Subtotal sum of ratios				4.86E+00	2.58E+00		5.02E-01	3.58E-01
MCAS EL TORO BACKGROUND RISK RATIOS			**CANCER RISK**		**2.58E-06**	**NON-CANCER HAZARD INDEX**		**3.58E-01**
TAA 771 RISK RATIOS			**CANCER RISK**	**4.86E-06**		**NON-CANCER HAZARD INDEX**	**5.02E-01**	
TAA 771 RISK LESS BACKGROUND RISK (NET RISK)			**NET CANCER RISK**	**2.27E-06**				

[A] MCAS El Toro Background upper threshold limit concentrations from Final Technical Memorandum Background and Reference Levels, Bechtel National, Inc. 1996b.

[B] Industrial soil PRG for cancer from the EPA Region 9, October 1, 1999 list.

[C] The Ratio is determined by dividing the Concentration by the respective PRG.

[D] Where the background concentration exceeds the maximum concentration the background ratio was defaulted to the maximum ratio.

[E] Industrial soil PRG for non-cancer from the EPA Region 9, October 1, 1999 list.

[F] The Ratio is determined by dividing the Concentration by the respective PRG. No ratios were calculated for chemicals detected below background levels.

mg/kg - Milligrams per kilogram.

NE - Not established/No entry.

PRG - Preliminary remediation goal.

Table 5-3
Average Concentration and Target Organ Evaluation of Hazard Index - TAA 771

Detected Chemical	Maximum TAA 771 Soil Concentration (mg/kg)	Average TAA 771 Soil Concentration (mg/kg)	MCAS El Toro Background Concentration[A] (mg/kg)	Residential PRG[B] (mg/kg)	TAA 771 Average Ratio[C]	MCAS El Toro Background Ratio[C]	Target Organ System Endpoint Hazard Index (Using average concentrations)		
							CNS	Skin	Soft tissue
METAL CONTRIBUTORS									
Aluminum	19,000	10,880	14,800	7.6E+04	1.43E-01	1.95E-01	0.1		
Arsenic	13	4.3	6.86	2.2E+01	1.95E-01	3.12E-01		0.2	
Iron	27,000	18,800	18,400	2.3E+04	8.17E-01	8.00E-01			0.8
Manganese	340	239	291	1.8E+03	1.33E-01	1.62E-01	0.1		
Subtotal sum of ratios					1.29E+00	1.47E+00	0.2	0.2	0.8
				NON-CANCER HAZARD INDEX	1.3	1.5			

[A] MCAS El Toro Background upper threshold limit concentrations from Final Technical Memorandum Background and Reference Levels, Bechtel National, Inc. 1996b.
[B] Residential soil PRG for non-cancer effects from the EPA Region 9, October 1, 1999 list.
[C] The Ratio is determined by dividing the Concentration by the respective PRG.

CNS - Central nervous system.
mg/kg - Milligrams per kilogram.
PRG - Preliminary remediation goal.

Appendix A
JEG RFA Background Information

MARINE CORPS AIR STATION EL TORO
EL TORO, CALIFORNIA
INSTALLATION RESTORATION PROGRAM
FINAL RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) FACILITY ASSESSMENT REPORT

PREPARED BY:
Southwest Division, Naval Facilities Engineering Command
1220 Pacific Highway
San Diego, California 92132-5190

THROUGH:
CONTRACT #N68711-89-D-9296
CTO #193
DOCUMENT CONTROL NO:
CLE-C01-01F193-S2-0001

WITH:
Jacobs Engineering Group, Inc.
3655 Nobel Drive, Suite 200
San Diego, California 92122

In association with:
International Technology Corporation
CH2M HILL

M. W. Arends 7/14/93

Mike Arends, P.E. — Date
CLEAN Project Manager
CH2M HILL, Inc.

Raoul Portillo 15 July 1993

Raoul Portillo — Date
CLEAN Technical Reviewer
Jacobs Engineering Group Inc.

TABLE 4-1
COMPREHENSIVE LIST OF SWMUs AND AREAS OF CONCERN
IDENTIFIED DURING THE PRELIMINARY REVIEW/VISUAL SITE INSPECTION
MCAS EL TORO RFA

SWMU	SMWU TYPE	SOURCE (1)	LOCATION/BUILDING	COMMENTS	DATE	SIZE	MATERIAL	CONTENTS
211	Oil/Water Separator	f	763	Active	1982	100 gal	Steel	
212	Underground Storage Tank	f	763	Active	1982	185 gal	Steel	Waste Oil
213	Vehicle Wash Rack	a	764					
214	Underground Storage Tank	f	764	Active	1982	185 gal	Steel	
215	Oil/Water Separator	f	764	Active	1982	100 gal	Steel	Waste Oil
216	Vehicle Wash Rack	a	765					
217	Underground Storage Tank	f	765	Active	1982	185 gal	Steel	
218	Oil/Water Separator	f	765	Active	1982	100 gal	Steel	Waste Oil
219	Vehicle Wash Rack	a	766					
220	Oil/Water Separator	f	766	Active	1982	100 gal	Steel	
221	Underground Storage Tank	f	766	Active	1982	185 gal	Steel	Waste Oil
222	Hazardous Waste Storage Area	d	769	Former permitted Haz Waste collection facility				
223	Hazardous Waste Storage Area	d	770	Former permitted Haz Waste collection facility				
224	Hazardous Waste Storage Area	d	771	Former permitted Haz Waste collection facility				
225	Hazardous Waste Storage Area	d	772	Former permitted Haz Waste collection facility				
226	Hazardous Waste Storage Area	d	778	Former permitted Haz Waste collection facility				
227	Hazardous Waste Storage Area	d	779	Former permitted Haz Waste collection facility				
228	Underground Storage Tank	f	779	Active	1988	1,000 gal	Fiberglass-Coated Steel	Fuel Slop
229	Hazardous Waste Storage Area	Active	800					
230	Underground Storage Tank	f	800	Active	1984	1,000 gal	Fiberglass	Waste Oil
231	Underground Storage Tank	f	800	Active	1984	1,000 gal	Fiberglass	Waste Oil
232	Underground Storage Tank	Active	800	Active	1984	1,500 gal	Concrete	
233	Oil/Water Separator	f	817					
234	Hazardous Waste Storage Area	Active	856					
235	Drum Storage Area	c	1519	Possible Duplicate of SWMU/AOC 27		300 sq ft		
236	Drum Storage Area	b	1663	RI/FS Site				
237	Drum Storage Area (2)	b	1700					
238	Drum Storage Area (2)	b	1727					
239	Drum Storage Area (2)	a	1798					
240	Drum Storage Area (2)	k	155					

Table 6-15
Recommendations for SWMUs/AOCs
MCAS El Toro RFA

SWMU No.	SWMU/AOC Type	Recommendation (FA/NFA)	Description of Further Action	Rationale for Further Action
224	Hazardous Waste Storage Area	NFA	--	--
225	Hazardous Waste Storage Area	NFA	--	--
226	Hazardous Waste Storage Area	NFA	--	--
227	Hazardous Waste Storage Area	NFA	--	--
229	Hazardous Waste Storage Area	NFA	--	--
231	Underground Storage Tank	NFA	--	--
232	Oil/Water Separator	NFA	--	--
233	Oil/Water Separator	NFA	--	--
234	Hazardous Waste Storage Area	NFA	--	--
241	Drum Storage Area	NFA	--	--
242	Hazardous Waste Storage Area	NFA	--	--
243	Wash Rack	NFA	--	--
244	PCB Spill Area	NFA	--	--
248	Oil/Water Separator	NFA	--	--
249	Underground Storage Tank	NFA	--	--
250	Underground Storage Tank	NFA	--	--
252	Hazardous Waste Storage Area	NFA	--	--
253	Vehicle Wash Rack	NFA	--	--
255	Hazardous Waste Storage Area	NFA	--	--
256	Hazardous Waste Storage Area	NFA	--	--
257	Wash Water Runoff Site	NFA	--	--
258	Wash Water Runoff Site	NFA	--	--
260	Aboveground Storage Tank	FA	Repair cracks in pavement	Prevent future migration of petroleum hydrocarbons
261	Drum Storage Area	NFA	--	--
262	Fuel Storage Area	NFA	--	--
263	Underground Storage Tank	NFA	--	--
264	Equipment Storage Area	NFA	--	--
265	Metal Plating Sewer Lines	NFA	--	--
269	Fuel Storage Locker	NFA	--	--
270	Wash Rack	NFA	--	--

Evaluation Form
SWMU/Area of Concern
Number 224

Unit Characteristics

This Hazardous Waste Storage Area (HWSA) is one of the six DHS-permitted HWSAs at MCAS El Toro. These six HWSAs (SWMU/AOC Numbers 222 through 227) are not planned for future use. Historically, these six HWSAs have had drums stored outside of the storage area.

The HWSA consists of a concrete storage area surrounded by a 6-in. concrete berm. A chain-link fence and aluminum roof enclose the storage area. At the time of the visit, the inside of the bermed area was covered with about 2 inches of ponding water.

The HWSA was not in use and appeared to have been inactive for a long time. No significant stains or cracks were observed.

Waste Characteristics

Unknown

Possible Migration Pathways

Soil

Evidence of Release

None observed

Exposure Potential

Authorized on-Station personnel

Recommendations

Although there was no evidence of a release during the site visit and hazardous waste was not currently stored in the area, the past and present HWSAs at MCAS El Toro are recommended for a sampling visit.

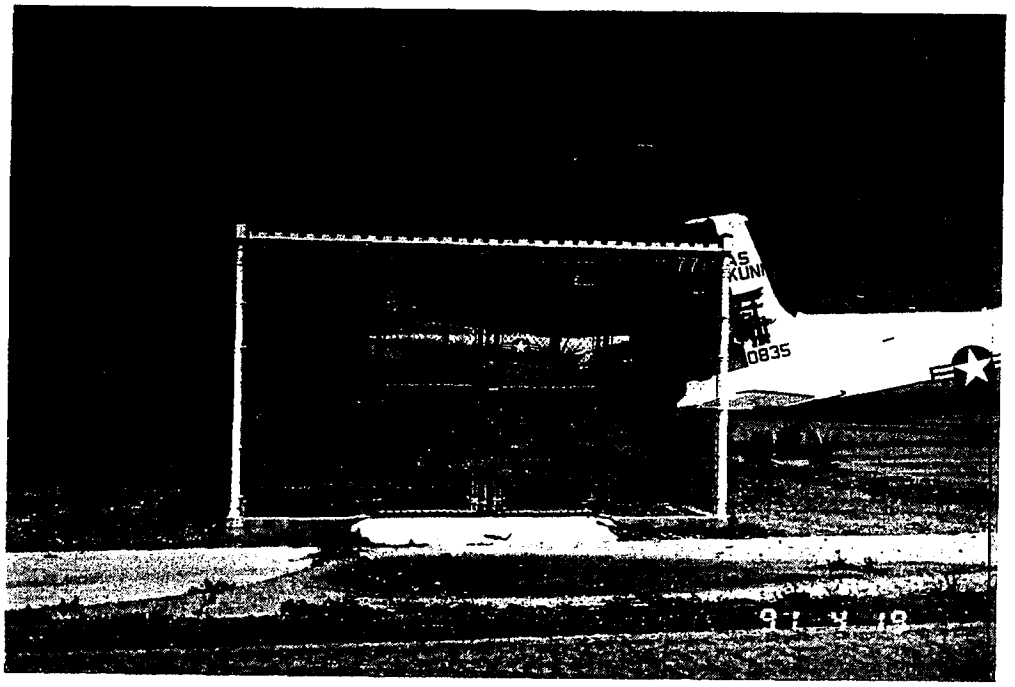
Evaluation Form
SWMU/Area of Concern
Number 224

Name: Hazardous Waste Storage Area 771

Location: Adjacent to the Historical Aircraft display

Size: 180 sq ft

Date of Site Visit: 19 April 91



Period of Operation

Currently inactive

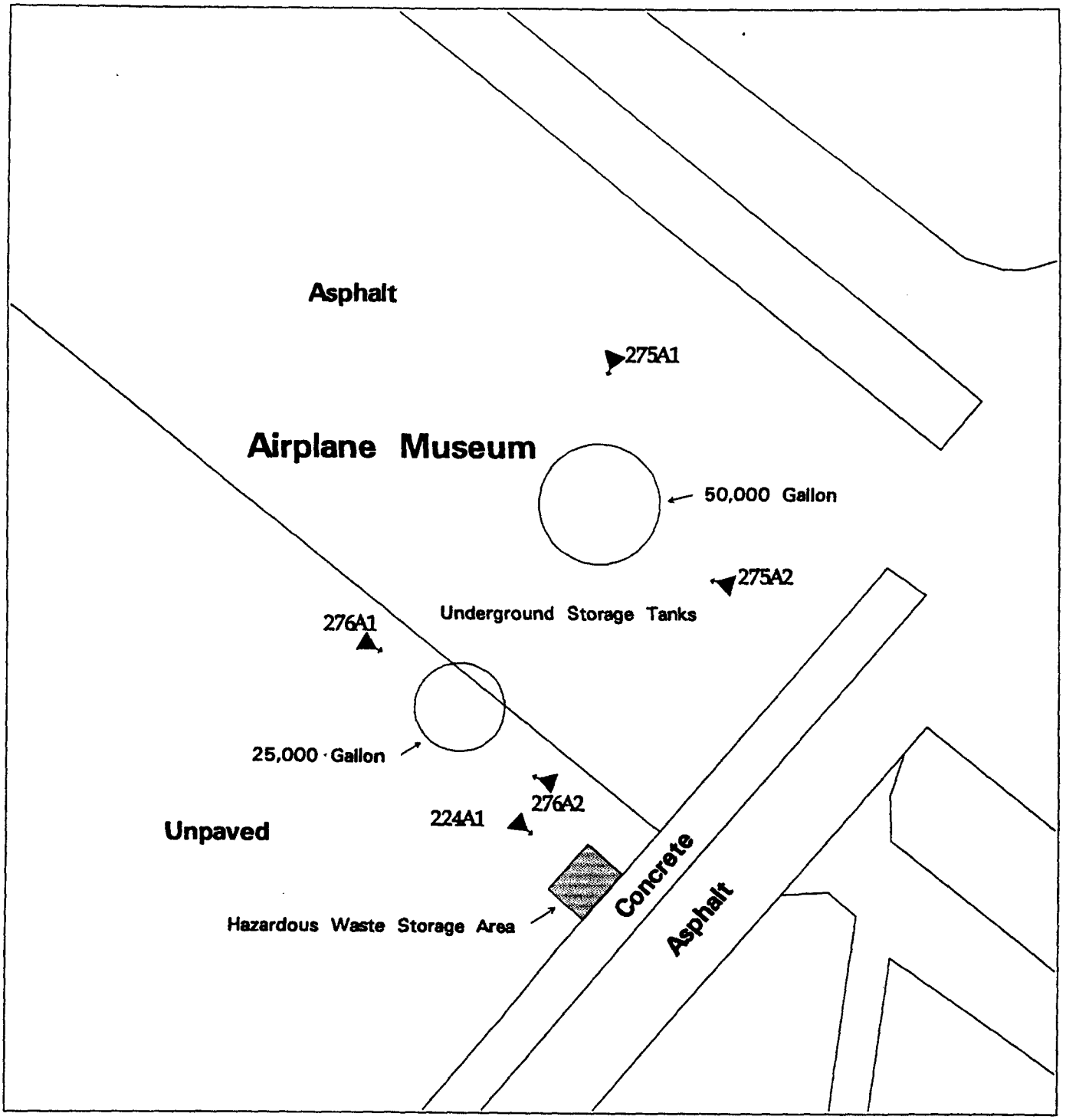


Figure 66 Sample Location Map

Boring Location and Number:

- 123H4 5' Deep Boring
- 123B4 25' Deep Boring
- 123A4 60' Long, Angle Boring

Features:

- Building
- Concrete
- Fence
- Railroad

Scale

0 20 40 80 Feet

SWMU/AOC Number and Type:

224 - Hazardous Waste Storage Area

275 - Underground Storage Tank

276 - Underground Storage Tank

MCAS El Toro
RCRA Facility Assessment

MCAS EL TORO RCRA FACILITY ASSESSMENT – SAMPLING VISIT RESULTS

SWMU/AOC NUMBER	SWMU/AOC TYPE (FIGURE)	BORING NUMBER	SAMPLE DEPTH (FEET)	ANALYTICAL TEST RESULTS							RECOMMENDATIONS	
				TPH (mg/kg)	TFH (mg/kg)		VOCs (ug/kg)	SVOCs (ug/kg)	PESTICIDES/PCBs (ug/kg)	METALS (mg/kg)	Action	Rationale
					Gasoline	Diesel						
224	Hazardous Waste Storage Area (66)	A1	10	ND	ND	ND	Methylene Chloride-5 BJ * Toluene-1 J	Di-n-butylphthalate-29 BJ *	ND	NAB	NFA	TPH/TFH < 100 ppm VOCs < CRDL SVOCs < CRDL Pest/PCB < CRDL Metals < BGT CRDL - Contract Required Detection Limit BGT - Background Threshold Value
			20	ND	ND	ND	Methylene Chloride-6 BJ * Toluene-3 J	Diethylphthalate-39 BJ * Di-n-butylphthalate-46 BJ *	ND	NAB		
			30	ND	ND	ND	Methylene Chloride-4 BJ * Toluene-1 J	Diethylphthalate-39 BJ * Di-n-butylphthalate-35 BJ *	ND	NAB		
			30 (Duplicate)	ND	ND	ND	Methylene Chloride-11 BJ * Toluene-2 J	Di-n-butylphthalate-31 BJ * Bis(2-Ethylhexyl)phthalate-58 J	ND	NAB		
			40	ND	ND	ND	Methylene Chloride-9 BJ * Toluene-2 J	Di-n-butylphthalate-40 BJ *	ND	NAB		
			50	ND	ND	ND	Methylene Chloride-9 BJ * Toluene-2 J	Di-n-butylphthalate-25 BJ *	ND	NAB		
			60	ND	ND	ND	Methylene Chloride-14 B * Toluene-4 J	Diethylphthalate-46 BJ * Di-n-butylphthalate-51 BJ *	ND	NAB		

CH2M HILL

PROJECT NUMBER	BORING NUMBER
LA070022.SC.10	224A-1 SHEET 1 OF 2

SOIL BORING LOG

PROJECT NAVY CLEAN RCRA FACILITY ASSESSMENT LOCATION MCAS-EL TORO

ELEVATION _____ DRILLING CONTRACTOR BEYLIK DRILLING, INC., LA HABRA, CALIFORNIA

DRILLING METHOD AND EQUIPMENT HSA, 4-1/4" ID, 8" OD, FAILING F-10

WATER LEVELS NOT ENCOUNTERED START 10/28/92 FINISH 10/28/92 LOGGER B. HARDESTY

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY (FT)	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
						Start drilling at 11:25.
5.0						
10.0	10.0					
	12.0	1-MC	1.4	6-11-12-14	SANDY LEAN CLAY (CL), grayish brown, moist, stiff to very stiff, fine to coarse sand.	HNu=0 ppm OVA=0 ppm
15.0						
20.0	20.0					
	22.0	2-MC	0.8	6-9-11-17	LEAN CLAY (CL), grayish brown, moist, very stiff, trace to little fine to medium sand.	HNu=0 ppm OVA=0 ppm
	24.0	2A-MC	1.0	11-12-17-17	Similar to 2-MC.	HNu=0 ppm OVA=0 ppm
25.0						
30.0	30.0					
	32.0	3-MC	1.9	14-17-18-20	SANDY LEAN CLAY (CL), grayish brown, moist, very stiff, fine to coarse sand.	HNu=0 ppm OVA=0 ppm
	34.0	3A-MC	1.5	12-18-20-20	32-33' LEAN CLAY WITH SAND (CL), grayish brown, moist, very stiff, fine to medium sand. 33-34' LEAN CLAY (CL), grayish brown, moist, very stiff, fine to medium sand.	HNu=0 ppm OVA=0 ppm
35.0						

CH2M HILL

PROJECT NUMBER	BORING NUMBER
LA070022.S0.10	224A-1 SHEET 2 OF 2

SOIL BORING LOG

PROJECT NAVY CLEAN RCRA FACILITY ASSESSMENT LOCATION MCAS-EL TORO

ELEVATION _____ DRILLING CONTRACTOR BEYLIK DRILLING, INC., LA HABRA, CALIFORNIA

DRILLING METHOD AND EQUIPMENT HSA, 4-1/4" ID, 8" OD, FAILING F-10

WATER LEVELS NOT ENCOUNTERED START 10/28/92 FINISH 10/28/92 LOGGER B. HARDESTY

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY (FT)	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
40.0	40.0					
	42.0	4-MC	1.4	14-17-27-42	40-40.5' LEAN CLAY (CL), grayish brown, moist, very stiff, fine to medium sand. 40.5-42' POORLY GRADED SAND WITH CLAY (SP-SC), grayish brown, moist, dense, fine to medium grained.	HNu=0 ppm OVA=0.4 ppm
45.0						
50.0	50.0					
	52.0	5-MC	1.75	20-20-28-35	LEAN CLAY WITH SAND (CL), grayish brown, moist, hard, fine to coarse sand.	HNu=0 ppm OVA=0.4 ppm
55.0						
60.0	60.0					
	62.0	6-MC	1.5	10-10-26-34	LEAN CLAY (CL), grayish brown, moist, hard, trace silt, trace fine sand.	HNu=0 ppm OVA=2.0 ppm
					Total Depth at 62.0 Feet.	
65.0						
70.0						

Appendix B
BNI VSI Evaluation Report

Southwest Division
Naval Facilities Engineering Command
Contracts Department
1220 Pacific Highway, Room 135
San Diego, CA 92132-5187

Contract No. N68711-92-D-4670

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY

CLEAN II

FINAL ADDENDUM TO THE RCRA FACILITY ASSESSMENT MCAS EL TORO, CALIFORNIA (VOLUME 6 OF THE FINAL RFA REPORT)

CTO-0065/0170

May 1996

Prepared by:

BECHTEL NATIONAL, INC.
401 West A Street, Suite 1000
San Diego, CA 92101

Signature: _____ Date: 31 May 1996
Jacques Lord, CTO Leader

ACCUMULATION AREA EVALUATION CHECKLIST

(CIRCLE AS APPROPRIATE AND FILL IN COMPLETELY)

JOB 22214 CTO-0065
NAVY CLEAN II MCAS EL TORO RFA CONFIRMATION ACTIVITIES

GENERAL DESCRIPTION:

SWMU #: **224** Accumulation Area (AA) #: **771**
Location (bldg): **HWSA/Bldg. 771**
Site Contact: **Leta Suarez** Ext: **2772**
Permission for Access? (Y) ~~N~~ If yes, explain: **locked fence around berm.**
Type of Wastes Observed **None**

TYPE: (CIRCLE AS APPROPRIATE)

~~Locker~~ ~~Cabinet~~ (Pad) (Concrete) ~~/Soil/Asphalt~~ floor
(Berm) (Fence) Fence Type: **Cyclone** ~~Indoor~~
(Pallets) ~~Drum(s)~~ ~~No. of Drums:~~ (Outdoor)

CONDITION:

~~Stain(s)~~ ~~Odor(s)~~ ~~Crack(s)~~
Placards/Labels: ~~Y~~ (N) If Yes, list:

Observations: **Clean concrete pad. Roof over pad. Vacant.**
Status: **No change, inactive as of 11-10-95.**

DIMENSIONS: (ESTIMATED SIZE OR AREA IN FT)

AA/SWMU: **15x10 ft.**
"Stain(s)" : **None.**
Any Restrictions To Access?: **Fence, roof and poles.**

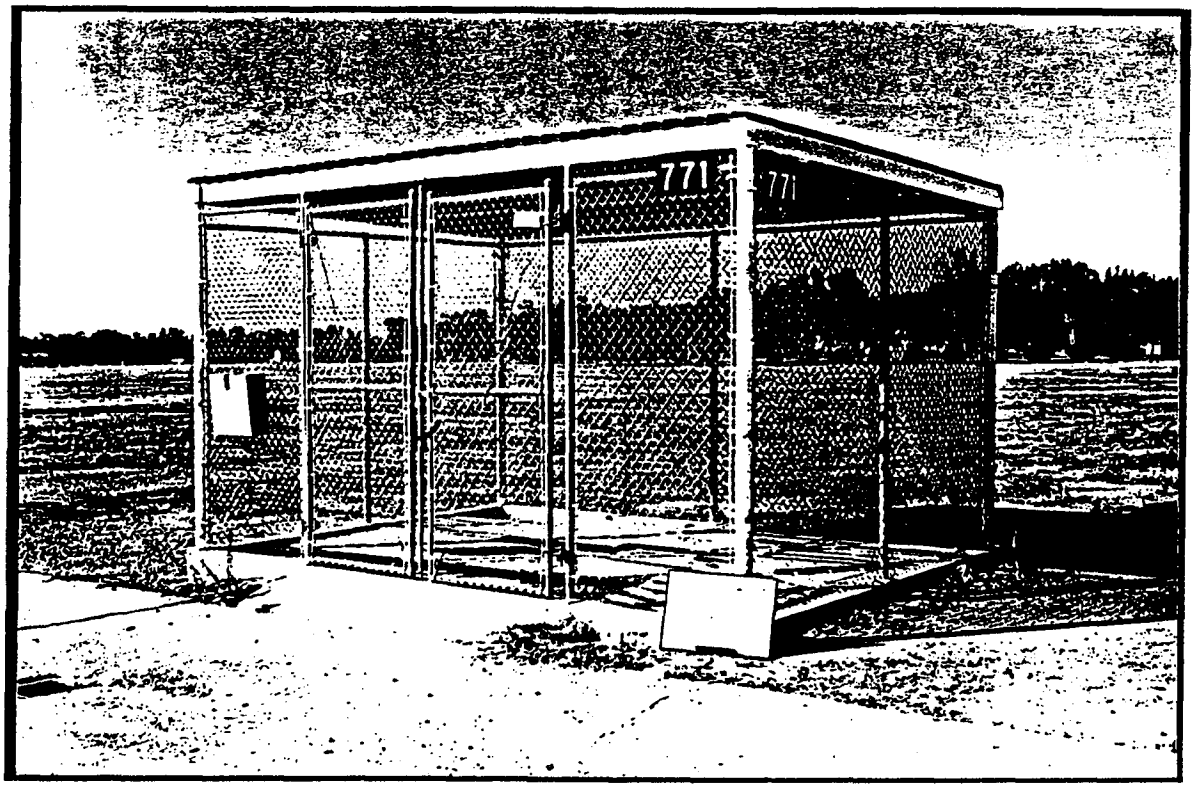
EVALUATION OF REMOVAL/DECONTAMINATION STRATEGY (CIRCLE AS APPROPRIATE)

Yes	(No)	Potential for release evident based on this surveillance
(Yes)	No	Potential for simple removal
Yes	(No)	Potential for decontamination activities prior to removal
Yes	(No)	Potential for sampling (describe:)
Yes	No	Potential for removal after additional assessment activities

SKETCH: (MAKE A SKETCH or ATTACH PHOTO(S) OF RELEVANT ACCESS, OBJECTS, WORK SPACE, ETC., AS APPROPRIATE, ON REVERSE OF THIS FORM)

DATE/TIME OF SURVEILLANCE: 12/6/94/11:40
UPDATED: 11-10-95
SURVEILLANCE PERFORMED BY: Larry Bauman

PHOTO LOG



SWMU #: 224

PHOTO DATE: 12-15-94

Appendix C
Site Photographs

1. Location of TAA 771 Near Former Tank Farm 1

2. Decontamination Activities at TAA 771.

Appendix D
Site Assessment Log

SITE ASSESSMENT LOG

MCAS EL TORO

TEMPORARY ACCUMULATION AREA & RFA SITE

18609, D.O. 70

TAA SITE: 771 RFA SITE: N/A SWMU NO. 224

Field Observations by: D. Rawal **Date:** 10/13/97

TAA area: (Paved) or Unpaved TAA 771, Concrete Paved area with Fence & Roof

Paved: (Concrete) or Asphalt, Condition of the Concrete/Asphalt: Minor Cracks, Stains, etc.
Good Concrete Pad without any Stains, Spills, or Cracks.

Unpaved: Open on the Ground or Inside the Building None,

Is there any Drums or any types of Waste Stored: Yes/(No), If Yes, Describe: No, Some Pallets were left inside TAA, dust & Rain water but no hazardous waste.

Fenced: (Yes)/No, **Sump:** Yes /(No), **Concrete Berm**: (Yes)/No, ___ inch, **Roof:** (Yes)/No

Describe other Structural details: TAA 771 is one of the DHS-Permitted TAA with, Structure of Concrete, beam, Roof. No Spills or Stains were observed on the pad as well as Surrounding TAA. TAA Seems to be in good Condition

TAA Decontamination and/or ~~Demolition Possible~~: (Yes)/No

Site Setup Constrains: Equipment Operation, movement of Excavator or Backhoe None,

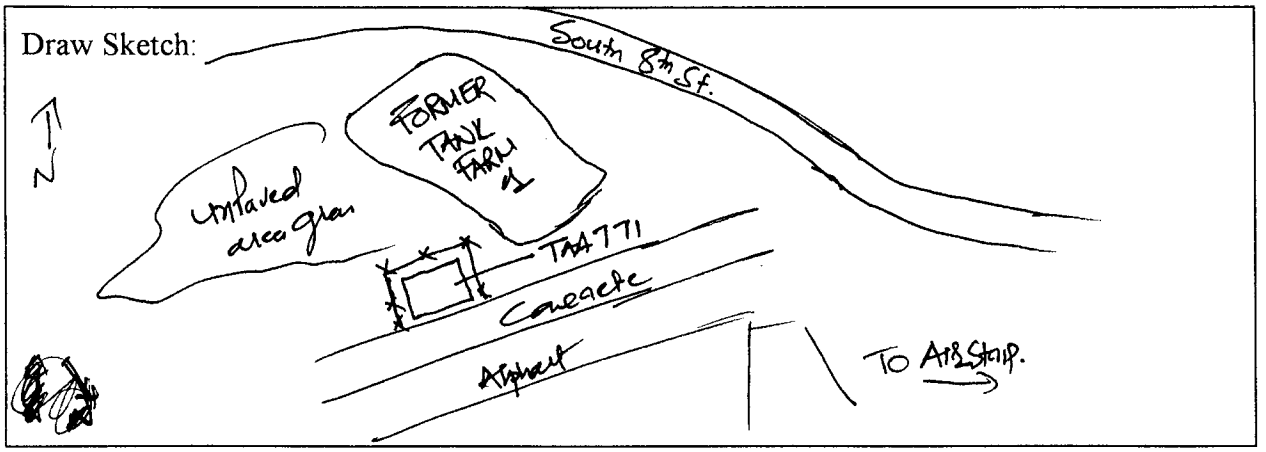
Nearest Building or Structure Distance: Former Tank Farm 1, Appx 10 feet

Any Underground Piping/Lines, or Transformer Observed: None

Overhead Utility Lines/Poles: None

Photograph Roll No. 5 Please attach all the Photographs to this sheet.

Draw Sketch:

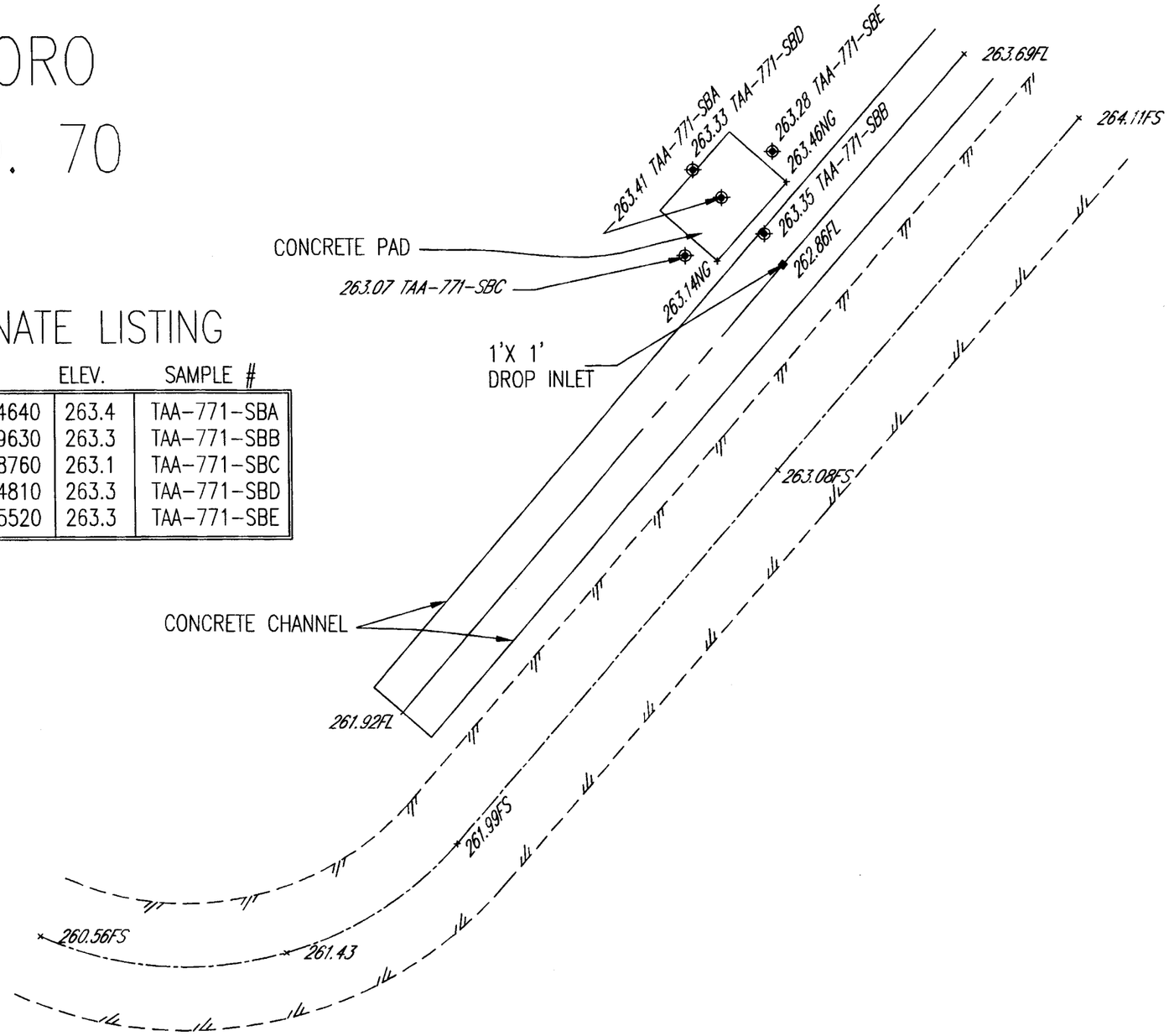


Appendix E
Land Survey Data

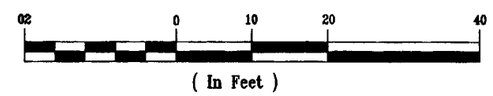
MCAS, EL TORO
TAA-771/D.O. 70

SAMPLE COORDINATE LISTING

NORTHING	EASTING	ELEV.	SAMPLE #
2192089.459750	6107040.934640	263.4	TAA-771-SBA
2192083.766360	6107047.639630	263.3	TAA-771-SBB
2192080.331860	6107035.108760	263.1	TAA-771-SBC
2192093.884270	6107036.414810	263.3	TAA-771-SBD
2192096.775510	6107049.025520	263.3	TAA-771-SBE



Graphic Scale



1 inch = 20 ft.

LEGEND

⊕	SAMPLE LOCATION
	CENTERLINE OF STREET
	EDGE OF PAVEMENT
NG	NATURAL GROUND
FS	FINISH SURFACE
▦	DROP INLET

CAL VADA SURVEYING, INC.
108 Business Center Dr, Corona, Ca 91720
1 800 CALVADA PHONE: (909) 280-9960 FAX: (909) 280-9746
WEB SITE http://www.calvada.com

JOB NO. 97102-40

PREPARED FOR:
OHM REMEDIATION SERVICES, CORP.
2031 MAIN ST., IRVINE, CA 921714
(714) 263-1146

Appendix F
Laboratory Analytical Results for TAA Effluent Treated Water

COMPLETED

OHM Remediation Services Corp
Subsidiary of OHM Corporation
U.S. Route 224 East • Findlay, Ohio 45840 • (419) 423-3526

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY
213552

FORM 0019 REV 2 97

OHM's LAB COORDINATOR: Dwayne Ishida	LAB COORDINATOR'S PHONE: (714) 263-1146	LAB COORDINATOR'S FAX: (714) 263-1147	LABORATORY SERVICE ID: 9802777	LABORATORY CONTACT: Rad Wang	MAIL REPORT (COMPANY NAME): OHM Remediation
PROJECT NAME: TAA Rinse Water	PROJECT LOCATION: El Toro MCAS	PROJECT NUMBER: 18609	LABORATORY PHONE:	LABORATORY FAX:	RECIPIENT NAME: Mary Schneider
PROJECT CONTACT: D. Ishida	PROJECT PHONE NUMBER: 263-1146	PROJECT FAX: 263-1147	LABORATORY ADDRESS:		ADDRESS: 30212031 Main st.
PROJECT ADDRESS: El Toro, MCAS	CITY, STATE AND ZIPCODE: El Toro, CA.	CLIENT: SWDIV	CITY, STATE, AND ZIPCODE: Chino, CA.		CITY, STATE, AND ZIPCODE: Irvine, CA 92714
PROJECT MANAGER: Bill Sedlak	PROJECT MANAGER'S PHONE: 263-1146	PROJECT MANAGER'S FAX: 263-1147			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T.	Analyses: TPH-Purgeable	TPH-Extractable	8260 - VOC	8270 - Semi-VOC	9010 - Cyanide	8082 - PCBs	6010/7000 - Metals	7041 - Pest/PCBs	Comments
1	186009-895	W	8/6/98	0900	4°C iced	10	C	5 day	X	X	X	X	X	X	X	X	APCL
2	186009-896	W	8/7/98	0830	HCl	2	C	5 day	X		X						
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

(MB) 5/7/98

SAMPLES COLLECTED BY: (MB)	COURIER AND AIR BILL NUMBER			COOLER TEMPERATURE UPON RECEIPT
RELINQUISHED BY: Mark Bennett	RECEIVED BY: [illegible]	DATE: 5/7/98	TIME: 1470	SAMPLE'S CONDITION UPON RECEIPT

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Project Information Section
For Project Personnel Only
Do Not Submit to Laboratory

Sample Point Location	Sample Type: G	C	F	QC
1 TAA Rinse Water	X			
2 Trip Blank	X			X

Comments

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	05/07/98
Project ID:	TAA Rinse Water	Service ID:	982777	Collected by:	M.B.
		Lab Sample ID:	98-2777-1	Received Date:	05/07/98
Sample ID:	18609-895	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC. N
Anal. Method:	M8015V	Prep. Date:	05/08/98	Anal. Date:	05/08/98
Batch No:	98G2191	Prep. No:	-	Anal. Time:	17:00
Data File Name:	2777.001	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/L	0.05	<0.05	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	71-134	92
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

72256

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	05/07/98
Project ID:	TAA Rinse Water	Service ID:	982777	Collected by:	M.B.
		Lab Sample ID:	98-2777-1	Received Date:	05/07/98
Sample ID:	18609-895	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	05/08/98	Anal. Date:	05/09/98
Batch No:	98G2255	Prep. No:	1 of 1	Anal. Time:	04:30
Data File Name:	2777.001	Sample Amount:	1000 mL	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/L	0.5	0.4	J
2	TPH AS MOTOR OIL	TBD-0002	mg/L	0.5	<0.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-149	67
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

72298

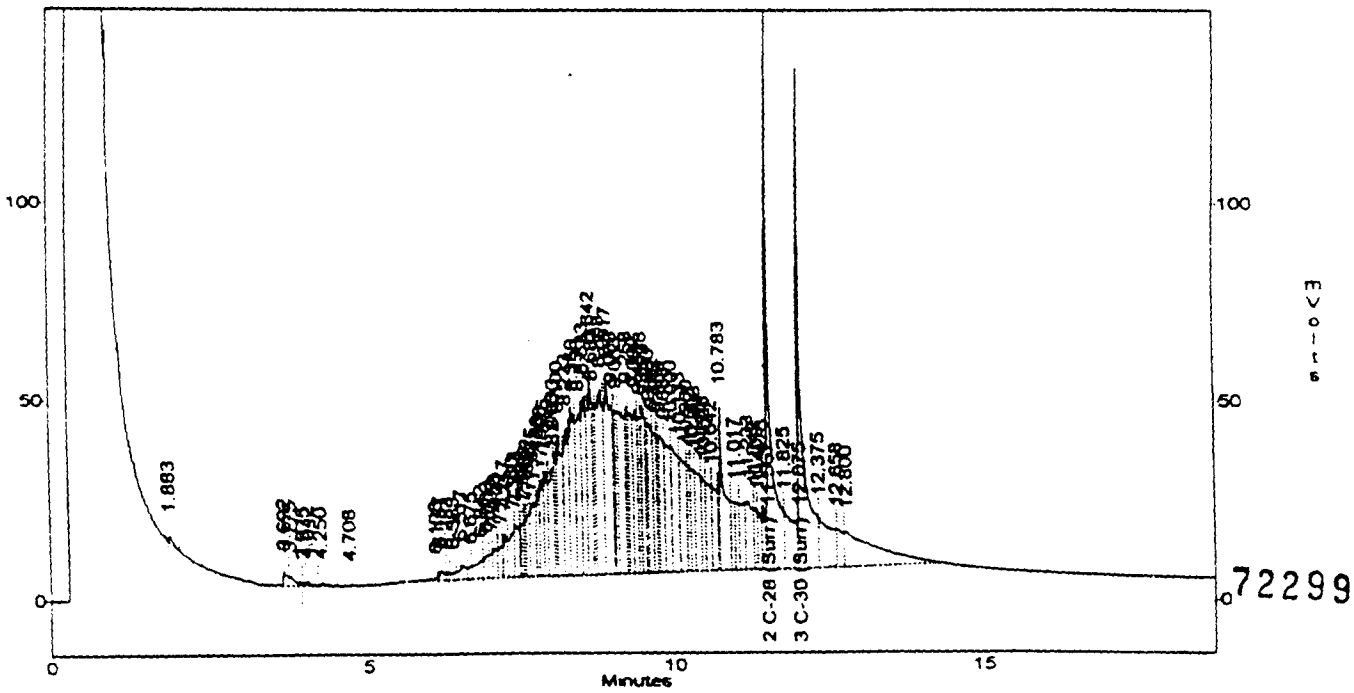
Applied P & Ch Lab
Total Extractable Petroleum Hydrocarbon Analysis by GC-FID
Instrument ID: GC-H, Column: DB-1 (0.32mm x 15m x 0.25 um), 1ul

File : c:\data\9805\ds12h\98g2227\2777.001
Method : c:\erchrom\methods\ds12-032.h00
Sample ID : 2771-1 f=0.001
Vial : 19
Volume : 1
Acquired : May 09, 1998 04:30:09
Printed : May 11, 1998 15:29:28
User : System

Channel B Results

Name	Time	Area	Conc (ppm)
2 C-28 (Surr)	11.57	568707	33.572
3 C-30 (Surr)	12.07	559380	34.213
1 DIESEL		6128528	406.124
4 MOTOR OIL		0	0.000

c:\data\9805\ds12h\98g2227\2777.001 -- Channel B



72299

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	05/07/98
Project ID:	TAA Rinse Water	Service ID:	982777	Collected by:	M.B.
		Lab Sample ID:	98-2777-1	Received Date:	05/07/98
Sample ID:	18609-895	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: G
Anal. Method:	8260	Prep. Date:	05/10/98	Anal. Date:	05/10/98
Batch No:	98G2263	Prep. No:	-	Anal. Time:	02:27
Data File Name:	2777-01	Sample Amount:	25 mL	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	25 mL	Heated Purge: (Y/N) N	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	5	< 5	U
2	BROMOBENZENE	108-86-1	µg/L	5	< 5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	5	< 5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	5	< 5	U
5	BROMOFORM	75-25-2	µg/L	5	< 5	U
6	BROMOMETHANE	74-83-9	µg/L	5	< 5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	5	< 5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	5	< 5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	5	< 5	U
10	CARBON TETRACHLORIDE	56-23-5	µg/L	5	< 5	U
11	CHLOROBENZENE	108-90-7	µg/L	5	< 5	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/L	5	< 5	U
13	CHLOROETHANE	75-00-3	µg/L	5	< 5	U
14	CHLOROFORM	67-66-3	µg/L	5	< 5	U
15	CHLOROMETHANE	74-87-3	µg/L	5	< 5	U
16	2-CHLOROTOLUENE	95-49-8	µg/L	5	< 5	U
17	4-CHLOROTOLUENE	106-43-4	µg/L	5	< 5	U
18	1,2-DIBROMO-3-CHLOROPROPANE (DB	96-12-8	µg/L	5	< 5	U
19	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	5	< 5	U
20	DIBROMOMETHANE	74-95-3	µg/L	5	< 5	U
21	1,2-DICHLOROBENZENE	95-50-1	µg/L	5	< 5	U
22	1,3-DICHLOROBENZENE	541-73-1	µg/L	5	< 5	U
23	1,4-DICHLOROBENZENE	106-46-7	µg/L	5	< 5	U
24	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	5	< 5	U
25	1,1-DICHLOROETHANE	75-34-3	µg/L	5	< 5	U
26	1,2-DICHLOROETHANE	107-06-2	µg/L	5	< 5	U
27	1,1-DICHLOROETHENE	75-35-4	µg/L	5	< 5	U
28	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	5	< 5	U
29	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	5	< 5	U
30	1,2-DICHLOROPROPANE	78-87-5	µg/L	5	< 5	U
31	1,3-DICHLOROPROPANE	142-28-9	µg/L	5	< 5	U
32	2,2-DICHLOROPROPANE	594-20-7	µg/L	5	< 5	U
33	1,1-DICHLOROPROPENE	563-58-6	µg/L	5	< 5	U
34	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	5	< 5	U
35	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	5	< 5	U
36	ETHYLBENZENE	100-41-4	µg/L	5	< 5	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/L	5	< 5	U
38	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	5	< 5	U
39	P-ISOPROPYLTOLUENE	99-87-6	µg/L	5	< 5	U

72112

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	METHYLENE CHLORIDE	75-09-2	µg/L	5	< 5	U
41	NAPHTHALENE	91-20-3	µg/L	5	< 5	U
42	N-PROPYLBENZENE	103-65-1	µg/L	5	< 5	U
43	STYRENE	100-42-5	µg/L	5	< 5	U
44	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	5	< 5	U
45	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	5	< 5	U
46	TETRACHLOROETHENE	127-18-4	µg/L	5	< 5	U
47	TOLUENE	108-88-3	µg/L	5	< 5	U
48	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	5	< 5	U
49	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	5	< 5	U
50	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	5	< 5	U
51	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	5	< 5	U
52	TRICHLOROETHENE	79-01-6	µg/L	5	< 5	U
53	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	5	< 5	U
54	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	5	< 5	U
55	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	5	< 5	U
56	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	5	< 5	U
57	VINYL CHLORIDE	75-01-4	µg/L	5	< 5	U
58	O-XYLENE	95-47-6	µg/L	5	< 5	U
59	M/P-XYLENE	108-38-3	µg/L	5	< 5	U
60	XYLENES (TOTAL)	1330-20-7	µg/L	5	< 5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	86-114	103
2	DIBROMOFLUOROMETHANE	1868-53-7	86-117	101
3	1,2-DICHLOROETHANE-D4	17060-07-0	80-119	101
4	TOLUENE-D8	2037-26-5	88-109	105
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	87
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	92
3	FLUOROBENZENE	462-06-6	50-200	95
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

72113

Applied P & Ch Laboratory

Organic Analysis Results for Method 8270

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	05/07/98
Project ID:	TAA Rinse Water	Service ID:	982777	Collected by:	M.B.
		Lab Sample ID:	98-2777-1	Received Date:	05/07/98
Sample ID:	18609-895	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC/MS: D
Anal. Method:	8270	Prep. Date:	05/11/98	Anal. Date:	05/11/98
Batch No:	98G2274	Prep. No:	1 of 1	Anal. Time:	22:52
Data File Name:	2777-01	Sample Amount:	1000 mL	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACENAPHTHENE	83-32-9	µg/L	10	<10	U
2	ACENAPHTHYLENE	208-96-8	µg/L	10	<10	U
3	ACETOPHENONE	98-86-2	µg/L	10	<10	U
4	4-AMINOBIPHENYL	92-67-1	µg/L	10	<10	U
5	ANILINE	62-53-3	µg/L	10	<10	U
6	ANTHRACENE	120-12-7	µg/L	10	<10	U
7	BENZO[A]ANTHRACENE	56-55-3	µg/L	10	<10	U
8	BENZIDINE	92-87-5	µg/L	20	<20	U
9	BENZO[A]PYRENE	50-32-8	µg/L	10	<10	U
10	BENZO[B]FLUORANTHENE	205-99-2	µg/L	10	<10	U
11	BENZO[G,H,I]PERYLENE	191-24-2	µg/L	10	<10	U
12	BENZO[K]FLUORANTHENE	207-08-9	µg/L	10	<10	U
13	BENZOIC ACID	65-85-0	µg/L	50	<50	U
14	BENZYL ALCOHOL	100-51-6	µg/L	20	<20	U
15	BIS(2-CHLOROETHOXY)METHANE	111-91-1	µg/L	10	<10	U
16	BIS(2-CHLOROETHYL)ETHER	111-44-4	µg/L	10	<10	U
17	BIS(2-CHLOROISOPROPYL)ETHER	108-60-1	µg/L	10	<10	U
18	BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	µg/L	10	4	J
19	4-BROMOPHENYL PHENYL ETHER	101-55-3	µg/L	10	<10	U
20	BUTYL BENZYL PHTHALATE	85-68-7	µg/L	10	<10	U
21	3-METHYL-4-CHLOROPHENOL	59-50-7	µg/L	20	<20	U
22	4-CHLOROANILINE	106-47-8	µg/L	20	<20	U
23	1-CHLORONAPHTHALENE	90-13-1	µg/L	10	<10	U
24	2-CHLORONAPHTHALENE	91-58-7	µg/L	10	<10	U
25	2-CHLOROPHENOL	95-57-8	µg/L	10	<10	U
26	4-CHLOROPHENYL PHENYL ETHER	7005-72-3	µg/L	10	<10	U
27	CHRYSENE	218-01-9	µg/L	10	<10	U
28	DI-N-BUTYLPHTHALATE	84-74-2	µg/L	10	<10	U
29	DI-N-OCTYLPHTHALATE	117-84-0	µg/L	10	<10	U
30	DIBENZ[A,H]ANTHRACENE	53-70-3	µg/L	10	<10	U
31	DIBENZ(A,J)ACRIDINE	224-42-0	µg/L	10	<10	U
32	DIBENZOFURAN	132-64-9	µg/L	10	<10	U
33	1,2-DICHLOROBENZENE	95-50-1	µg/L	10	<10	U
34	1,3-DICHLOROBENZENE	541-73-1	µg/L	10	<10	U
35	1,4-DICHLOROBENZENE	106-46-7	µg/L	10	<10	U
36	3,3'-DICHLOROBENZIDINE	91-94-1	µg/L	10	<10	U
37	2,4-DICHLOROPHENOL	120-83-2	µg/L	10	<10	U
38	2,6-DICHLOROPHENOL	87-65-0	µg/L	10	<10	U
39	DIETHYL PHTHALATE	84-66-2	µg/L	10	<10	U
40	DIMETHYL PHTHALATE	131-11-3	µg/L	10	<10	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
41	P-DIMETHYLAMINOAZOBENZENE	60-11-7	µg/L	10	< 10	U
42	7,12-DIMETHYLBENZ(A)ANTHRACENE	57-97-6	µg/L	10	< 10	U
43	2,4-DIMETHYLPHENOL	105-67-9	µg/L	10	< 10	U
44	Å-DIMETHYLPHENYLAMINE	122-09-8	µg/L	50	< 50	U
45	2-METHYL-4,6-DINITROPHENOL	534-52-1	µg/L	50	< 50	U
46	2,4-DINITROPHENOL	51-28-5	µg/L	50	< 50	U
47	2,4-DINITROTOLUENE	121-14-2	µg/L	10	< 10	U
48	2,6-DINITROTOLUENE	606-20-2	µg/L	10	< 10	U
49	DIPHENYLAMINE	122-39-4	µg/L	10	< 10	U
50	1,2-DIPHENYLHYDRAZINE	122-66-7	µg/L	10	< 10	U
51	ETHYL METHANESULFONATE	62-50-0	µg/L	10	< 10	U
52	FLUORANTHENE	206-44-0	µg/L	10	< 10	U
53	FLUORENE	86-73-7	µg/L	10	< 10	U
54	HEXACHLOROBENZENE	118-74-1	µg/L	10	< 10	U
55	HEXACHLOROBUTADIENE	87-68-3	µg/L	10	< 10	U
56	HEXACHLOROCYCLOPENTADIENE	77-47-4	µg/L	10	< 10	U
57	HEXACHLOROETHANE	67-72-1	µg/L	10	< 10	U
58	INDENO[1,2,3-CD]PYRENE	193-39-5	µg/L	10	< 10	U
59	ISOPHORONE	78-59-1	µg/L	10	< 10	U
60	METHYL METHANESULFONATE	66-27-3	µg/L	10	< 10	U
61	3-METHYLCHOLANTHRENE	56-49-5	µg/L	10	< 10	U
62	2-METHYLNAPHTHALENE	91-57-6	µg/L	10	< 10	U
63	4-METHYLPHENOL	106-44-5	µg/L	10	< 10	U
64	2-METHYLPHENOL	95-48-7	µg/L	10	< 10	U
65	NAPHTHALENE	91-20-3	µg/L	10	< 10	U
66	1-NAPHTHYLAMINE	134-32-7	µg/L	10	< 10	U
67	2-NAPHTHYLAMINE	91-59-8	µg/L	10	< 10	U
68	2-NITROANILINE	88-74-4	µg/L	50	< 50	U
69	3-NITROANILINE	99-09-2	µg/L	50	< 50	U
70	4-NITROANILINE	100-01-6	µg/L	50	< 50	U
71	NITROBENZENE	98-95-3	µg/L	10	< 10	U
72	2-NITROPHENOL	88-75-5	µg/L	10	< 10	U
73	4-NITROPHENOL	100-02-7	µg/L	50	< 50	U
74	N-NITROSODI-N-PROPYLAMINE	621-64-7	µg/L	10	< 10	U
75	N-NITROSO-DI-N-BUTYLAMINE	924-16-3	µg/L	10	< 10	U
76	N-NITROSODIMETHYLAMINE	62-75-9	µg/L	10	< 10	U
77	N-NITROSODIPHENYLAMINE	86-30-6	µg/L	10	< 10	U
78	N-NITROSOPIPERIDINE	100-75-4	µg/L	10	< 10	U
79	PENTACHLOROBENZENE	608-93-5	µg/L	50	< 50	U
80	PENTACHLOROPHENOL	87-86-5	µg/L	50	< 50	U
81	PHENACETIN	62-44-2	µg/L	10	< 10	U
82	PHENANTHRENE	85-01-8	µg/L	10	< 10	U
83	PHENOL	108-95-2	µg/L	10	< 10	U
84	2-PICOLINE	109-06-8	µg/L	20	< 20	U
85	PRONAMIDE	23950-58-5	µg/L	10	< 10	U
86	PYRENE	129-00-0	µg/L	10	< 10	U
87	1,2,4,5-TETRACHLOROBENZENE	95-94-3	µg/L	10	< 10	U
88	2,3,4,6-TETRACHLOROEPHENOL	58-90-2	µg/L	10	< 10	U
89	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	10	< 10	U
90	2,4,5-TRICHLOROPHENOL	95-95-4	µg/L	10	< 10	U

72153

#	Component Name	CAS No	Unit	RL	Result	Qualifier
91	2,4,6-TRICHLOROPHENOL	88-06-2	µg/L	10	<10	U

Surrogates			Control Limit, %	Surro. Rec.%
1	2-FLUOROBIPHENYL	321-60-8	43-115	53
2	2-FLUOROPHENOL	367-12-4	21- 99	38
3	NITROBENZENE-D5	4165-60-0	35-113	56
4	PHENOL-D5	4165-62-2	10- 93	30
5	TERPHENYL-D14	1718-51-0	33-140	72
6	2,4,6-TRIBROMOPHENOL	118-79-6	10-122	55
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	ACENAPHTHENE-D10	15067-26-2	50-200	68
2	CHRYSENE-D12	1719-03-5	50-200	57
3	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	69
4	NAPHTHALENE-D8	1146-65-2	50-200	73
5	PERYLENE-D12	1520-96-3	50-200	52
6	PHENANTHRENE-D10	1517-22-2	50-200	58
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

72154

Applied P & Ch Laboratory

Wet Analysis Results for Method 335.2

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Anal. Method	335.2
Project ID:	TAA Rinse Water	Service ID:	982777	Collected by:	M.B.

Component Name: CYANIDE
CAS No: 5952-50-0

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
98-2777-1	18609-895	Water	05/07/98	05/07/98	05/11/98	98W2915	mg/L	0.05	<0.05	U
98W2915-MB-01	98W2915-MB-01	Water	05/11/98	05/11/98	05/11/98	98W2915	mg/L	0.05	<0.05	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

72392

Applied P & Ch Laboratory

Wet Analysis Results for Method 9040

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Anal. Method	9040
Project ID:	TAA Rinse Water	Service ID:	982777	Collected by:	M.B.

Component Name: PH
CAS No: 9999-90

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
98-2777-1	18609-895	Water	05/07/98	05/07/98	05/08/98	98W2869	pH unit	0.01	8.15	
98W2869-MB-01	98W2869-MB-01	Water	05/08/98	05/08/98	05/08/98	98W2869	pH unit	0.01	6.56	

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

72393

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	05/07/98
Project ID:	TAA Rinse Water	Service ID:	982777	Collected by:	M.B.
		Lab Sample ID:	98-2777-1	Received Date:	05/07/98
Sample ID:	18609-895	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	µg/L	10	<1.9	U	P		98M1447M	05/08/98	05/08/98	1	6010
ARSENIC	7440-38-2	µg/L	5	<1.1	U	P		98M1447M	05/08/98	05/08/98	1	6010
BARIUM	7440-39-3	µg/L	10	35.2		P		98M1447M	05/08/98	05/08/98	1	6010
BERYLLIUM	7440-41-7	µg/L	2	<0.1	U	P		98M1447M	05/08/98	05/08/98	1	6010
CADMIUM	7440-43-9	µg/L	2	0.38	B	P		98M1447M	05/08/98	05/08/98	1	6010
CHROMIUM	7440-47-3	µg/L	5	0.70	B	P		98M1447M	05/08/98	05/08/98	1	6010
COBALT	7440-48-4	µg/L	5	<0.3	U	P		98M1447M	05/08/98	05/08/98	1	6010
COPPER	7440-50-8	µg/L	10	13.8		P		98M1447M	05/08/98	05/08/98	1	6010
LEAD	7439-92-1	µg/L	5	<0.7	U	P		98M1447M	05/08/98	05/08/98	1	6010
MERCURY	7439-97-6	µg/L	0.5	<0.13	U	CV		98M1453D	05/11/98	05/11/98	1	7470
MOLYBDENUM	7439-98-7	µg/L	5	9.3		P		98M1447M	05/08/98	05/08/98	1	6010
NICKEL	7440-02-0	µg/L	5	2.9	B	P		98M1447M	05/08/98	05/08/98	1	6010
SELENIUM	7782-49-2	µg/L	10	<1.5	U	P		98M1447M	05/08/98	05/08/98	1	6010
SILVER	7440-22-4	µg/L	10	<1.1	U	P		98M1447M	05/08/98	05/08/98	1	6010
THALLIUM	7440-28-0	µg/L	10	2.2	B	P		98M1447M	05/08/98	05/08/98	1	6010
VANADIUM	7440-62-2	µg/L	10	<0.91	U	P		98M1447M	05/08/98	05/08/98	1	6010
ZINC	7440-66-6	µg/L	5	30.4		P		98M1447M	05/08/98	05/08/98	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

72345

Applied P & Ch Laboratory

Organic Analysis Results for Method 8080

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	05/07/98
Project ID:	TAA Rinse Water	Service ID:	982777	Collected by:	M.B.
		Lab Sample ID:	98-2777-1	Received Date:	05/07/98
Sample ID:	18609-895	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: R
Anal. Method:	8080	Prep. Date:	05/08/98	Anal. Date:	05/09/98
Batch No:	98G2249	Prep. No:	1 of 1	Anal. Time:	06:35
Data File Name:	2777.001	Sample Amount:	1000 mL	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ALDRIN	309-00-2	µg/L	0.05	<0.05	U
2	BETA-BHC	319-85-7	µg/L	0.05	<0.05	U
3	ALPHA-BHC	319-84-6	µg/L	0.05	<0.05	U
4	DELTA-BHC	319-86-8	µg/L	0.05	<0.05	U
5	GAMMA-BHC	58-89-9	µg/L	0.05	<0.05	U
6	4,4'-DDD	72-54-8	µg/L	0.1	<0.1	U
7	4,4'-DDE	72-55-9	µg/L	0.1	<0.1	U
8	4,4'-DDT	50-29-3	µg/L	0.1	<0.1	U
9	DIELDRIN	60-57-1	µg/L	0.1	<0.1	U
10	ENDOSULFAN I	959-98-8	µg/L	0.05	<0.05	U
11	ENDOSULFAN II	33213-65-9	µg/L	0.1	<0.1	U
12	ENDOSULFAN SULFATE	1031-07-8	µg/L	0.5	<0.5	U
13	ENDRIN	72-20-8	µg/L	0.1	<0.1	U
14	ENDRIN ALDEHYDE	7421-93-4	µg/L	0.1	<0.1	U
15	ENDRIN KETONE	53494-70-5	µg/L	0.1	<0.1	U
16	HEPTACHLOR	76-44-8	µg/L	0.05	<0.05	U
17	HEPTACHLOR EPOXIDE	1024-57-3	µg/L	0.05	<0.05	U
18	METHOXYCHLOR	72-43-5	µg/L	2	<2	U
19	CHLORDANE	57-74-9	µg/L	2	<2	U
20	TOXAPHENE	8001-35-2	µg/L	5	<5	U
21	AROCLOR-1016	12674-11-2	µg/L	2	<2	U
22	AROCLOR-1221	11104-28-2	µg/L	5	<5	U
23	AROCLOR-1232	11141-16-5	µg/L	2	<2	U
24	AROCLOR-1242	53469-21-9	µg/L	2	<2	U
25	AROCLOR-1248	12672-29-6	µg/L	2	<2	U
26	AROCLOR-1254	11097-69-1	µg/L	1	<1	U
27	AROCLOR-1260	11096-82-5	µg/L	1	<1	U

Surrogates			Control Limit, %	Surro. Rec.%
1	DECACHLOROBIPHENYL (DCB)	2051-24-3	30-145	78
2	2,4,5,6-TETRACHLORO-M-XYLENE	877-09-8	34-144	76
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	DIBUTYLCHLORENDATE (DBC)	1770-80-5	50-200	79
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

72195

Appendix G
Laboratory Analytical Reports

COMPLETED 10/21 pw

OHM Remediation Services Corp
Subsidiary of OHM Corporation
U.S. Route 224 East • Findlay, Ohio 45840 • (419) 423-3526

CHAIN-OF-CUSTODY RECORD

D070

PROJECT DATA MANAGER'S COPY

212051

FORM 0019 REV. 2-97

OHM's LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
DWAYNE Ishida	(714) 263-1146	(714) 263-1147	9710387		
PROJECT NAME: TAA 771	**PROJECT LOCATION** EL TORO MCAS	**PROJECT NUMBER** 18609	**LABORATORY PHONE**	**LABORATORY FAX**	**RECIPIENT NAME**
PROJECT CONTACT D. Ishida	**PROJECT PHONE NUMBER** 263-1146	**PROJECT FAX** 263-1147	**LABORATORY ADDRESS**		**ADDRESS**
PROJECT ADDRESS 2031 Main St.	**CITY, STATE AND ZIPCODE** IRVINE, CA.	**CLIENT** SWDIV	**CITY, STATE AND ZIPCODE** Glendale, CA		**CITY, STATE AND ZIPCODE**
PROJECT MANAGER Bill Sedlak	**PROJECT MANAGER'S PHONE** 263-1146	**PROJECT MANAGER'S FAX** 263-1147			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	8270 (PAH)	8260	8270 (VOC)	1010/1000s	8015 9010	9045	8081	TPH Reusable	TPH-Extractable	Comments
																		VOC
1	18609-610	S	10/16/97 0830	—	1	C		5DAY	X	X	X	X	X	X	X	X	X	Sample @ (X) on cap
2	18609-611		1054	—	1	C		5DAY	X	(X)	X	X	X	X	X	X	X	deleted
3	18609-612		0950	—	1	C		5DAY	X	X	X	X	X	X	X	X	X	Called Patty Matta, VOC 10/20/97 0830
4	18609-613		1018	—	1	C		5DAY	X	(X)	X	X	X	X	X	X	X	
5	18609-614		1050	—	1	C		5DAY	X	X	X	X	X	X	X	X	X	
6	18609-615		1030 @ 0845	—	1	D		5DAY	X	(X)	X	X	X	X	X	X	X	
7	18609-616		0845 @ 0849	—	1	C		5DAY	X	X	X	X	X	X	X	X	X	
8	18609-617		0849 @ 0934	—	1	C		5DAY	X	(X)	X	X	X	X	X	X	X	
9	18609-618		0934 @ 0940	—	1	C		5DAY	X	X	X	X	X	X	X	X	X	
10	18609-619	S	10/16/97 0940	—	1	C		5DAY	X	(X)	X	X	X	X	X	X	X	Sample @ (X) on cap

SAMPLES COLLECTED BY: Mark Bennett

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Mark Bennett	[signature]	10/17/97	1500	
[signature]		10/17/97		
	A. Mulligan	10/23/97	4:00	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Project Information Section
For Project Personnel Only
Do Not Submit to Laboratory

Sample Point Location	Sample Type G	C	F	QC
1) 771SBA-1.5 ✓	X			
2) A-3' ✓	X			
3) B-1.5 ✓	X			
4) B-3' ✓	X			
5) C-1.5 ✓	X			
6) C-3' ✓	X			
7) D-1.5 ✓	X			
8) D-3' ✓	X			
9) E-1.5	X			
10) 771SB E-3'	X			

Comments

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

COMPLETED 10/21

OHM Remediation Services Corp
Subsidiary of OHM Corporation
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CHAIN-OF-CUSTODY RECORD

D070

PROJECT DATA MANAGER'S COPY

212053

FORM 0019 REV. 2-97

M's LAB COORDINATOR: Wayne Ishida	LAB COORDINATOR'S PHONE: (714) 263-1146	LAB COORDINATOR'S FAX: (714) 263-1147	LABORATORY SERVICE ID: 9710387	LABORATORY CONTACT:	MAIL REPORT (COMPANY NAME):
JECT NAME: AA 314	PROJECT LOCATION: EL TORO MCAS	PROJECT NUMBER: 18609	LABORATORY PHONE:	LABORATORY FAX:	RECIPIENT NAME:
JECT CONTACT: Ishida	PROJECT PHONE NUMBER: 263-1146	PROJECT FAX: 263-1147	LABORATORY ADDRESS:		ADDRESS:
JECT ADDRESS: 031 Main St.	CITY, STATE AND ZIPCODE: Irvine, CA.	CLIENT: SWDIV	CITY, STATE AND ZIPCODE: Glendale, CA		CITY, STATE AND ZIPCODE:
JECT MANAGER: Bill Sedlak	PROJECT MANAGER'S PHONE: 263-1146	PROJECT MANAGER'S FAX: 263-1147			

Analyses: 8260, 8270, 1010/7000s, 9010, 9045, 8081, TPH-Purgeable, TPH-Extractable

VOC

Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	8260	8270	1010/7000s	9010	9045	8081	TPH-Purgeable	TPH-Extractable	Comments
18609-628	S	10/16/97	1308	—	1	C	5DAY	X	X	X	X	X	X	X	X	Sample from X on Cap
18609-629			1312	—	1	C	5DAY	X	X	X	X	X	X	X	X	deleted
18609-630			1345	—	1	C	5DAY	X	X	X	X	X	X	X	X	Called Patty Matta, VOC 10/20/97, 0830
18609-631			1358	—	1	C	5DAY	X	X	X	X	X	X	X	X	
18609-632			1327	—	1	C	5DAY	X	X	X	X	X	X	X	X	
18609-633	S		1340	—	1	C	5DAY	X	X	X	X	X	X	X	X	Sample from X on Cap
18609-6360	W	10/16/97	0700	—	1	C	5DAY	X						X		

(MB) 10/16/97

SAMPLES COLLECTED BY: (MB)

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME
[signature]	[signature]	10/17/97	1500
[signature]	[signature]	10/17/97	
	A. Makijan	10-17-97	4:[illegible]

SAMPLE'S CONDITION UPON RECEIPT

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Project Information Section
For Project Personnel Only
Do Not Submit to Laboratory

Sample Point Location	Sample Type: G	C	F	QC
1. 3145BA-1.5	X			
2. A-3'	X			
3. B-1.5	X			
4. B-3'	X			
5. C-1.5	X			
6. 3145BB-3'	X			
7. ~~Rinsate~~ Trip Blank	X			X

Comments

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

COMPLETED
10/7 yl

OHM Remediation Services Corp
Subsidiary of OHM Corporation
U.S. Route 224 East • Findlay, Ohio 45840 • (419) 423-3526

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

212044

FORM 0019 REV. 2-97

D070

OHM's LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
DWAYNE ISHIDA	(714) 263-1146	(714) 263-1147	9710387		
PROJECT NAME: TAA 771	PROJECT LOCATION: EL TORO MCAS	PROJECT NUMBER: 18609	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
PROJECT CONTACT: D. ISHIDA	PROJECT PHONE NUMBER: 263-1146	PROJECT FAX: 263-1147	LABORATORY ADDRESS		ADDRESS
PROJECT ADDRESS: 2030 MAIN ST.	CITY, STATE AND ZIPCODE: IRVINE, CA.	CLIENT: SWDIV	CITY, STATE AND ZIPCODE: GLENDALE, CA		CITY, STATE AND ZIPCODE
PROJECT MANAGER: Bill Sedlak	PROJECT MANAGER'S PHONE: 263-1146	PROJECT MANAGER'S FAX: 263-1147			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8260	pH-Purgable	TPH-EX Extractable						Comments
1	~~18609~~ 18609-637A	W	10/16/97	1100	HCL NONE	3	C	5DAY	X	X	X						VOC
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

10/16/97

SAMPLES COLLECTED BY	COURIER AND AIR BILL NUMBER			COOLER TEMPERATURE UPON RECEIPT
RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
		10/17/97	1500	
		10/17/97		
	A. Making on 10-17-97		6:00	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Project Information Section
For Project Personnel Only
Do Not Submit to Laboratory

Sample Point Location	Sample Type: G	C	F	Q
1) RINSATE FOR TAA771	X			

Comments

Sample Type: G - Grab, C - Composite, F - Field Sample
QC - Quality Control Sample

COMPLETED 11/12/97

OHM Remediation Services Corp
Subsidiary of OHM Corporation
U.S. Route 224 East • Findlay, Ohio 45840 • (419) 423-3526

CHAIN-OF-CUSTODY RECORD

DO 78

PROJECT DATA MANAGER'S COPY

212081

FORM 0019 REV. 2-97

OHM's LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
DWAYNE ISHIDA	(714) 263-1146	(714) 263-1147			
PROJECT NAME	**PROJECT LOCATION**	**PROJECT NUMBER**	**LABORATORY PHONE**	**LABORATORY FAX**	**RECIPIENT NAME**
TAA 240 RINSATE	EL TORO MCAS	18609			
PROJECT CONTACT	**PROJECT PHONE NUMBER**	**PROJECT FAX**	**LABORATORY ADDRESS**		**ADDRESS**
D. ISHIDA	263-1146	263-1147			
PROJECT ADDRESS	**CITY, STATE AND ZIPCODE**	**CLIENT**	**CITY, STATE AND ZIPCODE**		**CITY, STATE AND ZIPCODE**
2031 MAIN ST.	IRVINE, CA.	SWDIV	ANAHEIM, CA.		
PROJECT MANAGER	**PROJECT MANAGER'S PHONE**	**PROJECT MANAGER'S FAX**			
BILL SEDLAK	263-1146	263-1147			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: TPH-Purgeable	TPH-Extractable	8260	8270	Cyanide-9010	Metals-6010/7000	Pest/PCBs-8081	pH-9045	Comments
1	18609-742	W	10/30/97	0900	HCL	2	C	5DAY	X		X						VOC
2	18609-743	W	10/30/97	0930	HCL HNO3 NaOH	10	C	5DAY	X	X	X	X	X	X	X	X	
3	18609-744	W	10/30/97	1405	HCL HNO3 NaOH	10	C	5DAY	X	X	X	X	X	X	X	X	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

MB 10/30/97

SAMPLES COLLECTED BY	COURIER AND AIR BILL NUMBER			COOLER TEMPERATURE UPON RECEIPT
MB				
RELINQUISHED BY	**RECEIVED BY**	**DATE**	**TIME**	**SAMPLE'S CONDITION UPON RECEIPT**
Mark Bonne	[illegible]	10/30/97	1430	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Project Information Section
For Project Personnel Only
Do Not Submit to Laboratory

Sample Point Location	Sample Type: G	C	F	QC
1. TRIP BLANK	X			X
2. SOURCE BLANK	X			X
3. TAA #240 RINSE	X			

Comments

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

COMPLETED 1/10

OHM Remediation Services Corp
Subsidiary of OHM Corporation
U.S. Route 224 East • Findlay, Ohio 45840 • (419) 423-3526

CHAIN-OF-CUSTODY RECORD

DO 70

PROJECT DATA MANAGER'S COPY

212109

FORM 0019 REV. 2-97

OHM's LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
DWAYNE ISHIDA	(714) 263-1146	(714) 263-1147	9711110		

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
TAA 771 RINSE	EL TORO MCAS	12609			

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
D. ISHIDA	263-1146	263-1147		

PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE	CITY, STATE AND ZIPCODE
2031 MAIN ST.	IRVINE, CA.	SWDIV	ANAHEIM, CA.	

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
BILL SEDLAK	263-1146	263-1147

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	TPH-Purgeable	TPH-Extractable	8260 - VOC	8270 - SVOC/PAH	CN0 - Cyanide	9045 - Ph	6010 Metals	8081 - Pest/PCBs	Comments
1	12609-759	W	11/5/97	1455	HCL HNO3 NaOH	30	C	5DAY	X	X	X	X	X	X	X	X	MS/MSD
2	12609-7100	W	11/5/97	1400	HCL	2	C	5DAY	X		X						
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

VOC

MB 11/5/97

SAMPLES COLLECTED BY: MB	COURIER AND AIR BILL NUMBER:				COOLER TEMPERATURE UPON RECEIPT:
RELINQUISHED BY	RECEIVED BY		DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	[signature] VOC		11/6/97	0855	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Project Information Section For Project Personnel Only Do Not Submit to Laboratory

Sample Point Location	Sample Type G	C	F	QC
1 TAA #771 RINSE	X			X
2. TRIP BLANK				

Comments

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

SAMPLE NO: 9710387*1

Received: 10.17.97
Mailed : 11.04.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 260411
Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

	SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE	DATE SAMPLED
9710387*1	18609-610	10.16.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
(Following results reported on the basis of 30.0% moisture)							
Mod 8015 - Gas							
TPH (Gasoline Range)	8015M		10.21.97	1	mg/kg	14	U
Surrogates **							
a,a,a-Trifluorotoluene Rep.	8015M		10.21.97	1	Percent	103	

SAMPLE NO: 9710387*1

Received: 10.17.97
Mailed : 11.04.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 260411
Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*1	18609-610	10.16.97

(Following results reported on the basis of 30.0% moisture)

JP-5

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
TPH (Diesel Range)	8015M	10.21.97	10.22.97	1	mg/kg	14	U
JP-5	8015M	10.21.97	10.22.97	1	mg/kg	14	U
Surrogates **							
Naphthalene Reported	8015M	10.21.97	10.22.97	1	Percent	83	
o-Terphenyl Reported	8015M	10.21.97	10.22.97	1	Percent	95	

SAMPLE NO: 9710387*1

Received: 10.17.97
Mailed : 11.04.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 260411
Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*1	18609-610	10.16.97

(Following results reported on the basis of 30.0% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
1,1,1-Trichloroethane	8260A		10.20.97	1	ug/kg	7.1	U
1,1,2,2-Tetrachloroethane	8260A		10.20.97	1	ug/kg	7.1	U
1,1,2-Trichloroethane	8260A		10.20.97	1	ug/kg	7.1	U
1,1-Dichloroethane	8260A		10.20.97	1	ug/kg	7.1	U
1,1-Dichloroethene	8260A		10.20.97	1	ug/kg	7.1	U
1,2-Dichloroethane	8260A		10.20.97	1	ug/kg	7.1	U
1,2-Dichloropropane	8260A		10.20.97	1	ug/kg	7.1	U
2-Chloroethylvinylether	8260A		10.20.97	1	ug/kg	71	U
2-Hexanone	8260A		10.20.97	1	ug/kg	71	U
Acetone	8260A		10.20.97	1	ug/kg	71	U
Bromodichloromethane	8260A		10.20.97	1	ug/kg	7.1	U
Bromomethane	8260A		10.20.97	1	ug/kg	7.1	U
Benzene	8260A		10.20.97	1	ug/kg	7.1	U
Bromoform	8260A		10.20.97	1	ug/kg	7.1	U
Chlorobenzene	8260A		10.20.97	1	ug/kg	7.1	U
Carbon Tetrachloride	8260A		10.20.97	1	ug/kg	7.1	U
Chloroethane	8260A		10.20.97	1	ug/kg	7.1	U
Chloroform	8260A		10.20.97	1	ug/kg	7.1	U
Chloromethane	8260A		10.20.97	1	ug/kg	7.1	U
Carbon Disulfide	8260A		10.20.97	1	ug/kg	7.1	U
Dibromochloromethane	8260A		10.20.97	1	ug/kg	7.1	U
Ethylbenzene	8260A		10.20.97	1	ug/kg	7.1	U
Methyl ethyl ketone	8260A		10.20.97	1	ug/kg	71	U
Methyl isobutyl ketone	8260A		10.20.97	1	ug/kg	71	U

SAMPLE NO: 9710387*1

Received: 10.17.97
Mailed : 11.04.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 260411
Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*1	18609-610	10.16.97

(Following results reported on the basis of 30.0% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Methyl-tert-butylether	8260A		10.20.97	1	ug/kg	14	U
Methylene chloride	8260A		10.20.97	1	ug/kg	7.1	U
Styrene	8260A		10.20.97	1	ug/kg	7.1	U
Trichloroethene	8260A		10.20.97	1	ug/kg	7.1	U
Toluene	8260A		10.20.97	1	ug/kg	7.1	U
Tetrachloroethene	8260A		10.20.97	1	ug/kg	7.1	U
Vinyl acetate	8260A		10.20.97	1	ug/kg	14	U
Vinyl chloride	8260A		10.20.97	1	ug/kg	7.1	U
Total Xylene Isomers	8260A		10.20.97	1	ug/kg	21	U
cis-1,2-Dichloroethene	8260A		10.20.97	1	ug/kg	7.1	U
cis-1,3-Dichloropropene	8260A		10.20.97	1	ug/kg	7.1	U
trans-1,2-Dichloroethene	8260A		10.20.97	1	ug/kg	7.1	U
trans-1,3-Dichloropropene	8260A		10.20.97	1	ug/kg	7.1	U
Surrogates **							
1,2-Dichloroethane-d4 Rep.	8260A		10.20.97	1	Percent	88	
4-Bromofluorobenzene Rep.	8260A		10.20.97	1	Percent	99	
Toluene-d8 Reported	8260A		10.20.97	1	Percent	92	
Dibromofluoromethane Rep.	8260A		10.20.97	1	Percent	121	

SAMPLE NO: 9710387*1

Received: 10.17.97
Mailed : 11.04.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 260411
Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*1	18609-610	10.16.97

(Following results reported on the basis of 30.0% moisture)

Semi-volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
1,2,4-Trichlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
1,2-Dichlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
1,3-Dichlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
1,4-Dichlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
2,4,5-Trichlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	470	U
2,4,6-Trichlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	470	U
2,4-Dichlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	470	U
2,4-Dimethylphenol	8270B	10.21.97	10.21.97	1	ug/kg	470	U
2,4-Dinitrophenol	8270B	10.21.97	10.21.97	1	ug/kg	1200	U
2,4-Dinitrotoluene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
2,6-Dinitrotoluene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
2-Chloronaphthalene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
2-Chlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	470	U
2-Methyl-4,6-dinitrophenol	8270B	10.21.97	10.21.97	1	ug/kg	1200	U
2-Methylnaphthalene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
2-Methylphenol (o-Cresol)	8270B	10.21.97	10.21.97	1	ug/kg	470	U
2-Nitroaniline	8270B	10.21.97	10.21.97	1	ug/kg	470	U
2-Nitrophenol	8270B	10.21.97	10.21.97	1	ug/kg	470	U
3,3'-Dichlorobenzidine	8270B	10.21.97	10.21.97	1	ug/kg	470	U
3-Nitroaniline	8270B	10.21.97	10.21.97	1	ug/kg	470	U
4-Bromophenylphenylether	8270B	10.21.97	10.21.97	1	ug/kg	470	U
4-Chloro-3-methylphenol	8270B	10.21.97	10.21.97	1	ug/kg	470	U
4-Chloroaniline	8270B	10.21.97	10.21.97	1	ug/kg	470	U
4-Chlorophenylphenylether	8270B	10.21.97	10.21.97	1	ug/kg	470	U

SAMPLE NO: 9710387*1

Received: 10.17.97
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Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 260411
Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*1	18609-610	10.16.97

(Following results reported on the basis of 30.0% moisture)

Semi-volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
4-Methylphenol (p-Cresol)	8270B	10.21.97	10.21.97	1	ug/kg	470	U
4-Nitroaniline	8270B	10.21.97	10.21.97	1	ug/kg	470	U
4-Nitrophenol	8270B	10.21.97	10.21.97	1	ug/kg	1200	U
Acenaphthene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Acenaphthylene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Anthracene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Benzo(a)anthracene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Benzo(b)fluoranthene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Benzo(g,h,i)perylene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Benzo(k)fluoranthene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Butylbenzylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Chrysene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Di-n-octylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Dibenzofuran	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Dibutylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	470	
Diethylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Dimethylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Fluoranthene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Fluorene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Hexachlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Hexachlorobutadiene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Hexachlorocyclopentadiene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Hexachloroethane	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Indeno(1,2,3-c,d)pyrene	8270B	10.21.97	10.21.97	1	ug/kg	470	U

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Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*1	18609-610	10.16.97

(Following results reported on the basis of 30.0% moisture)

Semi-volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
N-Nitrosodiphenylamine	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Nitrobenzene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Naphthalene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Phenanthrene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Phenol	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Pentachlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	940	U
Pyrene	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Bis(2-chloroethoxy)methane	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Bis(2-chloroisopropyl)ether	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Bis(2-ethylhexyl)phthalate	8270B	10.21.97	10.21.97	1	ug/kg	470	U
Surrogates **							
2-Fluorobiphenyl Reported	8270B	10.21.97	10.21.97	1	Percent	99	
2-Fluorophenol Reported	8270B	10.21.97	10.21.97	1	Percent	89	
2,4,6-Tribromophenol Rep.	8270B	10.21.97	10.21.97	1	Percent	94	
Nitrobenzene-d5 Reported	8270B	10.21.97	10.21.97	1	Percent	92	
Phenol-d5 Reported	8270B	10.21.97	10.21.97	1	Percent	100	
Terphenyl-d14 Reported	8270B	10.21.97	10.21.97	1	Percent	79	

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

	SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE	DATE SAMPLED
9710387*1	18609-610	10.16.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
(Following results reported on the basis of 30.0% moisture)							
Compounds by SIM							
Benzo(a)pyrene	8270.S	10.21.97	10.24.97	1	ug/kg	47	U
Dibenzo(a,h)anthracene	8270.S	10.21.97	10.24.97	1	ug/kg	47	U
N-Nitrosodi-n-propylamine	8270.S	10.21.97	10.24.97	1	ug/kg	47	U
Bis(2-chloroethyl)ether	8270.S	10.21.97	10.24.97	1	ug/kg	47	U
Surrogates **							
2-Fluorobiphenyl Reported	8270.S	10.21.97	10.24.97	1	Percent	59	
Terphenyl-d14 Reported	8270.S	10.21.97	10.24.97	1	Percent	64	

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*1	18609-610	10.16.97

(Following results reported on the basis of 30.0% moisture)

Pesticides

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Aldrin	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
p,p'-DDD	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
p,p'-DDE	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
p,p'-DDT	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Dieldrin	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Endosulfan I	8081	10.20.97	10.23.97	1	ug/kg	1	U
Endosulfan II	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Endosulfan sulfate	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Endrin	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Endrin aldehyde	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Heptachlor epoxide	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Heptachlor	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Methoxychlor	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
BHC, alpha isomer	8081	10.20.97	10.23.97	1	ug/kg	1	U
alpha-Chlordane	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
BHC, beta isomer	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
BHC, delta isomer	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
BHC, gamma isomer (Lindane)	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
gamma-Chlordane	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.20.97	10.23.97	1	Percent	115	
Tetrachloro-meta-xylene Rpt	8081	10.20.97	10.23.97	1	Percent	64	

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Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

	SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE	DATE SAMPLED
9710387*1	18609-610	10.16.97

(Following results reported on the basis of 30.0% moisture)

Pesticides Confirmation

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Aldrin	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
,p'-DDD	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
p,p'-DDE	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
p,p'-DDT	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Dieldrin	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Endosulfan I	8081	10.20.97	10.23.97	1	ug/kg	1	U
Endosulfan II	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Endosulfan sulfate	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Endrin	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Endrin aldehyde	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Heptachlor epoxide	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Heptachlor	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Methoxychlor	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
BHC, alpha isomer	8081	10.20.97	10.23.97	1	ug/kg	1	U
alpha-Chlordane	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
BHC, beta isomer	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
BHC, delta isomer	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
BHC, gamma isomer (Lindane)	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
gamma-Chlordane	8081	10.20.97	10.23.97	1	ug/kg	2.9	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.20.97	10.23.97	1	Percent	116	
Tetrachloro-meta-xylene Rpt	8081	10.20.97	10.23.97	1	Percent	69	

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*1	18609-610	10.16.97

(Following results reported on the basis of 30.0% moisture)

Polychlorinated Biphenyls

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Aroclor 1016	8081	10.20.97	10.23.97	1	ug/kg	47	U
Aroclor 1221	8081	10.20.97	10.23.97	1	ug/kg	47	U
Aroclor 1232	8081	10.20.97	10.23.97	1	ug/kg	47	U
Aroclor 1242	8081	10.20.97	10.23.97	1	ug/kg	47	U
Aroclor 1248	8081	10.20.97	10.23.97	1	ug/kg	47	U
Aroclor 1254	8081	10.20.97	10.23.97	1	ug/kg	47	U
Aroclor 1260	8081	10.20.97	10.23.97	1	ug/kg	47	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.20.97	10.23.97	1	Percent	115	
Tetrachloro-meta-xylene Rpt	8081	10.20.97	10.23.97	1	Percent	64	

ANALYTICAL REPORT

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Our Quality Control Is Your Quality Assurance

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

	SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE	DATE SAMPLED
9710387*1	18609-610	10.16.97

(Following results reported on the basis of 30.0% moisture)

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Total Cyanide	9010A	10.23.97	10.23.97	1	mg/kg	0.71	U
pH	9045		10.21.97	1	Units	9.0	
-Moisture/TNFR	D2216		10.23.97	1	Percent	30	
Aluminum	6010A	10.21.97	10.21.97	1	mg/kg	19000	
Antimony	6010A	10.21.97	10.21.97	1	mg/kg	7.1	U
Arsenic	7060A	10.21.97	10.21.97	1	mg/kg	4.6	
Barium	6010A	10.21.97	10.21.97	1	mg/kg	130	
Beryllium	6010A	10.21.97	10.21.97	1	mg/kg	0.71	
Cadmium	6010A	10.21.97	10.21.97	1	mg/kg	0.71	U
Calcium	6010A	10.21.97	10.21.97	1	mg/kg	7300	
Chromium	6010A	10.21.97	10.21.97	1	mg/kg	19	
Cobalt	6010A	10.21.97	10.21.97	1	mg/kg	26	
Copper	6010A	10.21.97	10.21.97	1	mg/kg	29	
Iron	6010A	10.21.97	10.21.97	5	mg/kg	27000	
Lead	7421	10.21.97	10.21.97	1	mg/kg	5.7	
Magnesium	6010A	10.21.97	10.21.97	1	mg/kg	8400	
Manganese	6010A	10.21.97	10.21.97	1	mg/kg	300	
Mercury	7471A	10.22.97	10.23.97	1	mg/kg	0.066	J
Molybdenum	6010A	10.21.97	10.21.97	1	mg/kg	2.9	U
Nickel	6010A	10.21.97	10.21.97	1	mg/kg	11.0	
Potassium	6010A	10.21.97	10.21.97	1	mg/kg	4900	
Selenium	7740	10.21.97	10.21.97	1	mg/kg	0.71	U
Silver	6010A	10.21.97	10.21.97	1	mg/kg	1.4	U
Sodium	6010A	10.21.97	10.21.97	1	mg/kg	330	

VOC Analytical Laboratories, Inc.
801 Western Avenue, Glendale, CA 91201 - **Phone:** (818) 247-5737 - **Fax:** (818) 247-9797

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P.O.#: 260411
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Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

	SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE	DATE SAMPLED
9710387*1	18609-610	10.16.97

(Following results reported on the basis of 30.0% moisture)

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Thallium	6010A	10.21.97	10.21.97	1	mg/kg	7.1	U
Vanadium	6010A	10.21.97	10.21.97	1	mg/kg	50	
Zinc	6010A	10.21.97	10.21.97	1	mg/kg	93	
Digestion	3050	10.21.97	10.21.97	1	Date	10/21/97	
Furnace Digestion	3050	10.21.97	10.21.97	1	Date	10/21/97	

SAMPLE NO: 9710387*13

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Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*13	18609-611	10.16.97

(Following results reported on the basis of 13.0% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
1,1,1-Trichloroethane	8260A		10.23.97	1	ug/kg	5.7	U
1,2,2-Tetrachloroethane	8260A		10.23.97	1	ug/kg	5.7	U
1,1,2-Trichloroethane	8260A		10.23.97	1	ug/kg	5.7	U
1,1-Dichloroethane	8260A		10.23.97	1	ug/kg	5.7	U
1,1-Dichloroethene	8260A		10.23.97	1	ug/kg	5.7	U
1,2-Dichloroethane	8260A		10.23.97	1	ug/kg	5.7	U
1,2-Dichloropropane	8260A		10.23.97	1	ug/kg	5.7	U
2-Chloroethylvinylether	8260A		10.23.97	1	ug/kg	57	U
2-Hexanone	8260A		10.23.97	1	ug/kg	57	U
Acetone	8260A		10.23.97	1	ug/kg	57	U
Bromodichloromethane	8260A		10.23.97	1	ug/kg	5.7	U
Bromomethane	8260A		10.23.97	1	ug/kg	5.7	U
Benzene	8260A		10.23.97	1	ug/kg	5.7	U
Bromoform	8260A		10.23.97	1	ug/kg	5.7	U
Chlorobenzene	8260A		10.23.97	1	ug/kg	5.7	U
Carbon Tetrachloride	8260A		10.23.97	1	ug/kg	5.7	U
Chloroethane	8260A		10.23.97	1	ug/kg	5.7	U
Chloroform	8260A		10.23.97	1	ug/kg	5.7	U
Chloromethane	8260A		10.23.97	1	ug/kg	5.7	U
Carbon Disulfide	8260A		10.23.97	1	ug/kg	5.7	U
Dibromochloromethane	8260A		10.23.97	1	ug/kg	5.7	U
Ethylbenzene	8260A		10.23.97	1	ug/kg	5.7	U
Methyl ethyl ketone	8260A		10.23.97	1	ug/kg	57	U
Methyl isobutyl ketone	8260A		10.23.97	1	ug/kg	57	U

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*13	18609-611	10.16.97

(Following results reported on the basis of 13.0% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Methyl-tert-butylether	8260A		10.23.97	1	ug/kg	11	U
Methylene chloride	8260A		10.23.97	1	ug/kg	5.7	U
Styrene	8260A		10.23.97	1	ug/kg	5.7	U
Trichloroethene	8260A		10.23.97	1	ug/kg	5.7	U
Toluene	8260A		10.23.97	1	ug/kg	5.7	U
Tetrachloroethene	8260A		10.23.97	1	ug/kg	5.7	U
Vinyl acetate	8260A		10.23.97	1	ug/kg	11	U
Vinyl chloride	8260A		10.23.97	1	ug/kg	5.7	U
Total Xylene Isomers	8260A		10.23.97	1	ug/kg	17	U
cis-1,2-Dichloroethene	8260A		10.23.97	1	ug/kg	5.7	U
cis-1,3-Dichloropropene	8260A		10.23.97	1	ug/kg	5.7	U
trans-1,2-Dichloroethene	8260A		10.23.97	1	ug/kg	5.7	U
trans-1,3-Dichloropropene	8260A		10.23.97	1	ug/kg	5.7	U
Surrogates **							
1,2-Dichloroethane-d4 Rep.	8260A		10.23.97	1	Percent	87	
4-Bromofluorobenzene Rep.	8260A		10.23.97	1	Percent	99	
Toluene-d8 Reported	8260A		10.23.97	1	Percent	96	
Dibromofluoromethane Rep.	8260A		10.23.97	1	Percent	91	

SAMPLE NO: 9710387*2

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Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

	SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE	DATE SAMPLED
9710387*2	18609-612	10.16.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
(Following results reported on the basis of 9.6% moisture)							
Mod 8015 - Gas							
TPH (Gasoline Range)	8015M		10.21.97	1	mg/kg	11	U
urrogates **							
a,a,a-Trifluorotoluene Rep.	8015M		10.21.97	1	Percent	106	

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*2	18609-612	10.16.97

(Following results reported on the basis of 9.6% moisture)

JP-5

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
TPH (Diesel Range)	8015M	10.21.97	10.22.97	1	mg/kg	11	U
JP-5	8015M	10.21.97	10.22.97	1	mg/kg	11	U
Surrogates **							
Naphthalene Reported	8015M	10.21.97	10.22.97	1	Percent	89	
o-Terphenyl Reported	8015M	10.21.97	10.22.97	1	Percent	102	

SAMPLE NO: 9710387*2

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2031 Main Street
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P.O.#: 260411
Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*2	18609-612	10.16.97

(Following results reported on the basis of 9.6% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
1,1,1-Trichloroethane	8260A		10.20.97	1	ug/kg	5.5	U
1,1,2,2-Tetrachloroethane	8260A		10.20.97	1	ug/kg	5.5	U
1,1,2-Trichloroethane	8260A		10.20.97	1	ug/kg	5.5	U
1,1-Dichloroethane	8260A		10.20.97	1	ug/kg	5.5	U
1,1-Dichloroethene	8260A		10.20.97	1	ug/kg	5.5	U
1,2-Dichloroethane	8260A		10.20.97	1	ug/kg	5.5	U
1,2-Dichloropropane	8260A		10.20.97	1	ug/kg	5.5	U
2-Chloroethylvinylether	8260A		10.20.97	1	ug/kg	55	U
2-Hexanone	8260A		10.20.97	1	ug/kg	55	U
Acetone	8260A		10.20.97	1	ug/kg	55	U
Bromodichloromethane	8260A		10.20.97	1	ug/kg	5.5	U
Bromomethane	8260A		10.20.97	1	ug/kg	5.5	U
Benzene	8260A		10.20.97	1	ug/kg	5.5	U
Bromoform	8260A		10.20.97	1	ug/kg	5.5	U
Chlorobenzene	8260A		10.20.97	1	ug/kg	5.5	U
Carbon Tetrachloride	8260A		10.20.97	1	ug/kg	5.5	U
Chloroethane	8260A		10.20.97	1	ug/kg	5.5	U
Chloroform	8260A		10.20.97	1	ug/kg	5.5	U
Chloromethane	8260A		10.20.97	1	ug/kg	5.5	U
Carbon Disulfide	8260A		10.20.97	1	ug/kg	5.5	U
Dibromochloromethane	8260A		10.20.97	1	ug/kg	5.5	U
Ethylbenzene	8260A		10.20.97	1	ug/kg	5.5	U
Methyl ethyl ketone	8260A		10.20.97	1	ug/kg	55	U
Methyl isobutyl ketone	8260A		10.20.97	1	ug/kg	55	U

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(Following results reported on the basis of 9.6% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Methyl-tert-butylether	8260A		10.20.97	1	ug/kg	11	U
Methylene chloride	8260A		10.20.97	1	ug/kg	5.5	U
Styrene	8260A		10.20.97	1	ug/kg	5.5	U
Trichloroethene	8260A		10.20.97	1	ug/kg	5.5	U
Toluene	8260A		10.20.97	1	ug/kg	5.5	U
Tetrachloroethene	8260A		10.20.97	1	ug/kg	5.5	U
Vinyl acetate	8260A		10.20.97	1	ug/kg	11	U
Vinyl chloride	8260A		10.20.97	1	ug/kg	5.5	U
Total Xylene Isomers	8260A		10.20.97	1	ug/kg	22	U
cis-1,2-Dichloroethene	8260A		10.20.97	1	ug/kg	5.5	U
cis-1,3-Dichloropropene	8260A		10.20.97	1	ug/kg	5.5	U
trans-1,2-Dichloroethene	8260A		10.20.97	1	ug/kg	5.5	U
trans-1,3-Dichloropropene	8260A		10.20.97	1	ug/kg	5.5	U
Surrogates **							
1,2-Dichloroethane-d4 Rep.	8260A		10.20.97	1	Percent	83	
4-Bromofluorobenzene Rep.	8260A		10.20.97	1	Percent	98	
Toluene-d8 Reported	8260A		10.20.97	1	Percent	95	
Dibromofluoromethane Rep.	8260A		10.20.97	1	Percent	112	

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(Following results reported on the basis of 9.6% moisture)

Semi-volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
1,2,4-Trichlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
1,2-Dichlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
1,3-Dichlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
1,4-Dichlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,4,5-Trichlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,4,6-Trichlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,4-Dichlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,4-Dimethylphenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,4-Dinitrophenol	8270B	10.21.97	10.21.97	1	ug/kg	920	U
2,4-Dinitrotoluene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,6-Dinitrotoluene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Chloronaphthalene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Chlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Methyl-4,6-dinitrophenol	8270B	10.21.97	10.21.97	1	ug/kg	920	U
2-Methylnaphthalene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Methylphenol (o-Cresol)	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Nitroaniline	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Nitrophenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
3,3'-Dichlorobenzidine	8270B	10.21.97	10.21.97	1	ug/kg	370	U
3-Nitroaniline	8270B	10.21.97	10.21.97	1	ug/kg	370	U
4-Bromophenylphenylether	8270B	10.21.97	10.21.97	1	ug/kg	370	U
4-Chloro-3-methylphenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
4-Chloroaniline	8270B	10.21.97	10.21.97	1	ug/kg	370	U
4-Chlorophenylphenylether	8270B	10.21.97	10.21.97	1	ug/kg	370	U

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Semi-volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
4-Methylphenol (p-Cresol)	8270B	10.21.97	10.21.97	1	ug/kg	370	U
4-Nitroaniline	8270B	10.21.97	10.21.97	1	ug/kg	370	U
4-Nitrophenol	8270B	10.21.97	10.21.97	1	ug/kg	920	U
Acenaphthene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Acenaphthylene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Anthracene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Benzo(a)anthracene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Benzo(b)fluoranthene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Benzo(g,h,i)perylene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Benzo(k)fluoranthene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Butylbenzylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Chrysene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Di-n-octylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Dibenzofuran	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Dibutylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	282	J
Diethylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Dimethylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Fluoranthene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Fluorene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Hexachlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Hexachlorobutadiene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Hexachlorocyclopentadiene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Hexachloroethane	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Indeno(1,2,3-c,d)pyrene	8270B	10.21.97	10.21.97	1	ug/kg	370	U

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Semi-volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
N-Nitrosodiphenylamine	8270B	10.21.97	10.21.97	1	ug/kg	370	U
itrobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Naphthalene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Phenanthrene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Phenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Pentachlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	730	U
Pyrene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Bis(2-chloroethoxy)methane	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Bis(2-chloroisopropyl)ether	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Bis(2-ethylhexyl)phthalate	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Surrogates **							
2-Fluorobiphenyl Reported	8270B	10.21.97	10.21.97	1	Percent	109	
2-Fluorophenol Reported	8270B	10.21.97	10.21.97	1	Percent	94	
2,4,6-Tribromophenol Rep.	8270B	10.21.97	10.21.97	1	Percent	104	
Nitrobenzene-d5 Reported	8270B	10.21.97	10.21.97	1	Percent	100	
Phenol-d5 Reported	8270B	10.21.97	10.21.97	1	Percent	107	
Terphenyl-d14 Reported	8270B	10.21.97	10.21.97	1	Percent	81	

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Compounds by SIM

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Benzo(a)pyrene	8270.S	10.21.97	10.24.97	1	ug/kg	37	U
Dibenzo(a,h)anthracene	8270.S	10.21.97	10.24.97	1	ug/kg	37	U
N-Nitrosodi-n-propylamine	8270.S	10.21.97	10.24.97	1	ug/kg	37	U
Bis(2-chloroethyl)ether	8270.S	10.21.97	10.24.97	1	ug/kg	37	U
Surrogates **							
2-Fluorobiphenyl Reported	8270.S	10.21.97	10.24.97	1	Percent	62	
Terphenyl-d14 Reported	8270.S	10.21.97	10.24.97	1	Percent	66	

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Pesticides

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Aldrin	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
p'-DDD	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
p,p'-DDE	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
p,p'-DDT	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Dieldrin	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Endosulfan I	8081	10.20.97	10.23.97	1	ug/kg	0.77	U
Endosulfan II	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Endosulfan sulfate	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Endrin	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Endrin aldehyde	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Heptachlor epoxide	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Heptachlor	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Methoxychlor	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
BHC, alpha isomer	8081	10.20.97	10.23.97	1	ug/kg	0.77	U
alpha-Chlordane	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
BHC, beta isomer	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
BHC, delta isomer	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
BHC, gamma isomer (Lindane)	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
gamma-Chlordane	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.20.97	10.23.97	1	Percent	113	
Tetrachloro-meta-xylene Rpt	8081	10.20.97	10.23.97	1	Percent	93	

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Pesticides Confirmation

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Aldrin	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
p,p'-DDD	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
p,p'-DDE	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
p,p'-DDT	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Dieldrin	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Endosulfan I	8081	10.20.97	10.23.97	1	ug/kg	0.77	U
Endosulfan II	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Endosulfan sulfate	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Endrin	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Endrin aldehyde	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Heptachlor epoxide	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Heptachlor	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Methoxychlor	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
BHC, alpha isomer	8081	10.20.97	10.23.97	1	ug/kg	0.77	U
alpha-Chlordane	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
BHC, beta isomer	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
BHC, delta isomer	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
BHC, gamma isomer (Lindane)	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
gamma-Chlordane	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.20.97	10.23.97	1	Percent	122	
Tetrachloro-meta-xylene Rpt	8081	10.20.97	10.23.97	1	Percent	77	

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Polychlorinated Biphenyls

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Aroclor 1016	8081	10.20.97	10.23.97	1	ug/kg	37	U
roclor 1221	8081	10.20.97	10.23.97	1	ug/kg	37	U
Aroclor 1232	8081	10.20.97	10.23.97	1	ug/kg	37	U
Aroclor 1242	8081	10.20.97	10.23.97	1	ug/kg	37	U
Aroclor 1248	8081	10.20.97	10.23.97	1	ug/kg	37	U
Aroclor 1254	8081	10.20.97	10.23.97	1	ug/kg	37	U
Aroclor 1260	8081	10.20.97	10.23.97	1	ug/kg	37	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.20.97	10.23.97	1	Percent	113	
Tetrachloro-meta-xylene Rpt	8081	10.20.97	10.23.97	1	Percent	93	

ANALYTICAL REPORT

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PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Total Cyanide	9010A	10.23.97	10.23.97	1	mg/kg	0.55	U
pH	9045		10.21.97	1	Units	8.1	
-Moisture/TNFR	D2216		10.23.97	1	Percent	9.6	
Aluminum	6010A	10.21.97	10.21.97	1	mg/kg	7100	
Antimony	6010A	10.21.97	10.21.97	1	mg/kg	5.5	U
Arsenic	7060A	10.21.97	10.22.97	5	mg/kg	13	
Barium	6010A	10.21.97	10.21.97	1	mg/kg	22	
Beryllium	6010A	10.21.97	10.21.97	1	mg/kg	0.37	
Cadmium	6010A	10.21.97	10.21.97	1	mg/kg	0.55	U
Calcium	6010A	10.21.97	10.21.97	1	mg/kg	950	
Chromium	6010A	10.21.97	10.21.97	1	mg/kg	10.0	
Cobalt	6010A	10.21.97	10.21.97	1	mg/kg	5.8	
Copper	6010A	10.21.97	10.21.97	1	mg/kg	9.7	
Iron	6010A	10.21.97	10.21.97	1	mg/kg	12000	
Lead	7421	10.21.97	10.21.97	1	mg/kg	5.3	
Magnesium	6010A	10.21.97	10.21.97	1	mg/kg	1100	
Manganese	6010A	10.21.97	10.21.97	1	mg/kg	56	
Mercury	7471A	10.22.97	10.23.97	1	mg/kg	0.088	U
Molybdenum	6010A	10.21.97	10.21.97	1	mg/kg	2.2	U
Nickel	6010A	10.21.97	10.21.97	1	mg/kg	6.0	
Potassium	6010A	10.21.97	10.21.97	1	mg/kg	970	
Selenium	7740	10.21.97	10.21.97	1	mg/kg	0.29	J
Silver	6010A	10.21.97	10.21.97	1	mg/kg	1.1	U
Sodium	6010A	10.21.97	10.21.97	1	mg/kg	100	J

SAMPLE NO: 9710387*2

Received: 10.17.97
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2031 Main Street
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P.O.#: 260411
Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

	SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE	DATE SAMPLED
9710387*2	18609-612	10.16.97

(Following results reported on the basis of 9.6% moisture)

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Thallium	6010A	10.21.97	10.21.97	1	mg/kg	5.5	U
Vanadium	6010A	10.21.97	10.21.97	1	mg/kg	19	
Zinc	6010A	10.21.97	10.21.97	1	mg/kg	28	
Digestion	3050	10.21.97	10.21.97	1	Date	10/21/97	
Furnace Digestion	3050	10.21.97	10.21.97	1	Date	10/21/97	

SAMPLE NO: 9710387*14

Received: 10.17.97
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Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*14	18609-613	10.16.97

(Following results reported on the basis of 5.3% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
1,1,1-Trichloroethane	8260A		10.23.97	1	ug/kg	5.3	U
1,1,2,2-Tetrachloroethane	8260A		10.23.97	1	ug/kg	5.3	U
1,1,2-Trichloroethane	8260A		10.23.97	1	ug/kg	5.3	U
1,1-Dichloroethane	8260A		10.23.97	1	ug/kg	5.3	U
1,1-Dichloroethene	8260A		10.23.97	1	ug/kg	5.3	U
1,2-Dichloroethane	8260A		10.23.97	1	ug/kg	5.3	U
1,2-Dichloropropane	8260A		10.23.97	1	ug/kg	5.3	U
2-Chloroethylvinylether	8260A		10.23.97	1	ug/kg	53	U
2-Hexanone	8260A		10.23.97	1	ug/kg	53	U
Acetone	8260A		10.23.97	1	ug/kg	22	J
Bromodichloromethane	8260A		10.23.97	1	ug/kg	5.3	U
Bromomethane	8260A		10.23.97	1	ug/kg	5.3	U
Benzene	8260A		10.23.97	1	ug/kg	5.3	U
Bromoform	8260A		10.23.97	1	ug/kg	5.3	U
Chlorobenzene	8260A		10.23.97	1	ug/kg	5.3	U
Carbon Tetrachloride	8260A		10.23.97	1	ug/kg	5.3	U
Chloroethane	8260A		10.23.97	1	ug/kg	5.3	U
Chloroform	8260A		10.23.97	1	ug/kg	5.3	U
Chloromethane	8260A		10.23.97	1	ug/kg	5.3	U
Carbon Disulfide	8260A		10.23.97	1	ug/kg	5.3	U
Dibromochloromethane	8260A		10.23.97	1	ug/kg	5.3	U
Ethylbenzene	8260A		10.23.97	1	ug/kg	5.3	U
Methyl ethyl ketone	8260A		10.23.97	1	ug/kg	53	U
Methyl isobutyl ketone	8260A		10.23.97	1	ug/kg	53	U

SAMPLE NO: 9710387*14

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*14	18609-613	10.16.97

(Following results reported on the basis of 5.3% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Methyl-tert-butylether	8260A		10.23.97	1	ug/kg	11	U
Methylene chloride	8260A		10.23.97	1	ug/kg	5.3	U
Styrene	8260A		10.23.97	1	ug/kg	5.3	U
Trichloroethene	8260A		10.23.97	1	ug/kg	5.3	U
Toluene	8260A		10.23.97	1	ug/kg	5.3	U
Tetrachloroethene	8260A		10.23.97	1	ug/kg	5.3	U
Vinyl acetate	8260A		10.23.97	1	ug/kg	11	U
Vinyl chloride	8260A		10.23.97	1	ug/kg	5.3	U
Total Xylene Isomers	8260A		10.23.97	1	ug/kg	16	U
cis-1,2-Dichloroethene	8260A		10.23.97	1	ug/kg	5.3	U
cis-1,3-Dichloropropene	8260A		10.23.97	1	ug/kg	5.3	U
trans-1,2-Dichloroethene	8260A		10.23.97	1	ug/kg	5.3	U
trans-1,3-Dichloropropene	8260A		10.23.97	1	ug/kg	5.3	U
Surrogates **							
1,2-Dichloroethane-d4 Rep.	8260A		10.23.97	1	Percent	88	
4-Bromofluorobenzene Rep.	8260A		10.23.97	1	Percent	101	
Toluene-d8 Reported	8260A		10.23.97	1	Percent	94	
Dibromofluoromethane Rep.	8260A		10.23.97	1	Percent	93	

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

	SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE	DATE SAMPLED
9710387*3	18609-614	10.16.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
(Following results reported on the basis of 12.0% moisture)							
Mod 8015 - Gas							
TPH (Gasoline Range)	8015M		10.21.97	1	mg/kg	11	U
Surrogates **							
a,a,a-Trifluorotoluene Rep.	8015M		10.21.97	1	Percent	99	

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SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*3	18609-614	10.16.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
(Following results reported on the basis of 12.0% moisture)							
JP-5							
TPH (Diesel Range)	8015M	10.21.97	10.22.97	1	mg/kg	11	U
JP-5	8015M	10.21.97	10.22.97	1	mg/kg	11	U
Surrogates **							
Naphthalene Reported	8015M	10.21.97	10.22.97	1	Percent	82	
o-Terphenyl Reported	8015M	10.21.97	10.22.97	1	Percent	98	

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SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*3	18609-614	10.16.97

(Following results reported on the basis of 12.0% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
1,1,1-Trichloroethane	8260A		10.20.97	1	ug/kg	5.7	U
1,1,2,2-Tetrachloroethane	8260A		10.20.97	1	ug/kg	5.7	U
1,1,2-Trichloroethane	8260A		10.20.97	1	ug/kg	5.7	U
1,1-Dichloroethane	8260A		10.20.97	1	ug/kg	5.7	U
1,1-Dichloroethene	8260A		10.20.97	1	ug/kg	5.7	U
1,2-Dichloroethane	8260A		10.20.97	1	ug/kg	5.7	U
1,2-Dichloropropane	8260A		10.20.97	1	ug/kg	5.7	U
2-Chloroethylvinylether	8260A		10.20.97	1	ug/kg	57	U
2-Hexanone	8260A		10.20.97	1	ug/kg	57	U
Acetone	8260A		10.20.97	1	ug/kg	57	U
Bromodichloromethane	8260A		10.20.97	1	ug/kg	5.7	U
Bromomethane	8260A		10.20.97	1	ug/kg	5.7	U
Benzene	8260A		10.20.97	1	ug/kg	5.7	U
Bromoform	8260A		10.20.97	1	ug/kg	5.7	U
Chlorobenzene	8260A		10.20.97	1	ug/kg	5.7	U
Carbon Tetrachloride	8260A		10.20.97	1	ug/kg	5.7	U
Chloroethane	8260A		10.20.97	1	ug/kg	5.7	U
Chloroform	8260A		10.20.97	1	ug/kg	5.7	U
Chloromethane	8260A		10.20.97	1	ug/kg	5.7	U
Carbon Disulfide	8260A		10.20.97	1	ug/kg	5.7	U
Dibromochloromethane	8260A		10.20.97	1	ug/kg	5.7	U
Ethylbenzene	8260A		10.20.97	1	ug/kg	5.7	U
Methyl ethyl ketone	8260A		10.20.97	1	ug/kg	57	U
Methyl isobutyl ketone	8260A		10.20.97	1	ug/kg	57	U

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SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*3	18609-614	10.16.97

(Following results reported on the basis of 12.0% moisture)

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Volatiles							
Methyl-tert-butylether	8260A		10.20.97	1	ug/kg	11	U
Methylene chloride	8260A		10.20.97	1	ug/kg	5.7	U
Styrene	8260A		10.20.97	1	ug/kg	5.7	U
Trichloroethene	8260A		10.20.97	1	ug/kg	5.7	U
Toluene	8260A		10.20.97	1	ug/kg	5.7	U
Tetrachloroethene	8260A		10.20.97	1	ug/kg	5.7	U
Vinyl acetate	8260A		10.20.97	1	ug/kg	11	U
Vinyl chloride	8260A		10.20.97	1	ug/kg	5.7	U
Total Xylene Isomers	8260A		10.20.97	1	ug/kg	17	U
cis-1,2-Dichloroethene	8260A		10.20.97	1	ug/kg	5.7	U
cis-1,3-Dichloropropene	8260A		10.20.97	1	ug/kg	5.7	U
trans-1,2-Dichloroethene	8260A		10.20.97	1	ug/kg	5.7	U
trans-1,3-Dichloropropene	8260A		10.20.97	1	ug/kg	5.7	U
Surrogates **							
1,2-Dichloroethane-d4 Rep.	8260A		10.20.97	1	Percent	86	
4-Bromofluorobenzene Rep.	8260A		10.20.97	1	Percent	99	
Toluene-d8 Reported	8260A		10.20.97	1	Percent	95	
Dibromofluoromethane Rep.	8260A		10.20.97	1	Percent	113	

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

	SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE	DATE SAMPLED
9710387*3	18609-614	10.16.97

(Following results reported on the basis of 12.0% moisture)

Semi-volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
1,2,4-Trichlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
1,2-Dichlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
1,3-Dichlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
1,4-Dichlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,4,5-Trichlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,4,6-Trichlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,4-Dichlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,4-Dimethylphenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,4-Dinitrophenol	8270B	10.21.97	10.21.97	1	ug/kg	940	U
2,4-Dinitrotoluene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,6-Dinitrotoluene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Chloronaphthalene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Chlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Methyl-4,6-dinitrophenol	8270B	10.21.97	10.21.97	1	ug/kg	940	U
2-Methylnaphthalene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Methylphenol (o-Cresol)	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Nitroaniline	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Nitrophenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
3,3'-Dichlorobenzidine	8270B	10.21.97	10.21.97	1	ug/kg	370	U
3-Nitroaniline	8270B	10.21.97	10.21.97	1	ug/kg	370	
4-Bromophenylphenylether	8270B	10.21.97	10.21.97	1	ug/kg	370	U
4-Chloro-3-methylphenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
4-Chloroaniline	8270B	10.21.97	10.21.97	1	ug/kg	370	U
4-Chlorophenylphenylether	8270B	10.21.97	10.21.97	1	ug/kg	370	U

SAMPLE NO: 9710387*3

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*3	18609-614	10.16.97

(Following results reported on the basis of 12.0% moisture)

Semi-volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
4-Methylphenol (p-Cresol)	8270B	10.21.97	10.21.97	1	ug/kg	370	U
-Nitroaniline	8270B	10.21.97	10.21.97	1	ug/kg	370	U
-Nitrophenol	8270B	10.21.97	10.21.97	1	ug/kg	940	U
Acenaphthene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Acenaphthylene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Anthracene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Benzo(a)anthracene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Benzo(b)fluoranthene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Benzo(g,h,i)perylene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Benzo(k)fluoranthene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Butylbenzylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Chrysene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Di-n-octylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Dibenzofuran	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Dibutylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	333	J
Diethylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Dimethylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Fluoranthene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Fluorene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Hexachlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Hexachlorobutadiene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Hexachlorocyclopentadiene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Hexachloroethane	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Indeno(1,2,3-c,d)pyrene	8270B	10.21.97	10.21.97	1	ug/kg	370	U

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*3	18609-614	10.16.97

(Following results reported on the basis of 12.0% moisture)

Semi-volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
N-Nitrosodiphenylamine	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Nitrobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Naphthalene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Phenanthrene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Phenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Pentachlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	750	U
Pyrene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Bis(2-chloroethoxy)methane	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Bis(2-chloroisopropyl)ether	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Bis(2-ethylhexyl)phthalate	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Surrogates **							
2-Fluorobiphenyl Reported	8270B	10.21.97	10.21.97	1	Percent	102	
2-Fluorophenol Reported	8270B	10.21.97	10.21.97	1	Percent	93	
2,4,6-Tribromophenol Rep.	8270B	10.21.97	10.21.97	1	Percent	105	
Nitrobenzene-d5 Reported	8270B	10.21.97	10.21.97	1	Percent	95	
Phenol-d5 Reported	8270B	10.21.97	10.21.97	1	Percent	105	
Terphenyl-d14 Reported	8270B	10.21.97	10.21.97	1	Percent	83	

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SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*3	18609-614	10.16.97

(Following results reported on the basis of 12.0% moisture)

Compounds by SIM

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Benzo(a)pyrene	8270.S	10.21.97	10.24.97	1	ug/kg	37	U
Dibenzo(a,h)anthracene	8270.S	10.21.97	10.24.97	1	ug/kg	37	U
N-Nitrosodi-n-propylamine	8270.S	10.21.97	10.24.97	1	ug/kg	37	U
Bis(2-chloroethyl)ether	8270.S	10.21.97	10.24.97	1	ug/kg	37	U
Surrogates **							
2-Fluorobiphenyl Reported	8270.S	10.21.97	10.24.97	1	Percent	57	
Terphenyl-d14 Reported	8270.S	10.21.97	10.24.97	1	Percent	63	

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9710387*3	18609-614	10.16.97

(Following results reported on the basis of 12.0% moisture)

Pesticides

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Aldrin	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
p,p'-DDD	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
p,p'-DDE	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
p,p'-DDT	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Dieldrin	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Endosulfan I	8081	10.20.97	10.23.97	1	ug/kg	0.8	U
Endosulfan II	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Endosulfan sulfate	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Endrin	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Endrin aldehyde	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Heptachlor epoxide	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Heptachlor	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Methoxychlor	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
BHC, alpha isomer	8081	10.20.97	10.23.97	1	ug/kg	0.8	U
alpha-Chlordane	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
BHC, beta isomer	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
BHC, delta isomer	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
BHC, gamma isomer (Lindane)	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
gamma-Chlordane	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.20.97	10.23.97	1	Percent	111	
Tetrachloro-meta-xylene Rpt	8081	10.20.97	10.23.97	1	Percent	76	

SAMPLE NO: 9710387*3

Received: 10.17.97
Mailed : 11.04.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 260411
Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*3	18609-614	10.16.97

(Following results reported on the basis of 12.0% moisture)

Pesticides Confirmation

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Aldrin	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
p,p'-DDD	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
p,p'-DDE	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
p,p'-DDT	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Dieldrin	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Endosulfan I	8081	10.20.97	10.23.97	1	ug/kg	0.8	U
Endosulfan II	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Endosulfan sulfate	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Endrin	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Endrin aldehyde	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Heptachlor epoxide	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Heptachlor	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Methoxychlor	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
BHC, alpha isomer	8081	10.20.97	10.23.97	1	ug/kg	0.8	U
alpha-Chlordane	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
BHC, beta isomer	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
BHC, delta isomer	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
BHC, gamma isomer (Lindane)	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
gamma-Chlordane	8081	10.20.97	10.23.97	1	ug/kg	2.3	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.20.97	10.23.97	1	Percent	107	
Tetrachloro-meta-xylene Rpt	8081	10.20.97	10.23.97	1	Percent	71	

SAMPLE NO: 9710387*3

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Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*3	18609-614	10.16.97

(Following results reported on the basis of 12.0% moisture)

Polychlorinated Biphenyls

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Aroclor 1016	8081	10.20.97	10.23.97	1	ug/kg	37	U
Aroclor 1221	8081	10.20.97	10.23.97	1	ug/kg	37	U
Aroclor 1232	8081	10.20.97	10.23.97	1	ug/kg	37	U
Aroclor 1242	8081	10.20.97	10.23.97	1	ug/kg	37	U
Aroclor 1248	8081	10.20.97	10.23.97	1	ug/kg	37	U
Aroclor 1254	8081	10.20.97	10.23.97	1	ug/kg	37	U
Aroclor 1260	8081	10.20.97	10.23.97	1	ug/kg	37	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.20.97	10.23.97	1	Percent	111	
Tetrachloro-meta-xylene Rpt	8081	10.20.97	10.23.97	1	Percent	76	

ANALYTICAL REPORT

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SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*3	18609-614	10.16.97

(Following results reported on the basis of 12.0% moisture)

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Total Cyanide	9010A	10.23.97	10.23.97	1	mg/kg	0.57	U
pH	9045		10.21.97	1	Units	8.1	
-Moisture/TNFR	D2216		10.23.97	1	Percent	12	
Aluminum	6010A	10.21.97	10.21.97	1	mg/kg	9100	
Antimony	6010A	10.21.97	10.21.97	1	mg/kg	5.7	U
Arsenic	7060A	10.21.97	10.21.97	1	mg/kg	2.2	
Barium	6010A	10.21.97	10.21.97	1	mg/kg	140	
Beryllium	6010A	10.21.97	10.21.97	1	mg/kg	0.55	
Cadmium	6010A	10.21.97	10.21.97	1	mg/kg	0.57	U
Calcium	6010A	10.21.97	10.21.97	1	mg/kg	5700	
Chromium	6010A	10.21.97	10.21.97	1	mg/kg	9.5	
Cobalt	6010A	10.21.97	10.21.97	1	mg/kg	7.0	
Copper	6010A	10.21.97	10.21.97	1	mg/kg	14	
Iron	6010A	10.21.97	10.21.97	5	mg/kg	17000	
Lead	7421	10.21.97	10.21.97	1	mg/kg	2.6	
Magnesium	6010A	10.21.97	10.21.97	1	mg/kg	6100	
Manganese	6010A	10.21.97	10.21.97	1	mg/kg	260	
Mercury	7471A	10.22.97	10.23.97	1	mg/kg	0.091	U
Molybdenum	6010A	10.21.97	10.21.97	1	mg/kg	2.3	U
Nickel	6010A	10.21.97	10.21.97	1	mg/kg	6.5	
Potassium	6010A	10.21.97	10.21.97	1	mg/kg	4900	
Selenium	7740	10.21.97	10.21.97	1	mg/kg	0.57	U
Silver	6010A	10.21.97	10.21.97	1	mg/kg	1.1	U
Sodium	6010A	10.21.97	10.21.97	1	mg/kg	230	

VOC Analytical Laboratories, Inc.
801 Western Avenue, Glendale, CA 91201 - **Phone:** (818) 247-5737 - **Fax:** (818) 247-9797

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*3	18609-614	10.16.97

(Following results reported on the basis of 12.0% moisture)

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Thallium	6010A	10.21.97	10.21.97	1	mg/kg	5.7	U
Vanadium	6010A	10.21.97	10.21.97	1	mg/kg	34	
Zinc	6010A	10.21.97	10.21.97	1	mg/kg	53	
Digestion	3050	10.21.97	10.21.97	1	Date	10/21/97	
Furnace Digestion	3050	10.21.97	10.21.97	1	Date	10/21/97	

SAMPLE NO: 9710387*15

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Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*15	18609-615	10.16.97

(Following results reported on the basis of 14.0% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
1,1,1-Trichloroethane	8260A		10.22.97	1	ug/kg	5.8	U
1,1,2,2-Tetrachloroethane	8260A		10.22.97	1	ug/kg	5.8	U
1,1,2-Trichloroethane	8260A		10.22.97	1	ug/kg	5.8	U
1,1-Dichloroethane	8260A		10.22.97	1	ug/kg	5.8	U
1,1-Dichloroethene	8260A		10.22.97	1	ug/kg	5.8	U
1,2-Dichloroethane	8260A		10.22.97	1	ug/kg	5.8	U
1,2-Dichloropropane	8260A		10.22.97	1	ug/kg	5.8	U
2-Chloroethylvinylether	8260A		10.22.97	1	ug/kg	58	U
2-Hexanone	8260A		10.22.97	1	ug/kg	58	U
Acetone	8260A		10.22.97	1	ug/kg	58	U
Bromodichloromethane	8260A		10.22.97	1	ug/kg	5.8	U
Bromomethane	8260A		10.22.97	1	ug/kg	5.8	U
Benzene	8260A		10.22.97	1	ug/kg	5.8	U
Bromoform	8260A		10.22.97	1	ug/kg	5.8	U
Chlorobenzene	8260A		10.22.97	1	ug/kg	5.8	U
Carbon Tetrachloride	8260A		10.22.97	1	ug/kg	5.8	U
Chloroethane	8260A		10.22.97	1	ug/kg	5.8	U
Chloroform	8260A		10.22.97	1	ug/kg	5.8	U
Chloromethane	8260A		10.22.97	1	ug/kg	5.8	U
Carbon Disulfide	8260A		10.22.97	1	ug/kg	5.8	U
Dibromochloromethane	8260A		10.22.97	1	ug/kg	5.8	U
Ethylbenzene	8260A		10.22.97	1	ug/kg	5.8	U
Methyl ethyl ketone	8260A		10.22.97	1	ug/kg	58	U
Methyl isobutyl ketone	8260A		10.22.97	1	ug/kg	58	U

SAMPLE NO: 9710387*15

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Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*15	18609-615	10.16.97

(Following results reported on the basis of 14.0% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Methyl-tert-butylether	8260A		10.22.97	1	ug/kg	12	U
Methylene chloride	8260A		10.22.97	1	ug/kg	5.8	U
Styrene	8260A		10.22.97	1	ug/kg	5.8	U
Trichloroethene	8260A		10.22.97	1	ug/kg	5.8	U
Toluene	8260A		10.22.97	1	ug/kg	5.8	U
Tetrachloroethene	8260A		10.22.97	1	ug/kg	5.8	U
Vinyl acetate	8260A		10.22.97	1	ug/kg	12	U
Vinyl chloride	8260A		10.22.97	1	ug/kg	5.8	U
Total Xylene Isomers	8260A		10.22.97	1	ug/kg	17	U
cis-1,2-Dichloroethene	8260A		10.22.97	1	ug/kg	5.8	U
cis-1,3-Dichloropropene	8260A		10.22.97	1	ug/kg	5.8	U
trans-1,2-Dichloroethene	8260A		10.22.97	1	ug/kg	5.8	U
trans-1,3-Dichloropropene	8260A		10.22.97	1	ug/kg	5.8	U
Surrogates **							
1,2-Dichloroethane-d4 Rep.	8260A		10.22.97	1	Percent	95	
4-Bromofluorobenzene Rep.	8260A		10.22.97	1	Percent	102	
Toluene-d8 Reported	8260A		10.22.97	1	Percent	95	
Dibromofluoromethane Rep.	8260A		10.22.97	1	Percent	120	

SAMPLE NO: 9710387*4

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Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

	SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE	DATE SAMPLED
9710387*4	18609-616	10.16.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
(Following results reported on the basis of 11.0% moisture)							
Mod 8015 - Gas							
TPH (Gasoline Range)	8015M		10.21.97	1	mg/kg	11	U
rrogates **							
a,a-Trifluorotoluene Rep.	8015M		10.21.97	1	Percent	107	

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Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*4	18609-616	10.16.97

(Following results reported on the basis of 11.0% moisture)

JP-5

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
TPH (Diesel Range)	8015M	10.21.97	10.22.97	1	mg/kg	11	U
JP-5	8015M	10.21.97	10.22.97	1	mg/kg	11	U
Surrogates **							
Naphthalene Reported	8015M	10.21.97	10.22.97	1	Percent	81	
o-Terphenyl Reported	8015M	10.21.97	10.22.97	1	Percent	100	

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*4	18609-616	10.16.97

(Following results reported on the basis of 11.0% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
1,1,1-Trichloroethane	8260A		10.20.97	1	ug/kg	5.6	U
1,1,2,2-Tetrachloroethane	8260A		10.20.97	1	ug/kg	5.6	U
1,1,2-Trichloroethane	8260A		10.20.97	1	ug/kg	5.6	U
1,1-Dichloroethane	8260A		10.20.97	1	ug/kg	5.6	U
1,1-Dichloroethene	8260A		10.20.97	1	ug/kg	5.6	U
1,2-Dichloroethane	8260A		10.20.97	1	ug/kg	5.6	U
1,2-Dichloropropane	8260A		10.20.97	1	ug/kg	5.6	U
2-Chloroethylvinylether	8260A		10.20.97	1	ug/kg	56	U
2-Hexanone	8260A		10.20.97	1	ug/kg	56	U
Acetone	8260A		10.20.97	1	ug/kg	56	U
Bromodichloromethane	8260A		10.20.97	1	ug/kg	5.6	U
Bromomethane	8260A		10.20.97	1	ug/kg	5.6	U
Benzene	8260A		10.20.97	1	ug/kg	5.6	U
Bromoform	8260A		10.20.97	1	ug/kg	5.6	U
Chlorobenzene	8260A		10.20.97	1	ug/kg	5.6	U
Carbon Tetrachloride	8260A		10.20.97	1	ug/kg	5.6	U
Chloroethane	8260A		10.20.97	1	ug/kg	5.6	U
Chloroform	8260A		10.20.97	1	ug/kg	5.6	U
Chloromethane	8260A		10.20.97	1	ug/kg	5.6	U
Carbon Disulfide	8260A		10.20.97	1	ug/kg	5.6	U
Dibromochloromethane	8260A		10.20.97	1	ug/kg	5.6	U
Ethylbenzene	8260A		10.20.97	1	ug/kg	5.6	U
Methyl ethyl ketone	8260A		10.20.97	1	ug/kg	56	U
Methyl isobutyl ketone	8260A		10.20.97	1	ug/kg	56	U

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*4	18609-616	10.16.97

(Following results reported on the basis of 11.0% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Methyl-tert-butylether	8260A		10.20.97	1	ug/kg	11	U
Methylene chloride	8260A		10.20.97	1	ug/kg	5.6	U
Styrene	8260A		10.20.97	1	ug/kg	5.6	U
Trichloroethene	8260A		10.20.97	1	ug/kg	5.6	U
Toluene	8260A		10.20.97	1	ug/kg	5.6	U
Tetrachloroethene	8260A		10.20.97	1	ug/kg	5.6	U
Vinyl acetate	8260A		10.20.97	1	ug/kg	11	U
Vinyl chloride	8260A		10.20.97	1	ug/kg	5.6	U
Total Xylene Isomers	8260A		10.20.97	1	ug/kg	17	U
cis-1,2-Dichloroethene	8260A		10.20.97	1	ug/kg	5.6	U
cis-1,3-Dichloropropene	8260A		10.20.97	1	ug/kg	5.6	U
trans-1,2-Dichloroethene	8260A		10.20.97	1	ug/kg	5.6	U
trans-1,3-Dichloropropene	8260A		10.20.97	1	ug/kg	5.6	U
Surrogates **							
1,2-Dichloroethane-d4 Rep.	8260A		10.20.97	1	Percent	89	
4-Bromofluorobenzene Rep.	8260A		10.20.97	1	Percent	99	
Toluene-d8 Reported	8260A		10.20.97	1	Percent	94	
Dibromofluoromethane Rep.	8260A		10.20.97	1	Percent	113	

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*4	18609-616	10.16.97

(Following results reported on the basis of 11.0% moisture)

Semi-volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
1,2,4-Trichlorobenzene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
1,2-Dichlorobenzene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
1,3-Dichlorobenzene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
1,4-Dichlorobenzene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
2,4,5-Trichlorophenol	8270B	10.21.97	10.23.97	1	ug/kg	370	U
2,4,6-Trichlorophenol	8270B	10.21.97	10.23.97	1	ug/kg	370	U
2,4-Dichlorophenol	8270B	10.21.97	10.23.97	1	ug/kg	370	U
2,4-Dimethylphenol	8270B	10.21.97	10.23.97	1	ug/kg	370	U
2,4-Dinitrophenol	8270B	10.21.97	10.23.97	1	ug/kg	930	U
2,4-Dinitrotoluene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
2,6-Dinitrotoluene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
2-Chloronaphthalene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
2-Chlorophenol	8270B	10.21.97	10.23.97	1	ug/kg	370	U
2-Methyl-4,6-dinitrophenol	8270B	10.21.97	10.23.97	1	ug/kg	930	U
2-Methylnaphthalene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
2-Methylphenol (o-Cresol)	8270B	10.21.97	10.23.97	1	ug/kg	370	U
2-Nitroaniline	8270B	10.21.97	10.23.97	1	ug/kg	370	U
2-Nitrophenol	8270B	10.21.97	10.23.97	1	ug/kg	370	U
3,3'-Dichlorobenzidine	8270B	10.21.97	10.23.97	1	ug/kg	370	U
3-Nitroaniline	8270B	10.21.97	10.23.97	1	ug/kg	370	U
4-Bromophenylphenylether	8270B	10.21.97	10.23.97	1	ug/kg	370	U
4-Chloro-3-methylphenol	8270B	10.21.97	10.23.97	1	ug/kg	370	U
4-Chloroaniline	8270B	10.21.97	10.23.97	1	ug/kg	370	U
4-Chlorophenylphenylether	8270B	10.21.97	10.23.97	1	ug/kg	370	U

SAMPLE NO: 9710387*4

Received: 10.17.97
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Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 260411
Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*4	18609-616	10.16.97

(Following results reported on the basis of 11.0% moisture)

Semi-volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
4-Methylphenol (p-Cresol)	8270B	10.21.97	10.23.97	1	ug/kg	370	U
4-Nitroaniline	8270B	10.21.97	10.23.97	1	ug/kg	370	U
4-Nitrophenol	8270B	10.21.97	10.23.97	1	ug/kg	930	U
Acenaphthene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Acenaphthylene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Anthracene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Benzo(a)anthracene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Benzo(b)fluoranthene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Benzo(g,h,i)perylene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Benzo(k)fluoranthene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Butylbenzylphthalate	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Chrysene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Di-n-octylphthalate	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Dibenzofuran	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Dibutylphthalate	8270B	10.21.97	10.23.97	1	ug/kg	200	J
Diethylphthalate	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Dimethylphthalate	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Fluoranthene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Fluorene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Hexachlorobenzene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Hexachlorobutadiene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Hexachlorocyclopentadiene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Hexachloroethane	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Indeno(1,2,3-c,d)pyrene	8270B	10.21.97	10.23.97	1	ug/kg	370	U

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

	SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE	DATE SAMPLED
9710387*4	18609-616	10.16.97

(Following results reported on the basis of 11.0% moisture)

Semi-volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
N-Nitrosodiphenylamine	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Nitrobenzene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Naphthalene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Phenanthrene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Phenol	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Pentachlorophenol	8270B	10.21.97	10.23.97	1	ug/kg	740	U
Pyrene	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Bis(2-chloroethoxy)methane	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Bis(2-chloroisopropyl)ether	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Bis(2-ethylhexyl)phthalate	8270B	10.21.97	10.23.97	1	ug/kg	370	U
Surrogates **							
2-Fluorobiphenyl Reported	8270B	10.21.97	10.23.97	1	Percent	93	
2-Fluorophenol Reported	8270B	10.21.97	10.23.97	1	Percent	83	
2,4,6-Tribromophenol Rep.	8270B	10.21.97	10.23.97	1	Percent	95	
Nitrobenzene-d5 Reported	8270B	10.21.97	10.23.97	1	Percent	84	
Phenol-d5 Reported	8270B	10.21.97	10.23.97	1	Percent	91	
Terphenyl-d14 Reported	8270B	10.21.97	10.23.97	1	Percent	76	

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*4	18609-616	10.16.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
(Following results reported on the basis of 11.0% moisture)							
Compounds by SIM							
Benzo(a)pyrene	8270.S	10.21.97	10.24.97	1	ug/kg	37	U
Dibenzo(a,h)anthracene	8270.S	10.21.97	10.24.97	1	ug/kg	37	U
N-Nitrosodi-n-propylamine	8270.S	10.21.97	10.24.97	1	ug/kg	37	U
Bis(2-chloroethyl)ether	8270.S	10.21.97	10.24.97	1	ug/kg	37	U
Surrogates **							
2-Fluorobiphenyl Reported	8270.S	10.21.97	10.24.97	1	Percent	50	
Terphenyl-d14 Reported	8270.S	10.21.97	10.24.97	1	Percent	56	

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SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*4	18609-616	10.16.97

(Following results reported on the basis of 11.0% moisture)

Pesticides

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Aldrin	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
p'-DDD	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
p,p'-DDE	8081	10.20.97	10.24.97	1	ug/kg	3.0	
p,p'-DDT	8081	10.20.97	10.24.97	1	ug/kg	15	
Dieldrin	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
Endosulfan I	8081	10.20.97	10.24.97	1	ug/kg	0.79	U
Endosulfan II	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
Endosulfan sulfate	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
Endrin	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
Endrin aldehyde	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
Heptachlor epoxide	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
Heptachlor	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
Methoxychlor	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
BHC, alpha isomer	8081	10.20.97	10.24.97	1	ug/kg	0.79	U
alpha-Chlordane	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
BHC, beta isomer	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
BHC, delta isomer	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
BHC, gamma isomer (Lindane)	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
gamma-Chlordane	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.20.97	10.24.97	1	Percent	113	
Tetrachloro-meta-xylene Rpt	8081	10.20.97	10.24.97	1	Percent	105	

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*4	18609-616	10.16.97

(Following results reported on the basis of 11.0% moisture)

Pesticides Confirmation

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Aldrin	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
p,p'-DDD	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
p,p'-DDE	8081	10.20.97	10.24.97	1	ug/kg	5.26	
p,p'-DDT	8081	10.20.97	10.24.97	1	ug/kg	15	
Dieldrin	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
Endosulfan I	8081	10.20.97	10.24.97	1	ug/kg	0.79	U
Endosulfan II	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
Endosulfan sulfate	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
Endrin	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
Endrin aldehyde	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
Heptachlor epoxide	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
Heptachlor	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
Methoxychlor	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
BHC, alpha isomer	8081	10.20.97	10.24.97	1	ug/kg	0.79	U
alpha-Chlordane	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
BHC, beta isomer	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
BHC, delta isomer	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
BHC, gamma isomer (Lindane)	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
gamma-Chlordane	8081	10.20.97	10.24.97	1	ug/kg	2.2	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.20.97	10.24.97	1	Percent	120	
Tetrachloro-meta-xylene Rpt	8081	10.20.97	10.24.97	1	Percent	88	

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

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9710387*4	18609-616	10.16.97

(Following results reported on the basis of 11.0% moisture)

Polychlorinated Biphenyls

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Aroclor 1016	8081	10.20.97	10.24.97	1	ug/kg	37	U
Aroclor 1221	8081	10.20.97	10.24.97	1	ug/kg	37	U
Aroclor 1232	8081	10.20.97	10.24.97	1	ug/kg	37	U
Aroclor 1242	8081	10.20.97	10.24.97	1	ug/kg	37	U
Aroclor 1248	8081	10.20.97	10.24.97	1	ug/kg	37	U
Aroclor 1254	8081	10.20.97	10.24.97	1	ug/kg	37	U
Aroclor 1260	8081	10.20.97	10.24.97	1	ug/kg	37	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.20.97	10.24.97	1	Percent	113	
Tetrachloro-meta-xylene Rpt	8081	10.20.97	10.24.97	1	Percent	105	

ANALYTICAL REPORT

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

	SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE	DATE SAMPLED
9710387*4	18609-616	10.16.97

(Following results reported on the basis of 11.0% moisture)

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Total Cyanide	9010A	10.23.97	10.23.97	1	mg/kg	0.56	U
pH	9045		10.21.97	1	Units	8.2	
-Moisture/TNFR	D2216		10.23.97	1	Percent	11	
Aluminum	6010A	10.21.97	10.21.97	1	mg/kg	9200	
Antimony	6010A	10.21.97	10.21.97	1	mg/kg	5.6	U
Arsenic	7060A	10.21.97	10.21.97	1	mg/kg	2.6	
Barium	6010A	10.21.97	10.21.97	1	mg/kg	110	
Beryllium	6010A	10.21.97	10.21.97	1	mg/kg	0.49	
Cadmium	6010A	10.21.97	10.21.97	1	mg/kg	0.56	U
Calcium	6010A	10.21.97	10.21.97	1	mg/kg	4700	
Chromium	6010A	10.21.97	10.21.97	1	mg/kg	10.0	
Cobalt	6010A	10.21.97	10.21.97	1	mg/kg	6.3	
Copper	6010A	10.21.97	10.21.97	1	mg/kg	15	
Iron	6010A	10.21.97	10.21.97	5	mg/kg	18000	
Lead	7421	10.21.97	10.21.97	1	mg/kg	4.8	
Magnesium	6010A	10.21.97	10.21.97	1	mg/kg	5600	
Manganese	6010A	10.21.97	10.21.97	1	mg/kg	240	
Mercury	7471A	10.22.97	10.23.97	1	mg/kg	0.09	U
Molybdenum	6010A	10.21.97	10.21.97	1	mg/kg	2.2	U
Nickel	6010A	10.21.97	10.21.97	1	mg/kg	6.6	
Potassium	6010A	10.21.97	10.21.97	1	mg/kg	4200	
Selenium	7740	10.21.97	10.21.97	1	mg/kg	0.56	U
Silver	6010A	10.21.97	10.21.97	1	mg/kg	1.1	U
Sodium	6010A	10.21.97	10.21.97	1	mg/kg	120	

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*4	18609-616	10.16.97

(Following results reported on the basis of 11.0% moisture)

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Thallium	6010A	10.21.97	10.21.97	1	mg/kg	5.6	U
Vanadium	6010A	10.21.97	10.21.97	1	mg/kg	33	
Zinc	6010A	10.21.97	10.21.97	1	mg/kg	130	
Digestion	3050	10.21.97	10.21.97	1	Date	10/21/97	
Furnace Digestion	3050	10.21.97	10.21.97	1	Date	10/21/97	

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*16	18609-617	10.16.97

(Following results reported on the basis of 13.0% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
1,1,1-Trichloroethane	8260A		10.23.97	1	ug/kg	5.7	U
1,1,2,2-Tetrachloroethane	8260A		10.23.97	1	ug/kg	5.7	U
1,1,2-Trichloroethane	8260A		10.23.97	1	ug/kg	5.7	U
1,1-Dichloroethane	8260A		10.23.97	1	ug/kg	5.7	U
1,1-Dichloroethene	8260A		10.23.97	1	ug/kg	5.7	U
1,2-Dichloroethane	8260A		10.23.97	1	ug/kg	5.7	U
1,2-Dichloropropane	8260A		10.23.97	1	ug/kg	5.7	U
2-Chloroethylvinylether	8260A		10.23.97	1	ug/kg	57	U
2-Hexanone	8260A		10.23.97	1	ug/kg	57	U
Acetone	8260A		10.23.97	1	ug/kg	57	U
Bromodichloromethane	8260A		10.23.97	1	ug/kg	5.7	U
Bromomethane	8260A		10.23.97	1	ug/kg	5.7	U
Benzene	8260A		10.23.97	1	ug/kg	5.7	U
Bromoform	8260A		10.23.97	1	ug/kg	5.7	U
Chlorobenzene	8260A		10.23.97	1	ug/kg	5.7	U
Carbon Tetrachloride	8260A		10.23.97	1	ug/kg	5.7	U
Chloroethane	8260A		10.23.97	1	ug/kg	5.7	U
Chloroform	8260A		10.23.97	1	ug/kg	5.7	U
Chloromethane	8260A		10.23.97	1	ug/kg	5.7	U
Carbon Disulfide	8260A		10.23.97	1	ug/kg	5.7	U
Dibromochloromethane	8260A		10.23.97	1	ug/kg	5.7	U
Ethylbenzene	8260A		10.23.97	1	ug/kg	5.7	U
Methyl ethyl ketone	8260A		10.23.97	1	ug/kg	57	U
Methyl isobutyl ketone	8260A		10.23.97	1	ug/kg	57	U

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*16	18609-617	10.16.97

(Following results reported on the basis of 13.0% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Methyl-tert-butylether	8260A		10.23.97	1	ug/kg	11	U
Methylene chloride	8260A		10.23.97	1	ug/kg	5.7	U
Styrene	8260A		10.23.97	1	ug/kg	5.7	U
Trichloroethene	8260A		10.23.97	1	ug/kg	5.7	U
Toluene	8260A		10.23.97	1	ug/kg	5.7	U
Tetrachloroethene	8260A		10.23.97	1	ug/kg	5.7	U
Vinyl acetate	8260A		10.23.97	1	ug/kg	11	U
Vinyl chloride	8260A		10.23.97	1	ug/kg	5.7	U
Total Xylene Isomers	8260A		10.23.97	1	ug/kg	17	U
cis-1,2-Dichloroethene	8260A		10.23.97	1	ug/kg	5.7	U
cis-1,3-Dichloropropene	8260A		10.23.97	1	ug/kg	5.7	U
trans-1,2-Dichloroethene	8260A		10.23.97	1	ug/kg	5.7	U
trans-1,3-Dichloropropene	8260A		10.23.97	1	ug/kg	5.7	U
Surrogates **							
1,2-Dichloroethane-d4 Rep.	8260A		10.23.97	1	Percent	88	
4-Bromofluorobenzene Rep.	8260A		10.23.97	1	Percent	99	
Toluene-d8 Reported	8260A		10.23.97	1	Percent	97	
Dibromofluoromethane Rep.	8260A		10.23.97	1	Percent	97	

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*5	18609-618	10.16.97

(Following results reported on the basis of 10.0% moisture)

Mod 8015 - Gas

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
TPH (Gasoline Range)	8015M		10.21.97	1	mg/kg	11	U
Surrogates **							
a,a,a-Trifluorotoluene Rep.	8015M		10.21.97	1	Percent	108	

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*5	18609-618	10.16.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
(Following results reported on the basis of 10.0% moisture)							
JP-5							
TPH (Diesel Range)	8015M	10.21.97	10.22.97	1	mg/kg	11	U
JP-5	8015M	10.21.97	10.22.97	1	mg/kg	11	U
Surrogates **							
Naphthalene Reported	8015M	10.21.97	10.22.97	1	Percent	74	
o-Terphenyl Reported	8015M	10.21.97	10.22.97	1	Percent	100	

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P.O.#: 260411
Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*5	18609-618	10.16.97

(Following results reported on the basis of 10.0% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
1,1,1-Trichloroethane	8260A		10.23.97	1	ug/kg	5.6	U
1,1,2,2-Tetrachloroethane	8260A		10.23.97	1	ug/kg	5.6	U
1,1,2-Trichloroethane	8260A		10.23.97	1	ug/kg	5.6	U
1,1-Dichloroethane	8260A		10.23.97	1	ug/kg	5.6	U
1,1-Dichloroethene	8260A		10.23.97	1	ug/kg	5.6	U
1,2-Dichloroethane	8260A		10.23.97	1	ug/kg	5.6	U
1,2-Dichloropropane	8260A		10.23.97	1	ug/kg	5.6	U
2-Chloroethylvinylether	8260A		10.23.97	1	ug/kg	56	U
2-Hexanone	8260A		10.23.97	1	ug/kg	56	U
Acetone	8260A		10.23.97	1	ug/kg	56	U
Bromodichloromethane	8260A		10.23.97	1	ug/kg	5.6	U
Bromomethane	8260A		10.23.97	1	ug/kg	5.6	U
Benzene	8260A		10.23.97	1	ug/kg	5.6	U
Bromoform	8260A		10.23.97	1	ug/kg	5.6	U
Chlorobenzene	8260A		10.23.97	1	ug/kg	5.6	U
Carbon Tetrachloride	8260A		10.23.97	1	ug/kg	5.6	U
Chloroethane	8260A		10.23.97	1	ug/kg	5.6	U
Chloroform	8260A		10.23.97	1	ug/kg	5.6	U
Chloromethane	8260A		10.23.97	1	ug/kg	5.6	U
Carbon Disulfide	8260A		10.23.97	1	ug/kg	5.6	U
Dibromochloromethane	8260A		10.23.97	1	ug/kg	5.6	U
Ethylbenzene	8260A		10.23.97	1	ug/kg	5.6	U
Methyl ethyl ketone	8260A		10.23.97	1	ug/kg	56	U
Methyl isobutyl ketone	8260A		10.23.97	1	ug/kg	56	U

SAMPLE NO: 9710387*5

Received: 10.17.97
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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*5	18609-618	10.16.97

(Following results reported on the basis of 10.0% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Methyl-tert-butylether	8260A		10.23.97	1	ug/kg	11	U
Methylene chloride	8260A		10.23.97	1	ug/kg	5.6	U
Styrene	8260A		10.23.97	1	ug/kg	5.6	U
Trichloroethene	8260A		10.23.97	1	ug/kg	5.6	U
Toluene	8260A		10.23.97	1	ug/kg	5.6	U
Tetrachloroethene	8260A		10.23.97	1	ug/kg	5.6	U
Vinyl acetate	8260A		10.23.97	1	ug/kg	11	U
Vinyl chloride	8260A		10.23.97	1	ug/kg	5.6	U
Total Xylene Isomers	8260A		10.23.97	1	ug/kg	17	U
cis-1,2-Dichloroethene	8260A		10.23.97	1	ug/kg	5.6	U
cis-1,3-Dichloropropene	8260A		10.23.97	1	ug/kg	5.6	U
trans-1,2-Dichloroethene	8260A		10.23.97	1	ug/kg	5.6	U
trans-1,3-Dichloropropene	8260A		10.23.97	1	ug/kg	5.6	U
Surrogates **							
1,2-Dichloroethane-d4 Rep.	8260A		10.23.97	1	Percent	83	
4-Bromofluorobenzene Rep.	8260A		10.23.97	1	Percent	99	
Toluene-d8 Reported	8260A		10.23.97	1	Percent	94	
Dibromofluoromethane Rep.	8260A		10.23.97	1	Percent	94	

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*5	18609-618	10.16.97

(Following results reported on the basis of 10.0% moisture)

Semi-volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
1,2,4-Trichlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
1,2-Dichlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
1,3-Dichlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
1,4-Dichlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,4,5-Trichlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,4,6-Trichlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,4-Dichlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,4-Dimethylphenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,4-Dinitrophenol	8270B	10.21.97	10.21.97	1	ug/kg	920	U
2,4-Dinitrotoluene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2,6-Dinitrotoluene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Chloronaphthalene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Chlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Methyl-4,6-dinitrophenol	8270B	10.21.97	10.21.97	1	ug/kg	920	U
2-Methylnaphthalene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Methylphenol (o-Cresol)	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Nitroaniline	8270B	10.21.97	10.21.97	1	ug/kg	370	U
2-Nitrophenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
3,3'-Dichlorobenzidine	8270B	10.21.97	10.21.97	1	ug/kg	370	U
3-Nitroaniline	8270B	10.21.97	10.21.97	1	ug/kg	370	U
4-Bromophenylphenylether	8270B	10.21.97	10.21.97	1	ug/kg	370	U
4-Chloro-3-methylphenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
4-Chloroaniline	8270B	10.21.97	10.21.97	1	ug/kg	370	U
4-Chlorophenylphenylether	8270B	10.21.97	10.21.97	1	ug/kg	370	U

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DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*5	18609-618	10.16.97

(Following results reported on the basis of 10.0% moisture)

Semi-volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
4-Methylphenol (p-Cresol)	8270B	10.21.97	10.21.97	1	ug/kg	370	U
4-Nitroaniline	8270B	10.21.97	10.21.97	1	ug/kg	370	U
4-Nitrophenol	8270B	10.21.97	10.21.97	1	ug/kg	920	U
Acenaphthene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Acenaphthylene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Anthracene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Benzo(a)anthracene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Benzo(b)fluoranthene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Benzo(g,h,i)perylene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Benzo(k)fluoranthene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Butylbenzylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Chrysene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Di-n-octylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Dibenzofuran	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Dibutylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	190	J
Diethylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Dimethylphthalate	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Fluoranthene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Fluorene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Hexachlorobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Hexachlorobutadiene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Hexachlorocyclopentadiene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Hexachloroethane	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Indeno(1,2,3-c,d)pyrene	8270B	10.21.97	10.21.97	1	ug/kg	370	U

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9710387*5	18609-618	10.16.97

(Following results reported on the basis of 10.0% moisture)

Semi-volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
N-Nitrosodiphenylamine	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Nitrobenzene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Naphthalene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Phenanthrene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Phenol	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Pentachlorophenol	8270B	10.21.97	10.21.97	1	ug/kg	730	U
Pyrene	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Bis(2-chloroethoxy)methane	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Bis(2-chloroisopropyl)ether	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Bis(2-ethylhexyl)phthalate	8270B	10.21.97	10.21.97	1	ug/kg	370	U
Surrogates **							
2-Fluorobiphenyl Reported	8270B	10.21.97	10.21.97	1	Percent	98	
2-Fluorophenol Reported	8270B	10.21.97	10.21.97	1	Percent	94	
2,4,6-Tribromophenol Rep.	8270B	10.21.97	10.21.97	1	Percent	106	
Nitrobenzene-d5 Reported	8270B	10.21.97	10.21.97	1	Percent	87	
Phenol-d5 Reported	8270B	10.21.97	10.21.97	1	Percent	107	
Terphenyl-d14 Reported	8270B	10.21.97	10.21.97	1	Percent	88	

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(Following results reported on the basis of 10.0% moisture)

Compounds by SIM

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Benzo(a)pyrene	8270.S	10.21.97	10.24.97	1	ug/kg	37	U
Dibenzo(a,h)anthracene	8270.S	10.21.97	10.24.97	1	ug/kg	37	U
N-Nitrosodi-n-propylamine	8270.S	10.21.97	10.24.97	1	ug/kg	37	U
Bis(2-chloroethyl)ether	8270.S	10.21.97	10.24.97	1	ug/kg	37	U
Surrogates **							
2-Fluorobiphenyl Reported	8270.S	10.21.97	10.24.97	1	Percent	60	
Terphenyl-d14 Reported	8270.S	10.21.97	10.24.97	1	Percent	70	

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9710387*5	18609-618	10.16.97

(Following results reported on the basis of 10.0% moisture)

Pesticides

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Aldrin	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
p,p'-DDD	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
p,p'-DDE	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
p,p'-DDT	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Dieldrin	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Endosulfan I	8081	10.20.97	10.23.97	1	ug/kg	0.78	U
Endosulfan II	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Endosulfan sulfate	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Endrin	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Endrin aldehyde	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Heptachlor epoxide	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Heptachlor	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Methoxychlor	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
BHC, alpha isomer	8081	10.20.97	10.23.97	1	ug/kg	0.78	U
alpha-Chlordane	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
BHC, beta isomer	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
BHC, delta isomer	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
BHC, gamma isomer (Lindane)	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
gamma-Chlordane	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.20.97	10.23.97	1	Percent	103	
Tetrachloro-meta-xylene Rpt	8081	10.20.97	10.23.97	1	Percent	88	

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9710387*5	18609-618	10.16.97

(Following results reported on the basis of 10.0% moisture)

Pesticides Confirmation

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
ldrin	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
p,p'-DDD	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
p,p'-DDE	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
p,p'-DDT	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Dieldrin	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Endosulfan I	8081	10.20.97	10.23.97	1	ug/kg	0.78	U
Endosulfan II	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Endosulfan sulfate	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Endrin	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Endrin aldehyde	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Heptachlor epoxide	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Heptachlor	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Methoxychlor	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
BHC, alpha isomer	8081	10.20.97	10.23.97	1	ug/kg	0.78	U
alpha-Chlordane	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
BHC, beta isomer	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
BHC, delta isomer	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
BHC, gamma isomer (Lindane)	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
gamma-Chlordane	8081	10.20.97	10.23.97	1	ug/kg	2.2	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.20.97	10.23.97	1	Percent	108	
Tetrachloro-meta-xylene Rpt	8081	10.20.97	10.23.97	1	Percent	80	

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(Following results reported on the basis of 10.0% moisture)

Polychlorinated Biphenyls

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Aroclor 1016	8081	10.20.97	10.23.97	1	ug/kg	37	U
Aroclor 1221	8081	10.20.97	10.23.97	1	ug/kg	37	U
Aroclor 1232	8081	10.20.97	10.23.97	1	ug/kg	37	U
Aroclor 1242	8081	10.20.97	10.23.97	1	ug/kg	37	U
Aroclor 1248	8081	10.20.97	10.23.97	1	ug/kg	37	U
Aroclor 1254	8081	10.20.97	10.23.97	1	ug/kg	37	U
Aroclor 1260	8081	10.20.97	10.23.97	1	ug/kg	37	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.20.97	10.23.97	1	Percent	103	
Tetrachloro-meta-xylene Rpt	8081	10.20.97	10.23.97	1	Percent	88	

SAMPLE NO: 9710570*2

Received: 10.30.97

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P.O.#: 1040171
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Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710570*2	18609-743	10.30.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Mod 8015 - Gas							
TPH (Gasoline Range)	8015M		11.03.97	1	mg/L	0.1	U
Surrogates **							
a,a,a-Trifluorotoluene Rep.	8015M		11.03.97	1	Percent	94	

SAMPLE NO: 9710570*2

Received: 10.30.97

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Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710570*2	18609-743	10.30.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
JP-5							
TPH (Diesel Range)	8015M	11.03.97	11.05.97	1	mg/L	0.5	U
JP-5	8015M	11.03.97	11.05.97	1	mg/L	0.5	U
Surrogates **							
Naphthalene Reported	8015M	11.03.97	11.05.97	1	Percent	76	
o-Terphenyl Reported	8015M	11.03.97	11.05.97	1	Percent	87	

SAMPLE NO: 9710570*2

Received: 10.30.97

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Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710570*2	18609-743	10.30.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Polychlorinated Biphenyls							
Aroclor 1016	8081	10.31.97	11.04.97	1	ug/L	1	U
Aroclor 1221	8081	10.31.97	11.04.97	1	ug/L	1	U
Aroclor 1232	8081	10.31.97	11.04.97	1	ug/L	1	U
Aroclor 1242	8081	10.31.97	11.04.97	1	ug/L	1	U
Aroclor 1248	8081	10.31.97	11.04.97	1	ug/L	1	U
Aroclor 1254	8081	10.31.97	11.04.97	1	ug/L	1	U
Aroclor 1260	8081	10.31.97	11.04.97	1	ug/L	1	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.31.97	11.04.97	1	Percent	101	
Tetrachloro-meta-xylene Rpt	8081	10.31.97	11.04.97	1	Percent	94	

SAMPLE NO: 9710570*2

Received: 10.30.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 1040171
Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710570*2	18609-743	10.30.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLGS
Pesticides Confirmation							
Aldrin	8081	10.31.97	11.04.97	1	ug/L	0.03	U
p,p'-DDD	8081	10.31.97	11.04.97	1	ug/L	0.03	U
p,p'-DDE	8081	10.31.97	11.04.97	1	ug/L	0.03	U
p,p'-DDT	8081	10.31.97	11.04.97	1	ug/L	0.05	U
Dieldrin	8081	10.31.97	11.04.97	1	ug/L	0.03	U
Endosulfan I	8081	10.31.97	11.04.97	1	ug/L	0.03	U
Endosulfan II	8081	10.31.97	11.04.97	1	ug/L	0.03	U
Endosulfan sulfate	8081	10.31.97	11.04.97	1	ug/L	0.05	U
Endrin	8081	10.31.97	11.04.97	1	ug/L	0.03	U
Endrin aldehyde	8081	10.31.97	11.04.97	1	ug/L	0.03	U
Endrin Ketone	8081	10.31.97	11.04.97	1	ug/L	0.13	
Heptachlor epoxide	8081	10.31.97	11.04.97	1	ug/L	0.03	U
Heptachlor	8081	10.31.97	11.04.97	1	ug/L	0.03	U
Methoxychlor	8081	10.31.97	11.04.97	1	ug/L	0.05	U
Toxaphene	8081	10.31.97	11.04.97	1	ug/L	5	U
BHC, alpha isomer	8081	10.31.97	11.04.97	1	ug/L	0.03	U
alpha-Chlordane	8081	10.31.97	11.04.97	1	ug/L	0.03	U
BHC, beta isomer	8081	10.31.97	11.04.97	1	ug/L	0.03	U
BHC, delta isomer	8081	10.31.97	11.04.97	1	ug/L	0.03	U
BHC, gamma isomer (Lindane)	8081	10.31.97	11.04.97	1	ug/L	0.03	U
gamma-Chlordane	8081	10.31.97	11.04.97	1	ug/L	0.03	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.31.97	11.04.97	1	Percent	93	
Tetrachloro-meta-xylene Rpt	8081	10.31.97	11.04.97	1	Percent	76	

SAMPLE NO: 9710570*2

Received: 10.30.97

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OHM Remediation Services Corp.
2031 Main Street
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P.O.#: 1040171
Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710570*2	18609-743	10.30.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLGS
Pesticides							
Aldrin	8081	10.31.97	11.04.97	1	ug/L	0.03	U
p,p'-DDD	8081	10.31.97	11.04.97	1	ug/L	0.03	U
p,p'-DDE	8081	10.31.97	11.04.97	1	ug/L	0.03	U
p,p'-DDT	8081	10.31.97	11.04.97	1	ug/L	0.05	U
Dieldrin	8081	10.31.97	11.04.97	1	ug/L	0.03	U
Endosulfan I	8081	10.31.97	11.04.97	1	ug/L	0.03	U
Endosulfan II	8081	10.31.97	11.04.97	1	ug/L	0.03	U
Endosulfan sulfate	8081	10.31.97	11.04.97	1	ug/L	0.05	U
Endrin	8081	10.31.97	11.04.97	1	ug/L	0.03	U
Endrin aldehyde	8081	10.31.97	11.04.97	1	ug/L	0.03	U
Endrin Ketone	8081	10.31.97	11.04.97	1	ug/L	0.18	
Heptachlor epoxide	8081	10.31.97	11.04.97	1	ug/L	0.03	U
Heptachlor	8081	10.31.97	11.04.97	1	ug/L	0.03	U
Methoxychlor	8081	10.31.97	11.04.97	1	ug/L	0.05	U
Toxaphene	8081	10.31.97	11.04.97	1	ug/L	5	U
BHC, alpha isomer	8081	10.31.97	11.04.97	1	ug/L	0.03	U
alpha-Chlordane	8081	10.31.97	11.04.97	1	ug/L	0.03	U
BHC, beta isomer	8081	10.31.97	11.04.97	1	ug/L	0.03	U
BHC, delta isomer	8081	10.31.97	11.04.97	1	ug/L	0.03	U
BHC, gamma isomer (Lindane)	8081	10.31.97	11.04.97	1	ug/L	0.03	U
gamma-Chlordane	8081	10.31.97	11.04.97	1	ug/L	0.03	U
Surrogates **							
Decachlorobiphenyl Reported	8081	10.31.97	11.04.97	1	Percent	101	
Tetrachloro-meta-xylene Rpt	8081	10.31.97	11.04.97	1	Percent	94	

SAMPLE NO: 9710570*2

Received: 10.30.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 1040171
Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710570*2	18609-743	10.30.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
B/N,A Ext.Pri.Poll.							
Nitrobenzene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Naphthalene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Phenanthrene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Phenol	8270B	11.05.97	11.06.97	1	ug/L	10	U
Pentachlorophenol	8270B	11.05.97	11.06.97	1	ug/L	20	U
Pyrene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Bis(2-chloroethoxy)methane	8270B	11.05.97	11.06.97	1	ug/L	10	U
Bis(2-chloroethyl)ether	8270B	11.05.97	11.06.97	1	ug/L	10	U
Bis(2-chloroisopropyl)ether	8270B	11.05.97	11.06.97	1	ug/L	10	U
Bis(2-ethylhexyl)phthalate	8270B	11.05.97	11.06.97	1	ug/L	3.8	J
Surrogates **							
2-Fluorobiphenyl Reported	8270B	11.05.97	11.06.97	1	Percent	79	
2-Fluorophenol Reported	8270B	11.05.97	11.06.97	1	Percent	54	
2,4,6-Tribromophenol Rep.	8270B	11.05.97	11.06.97	1	Percent	81	
Nitrobenzene-d5 Reported	8270B	11.05.97	11.06.97	1	Percent	68	
Phenol-d5 Reported	8270B	11.05.97	11.06.97	1	Percent	45	
Terphenyl-d14 Reported	8270B	11.05.97	11.06.97	1	Percent	74	

SAMPLE NO: 9710570*2

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Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710570*2	18609-743	10.30.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
B/N,A Ext.Pri.Poll.							
4-Nitrophenol	8270B	11.05.97	11.06.97	1	ug/L	25	U
Acenaphthene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Acenaphthylene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Anthracene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Benzo(a)anthracene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Benzo(a)pyrene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Benzo(b)fluoranthene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Benzo(g,h,i)perylene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Benzo(k)fluoranthene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Butylbenzylphthalate	8270B	11.05.97	11.06.97	1	ug/L	10	U
Chrysene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Di-n-octylphthalate	8270B	11.05.97	11.06.97	1	ug/L	10	U
Dibenzo(a,h)anthracene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Dibenzofuran	8270B	11.05.97	11.06.97	1	ug/L	10	U
Dibutylphthalate	8270B	11.05.97	11.06.97	1	ug/L	10	U
Diethylphthalate	8270B	11.05.97	11.06.97	1	ug/L	10	U
Dimethylphthalate	8270B	11.05.97	11.06.97	1	ug/L	10	U
Fluoranthene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Fluorene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Hexachlorobenzene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Hexachlorobutadiene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Hexachlorocyclopentadiene	8270B	11.05.97	11.06.97	1	ug/L	10	U
Hexachloroethane	8270B	11.05.97	11.06.97	1	ug/L	10	U
Indeno(1,2,3-c,d)pyrene	8270B	11.05.97	11.06.97	1	ug/L	10	U
N-Nitrosodiphenylamine	8270B	11.05.97	11.06.97	1	ug/L	10	U
N-Nitrosodi-n-propylamine	8270B	11.05.97	11.06.97	1	ug/L	10	U

SAMPLE NO: 9710570*2

Received: 10.30.97

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2031 Main Street
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P.O.#: 1040171
Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710570*2	18609-743	10.30.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
B/N,A Ext.Pri.Poll.							
1,2,4-Trichlorobenzene	8270B	11.05.97	11.06.97	1	ug/L	10	U
1,2-Dichlorobenzene	8270B	11.05.97	11.06.97	1	ug/L	10	U
1,3-Dichlorobenzene	8270B	11.05.97	11.06.97	1	ug/L	10	U
1,4-Dichlorobenzene	8270B	11.05.97	11.06.97	1	ug/L	10	U
2,4,5-Trichlorophenol	8270B	11.05.97	11.06.97	1	ug/L	10	U
2,4,6-Trichlorophenol	8270B	11.05.97	11.06.97	1	ug/L	10	U
2,4-Dichlorophenol	8270B	11.05.97	11.06.97	1	ug/L	10	U
2,4-Dimethylphenol	8270B	11.05.97	11.06.97	1	ug/L	10	U
2,4-Dinitrophenol	8270B	11.05.97	11.06.97	1	ug/L	25	U
2,4-Dinitrotoluene	8270B	11.05.97	11.06.97	1	ug/L	10	U
2,6-Dinitrotoluene	8270B	11.05.97	11.06.97	1	ug/L	10	U
2-Chloronaphthalene	8270B	11.05.97	11.06.97	1	ug/L	10	U
2-Chlorophenol	8270B	11.05.97	11.06.97	1	ug/L	10	U
2-Methyl-4,6-dinitrophenol	8270B	11.05.97	11.06.97	1	ug/L	25	U
2-Methylnaphthalene	8270B	11.05.97	11.06.97	1	ug/L	10	U
2-Methylphenol (o-Cresol)	8270B	11.05.97	11.06.97	1	ug/L	10	U
2-Nitroaniline	8270B	11.05.97	11.06.97	1	ug/L	10	U
2-Nitrophenol	8270B	11.05.97	11.06.97	1	ug/L	10	U
3,3'-Dichlorobenzidine	8270B	11.05.97	11.06.97	1	ug/L	10	U
3-Nitroaniline	8270B	11.05.97	11.06.97	1	ug/L	10	U
4-Bromophenylphenylether	8270B	11.05.97	11.06.97	1	ug/L	10	U
4-Chloro-3-methylphenol	8270B	11.05.97	11.06.97	1	ug/L	10	U
4-Chloroaniline	8270B	11.05.97	11.06.97	1	ug/L	10	U
4-Chlorophenylphenylether	8270B	11.05.97	11.06.97	1	ug/L	10	U
4-Methylphenol (p-Cresol)	8270B	11.05.97	11.06.97	1	ug/L	10	U
4-Nitroaniline	8270B	11.05.97	11.06.97	1	ug/L	10	U

SAMPLE NO: 9710570*2

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Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710570*2	18609-743	10.30.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Digestion	3010	11.04.97	11.04.97	1	Date	11/04/97	
Furnace Digestion	3020	11.04.97	11.04.97	1	Date	11/04/97	

ANALYTICAL REPORT

SAMPLE NO: 9710570*2

Received: 10.30.97

Mailed:

Ms. Mary Schneider
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2031 Main Street
Irvine, CA 92614

P.O.#: 1040171
Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710570*2	18609-743	10.30.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Total Cyanide	9010A	11.05.97	11.05.97	1	mg/L	0.02	U
pH	150.1		10.31.97	1	Units	8.0	
Aluminum	6010A	11.04.97	11.05.97	1	ug/L	170	J
Antimony	6010A	11.04.97	11.05.97	1	ug/L	500	U
Arsenic	7060A	11.04.97	11.05.97	1	ug/L	2.5	J
Barium	6010A	11.04.97	11.05.97	1	ug/L	93	J
Beryllium	6010A	11.04.97	11.05.97	1	ug/L	10	U
Cadmium	6010A	11.04.97	11.05.97	1	ug/L	5	U
Calcium	6010A	11.04.97	11.05.97	1	ug/L	66000	
Chromium	6010A	11.04.97	11.05.97	1	ug/L	50	U
Cobalt	6010A	11.04.97	11.05.97	1	ug/L	50	U
Copper	6010A	11.04.97	11.06.97	1	ug/L	11	J
Iron	6010A	11.04.97	11.05.97	1	ug/L	550	
Lead	7421	11.04.97	11.05.97	1	ug/L	5	U
Magnesium	6010A	11.04.97	11.05.97	1	ug/L	26000	
Manganese	6010A	11.04.97	11.05.97	1	ug/L	10	J
Mercury	7470A	11.03.97	11.04.97	1	ug/L	0.2	U
Molybdenum	6010A	11.04.97	11.05.97	1	ug/L	100	U
Nickel	6010A	11.04.97	11.05.97	1	ug/L	150	U
Potassium	6010A	11.04.97	11.05.97	1	ug/L	4100	J
Selenium	7740	11.04.97	11.05.97	1	ug/L	5	U
Silver	6010A	11.04.97	11.05.97	1	ug/L	50	U
Sodium	6010A	11.04.97	11.05.97	1	ug/L	91000	
Thallium	6010A	11.04.97	11.05.97	1	ug/L	400	U
Vanadium	6010A	11.04.97	11.05.97	1	ug/L	100	U
Zinc	6010A	11.04.97	11.05.97	1	ug/L	38	

SAMPLE NO: 9710570*1

Received: 10.30.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 1040171
Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710570*1	18609-742	10.30.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Volatiles							
Styrene	8260A		11.10.97	1	ug/L	5	U
Trichloroethene	8260A		11.10.97	1	ug/L	5	U
Toluene	8260A		11.10.97	1	ug/L	5	U
Tetrachloroethene	8260A		11.10.97	1	ug/L	5	U
Vinyl acetate	8260A		11.10.97	1	ug/L	50	U
Vinyl chloride	8260A		11.10.97	1	ug/L	5	U
Total Xylene Isomers	8260A		11.10.97	1	ug/L	15	U
cis-1,2-Dichloroethene	8260A		11.10.97	1	ug/L	5	U
cis-1,3-Dichloropropene	8260A		11.10.97	1	ug/L	5	U
trans-1,2-Dichloroethene	8260A		11.10.97	1	ug/L	5	U
trans-1,3-Dichloropropene	8260A		11.10.97	1	ug/L	5	U
Surrogates **							
1,2-Dichloroethane-d4 Rep.	8260A		11.10.97	1	Percent	89	
4-Bromofluorobenzene Rep.	8260A		11.10.97	1	Percent	96	
Toluene-d8 Reported	8260A		11.10.97	1	Percent	102	
Dibromofluoromethane Rep.	8260A		11.10.97	1	Percent	81	

SAMPLE NO: 9710570*1

Received: 10.30.97

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P.O.#: 1040171
Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710570*1	18609-742	10.30.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Volatiles							
1,1,1-Trichloroethane	8260A		11.10.97	1	ug/L	5	U
1,1,2,2-Tetrachloroethane	8260A		11.10.97	1	ug/L	5	U
1,1,2-Trichloroethane	8260A		11.10.97	1	ug/L	5	U
1,1-Dichloroethane	8260A		11.10.97	1	ug/L	5	U
1,1-Dichloroethene	8260A		11.10.97	1	ug/L	5	U
1,2-Dichloroethane	8260A		11.10.97	1	ug/L	5	U
1,2-Dichloropropane	8260A		11.10.97	1	ug/L	5	U
2-Chloroethylvinylether	8260A		11.10.97	1	ug/L	50	U
2-Hexanone	8260A		11.10.97	1	ug/L	50	U
Acetone	8260A		11.10.97	1	ug/L	50	U
Bromodichloromethane	8260A		11.10.97	1	ug/L	5	U
Bromomethane	8260A		11.10.97	1	ug/L	5	U
Benzene	8260A		11.10.97	1	ug/L	5	U
Bromoform	8260A		11.10.97	1	ug/L	5	U
Chlorobenzene	8260A		11.10.97	1	ug/L	5	U
Carbon Tetrachloride	8260A		11.10.97	1	ug/L	5	U
Chloroethane	8260A		11.10.97	1	ug/L	5	U
Chloroform	8260A		11.10.97	1	ug/L	5	U
Chloromethane	8260A		11.10.97	1	ug/L	5	U
Carbon Disulfide	8260A		11.10.97	1	ug/L	5	U
Dibromochloromethane	8260A		11.10.97	1	ug/L	5	U
Ethylbenzene	8260A		11.10.97	1	ug/L	5	U
Methyl ethyl ketone	8260A		11.10.97	1	ug/L	50	U
Methyl isobutyl ketone	8260A		11.10.97	1	ug/L	50	U
Methyl-tert-butylether	8260A		11.10.97	1	ug/L	10	U
Methylene chloride	8260A		11.10.97	1	ug/L	5	U

ANALYTICAL REPORT

Our Quality Control Is Your Quality Assurance

SAMPLE NO: 9710570*1

Received: 10.30.97

Mailed:

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 1040171
Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710570*1	18609-742	10.30.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Mod 8015 - Gas							
TPH (Gasoline Range)	8015M		11.03.97	1	mg/L	0.1	U
Surrogates **							
a,a,a-Trifluorotoluene Rep.	8015M		11.03.97	1	Percent	93	

SAMPLE NO: 9710387*25

Received: 10.17.97
Mailed : 11.04.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 260411
Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710387*25	18609-637A	10.16.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Volatiles							
Styrene	8260A		10.21.97	1	ug/L	5	U
Trichloroethene	8260A		10.21.97	1	ug/L	5	U
Toluene	8260A		10.21.97	1	ug/L	5	U
Tetrachloroethene	8260A		10.21.97	1	ug/L	5	U
Vinyl acetate	8260A		10.21.97	1	ug/L	50	U
Vinyl chloride	8260A		10.21.97	1	ug/L	5	U
Total Xylene Isomers	8260A		10.21.97	1	ug/L	15	U
cis-1,2-Dichloroethene	8260A		10.21.97	1	ug/L	5	U
cis-1,3-Dichloropropene	8260A		10.21.97	1	ug/L	5	U
trans-1,2-Dichloroethene	8260A		10.21.97	1	ug/L	5	U
trans-1,3-Dichloropropene	8260A		10.21.97	1	ug/L	5	U
Surrogates **							
1,2-Dichloroethane-d4 Rep.	8260A		10.21.97	1	Percent	99	
4-Bromofluorobenzene Rep.	8260A		10.21.97	1	Percent	85	
Toluene-d8 Reported	8260A		10.21.97	1	Percent	89	
Dibromofluoromethane Rep.	8260A		10.21.97	1	Percent	91	

SAMPLE NO: 9710387*25

Received: 10.17.97
Mailed : 11.04.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 260411
Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710387*25	18609-637A	10.16.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Volatiles							
1,1,1-Trichloroethane	8260A		10.21.97	1	ug/L	5	U
1,1,2,2-Tetrachloroethane	8260A		10.21.97	1	ug/L	5	U
1,1,2-Trichloroethane	8260A		10.21.97	1	ug/L	5	U
1,1-Dichloroethane	8260A		10.21.97	1	ug/L	5	U
1,1-Dichloroethene	8260A		10.21.97	1	ug/L	5	U
1,2-Dichloroethane	8260A		10.21.97	1	ug/L	5	U
1,2-Dichloropropane	8260A		10.21.97	1	ug/L	5	U
2-Chloroethylvinylether	8260A		10.21.97	1	ug/L	50	U
2-Hexanone	8260A		10.21.97	1	ug/L	50	U
Acetone	8260A		10.21.97	1	ug/L	12	J
Bromodichloromethane	8260A		10.21.97	1	ug/L	5	U
Bromomethane	8260A		10.21.97	1	ug/L	5	U
Benzene	8260A		10.21.97	1	ug/L	5	U
Bromoform	8260A		10.21.97	1	ug/L	5	U
Chlorobenzene	8260A		10.21.97	1	ug/L	5	U
Carbon Tetrachloride	8260A		10.21.97	1	ug/L	5	U
Chloroethane	8260A		10.21.97	1	ug/L	5	U
Chloroform	8260A		10.21.97	1	ug/L	5	U
Chloromethane	8260A		10.21.97	1	ug/L	5	U
Carbon Disulfide	8260A		10.21.97	1	ug/L	5	U
Dibromochloromethane	8260A		10.21.97	1	ug/L	5	U
Ethylbenzene	8260A		10.21.97	1	ug/L	5	U
Methyl ethyl ketone	8260A		10.21.97	1	ug/L	50	U
Methyl isobutyl ketone	8260A		10.21.97	1	ug/L	50	U
Methyl-tert-butylether	8260A		10.21.97	1	ug/L	10	U
Methylene chloride	8260A		10.21.97	1	ug/L	5	U

ANALYTICAL REPORT

SAMPLE NO: 9710387*25

Received: 10.17.97
Mailed : 11.04.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 260411
Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

	SAMPLE DESCRIPTION, AQUEOUS SAMPLE	DATE SAMPLED
9710387*25	18609-637A	10.16.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
JP-5							
TPH (Diesel Range)	8015M	10.20.97	10.22.97	1	mg/L	0.068	J
JP-5	8015M	10.20.97	10.22.97	1	mg/L	0.5	U
Surrogates **							
Naphthalene Reported	8015M	10.20.97	10.22.97	1	Percent	91	
o-Terphenyl Reported	8015M	10.20.97	10.22.97	1	Percent	110	

SAMPLE NO: 9710387*25

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P.O.#: 260411
Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710387*25	18609-637A	10.16.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Mod 8015 - Gas							
TPH (Gasoline Range)	8015M		10.22.97	1	mg/L	0.048	J
Surrogates **							
a,a,a-Trifluorotoluene Rep.	8015M		10.22.97	1	Percent	96	

SAMPLE NO: 9710387*26

Received: 10.17.97
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P.O.#: 260411
Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710387*26	18609-636	10.16.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Volatiles							
Styrene	8260A		10.21.97	1	ug/L	5	U
Trichloroethene	8260A		10.21.97	1	ug/L	5	U
Toluene	8260A		10.21.97	1	ug/L	5	U
Tetrachloroethene	8260A		10.21.97	1	ug/L	5	U
Vinyl acetate	8260A		10.21.97	1	ug/L	50	U
Vinyl chloride	8260A		10.21.97	1	ug/L	5	U
Total Xylene Isomers	8260A		10.21.97	1	ug/L	15	U
cis-1,2-Dichloroethene	8260A		10.21.97	1	ug/L	5	U
cis-1,3-Dichloropropene	8260A		10.21.97	1	ug/L	5	U
trans-1,2-Dichloroethene	8260A		10.21.97	1	ug/L	5	U
trans-1,3-Dichloropropene	8260A		10.21.97	1	ug/L	5	U
Surrogates **							
1,2-Dichloroethane-d4 Rep.	8260A		10.21.97	1	Percent	96	
4-Bromofluorobenzene Rep.	8260A		10.21.97	1	Percent	91	
Toluene-d8 Reported	8260A		10.21.97	1	Percent	90	
Dibromofluoromethane Rep.	8260A		10.21.97	1	Percent	85	

SAMPLE NO: 9710387*26

Received: 10.17.97
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P.O.#: 260411
Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710387*26	18609-636	10.16.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Volatiles							
1,1,1-Trichloroethane	8260A		10.21.97	1	ug/L	5	U
1,1,2,2-Tetrachloroethane	8260A		10.21.97	1	ug/L	5	U
1,1,2-Trichloroethane	8260A		10.21.97	1	ug/L	5	U
,1-Dichloroethane	8260A		10.21.97	1	ug/L	5	U
1,1-Dichloroethene	8260A		10.21.97	1	ug/L	5	U
1,2-Dichloroethane	8260A		10.21.97	1	ug/L	5	U
1,2-Dichloropropane	8260A		10.21.97	1	ug/L	5	U
2-Chloroethylvinylether	8260A		10.21.97	1	ug/L	50	U
2-Hexanone	8260A		10.21.97	1	ug/L	50	U
Acetone	8260A		10.21.97	1	ug/L	12	J
Bromodichloromethane	8260A		10.21.97	1	ug/L	5	U
Bromomethane	8260A		10.21.97	1	ug/L	5	U
Benzene	8260A		10.21.97	1	ug/L	5	U
Bromoform	8260A		10.21.97	1	ug/L	5	U
Chlorobenzene	8260A		10.21.97	1	ug/L	5	U
Carbon Tetrachloride	8260A		10.21.97	1	ug/L	5	U
Chloroethane	8260A		10.21.97	1	ug/L	5	U
Chloroform	8260A		10.21.97	1	ug/L	5	U
Chloromethane	8260A		10.21.97	1	ug/L	5	U
Carbon Disulfide	8260A		10.21.97	1	ug/L	5	U
Dibromochloromethane	8260A		10.21.97	1	ug/L	5	U
Ethylbenzene	8260A		10.21.97	1	ug/L	0.63	J
Methyl ethyl ketone	8260A		10.21.97	1	ug/L	50	U
Methyl isobutyl ketone	8260A		10.21.97	1	ug/L	50	U
Methyl-tert-butylether	8260A		10.21.97	1	ug/L	10	U
Methylene chloride	8260A		10.21.97	1	ug/L	5	U

ANALYTICAL REPORT

SAMPLE NO: 9710387*26

Received: 10.17.97
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Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 260411
Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710387*26	18609-636	10.16.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Mod 8015 - Gas							
TPH (Gasoline Range)	8015M		10.22.97	1	mg/L	0.1	U
Surrogates **							
a,a,a-Trifluorotoluene Rep.	8015M		10.22.97	1	Percent	95	

SAMPLE NO: 9710387*17

Received: 10.17.97
Mailed : 11.04.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 260411
Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*17	18609-619	10.16.97

(Following results reported on the basis of 14.0% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Methyl-tert-butylether	8260A		10.23.97	1	ug/kg	12	U
Methylene chloride	8260A		10.23.97	1	ug/kg	5.8	U
Styrene	8260A		10.23.97	1	ug/kg	5.8	U
Trichloroethene	8260A		10.23.97	1	ug/kg	5.8	U
Toluene	8260A		10.23.97	1	ug/kg	5.8	U
Tetrachloroethene	8260A		10.23.97	1	ug/kg	5.8	U
Vinyl acetate	8260A		10.23.97	1	ug/kg	12	U
Vinyl chloride	8260A		10.23.97	1	ug/kg	5.8	U
Total Xylene Isomers	8260A		10.23.97	1	ug/kg	17	U
cis-1,2-Dichloroethene	8260A		10.23.97	1	ug/kg	5.8	U
cis-1,3-Dichloropropene	8260A		10.23.97	1	ug/kg	5.8	U
trans-1,2-Dichloroethene	8260A		10.23.97	1	ug/kg	5.8	U
trans-1,3-Dichloropropene	8260A		10.23.97	1	ug/kg	5.8	U
Surrogates **							
1,2-Dichloroethane-d4 Rep.	8260A		10.23.97	1	Percent	76	
4-Bromofluorobenzene Rep.	8260A		10.23.97	1	Percent	101	
Toluene-d8 Reported	8260A		10.23.97	1	Percent	96	
Dibromofluoromethane Rep.	8260A		10.23.97	1	Percent	94	

SAMPLE NO: 9710387*17

Received: 10.17.97
Mailed : 11.04.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 260411
Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*17	18609-619	10.16.97

(Following results reported on the basis of 14.0% moisture)

Volatiles

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
1,1,1-Trichloroethane	8260A		10.23.97	1	ug/kg	5.8	U
1,1,2,2-Tetrachloroethane	8260A		10.23.97	1	ug/kg	5.8	U
1,1,2-Trichloroethane	8260A		10.23.97	1	ug/kg	5.8	U
1,1-Dichloroethane	8260A		10.23.97	1	ug/kg	5.8	U
1,1-Dichloroethene	8260A		10.23.97	1	ug/kg	5.8	U
1,2-Dichloroethane	8260A		10.23.97	1	ug/kg	5.8	U
1,2-Dichloropropane	8260A		10.23.97	1	ug/kg	5.8	U
2-Chloroethylvinylether	8260A		10.23.97	1	ug/kg	58	U
2-Hexanone	8260A		10.23.97	1	ug/kg	58	U
Acetone	8260A		10.23.97	1	ug/kg	58	U
Bromodichloromethane	8260A		10.23.97	1	ug/kg	5.8	U
Bromomethane	8260A		10.23.97	1	ug/kg	5.8	U
Benzene	8260A		10.23.97	1	ug/kg	5.8	U
Bromoform	8260A		10.23.97	1	ug/kg	5.8	U
Chlorobenzene	8260A		10.23.97	1	ug/kg	5.8	U
Carbon Tetrachloride	8260A		10.23.97	1	ug/kg	5.8	U
Chloroethane	8260A		10.23.97	1	ug/kg	5.8	U
Chloroform	8260A		10.23.97	1	ug/kg	5.8	U
Chloromethane	8260A		10.23.97	1	ug/kg	5.8	U
Carbon Disulfide	8260A		10.23.97	1	ug/kg	5.8	U
Dibromochloromethane	8260A		10.23.97	1	ug/kg	5.8	U
Ethylbenzene	8260A		10.23.97	1	ug/kg	5.8	U
Methyl ethyl ketone	8260A		10.23.97	1	ug/kg	58	U
Methyl isobutyl ketone	8260A		10.23.97	1	ug/kg	58	U

SAMPLE NO: 9710387*5

Received: 10.17.97
Mailed : 11.04.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 260411
Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

	SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE	DATE SAMPLED
9710387*5	18609-618	10.16.97

(Following results reported on the basis of 10.0% moisture)

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Thallium	6010A	10.21.97	10.21.97	1	mg/kg	5.6	U
Vanadium	6010A	10.21.97	10.21.97	1	mg/kg	38	
Zinc	6010A	10.21.97	10.21.97	1	mg/kg	61	
Digestion	3050	10.21.97	10.21.97	1	Date	10/21/97	
Furnace Digestion	3050	10.21.97	10.21.97	1	Date	10/21/97	

ANALYTICAL REPORT

SAMPLE NO: 9710387*5

Received: 10.17.97
Mailed : 11.04.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 260411
Req#: DO#0070
Project: 18609-002

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9710387*5	18609-618	10.16.97

(Following results reported on the basis of 10.0% moisture)

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Total Cyanide	9010A	10.23.97	10.23.97	1	mg/kg	0.56	U
pH	9045		10.21.97	1	Units	8.3	
-Moisture/TNFR	D2216		10.23.97	1	Percent	10	
Aluminum	6010A	10.21.97	10.21.97	1	mg/kg	10000	
Antimony	6010A	10.21.97	10.21.97	1	mg/kg	5.6	U
Arsenic	7060A	10.21.97	10.21.97	1	mg/kg	1.8	
Barium	6010A	10.21.97	10.21.97	1	mg/kg	160	
Beryllium	6010A	10.21.97	10.21.97	1	mg/kg	0.59	
Cadmium	6010A	10.21.97	10.21.97	1	mg/kg	0.56	U
Calcium	6010A	10.21.97	10.21.97	1	mg/kg	5700	
Chromium	6010A	10.21.97	10.21.97	1	mg/kg	11.0	
Cobalt	6010A	10.21.97	10.21.97	1	mg/kg	7.4	
Copper	6010A	10.21.97	10.21.97	1	mg/kg	27	
Iron	6010A	10.21.97	10.21.97	5	mg/kg	20000	
Lead	7421	10.21.97	10.21.97	1	mg/kg	2.8	
Magnesium	6010A	10.21.97	10.21.97	1	mg/kg	6800	
Manganese	6010A	10.21.97	10.21.97	1	mg/kg	340	
Mercury	7471A	10.22.97	10.23.97	1	mg/kg	0.089	U
Molybdenum	6010A	10.21.97	10.21.97	1	mg/kg	2.2	U
Nickel	6010A	10.21.97	10.21.97	1	mg/kg	6.6	
Potassium	6010A	10.21.97	10.21.97	1	mg/kg	5100	
Selenium	7740	10.21.97	10.21.97	1	mg/kg	0.56	U
Silver	6010A	10.21.97	10.21.97	1	mg/kg	1.1	U
Sodium	6010A	10.21.97	10.21.97	1	mg/kg	210	

SAMPLE NO: 9710570*2

Received: 10.30.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 1040171
Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710570*2	18609-743	10.30.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Volatiles							
1,1,1-Trichloroethane	8260A		11.10.97	1	ug/L	5	U
1,1,2,2-Tetrachloroethane	8260A		11.10.97	1	ug/L	5	U
1,1,2-Trichloroethane	8260A		11.10.97	1	ug/L	5	U
1,1-Dichloroethane	8260A		11.10.97	1	ug/L	5	U
1,1-Dichloroethene	8260A		11.10.97	1	ug/L	5	U
1,2-Dichloroethane	8260A		11.10.97	1	ug/L	5	U
1,2-Dichloropropane	8260A		11.10.97	1	ug/L	5	U
2-Chloroethylvinylether	8260A		11.10.97	1	ug/L	50	U
2-Hexanone	8260A		11.10.97	1	ug/L	50	U
Acetone	8260A		11.10.97	1	ug/L	50	U
Bromodichloromethane	8260A		11.10.97	1	ug/L	5	U
Bromomethane	8260A		11.10.97	1	ug/L	5	U
Benzene	8260A		11.10.97	1	ug/L	5	U
Bromoform	8260A		11.10.97	1	ug/L	5	U
Chlorobenzene	8260A		11.10.97	1	ug/L	5	U
Carbon Tetrachloride	8260A		11.10.97	1	ug/L	5	U
Chloroethane	8260A		11.10.97	1	ug/L	5	U
Chloroform	8260A		11.10.97	1	ug/L	5	U
Chloromethane	8260A		11.10.97	1	ug/L	5	U
Carbon Disulfide	8260A		11.10.97	1	ug/L	5	U
Dibromochloromethane	8260A		11.10.97	1	ug/L	5	U
Ethylbenzene	8260A		11.10.97	1	ug/L	5	U
Methyl ethyl ketone	8260A		11.10.97	1	ug/L	50	U
Methyl isobutyl ketone	8260A		11.10.97	1	ug/L	50	U
Methyl-tert-butylether	8260A		11.10.97	1	ug/L	10	U
Methylene chloride	8260A		11.10.97	1	ug/L	5	U

SAMPLE NO: 9710570*2

Received: 10.30.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 1040171
Req#: DO#0070
Project: 18609-002

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9710570*2	18609-743	10.30.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Volatiles							
Styrene	8260A		11.10.97	1	ug/L	5	U
Trichloroethene	8260A		11.10.97	1	ug/L	5	U
Toluene	8260A		11.10.97	1	ug/L	5	U
Tetrachloroethene	8260A		11.10.97	1	ug/L	5	U
Vinyl acetate	8260A		11.10.97	1	ug/L	50	U
Vinyl chloride	8260A		11.10.97	1	ug/L	5	U
Total Xylene Isomers	8260A		11.10.97	1	ug/L	15	U
cis-1,2-Dichloroethene	8260A		11.10.97	1	ug/L	5	U
cis-1,3-Dichloropropene	8260A		11.10.97	1	ug/L	5	U
trans-1,2-Dichloroethene	8260A		11.10.97	1	ug/L	5	U
trans-1,3-Dichloropropene	8260A		11.10.97	1	ug/L	5	U
Surrogates **							
1,2-Dichloroethane-d4 Rep.	8260A		11.10.97	1	Percent	89	
4-Bromofluorobenzene Rep.	8260A		11.10.97	1	Percent	98	
Toluene-d8 Reported	8260A		11.10.97	1	Percent	100	
Dibromofluoromethane Rep.	8260A		11.10.97	1	Percent	80	

SAMPLE NO: 9711110*1

Received: 11.06.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 1040171
Req#: DO#0070
Project: 18609/EL.TORO

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9711110*1	18609-759	11.05.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Mod 8015 - Gas							
TPH (Gasoline Range)	8015M		11.10.97	1	mg/L	0.1	U
Surrogates **							
a,a,a-Trifluorotoluene Rep.	8015M		11.10.97	1	Percent	97	

SAMPLE NO: 9711110*1

Received: 11.06.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 1040171
Req#: DO#0070
Project: 18609/EL.TORO

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9711110*1	18609-759	11.05.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
JP-5							
TPH (Diesel Range)	8015M	11.10.97	11.12.97	1	mg/L	0.053	J
JP-5	8015M	11.10.97	11.12.97	1	mg/L	0.5	U
Surrogates **							
Naphthalene Reported	8015M	11.10.97	11.12.97	1	Percent	91	
o-Terphenyl Reported	8015M	11.10.97	11.12.97	1	Percent	109	

SAMPLE NO: 9711110*1

Received: 11.06.97

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P.O.#: 1040171
Req#: DO#0070
Project: 18609/EL.TORO

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9711110*1	18609-759	11.05.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Volatiles							
1,1,1-Trichloroethane	8260A		11.14.97	1	ug/L	5	U
1,1,2,2-Tetrachloroethane	8260A		11.14.97	1	ug/L	5	U
1,1,2-Trichloroethane	8260A		11.14.97	1	ug/L	5	U
1,1-Dichloroethane	8260A		11.14.97	1	ug/L	5	U
1,1-Dichloroethene	8260A		11.14.97	1	ug/L	5	U
1,2-Dichloroethane	8260A		11.14.97	1	ug/L	5	U
1,2-Dichloropropane	8260A		11.14.97	1	ug/L	5	U
2-Chloroethylvinylether	8260A		11.14.97	1	ug/L	50	U
2-Hexanone	8260A		11.14.97	1	ug/L	50	U
Acetone	8260A		11.14.97	1	ug/L	50	U
Bromodichloromethane	8260A		11.14.97	1	ug/L	1.8	J
Bromomethane	8260A		11.14.97	1	ug/L	5	U
Benzene	8260A		11.14.97	1	ug/L	5	U
Bromoform	8260A		11.14.97	1	ug/L	5	U
Chlorobenzene	8260A		11.14.97	1	ug/L	5	U
Carbon Tetrachloride	8260A		11.14.97	1	ug/L	5	U
Chloroethane	8260A		11.14.97	1	ug/L	5	U
Chloroform	8260A		11.14.97	1	ug/L	2.0	J
Chloromethane	8260A		11.14.97	1	ug/L	5	U
Carbon Disulfide	8260A		11.14.97	1	ug/L	5	U
Dibromochloromethane	8260A		11.14.97	1	ug/L	1.7	J
Ethylbenzene	8260A		11.14.97	1	ug/L	5	U
Methyl ethyl ketone	8260A		11.14.97	1	ug/L	50	U
Methyl isobutyl ketone	8260A		11.14.97	1	ug/L	50	U
Methyl-tert-butylether	8260A		11.14.97	1	ug/L	10	U
Methylene chloride	8260A		11.14.97	1	ug/L	5	U

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE — DATE SAMPLE

9711110*1 18609-759 — 11.05.9

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Volatiles							
Styrene	8260A		11.14.97	1	ug/L	5	U
Trichloroethene	8260A		11.14.97	1	ug/L	5	U
Toluene	8260A		11.14.97	1	ug/L	5	U
Tetrachloroethene	8260A		11.14.97	1	ug/L	5	U
Vinyl acetate	8260A		11.14.97	1	ug/L	50	U
Vinyl chloride	8260A		11.14.97	1	ug/L	5	U
Total Xylene Isomers	8260A		11.14.97	1	ug/L	15	U
cis-1,2-Dichloroethene	8260A		11.14.97	1	ug/L	5	U
cis-1,3-Dichloropropene	8260A		11.14.97	1	ug/L	5	U
trans-1,2-Dichloroethene	8260A		11.14.97	1	ug/L	5	U
trans-1,3-Dichloropropene	8260A		11.14.97	1	ug/L	5	U
Surrogates **							
1,2-Dichloroethane-d4 Rep.	8260A		11.14.97	1	Percent	92	
4-Bromofluorobenzene Rep.	8260A		11.14.97	1	Percent	100	
Toluene-d8 Reported	8260A		11.14.97	1	Percent	107	
Dibromofluoromethane Rep.	8260A		11.14.97	1	Percent	91	

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9711110*1	18609-759	11.05.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
B/N,A Ext.Pri.Poll.							
1,2,4-Trichlorobenzene	8270B	11.11.97	11.14.97	1	ug/L	10	U
1,2-Dichlorobenzene	8270B	11.11.97	11.14.97	1	ug/L	10	U
1,3-Dichlorobenzene	8270B	11.11.97	11.14.97	1	ug/L	10	U
1,4-Dichlorobenzene	8270B	11.11.97	11.14.97	1	ug/L	10	U
2,4,5-Trichlorophenol	8270B	11.11.97	11.14.97	1	ug/L	10	U
2,4,6-Trichlorophenol	8270B	11.11.97	11.14.97	1	ug/L	10	U
2,4-Dichlorophenol	8270B	11.11.97	11.14.97	1	ug/L	10	U
2,4-Dimethylphenol	8270B	11.11.97	11.14.97	1	ug/L	10	U
2,4-Dinitrophenol	8270B	11.11.97	11.14.97	1	ug/L	25	U
2,4-Dinitrotoluene	8270B	11.11.97	11.14.97	1	ug/L	10	U
2,6-Dinitrotoluene	8270B	11.11.97	11.14.97	1	ug/L	10	U
2-Chloronaphthalene	8270B	11.11.97	11.14.97	1	ug/L	10	U
2-Chlorophenol	8270B	11.11.97	11.14.97	1	ug/L	10	U
2-Methyl-4,6-dinitrophenol	8270B	11.11.97	11.14.97	1	ug/L	25	U
2-Methylnaphthalene	8270B	11.11.97	11.14.97	1	ug/L	10	U
2-Methylphenol (o-Cresol)	8270B	11.11.97	11.14.97	1	ug/L	10	U
2-Nitroaniline	8270B	11.11.97	11.14.97	1	ug/L	10	U
2-Nitrophenol	8270B	11.11.97	11.14.97	1	ug/L	10	U
3,3'-Dichlorobenzidine	8270B	11.11.97	11.14.97	1	ug/L	10	U
3-Nitroaniline	8270B	11.11.97	11.14.97	1	ug/L	10	U
4-Bromophenylphenylether	8270B	11.11.97	11.14.97	1	ug/L	10	U
4-Chloro-3-methylphenol	8270B	11.11.97	11.14.97	1	ug/L	10	U
4-Chloroaniline	8270B	11.11.97	11.14.97	1	ug/L	10	U
4-Chlorophenylphenylether	8270B	11.11.97	11.14.97	1	ug/L	10	U
4-Methylphenol (p-Cresol)	8270B	11.11.97	11.14.97	1	ug/L	10	U
4-Nitroaniline	8270B	11.11.97	11.14.97	1	ug/L	10	U

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Project: 18609/EL.TORO

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9711110*1	18609-759	11.05.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
B/N,A Ext.Pri.Poll.							
4-Nitrophenol	8270B	11.11.97	11.14.97	1	ug/L	25	U
Acenaphthene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Acenaphthylene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Anthracene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Benzo(a)anthracene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Benzo(a)pyrene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Benzo(b)fluoranthene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Benzo(g,h,i)perylene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Benzo(k)fluoranthene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Butylbenzylphthalate	8270B	11.11.97	11.14.97	1	ug/L	10	U
Chrysene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Di-n-octylphthalate	8270B	11.11.97	11.14.97	1	ug/L	10	U
Dibenzo(a,h)anthracene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Dibenzofuran	8270B	11.11.97	11.14.97	1	ug/L	10	U
Dibutylphthalate	8270B	11.11.97	11.14.97	1	ug/L	10	U
Diethylphthalate	8270B	11.11.97	11.14.97	1	ug/L	10	U
Dimethylphthalate	8270B	11.11.97	11.14.97	1	ug/L	10	U
Fluoranthene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Fluorene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Hexachlorobenzene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Hexachlorobutadiene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Hexachlorocyclopentadiene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Hexachloroethane	8270B	11.11.97	11.14.97	1	ug/L	10	U
Indeno(1,2,3-c,d)pyrene	8270B	11.11.97	11.14.97	1	ug/L	10	U
N-Nitrosodiphenylamine	8270B	11.11.97	11.14.97	1	ug/L	10	U
N-Nitrosodi-n-propylamine	8270B	11.11.97	11.14.97	1	ug/L	10	U

SAMPLE NO: 9711110*1

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Req#: DO#0070
Project: 18609/EL.TORO

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9711110*1	18609-759	11.05.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
B/N,A Ext.Pri.Poll.							
Nitrobenzene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Naphthalene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Phenanthrene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Phenol	8270B	11.11.97	11.14.97	1	ug/L	10	U
Pentachlorophenol	8270B	11.11.97	11.14.97	1	ug/L	20	U
Pyrene	8270B	11.11.97	11.14.97	1	ug/L	10	U
Bis(2-chloroethoxy)methane	8270B	11.11.97	11.14.97	1	ug/L	10	U
Bis(2-chloroethyl)ether	8270B	11.11.97	11.14.97	1	ug/L	10	U
Bis(2-chloroisopropyl)ether	8270B	11.11.97	11.14.97	1	ug/L	10	U
Bis(2-ethylhexyl)phthalate	8270B	11.11.97	11.14.97	1	ug/L	2.10	J
Surrogates **							
2-Fluorobiphenyl Reported	8270B	11.11.97	11.14.97	1	Percent	91	
2-Fluorophenol Reported	8270B	11.11.97	11.14.97	1	Percent	40	
2,4,6-Tribromophenol Rep.	8270B	11.11.97	11.14.97	1	Percent	104	
Nitrobenzene-d5 Reported	8270B	11.11.97	11.14.97	1	Percent	90	
Phenol-d5 Reported	8270B	11.11.97	11.14.97	1	Percent	31	
Terphenyl-d14 Reported	8270B	11.11.97	11.14.97	1	Percent	89	

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE — DATE SAMPLEI

9711110*1 18609-759 — 11.05.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Pesticides							
Aldrin	8081	11.06.97	11.09.97	1	ug/L	0.03	U
p,p'-DDD	8081	11.06.97	11.09.97	1	ug/L	0.03	U
p,p'-DDE	8081	11.06.97	11.09.97	1	ug/L	0.03	U
p,p'-DDT	8081	11.06.97	11.09.97	1	ug/L	0.05	U
Dieldrin	8081	11.06.97	11.09.97	1	ug/L	0.03	U
Endosulfan I	8081	11.06.97	11.09.97	1	ug/L	0.03	U
Endosulfan II	8081	11.06.97	11.09.97	1	ug/L	0.03	U
Endosulfan sulfate	8081	11.06.97	11.09.97	1	ug/L	0.05	U
Endrin	8081	11.06.97	11.09.97	1	ug/L	0.03	U
Endrin aldehyde	8081	11.06.97	11.09.97	1	ug/L	0.03	U
Endrin Ketone	8081	11.06.97	11.09.97	1	ug/L	0.05	U
Heptachlor epoxide	8081	11.06.97	11.09.97	1	ug/L	0.03	U
Heptachlor	8081	11.06.97	11.09.97	1	ug/L	0.03	U
Methoxychlor	8081	11.06.97	11.09.97	1	ug/L	0.05	U
Toxaphene	8081	11.06.97	11.09.97	1	ug/L	5	U
BHC, alpha isomer	8081	11.06.97	11.09.97	1	ug/L	0.03	U
alpha-Chlordane	8081	11.06.97	11.09.97	1	ug/L	0.03	U
BHC, beta isomer	8081	11.06.97	11.09.97	1	ug/L	0.03	U
BHC, delta isomer	8081	11.06.97	11.09.97	1	ug/L	0.03	U
BHC, gamma isomer (Lindane)	8081	11.06.97	11.09.97	1	ug/L	0.03	U
gamma-Chlordane	8081	11.06.97	11.09.97	1	ug/L	0.03	U
Surrogates **							
Decachlorobiphenyl Reported	8081	11.06.97	11.09.97	1	Percent	121	
Tetrachloro-meta-xylene Rpt	8081	11.06.97	11.09.97	1	Percent	90	

SAMPLE NO: 9711110*1

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE — DATE SAMPLE

9711110*1 18609-759 — 11.05.9

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Pesticides Confirmation							
Aldrin	8081	11.06.97	11.09.97	1	ug/L	0.03	U
p,p'-DDD	8081	11.06.97	11.09.97	1	ug/L	0.03	U
p,p'-DDE	8081	11.06.97	11.09.97	1	ug/L	0.03	U
p,p'-DDT	8081	11.06.97	11.09.97	1	ug/L	0.05	U
Dieldrin	8081	11.06.97	11.09.97	1	ug/L	0.03	U
Endosulfan I	8081	11.06.97	11.09.97	1	ug/L	0.03	U
Endosulfan II	8081	11.06.97	11.09.97	1	ug/L	0.03	U
Endosulfan sulfate	8081	11.06.97	11.09.97	1	ug/L	0.05	U
Endrin	8081	11.06.97	11.09.97	1	ug/L	0.03	U
Endrin aldehyde	8081	11.06.97	11.09.97	1	ug/L	0.03	U
Endrin Ketone	8081	11.06.97	11.09.97	1	ug/L	0.05	U
Heptachlor epoxide	8081	11.06.97	11.09.97	1	ug/L	0.03	U
Heptachlor	8081	11.06.97	11.09.97	1	ug/L	0.03	U
Methoxychlor	8081	11.06.97	11.09.97	1	ug/L	0.05	U
Toxaphene	8081	11.06.97	11.09.97	1	ug/L	5	U
BHC, alpha isomer	8081	11.06.97	11.09.97	1	ug/L	0.03	U
alpha-Chlordane	8081	11.06.97	11.09.97	1	ug/L	0.03	U
BHC, beta isomer	8081	11.06.97	11.09.97	1	ug/L	0.03	U
BHC, delta isomer	8081	11.06.97	11.09.97	1	ug/L	0.03	U
BHC, gamma isomer (Lindane)	8081	11.06.97	11.09.97	1	ug/L	0.03	U
gamma-Chlordane	8081	11.06.97	11.09.97	1	ug/L	0.03	U
Surrogates **							
Decachlorobiphenyl Reported	8081	11.06.97	11.09.97	1	Percent	119	
Tetrachloro-meta-xylene Rpt	8081	11.06.97	11.09.97	1	Percent	93	

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9711110*1	18609-759	11.05.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Polychlorinated Biphenyls							
Aroclor 1016	8081	11.06.97	11.09.97	1	ug/L	1	U
Aroclor 1221	8081	11.06.97	11.09.97	1	ug/L	1	U
Aroclor 1232	8081	11.06.97	11.09.97	1	ug/L	1	U
Aroclor 1242	8081	11.06.97	11.09.97	1	ug/L	1	U
Aroclor 1248	8081	11.06.97	11.09.97	1	ug/L	1	U
Aroclor 1254	8081	11.06.97	11.09.97	1	ug/L	1	U
Aroclor 1260	8081	11.06.97	11.09.97	1	ug/L	1	U
Surrogates **							
Decachlorobiphenyl Reported	8081	11.06.97	11.09.97	1	Percent	121	
Tetrachloro-meta-xylene Rpt	8081	11.06.97	11.09.97	1	Percent	90	

ANALYTICAL REPORT

Our Quality Control Is Your Quality Assurance

000006

SAMPLE NO: 9711110*1

Received: 11.06.97

Mailed:

Ms. Mary Schneider
OHM Remediation Services Corp.
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Req#: DO#0070
Project: 18609/EL.TORO

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE — DATE SAMPL

9711110*1 18609-759 — 11.05.

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Total Cyanide	9010A	11.11.97	11.11.97	1	mg/L	0.02	U
pH	9040		11.06.97	1	Units	8.0	
Aluminum	6010A	11.11.97	11.13.97	1	ug/L	350	J
Antimony	6010A	11.11.97	11.13.97	1	ug/L	500	U
Arsenic	7060A	11.11.97	11.12.97	1	ug/L	5	U
Barium	6010A	11.11.97	11.13.97	1	ug/L	82	J
Beryllium	6010A	11.11.97	11.13.97	1	ug/L	0.3	J
Cadmium	6010A	11.11.97	11.13.97	1	ug/L	4.2	J
Calcium	6010A	11.11.97	11.13.97	1	ug/L	56000	
Chromium	6010A	11.11.97	11.13.97	1	ug/L	50	U
Cobalt	6010A	11.11.97	11.13.97	1	ug/L	50	U
Copper	6010A	11.11.97	11.13.97	1	ug/L	7.6	J
Iron	6010A	11.11.97	11.13.97	1	ug/L	690	
Lead	7421	11.11.97	11.12.97	1	ug/L	12	
Magnesium	6010A	11.11.97	11.13.97	1	ug/L	21000	
Manganese	6010A	11.11.97	11.13.97	1	ug/L	23	
Mercury	7470A	11.10.97	11.11.97	1	ug/L	0.2	U
Molybdenum	6010A	11.11.97	11.13.97	1	ug/L	100	U
Nickel	6010A	11.11.97	11.13.97	1	ug/L	150	U
Potassium	6010A	11.11.97	11.13.97	1	ug/L	4400	J
Selenium	7740	11.11.97	11.12.97	1	ug/L	5	U
Silver	6010A	11.11.97	11.13.97	1	ug/L	50	U
Sodium	6010A	11.11.97	11.13.97	1	ug/L	82000	
Thallium	6010A	11.11.97	11.13.97	1	ug/L	400	U
Vanadium	6010A	11.11.97	11.13.97	1	ug/L	100	U
Zinc	6010A	11.11.97	11.13.97	1	ug/L	310	

VOC Analytical Laboratories, Inc.
1212 East Katella Avenue, Anaheim CA 92805 - **Phone:** (714) 978-0113 - **Fax:** (714) 978-9284

SAMPLE NO: 9711110*1

Received: 11.06.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 1040171
Req#: DO#0070
Project: 18609/EL.TORO

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLE
9711110*1	18609-759	11.05.9

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Digestion	3010	11.11.97	11.11.97	1	Date	11/11/97	
Furnace Digestion	3020	11.11.97	11.11.97	1	Date	11/11/97	

ANALYTICAL REPORT

000016

SAMPLE NO: 9711110*2

Received: 11.06.97

Mailed:

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 1040171
Req#: DO#0070
Project: 18609/EL.TORO

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9711110*2	18609-760	11.05.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Mod 8015 - Gas							
TPH (Gasoline Range)	8015M		11.10.97	1	mg/L	0.1	U
Surrogates **							
a,a,a-Trifluorotoluene Rep.	8015M		11.10.97	1	Percent	94	

SAMPLE NO: 9711110*2

Received: 11.06.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 1040171
Req#: DO#0070
Project: 18609/EL.TORO

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9711110*2	18609-760	11.05.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Volatiles							
1,1,1-Trichloroethane	8260A		11.14.97	1	ug/L	5	U
1,1,2,2-Tetrachloroethane	8260A		11.14.97	1	ug/L	5	U
1,1,2-Trichloroethane	8260A		11.14.97	1	ug/L	5	U
1,1-Dichloroethane	8260A		11.14.97	1	ug/L	5	U
1,1-Dichloroethene	8260A		11.14.97	1	ug/L	5	U
1,2-Dichloroethane	8260A		11.14.97	1	ug/L	5	U
1,2-Dichloropropane	8260A		11.14.97	1	ug/L	5	U
2-Chloroethylvinylether	8260A		11.14.97	1	ug/L	50	U
2-Hexanone	8260A		11.14.97	1	ug/L	50	U
Acetone	8260A		11.14.97	1	ug/L	50	U
Bromodichloromethane	8260A		11.14.97	1	ug/L	5	U
Bromomethane	8260A		11.14.97	1	ug/L	5	U
Benzene	8260A		11.14.97	1	ug/L	5	U
Bromoform	8260A		11.14.97	1	ug/L	5	U
Chlorobenzene	8260A		11.14.97	1	ug/L	5	U
Carbon Tetrachloride	8260A		11.14.97	1	ug/L	5	U
Chloroethane	8260A		11.14.97	1	ug/L	5	U
Chloroform	8260A		11.14.97	1	ug/L	5	U
Chloromethane	8260A		11.14.97	1	ug/L	5	U
Carbon Disulfide	8260A		11.14.97	1	ug/L	5	U
Dibromochloromethane	8260A		11.14.97	1	ug/L	5	U
Ethylbenzene	8260A		11.14.97	1	ug/L	5	U
Methyl ethyl ketone	8260A		11.14.97	1	ug/L	50	U
Methyl isobutyl ketone	8260A		11.14.97	1	ug/L	50	U
Methyl-tert-butylether	8260A		11.14.97	1	ug/L	10	U
Methylene chloride	8260A		11.14.97	1	ug/L	5	U

SAMPLE NO: 9711110*2

Received: 11.06.97

Ms. Mary Schneider
OHM Remediation Services Corp.
2031 Main Street
Irvine, CA 92614

P.O.#: 1040171
Req#: DO#0070
Project: 18609/EL.TORO

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, AQUEOUS SAMPLE		DATE SAMPLED
9711110*2	18609-760	11.05.97

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
Volatiles							
Styrene	8260A		11.14.97	1	ug/L	5	U
Trichloroethene	8260A		11.14.97	1	ug/L	5	U
Toluene	8260A		11.14.97	1	ug/L	5	U
Tetrachloroethene	8260A		11.14.97	1	ug/L	5	U
Vinyl acetate	8260A		11.14.97	1	ug/L	50	U
Vinyl chloride	8260A		11.14.97	1	ug/L	5	U
Total Xylene Isomers	8260A		11.14.97	1	ug/L	20	U
cis-1,2-Dichloroethene	8260A		11.14.97	1	ug/L	5	U
cis-1,3-Dichloropropene	8260A		11.14.97	1	ug/L	5	U
trans-1,2-Dichloroethene	8260A		11.14.97	1	ug/L	5	U
trans-1,3-Dichloropropene	8260A		11.14.97	1	ug/L	5	U
Surrogates **							
1,2-Dichloroethane-d4 Rep.	8260A		11.14.97	1	Percent	86	
4-Bromofluorobenzene Rep.	8260A		11.14.97	1	Percent	95	
Toluene-d8 Reported	8260A		11.14.97	1	Percent	108	
Dibromofluoromethane Rep.	8260A		11.14.97	1	Percent	81	

ACRONYMS AND FLAG DEFINITIONS

Flag Definitions:

*	Duplicate values. Replicate results are entered into the MS/MSD column of the QC report. RPD calculated when sample concentration is at least five times RDL.
B	Blank contamination. Used when associated method blank concentration is greater than the PQL.
J	Estimated value. Used for sample results greater than or equal to MDL, but less than the PQL.
NC	Not calculated. Used when sample result is greater than two times the spike amount added, or when extracted surrogates were diluted below detectable levels.
Q	Quality objectives were not met. Used for Method Blank, Laboratory Control Samples, Matrix Spikes, Matrix Duplicates and Surrogates.

Acronyms:

COC	Chain of Custody
FLG	Flag
LC	Actual LCS/LCSD concentration recovered
LCL	Lower Control Limit
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LT	True LCS/LCSD concentration
MB	Method Blank
MS	Matrix Spike
MSD	Matrix Spike Duplicate
R1	Unspiked sample concentration
RDL	Reporting Detection Limit
%REC	Percent Recovery
Rep.	Surrogate Reported value
RPD	Relative Percent Difference
S1	Actual MS concentration
S2	Actual MSD concentration
T	True concentration of MS/MSD
Theo.	Surrogate Theoretical value
UCL	Upper Control Limit

: ORDER PLACED FOR CLIENT: OHM Remediation Services Corp. 9710387 :
: VOC ANALYTICAL : GLEN LAB : 08:52:46 20 NOV 1997 - P. 1 :

000209 A

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
9710387*1	18609-610	8081,OHM	10.23.97	8081	536-26	97194	8042
		8081,PCB,OHM	10.23.97	8081	536-26	97194	8042
		AL.AF	10.21.97	6010A	535-02	972708	8488
		SB.AF	10.21.97	6010A	535-02	972708	8488
		AS,GFA.AF	10.21.97	7060A	534-07	972710	1002
		BA.AF	10.21.97	6010A	535-02	972708	8488
		BE.AF	10.21.97	6010A	535-02	972708	8488
		CD.AF	10.21.97	6010A	535-02	972708	8488
		CA.AF	10.21.97	6010A	535-02	972708	8488
		CR.AF	10.21.97	6010A	535-02	972708	8488
		CO.AF	10.21.97	6010A	535-02	972708	8488
		CU.AF	10.21.97	6010A	535-02	972708	8488
		FE.AF	10.21.97	6010A	535-02	972708	8488
		PB,GFA.AF	10.21.97	7421	534-07	972710	1002
		MG.AF	10.21.97	6010A	535-02	972708	8488
		MN.AF	10.21.97	6010A	535-02	972708	8488
		HG,SO.AF	10.23.97	7471A	534-06	972737	1003
		NI.AF	10.21.97	6010A	535-02	972708	8488
		K.AF	10.21.97	6010A	535-02	972708	8488
		SE,GFA.AF	10.21.97	7740	534-07	972710	1002
		AG.AF	10.21.97	6010A	535-02	972708	8488
		NA.AF	10.21.97	6010A	535-02	972708	8488
		TL.AF	10.21.97	6010A	535-02	972708	8488
		V.AF	10.21.97	6010A	535-02	972708	8488
		ZN.AF	10.21.97	6010A	535-02	972708	8488
		CN.AF	10.23.97	9010A	533-15	9788	1021
		PH,NA.AF	10.21.97	9045	533-21	9748	8804
		MO.AF	10.21.97	6010A	535-02	972708	8488
		DIG,NAQ.HCL	10.21.97	3050		972708	7093
		DIG,NAQ,GFA	10.21.97	3050		972710	7093
		8270,OHM	10.21.97	8270B	537-11	97208	6750
		DIESEL.3550.OHM	10.22.97	8015M	536-01	97236	8866
		GAS.5030.AF	10.21.97	8015M	536-33	9787064	6843
		MOIST.SOIL	10.23.97	D2216		972790	8651
		8270,OHM.SIM	10.24.97	8270.SIM	537-11	97208	6750
		8260,OHM	10.20.97	8260A	537-02	9787063	8659
		CON,8081,OHM	10.23.97	8081	536-26	97194	8042
)710387*2	18609-612	8081,OHM	10.23.97	8081	536-26	97194	8042
		8081,PCB,OHM	10.23.97	8081	536-26	97194	8042
		AL.AF	10.21.97	6010A	535-02	972708	8488
		SB.AF	10.21.97	6010A	535-02	972708	8488
		AS,GFA.AF	10.22.97	7060A	534-07	972710	1002
		BA.AF	10.21.97	6010A	535-02	972708	8488
		BE.AF	10.21.97	6010A	535-02	972708	8488

Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

AMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
		CD.AF	10.21.97	6010A	535-02	972708	8488
		CA.AF	10.21.97	6010A	535-02	972708	8488
		CR.AF	10.21.97	6010A	535-02	972708	8488
		CO.AF	10.21.97	6010A	535-02	972708	8488
		CU.AF	10.21.97	6010A	535-02	972708	8488
		FE.AF	10.21.97	6010A	535-02	972708	8488
		PB,GFA.AF	10.21.97	7421	534-07	972710	1002
		MG.AF	10.21.97	6010A	535-02	972708	8488
		MN.AF	10.21.97	6010A	535-02	972708	8488
		HG,SO.AF	10.23.97	7471A	534-06	972737	1003
		NI.AF	10.21.97	6010A	535-02	972708	8488
		K.AF	10.21.97	6010A	535-02	972708	8488
		SE,GFA.AF	10.21.97	7740	534-07	972710	1002
		AG.AF	10.21.97	6010A	535-02	972708	8488
		NA.AF	10.21.97	6010A	535-02	972708	8488
		TL.AF	10.21.97	6010A	535-02	972708	8488
		V.AF	10.21.97	6010A	535-02	972708	8488
		ZN.AF	10.21.97	6010A	535-02	972708	8488
		CN.AF	10.23.97	9010A	533-15	9788	1021
		PH,NA.AF	10.21.97	9045	533-21	9748	8804
		MO.AF	10.21.97	6010A	535-02	972708	8488
		DIG,NAQ.HCL	10.21.97	3050		972708	7093
		DIG,NAQ,GFA	10.21.97	3050		972710	7093
		8270,OHM	10.21.97	8270B	537-11	97208	6750
		DIESEL.3550.OHM	10.22.97	8015M	536-01	97236	8866
		GAS.5030.AF	10.21.97	8015M	536-33	9787064	6843
		MOIST.SOIL	10.23.97	D2216		972790	8651
		8260,OHM	10.20.97	8260A	537-02	9787063	8659
		8270,OHM.SIM	10.24.97	8270.SIM	537-11	97208	6750
		CON,8081,OHM	10.23.97	8081	536-26	97194	8042
710387*3	18609-614	8081,OHM	10.23.97	8081	536-26	97194	8042
		8081,PCB,OHM	10.23.97	8081	536-26	97194	8042
		AL.AF	10.21.97	6010A	535-02	972708	8488
		SB.AF	10.21.97	6010A	535-02	972708	8488
		AS,GFA.AF	10.21.97	7060A	534-07	972710	1002
		BA.AF	10.21.97	6010A	535-02	972708	8488
		BE.AF	10.21.97	6010A	535-02	972708	8488
		CD.AF	10.21.97	6010A	535-02	972708	8488
		CA.AF	10.21.97	6010A	535-02	972708	8488
		CR.AF	10.21.97	6010A	535-02	972708	8488
		CO.AF	10.21.97	6010A	535-02	972708	8488
		CU.AF	10.21.97	6010A	535-02	972708	8488
		FE.AF	10.21.97	6010A	535-02	972708	8488
		PB,GFA.AF	10.21.97	7421	534-07	972710	1002

Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

000209C

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
		MG.AF	10.21.97	6010A	535-02	972708	8488
		MN.AF	10.21.97	6010A	535-02	972708	8488
		HG,SO.AF	10.23.97	7471A	534-06	972737	1003
		NI.AF	10.21.97	6010A	535-02	972708	8488
		K.AF	10.21.97	6010A	535-02	972708	8488
		SE,GFA.AF	10.21.97	7740	534-07	972710	1002
		AG.AF	10.21.97	6010A	535-02	972708	8488
		NA.AF	10.21.97	6010A	535-02	972708	8488
		TL.AF	10.21.97	6010A	535-02	972708	8488
		V.AF	10.21.97	6010A	535-02	972708	8488
		ZN.AF	10.21.97	6010A	535-02	972708	8488
		CN.AF	10.23.97	9010A	533-15	9788	1021
		PH,NA.AF	10.21.97	9045	533-21	9748	8804
		MO.AF	10.21.97	6010A	535-02	972708	8488
		DIG,NAQ.HCL	10.21.97	3050		972708	7093
		DIG,NAQ,GFA	10.21.97	3050		972710	7093
		8270,OHM	10.21.97	8270B	537-11	97208	6750
		DIESEL.3550.OHM	10.22.97	8015M	536-01	97236	8866
		GAS.5030.AF	10.21.97	8015M	536-33	9787064	6843
		MOIST.SOIL	10.23.97	D2216		972790	8651
		8260,OHM	10.20.97	8260A	537-02	9787063	8659
		8270,OHM.SIM	10.24.97	8270.SIM	537-11	97208	6750
		CON,8081,OHM	10.23.97	8081	536-26	97194	8042
9710387*4	18609-616	8081,OHM	10.24.97	8081	536-26	97194	8042
		8081,PCB,OHM	10.24.97	8081	536-26	97194	8042
		AL.AF	10.21.97	6010A	535-02	972708	8488
		SB.AF	10.21.97	6010A	535-02	972708	8488
		AS,GFA.AF	10.21.97	7060A	534-07	972710	1002
		BA.AF	10.21.97	6010A	535-02	972708	8488
		BE.AF	10.21.97	6010A	535-02	972708	8488
		CD.AF	10.21.97	6010A	535-02	972708	8488
		CA.AF	10.21.97	6010A	535-02	972708	8488
		CR.AF	10.21.97	6010A	535-02	972708	8488
		CO.AF	10.21.97	6010A	535-02	972708	8488
		CU.AF	10.21.97	6010A	535-02	972708	8488
		FE.AF	10.21.97	6010A	535-02	972708	8488
		PB,GFA.AF	10.21.97	7421	534-07	972710	1002
		MG.AF	10.21.97	6010A	535-02	972708	8488
		MN.AF	10.21.97	6010A	535-02	972708	8488
		HG,SO.AF	10.23.97	7471A	534-06	972737	1003
		NI.AF	10.21.97	6010A	535-02	972708	8488
		K.AF	10.21.97	6010A	535-02	972708	8488
		SE,GFA.AF	10.21.97	7740	534-07	972710	1002
		AG.AF	10.21.97	6010A	535-02	972708	8488

Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
		NA.AF	10.21.97	6010A	535-02	972708	8488
		TL.AF	10.21.97	6010A	535-02	972708	8488
		V.AF	10.21.97	6010A	535-02	972708	8488
		ZN.AF	10.21.97	6010A	535-02	972708	8488
		CN.AF	10.23.97	9010A	533-15	9788	1021
		PH,NA.AF	10.21.97	9045	533-21	9748	8804
		MO.AF	10.21.97	6010A	535-02	972708	8488
		DIG,NAQ.HCL	10.21.97	3050		972708	7093
		DIG,NAQ,GFA	10.21.97	3050		972710	7093
		8270,OHM	10.23.97	8270B	537-11	97208	6750
		DIESEL.3550.OHM	10.22.97	8015M	536-01	97236	8866
		GAS.5030.AF	10.21.97	8015M	536-33	9787064	6843
		MOIST.SOIL	10.23.97	D2216		972790	8651
		8260,OHM	10.20.97	8260A	537-02	9787063	8659
		8270,OHM.SIM	10.24.97	8270.SIM	537-11	97208	6750
		CON,8081,OHM	10.24.97	8081	536-26	97194	8042
9710387*5	18609-618	8081,OHM	10.23.97	8081	536-26	97194	8042
		8081,PCB,OHM	10.23.97	8081	536-26	97194	8042
		AL.AF	10.21.97	6010A	535-02	972708	8488
		SB.AF	10.21.97	6010A	535-02	972708	8488
		AS,GFA.AF	10.21.97	7060A	534-07	972710	1002
		BA.AF	10.21.97	6010A	535-02	972708	8488
		BE.AF	10.21.97	6010A	535-02	972708	8488
		CD.AF	10.21.97	6010A	535-02	972708	8488
		CA.AF	10.21.97	6010A	535-02	972708	8488
		CR.AF	10.21.97	6010A	535-02	972708	8488
		CO.AF	10.21.97	6010A	535-02	972708	8488
		CU.AF	10.21.97	6010A	535-02	972708	8488
		FE.AF	10.21.97	6010A	535-02	972708	8488
		PB,GFA.AF	10.21.97	7421	534-07	972710	1002
		MG.AF	10.21.97	6010A	535-02	972708	8488
		MN.AF	10.21.97	6010A	535-02	972708	8488
		HG,SO.AF	10.23.97	7471A	534-06	972737	1003
		NI.AF	10.21.97	6010A	535-02	972708	8488
		K.AF	10.21.97	6010A	535-02	972708	8488
		SE,GFA.AF	10.21.97	7740	534-07	972710	1002
		AG.AF	10.21.97	6010A	535-02	972708	8488
		NA.AF	10.21.97	6010A	535-02	972708	8488
		TL.AF	10.21.97	6010A	535-02	972708	8488
		V.AF	10.21.97	6010A	535-02	972708	8488
		ZN.AF	10.21.97	6010A	535-02	972708	8488
		CN.AF	10.23.97	9010A	533-15	9788	1021
		PH,NA.AF	10.21.97	9045	533-21	9748	8804
		MO.AF	10.21.97	6010A	535-02	972708	8488

Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

000209 E

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
		DIG,NAQ.HCL	10.21.97	3050		972708	7093
		DIG,NAQ,GFA	10.21.97	3050		972710	7093
		8270,OHM	10.21.97	8270B	537-11	97208	6750
		DIESEL.3550.OHM	10.22.97	8015M	536-01	97236	8866
		GAS.5030.AF	10.21.97	8015M	536-33	9787064	6843
		MOIST.SOIL	10.23.97	D2216		972790	8651
		8270,OHM.SIM	10.24.97	8270.SIM	537-11	97208	6750
		8260,OHM	10.23.97	8260A	537-02	9787068	8659
		CON,8081,OHM	10.23.97	8081	536-26	97194	8042
9710387*6	18609-620	8081,OHM	10.23.97	8081	536-26	97194	8042
		8081,PCB,OHM	10.23.97	8081	536-26	97194	8042
		AL.AF	10.21.97	6010A	535-02	972708	8488
		SB.AF	10.21.97	6010A	535-02	972708	8488
		AS,GFA.AF	10.21.97	7060A	534-07	972710	1002
		BA.AF	10.21.97	6010A	535-02	972708	8488
		BE.AF	10.21.97	6010A	535-02	972708	8488
		CD.AF	10.21.97	6010A	535-02	972708	8488
		CA.AF	10.21.97	6010A	535-02	972708	8488
		CR.AF	10.21.97	6010A	535-02	972708	8488
		CO.AF	10.21.97	6010A	535-02	972708	8488
		CU.AF	10.21.97	6010A	535-02	972708	8488
		FE.AF	10.21.97	6010A	535-02	972708	8488
		PB,GFA.AF	10.21.97	7421	534-07	972710	1002
		MG.AF	10.21.97	6010A	535-02	972708	8488
		MN.AF	10.21.97	6010A	535-02	972708	8488
		HG,SO.AF	10.23.97	7471A	534-06	972737	1003
		NI.AF	10.21.97	6010A	535-02	972708	8488
		K.AF	10.21.97	6010A	535-02	972708	8488
		SE,GFA.AF	10.21.97	7740	534-07	972710	1002
		AG.AF	10.21.97	6010A	535-02	972708	8488
		NA.AF	10.21.97	6010A	535-02	972708	8488
		TL.AF	10.21.97	6010A	535-02	972708	8488
		V.AF	10.21.97	6010A	535-02	972708	8488
		ZN.AF	10.21.97	6010A	535-02	972708	8488
		CN.AF	10.23.97	9010A	533-15	9788	1021
		PH,NA.AF	10.21.97	9045	533-21	9748	8804
		MO.AF	10.21.97	6010A	535-02	972708	8488
		DIG,NAQ.HCL	10.21.97	3050		972708	7093
		DIG,NAQ,GFA	10.21.97	3050		972710	7093
		8270,OHM	10.23.97	8270B	537-11	97208	6750
		DIESEL.3550.OHM	10.22.97	8015M	536-01	97236	8866
		GAS.5030.AF	10.21.97	8015M	536-33	9787064	6843
		MOIST.SOIL	10.23.97	D2216		972790	8651
		8270,OHM.SIM	10.25.97	8270.SIM	537-11	97208	6750

Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

ORDER PLACED FOR CLIENT: OHM Remediation Services Corp. 9710387 :
VOC ANALYTICAL : GLEN LAB : 08:52:47 20 NOV 1997 - P. 6 :

000209 F

AMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
		8260,OHM	10.23.97	8260A	537-02	9787068	8659
		CON,8081,OHM	10.23.97	8081	536-26	97194	8042
710387*7	18609-622	8081,OHM	10.24.97	8081	536-26	97194	8042
		8081,PCB,OHM	10.24.97	8081	536-26	97194	8042
		AL.AF	10.21.97	6010A	535-02	972708	8488
		SB.AF	10.21.97	6010A	535-02	972708	8488
		AS,GFA.AF	10.21.97	7060A	534-07	972710	1002
		BA.AF	10.21.97	6010A	535-02	972708	8488
		BE.AF	10.21.97	6010A	535-02	972708	8488
		CD.AF	10.21.97	6010A	535-02	972708	8488
		CA.AF	10.21.97	6010A	535-02	972708	8488
		CR.AF	10.21.97	6010A	535-02	972708	8488
		CO.AF	10.21.97	6010A	535-02	972708	8488
		CU.AF	10.21.97	6010A	535-02	972708	8488
		FE.AF	10.21.97	6010A	535-02	972708	8488
		PB,GFA.AF	10.21.97	7421	534-07	972710	1002
		MG.AF	10.21.97	6010A	535-02	972708	8488
		MN.AF	10.21.97	6010A	535-02	972708	8488
		HG,SO.AF	10.23.97	7471A	534-06	972737	1003
		NI.AF	10.21.97	6010A	535-02	972708	8488
		K.AF	10.21.97	6010A	535-02	972708	8488
		SE,GFA.AF	10.21.97	7740	534-07	972710	1002
		AG.AF	10.21.97	6010A	535-02	972708	8488
		NA.AF	10.21.97	6010A	535-02	972708	8488
		TL.AF	10.21.97	6010A	535-02	972708	8488
		V.AF	10.21.97	6010A	535-02	972708	8488
		ZN.AF	10.21.97	6010A	535-02	972708	8488
		CN.AF	10.23.97	9010A	533-15	9788	1021
		PH,NA.AF	10.21.97	9045	533-21	9748	8804
		MO.AF	10.21.97	6010A	535-02	972708	8488
		DIG,NAQ.HCL	10.21.97	3050		972708	7093
		DIG,NAQ,GFA	10.21.97	3050		972710	7093
		8270,OHM	10.23.97	8270B	537-11	97208	6750
		DIESEL.3550.OHM	10.22.97	8015M	536-01	97236	8866
		GAS.5030.AF	10.21.97	8015M	536-33	9787064	6843
		MOIST.SOIL	10.23.97	D2216		972790	8651
		8270,OHM.SIM	10.25.97	8270.SIM	537-11	97208	6750
		8260,OHM	10.23.97	8260A	537-02	9787068	8659
		CON,8081,OHM	10.24.97	8081	536-26	97194	8042
710387*8	18609-624	8081,OHM	10.24.97	8081	536-26	97194	8042
		8081,PCB,OHM	10.24.97	8081	536-26	97194	8042
		AL.AF	10.21.97	6010A	535-02	972708	8488
		SB.AF	10.21.97	6010A	535-02	972708	8488
		AS,GFA.AF	10.21.97	7060A	534-07	972710	1002

Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

000209G

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
		BA.AF	10.21.97	6010A	535-02	972708	8488
		BE.AF	10.21.97	6010A	535-02	972708	8488
		CD.AF	10.21.97	6010A	535-02	972708	8488
		CA.AF	10.21.97	6010A	535-02	972708	8488
		CR.AF	10.21.97	6010A	535-02	972708	8488
		CO.AF	10.21.97	6010A	535-02	972708	8488
		CU.AF	10.21.97	6010A	535-02	972708	8488
		FE.AF	10.21.97	6010A	535-02	972708	8488
		PB,GFA.AF	10.22.97	7421	534-07	972710	1002
		MG.AF	10.21.97	6010A	535-02	972708	8488
		MN.AF	10.21.97	6010A	535-02	972708	8488
		HG,SO.AF	10.23.97	7471A	534-06	972737	1003
		NI.AF	10.21.97	6010A	535-02	972708	8488
		K.AF	10.21.97	6010A	535-02	972708	8488
		SE,GFA.AF	10.21.97	7740	534-07	972710	1002
		AG.AF	10.21.97	6010A	535-02	972708	8488
		NA.AF	10.21.97	6010A	535-02	972708	8488
		TL.AF	10.21.97	6010A	535-02	972708	8488
		V.AF	10.21.97	6010A	535-02	972708	8488
		ZN.AF	10.21.97	6010A	535-02	972708	8488
		CN.AF	10.23.97	9010A	533-15	9788	1021
		PH,NA.AF	10.21.97	9045	533-21	9748	8804
		MO.AF	10.21.97	6010A	535-02	972708	8488
		DIG,NAQ.HCL	10.21.97	3050		972708	7093
		DIG,NAQ,GFA	10.21.97	3050		972710	7093
		8270,OHM	10.23.97	8270B	537-11	97208	6750
		DIESEL.3550.OHM	10.22.97	8015M	536-01	97236	8866
		GAS.5030.AF	10.22.97	8015M	536-33	9787064	6843
		MOIST.SOIL	10.23.97	D2216		972790	8651
		8270,OHM.SIM	10.25.97	8270.SIM	537-11	97208	6750
		8260,OHM	10.23.97	8260A	537-02	9787068	8659
		CON,8081,OHM	10.24.97	8081	536-26	97194	8042
)710387*9	18609-626	8081,OHM	10.23.97	8081	536-26	97194	8042
		8081,PCB,OHM	10.23.97	8081	536-26	97194	8042
		AL.AF	10.21.97	6010A	535-02	972708	8488
		SB.AF	10.21.97	6010A	535-02	972708	8488
		AS,GFA.AF	10.21.97	7060A	534-07	972710	1002
		BA.AF	10.21.97	6010A	535-02	972708	8488
		BE.AF	10.21.97	6010A	535-02	972708	8488
		CD.AF	10.21.97	6010A	535-02	972708	8488
		CA.AF	10.21.97	6010A	535-02	972708	8488
		CR.AF	10.21.97	6010A	535-02	972708	8488
		CO.AF	10.21.97	6010A	535-02	972708	8488
		CU.AF	10.21.97	6010A	535-02	972708	8488

Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
		FE.AF	10.21.97	6010A	535-02	972708	8488
		PB,GFA.AF	10.21.97	7421	534-07	972710	1002
		MG.AF	10.21.97	6010A	535-02	972708	8488
		MN.AF	10.21.97	6010A	535-02	972708	8488
		HG,SO.AF	10.23.97	7471A	534-06	972737	1003
		NI.AF	10.21.97	6010A	535-02	972708	8488
		K.AF	10.21.97	6010A	535-02	972708	8488
		SE,GFA.AF	10.21.97	7740	534-07	972710	1002
		AG.AF	10.21.97	6010A	535-02	972708	8488
		NA.AF	10.21.97	6010A	535-02	972708	8488
		TL.AF	10.21.97	6010A	535-02	972708	8488
		V.AF	10.21.97	6010A	535-02	972708	8488
		ZN.AF	10.21.97	6010A	535-02	972708	8488
		CN.AF	10.23.97	9010A	533-15	9788	1021
		PH,NA.AF	10.21.97	9045	533-21	9748	8804
		MO.AF	10.21.97	6010A	535-02	972708	8488
		DIG,NAQ.HCL	10.21.97	3050		972708	7093
		DIG,NAQ,GFA	10.21.97	3050		972710	7093
		8270,OHM	10.23.97	8270B	537-11	97208	6750
		DIESEL.3550.OHM	10.22.97	8015M	536-01	97236	8866
		GAS.5030.AF	10.22.97	8015M	536-33	9787064	6843
		MOIST.SOIL	10.23.97	D2216		972790	8651
		8270,OHM.SIM	10.25.97	8270.SIM	537-11	97208	6750
		8260,OHM	10.23.97	8260A	537-02	9787068	8659
		CON,8081,OHM	10.23.97	8081	536-26	97194	8042
9710387*10	18609-628	8081,OHM	10.23.97	8081	536-26	97194	8042
		8081,PCB,OHM	10.23.97	8081	536-26	97194	8042
		AL.AF	10.21.97	6010A	535-02	972708	8488
		SB.AF	10.21.97	6010A	535-02	972708	8488
		AS,GFA.AF	10.22.97	7060A	534-07	972710	1002
		BA.AF	10.21.97	6010A	535-02	972708	8488
		BE.AF	10.21.97	6010A	535-02	972708	8488
		CD.AF	10.21.97	6010A	535-02	972708	8488
		CA.AF	10.21.97	6010A	535-02	972708	8488
		CR.AF	10.21.97	6010A	535-02	972708	8488
		CO.AF	10.21.97	6010A	535-02	972708	8488
		CU.AF	10.21.97	6010A	535-02	972708	8488
		FE.AF	10.21.97	6010A	535-02	972708	8488
		PB,GFA.AF	10.21.97	7421	534-07	972710	1002
		MG.AF	10.21.97	6010A	535-02	972708	8488
		MN.AF	10.21.97	6010A	535-02	972708	8488
		HG,SO.AF	10.23.97	7471A	534-06	972737	1003
		NI.AF	10.21.97	6010A	535-02	972708	8488
		K.AF	10.21.97	6010A	535-02	972708	8488

Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

000209 I

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
		SE,GFA.AF	10.21.97	7740	534-07	972710	1002
		AG.AF	10.21.97	6010A	535-02	972708	8488
		NA.AF	10.21.97	6010A	535-02	972708	8488
		TL.AF	10.21.97	6010A	535-02	972708	8488
		V.AF	10.21.97	6010A	535-02	972708	8488
		ZN.AF	10.21.97	6010A	535-02	972708	8488
		CN.AF	10.23.97	9010A	533-15	9788	1021
		PH,NA.AF	10.21.97	9045	533-21	9748	8804
		MO.AF	10.21.97	6010A	535-02	972708	8488
		DIG,NAQ.HCL	10.21.97	3050		972708	7093
		DIG,NAQ,GFA	10.21.97	3050		972710	7093
		8270,OHM	10.23.97	8270B	537-11	97208	6750
		DIESEL.3550.OHM	10.23.97	8015M	536-01	97236	8866
		GAS.5030.AF	10.22.97	8015M	536-33	9787066	6843
		MOIST.SOIL	10.23.97	D2216		972790	8651
		8270,OHM.SIM	10.25.97	8270.SIM	537-11	97208	6750
		8260,OHM	10.23.97	8260A	537-02	9787068	8659
		CON,8081,OHM	10.23.97	8081	536-26	97194	8042
)710387*11	18609-630	8081,OHM	10.24.97	8081	536-26	97194	8042
		8081,PCB,OHM	10.24.97	8081	536-26	97194	8042
		AL.AF	10.21.97	6010A	535-02	972708	8488
		SB.AF	10.21.97	6010A	535-02	972708	8488
		AS,GFA.AF	10.22.97	7060A	534-07	972710	1002
		BA.AF	10.21.97	6010A	535-02	972708	8488
		BE.AF	10.21.97	6010A	535-02	972708	8488
		CD.AF	10.21.97	6010A	535-02	972708	8488
		CA.AF	10.21.97	6010A	535-02	972708	8488
		CR.AF	10.21.97	6010A	535-02	972708	8488
		CO.AF	10.21.97	6010A	535-02	972708	8488
		CU.AF	10.21.97	6010A	535-02	972708	8488
		FE.AF	10.21.97	6010A	535-02	972708	8488
		PB,GFA.AF	10.21.97	7421	534-07	972710	1002
		MG.AF	10.21.97	6010A	535-02	972708	8488
		MN.AF	10.21.97	6010A	535-02	972708	8488
		HG,SO.AF	10.23.97	7471A	534-06	972737	1003
		NI.AF	10.21.97	6010A	535-02	972708	8488
		K.AF	10.21.97	6010A	535-02	972708	8488
		SE,GFA.AF	10.21.97	7740	534-07	972710	1002
		AG.AF	10.21.97	6010A	535-02	972708	8488
		NA.AF	10.21.97	6010A	535-02	972708	8488
		TL.AF	10.21.97	6010A	535-02	972708	8488
		V.AF	10.21.97	6010A	535-02	972708	8488
		ZN.AF	10.21.97	6010A	535-02	972708	8488
		CN.AF	10.23.97	9010A	533-15	9788	1021

Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

000209J

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
		PH,NA.AF	10.21.97	9045	533-21	9748	8804
		MO.AF	10.21.97	6010A	535-02	972708	8488
		DIG,NAQ.HCL	10.21.97	3050		972708	7093
		DIG,NAQ,GFA	10.21.97	3050		972710	7093
		8270,OHM	10.23.97	8270B	537-11	97208	6750
		DIESEL.3550.OHM	10.23.97	8015M	536-01	97236	8866
		GAS.5030.AF	10.22.97	8015M	536-33	9787066	6843
		MOIST.SOIL	10.23.97	D2216		972790	8651
		8270,OHM.SIM	10.25.97	8270.SIM	537-11	97208	6750
		8260,OHM	10.23.97	8260A	537-02	9787068	8659
		CON,8081,OHM	10.24.97	8081	536-26	97194	8042
9710387*12	18609-632	8081,OHM	10.24.97	8081	536-26	97194	8042
		8081,PCB,OHM	10.24.97	8081	536-26	97194	8042
		AL.AF	10.21.97	6010A	535-02	972708	8488
		SB.AF	10.21.97	6010A	535-02	972708	8488
		AS,GFA.AF	10.22.97	7060A	534-07	972710	1002
		BA.AF	10.21.97	6010A	535-02	972708	8488
		BE.AF	10.21.97	6010A	535-02	972708	8488
		CD.AF	10.21.97	6010A	535-02	972708	8488
		CA.AF	10.21.97	6010A	535-02	972708	8488
		CR.AF	10.21.97	6010A	535-02	972708	8488
		CO.AF	10.21.97	6010A	535-02	972708	8488
		CU.AF	10.21.97	6010A	535-02	972708	8488
		FE.AF	10.21.97	6010A	535-02	972708	8488
		PB,GFA.AF	10.21.97	7421	534-07	972710	1002
		MG.AF	10.21.97	6010A	535-02	972708	8488
		MN.AF	10.21.97	6010A	535-02	972708	8488
		HG,SO.AF	10.23.97	7471A	534-06	972737	1003
		NI.AF	10.21.97	6010A	535-02	972708	8488
		K.AF	10.21.97	6010A	535-02	972708	8488
		SE,GFA.AF	10.21.97	7740	534-07	972710	1002
		AG.AF	10.21.97	6010A	535-02	972708	8488
		NA.AF	10.21.97	6010A	535-02	972708	8488
		TL.AF	10.21.97	6010A	535-02	972708	8488
		V.AF	10.21.97	6010A	535-02	972708	8488
		ZN.AF	10.21.97	6010A	535-02	972708	8488
		CN.AF	10.23.97	9010A	533-15	9788	1021
		PH,NA.AF	10.21.97	9045	533-21	9748	8804
		MO.AF	10.21.97	6010A	535-02	972708	8488
		DIG,NAQ.HCL	10.21.97	3050		972708	7093
		DIG,NAQ,GFA	10.21.97	3050		972710	7093
		8270,OHM	10.23.97	8270B	537-11	97208	6750
		DIESEL.3550.OHM	10.23.97	8015M	536-01	97236	8866
		GAS.5030.AF	10.22.97	8015M	536-33	9787066	6843

Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

: ORDER PLACED FOR CLIENT: OHM Remediation Services Corp. 9710387 :
: VOC ANALYTICAL : GLEN LAB : 12:20:50 20 NOV 1997 - P. 11 :

000209 K

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
		MOIST.SOIL	10.23.97	D2216		972790	8651
		8270,OHM.SIM	10.25.97	8270.SIM	537-11	97208	6750
		8260,OHM	10.23.97	8260A	537-02	9787068	8659
		CON,8081,OHM	10.24.97	8081	536-26	97194	8042
9710387*13	18609-611	MOIST.SOIL	10.23.97	D2216		972790	8651
		8260,OHM	10.23.97	8260A	537-02	9787068	8659
9710387*14	18609-613	MOIST.SOIL	10.23.97	D2216		972790	8651
		8260,OHM	10.23.97	8260A	537-02	9787068	8659
9710387*16	18609-617	8260,OHM	10.23.97	8260A	537-02	9787068	8659
		MOIST.SOIL	10.23.97	D2216		972790	8651
9710387*17	18609-619	8260,OHM	10.23.97	8260A	537-02	9787068	8659
		MOIST.SOIL	10.23.97	D2216		972790	8651
9710387*18	18609-621	8260,OHM	10.24.97	8260A	537-02	9787068	8659
		MOIST.SOIL	10.23.97	D2216		972790	8651
9710387*19	18609-623	8260,OHM	10.24.97	8260A	537-02	9787068	8659
		MOIST.SOIL	10.23.97	D2216		972790	8651
9710387*20	18609-625	8260,OHM	10.24.97	8260A	537-02	9787068	8659
		MOIST.SOIL	10.23.97	D2216		972790	8651
9710387*21	18609-627	8260,OHM	10.23.97	8260A	537-02	9787068	8659
		MOIST.SOIL	10.23.97	D2216		972796	8651
9710387*22	18609-629	8260,OHM	10.23.97	8260A	537-02	9787068	8659
		MOIST.SOIL	10.23.97	D2216		972796	8651
9710387*23	18609-631	8260,OHM	10.24.97	8260A	537-02	9787068	8659
		MOIST.SOIL	10.23.97	D2216		972796	8651
97[illegible]37*24	18609-633	8260,OHM	10.24.97	8260A	537-02	9787068	8659
		MOIST.SOIL	10.23.97	D2216		972796	8651
9710387*15	18609-615	8260,OHM	10.22.97	8260A	537-02	9787065	8659
		MOIST.SOIL	10.23.97	D2216		972790	8651
9710387*25	18609-637A	DIESEL.3520.OHM	10.22.97	8015M	536-01	97234	8866
		GAS.5030.AF	10.22.97	8015M	536-23	975143	7424
		VOA,8260.OHM	10.21.97	8260A	537-01	971169	7430
9710387*26	18609-636	GAS.5030.AF	10.22.97	8015M	536-23	975143	7424
		VOA,8260.OHM	10.21.97	8260A	537-01	971169	7430

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Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

VOC ANALYTICAL, GLENDALE
QC REPORT FOR 9710387
DATE PRINTED: 18 NOV 1997

AQUEOUS SAMPLES

Batch: VOA,8260*971169 Method: 8260A - Volatile Organics, GCMS

		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
1,1,1-Trichloroethane	ug/L	0	5	-	81	-	72	-	71	132	12	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	0	5	-	102	-	104	-	50	134	2	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/L	0	5	-	107	-	101	-	67	133	6	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	0	5	-	93	-	96	-	49	135	3	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/L	0	5	-	84	-	86	-	75	125	1	20	-	76	-	69	Q	75	125	10	20	-
1,2-Dichloroethane	ug/L	0	5	-	93	-	92	-	68	129	1	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	0	5	-	90	-	92	-	68	127	2	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethylvinylether	ug/L	0	50	-	188	-	169	-	1	214	11	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	ug/L	0	50	-	99	-	116	-	20	149	15	-	-	-	-	-	-	-	-	-	-	-
Acetone	ug/L	6.7	50	-	107	-	106	-	32	176	0	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	0	5	-	96	-	95	-	69	132	1	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	ug/L	0	5	-	90	-	90	-	55	146	0	-	-	-	-	-	-	-	-	-	-	-
Benzene	ug/L	0	5	-	87	-	85	-	75	125	3	20	-	81	-	79	-	75	125	2	20	-
Bromoform	ug/L	0	5	-	113	-	105	-	53	148	8	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	ug/L	0	5	-	99	-	93	-	75	125	5	20	-	92	-	93	-	75	125	2	20	-
Carbon Tetrachloride	ug/L	0	5	-	87	-	79	-	70	140	9	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	0	5	-	103	-	98	-	52	137	5	-	-	-	-	-	-	-	-	-	-	-
Chloroform	ug/L	0	5	-	97	-	93	-	77	128	5	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	ug/L	0	5	-	100	-	100	-	37	129	0	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	ug/L	0	5	-	75	-	74	-	37	140	1	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	0	5	-	99	-	98	-	65	142	1	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	0	5	-	94	-	91	-	80	135	3	-	-	-	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/L	0	50	-	118	-	129	-	5	153	8	-	-	-	-	-	-	-	-	-	-	-
Methyl isobutyl ketone	ug/L	0	50	-	105	-	103	-	16	150	2	-	-	-	-	-	-	-	-	-	-	-
Methyl-tert-butylether	ug/L	0	10	-	97	-	98	-	39	148	2	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/L	0	5	-	94	-	100	-	51	139	6	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	0	5	-	98	-	92	-	80	129	6	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	ug/L	0	5	-	94	-	89	-	71	125	6	20	-	87	-	86	-	71	125	1	20	-
Toluene	ug/L	0	5	-	96	-	88	-	74	125	9	20	-	85	-	86	-	74	125	0	20	-
Tetrachloroethene	ug/L	0	5	-	103	-	91	-	67	145	12	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	ug/L	0	50	-	111	-	86	-	24	143	25	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	0	5	-	98	-	95	-	48	140	3	-	-	-	-	-	-	-	-	-	-	-
Total Xylene Isomers	ug/L	0	15	-	95	-	89	-	79	136	6	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	0	5	-	97	-	90	-	54	143	7	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	0	5	-	96	-	88	-	66	129	9	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	0	5	-	86	-	86	-	48	134	0	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	0	5	-	102	-	[illegible]	-	66	130	11	-	-	-	-	-	-	-	-	-	-	-

VOC ANA[illegible]TICAL, GLENDALE
QC REP[illegible] [illegible]OR 9710387
DATE PRINTED: 18 NOV 1997

030211

AQUEOUS SAMPLES		METHOD BLANK			LAB CONTROL									MATRIX QC									
					LCS		LCSD				RPD	RPD		MS		MSD				RPD	RPD		
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	
Batch: VOA,8260*971169 Method: 8260A - Volatile Organics, GCMS, con't																							
[1,2-Dichloroethane-d4]	Percent	92	-	-	96	-	89	-	62	139	-	-	-	-	-	-	-	-	-	-	-	-	
[4-Bromofluorobenzene]	Percent	83	-	-	88	-	89	-	75	125	-	-	-	83	-	83	-	75	125	-	-	-	
[Toluene-d8]	Percent	91	-	-	86	-	89	-	75	125	-	-	-	88	-	89	-	75	125	-	-	-	
[Dibromofluoromethane]	Percent	90	-	-	87	-	85	-	75	125	-	-	-	86	-	83	-	75	125	-	-	-	
Batch: GAS*975143 Method: 8015M - Modified 8015																							
TPH (Gasoline Range)	mg/L	0	0.1	-	96	-	-	-	67	136	-	-	-	92	-	95	-	67	136	3	30	-	
[a,a,a-Trifluorotoluene]	Percent	112	-	-	99	-	-	-	76	126	-	-	-	104	-	106	-	76	126	-	-	-	
Batch: DIESEL*97234 Method: 8015M - Modified 8015																							
TPH (Diesel Range)	mg/L	0	0.5	-	101	-	105	-	61	143	4	30	-	-	-	-	-	-	-	-	-	-	
JP-5	mg/L	0	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
[Naphthalene]	Percent	85	-	-	82	-	67	-	55	127	-	-	-	-	-	-	-	-	-	-	-	-	
[o-Terphenyl]	Percent	98	-	-	129	-	127	-	57	132	-	-	-	-	-	-	-	-	-	-	-	-	

00212

NON-AQUEOUS SAMPLES		METHOD BLANK			LAB CONTROL									MATRIX QC									
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD	
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	
Batch: PH,NA*9748 Method: 9045 - Soil pH																		(Matrix QC on basis of 30.0% moisture.)					
pH	Units	-	-	-	100	-	100	-	99	101	0	20	-	9.0	*	8.8	*	-	-	2	20	-	
Batch: CN*9788 Method: 9010A - Cyanide, Colorimetric, Manual																		(Matrix QC on basis of 11.0% moisture.)					
Total Cyanide	mg/kg	0.0181	0.5	-	95	-	97	-	85	115	2	-	-	97	-	102	-	69	134	5	30	-	
Batch: PB,GFA*972710 Method: 7421 - Lead, AA, Furnace																		(Matrix QC on basis of 11.0% moisture.)					
Lead	mg/kg	0	0.3	-	100	-	100	-	74	124	0	-	-	100	-	89	-	74	124	7	25	-	
Batch: SE,GFA*972710 Method: 7740 - Selenium, AA, Furnace																		(Matrix QC on basis of 11.0% moisture.)					
Selenium	mg/kg	0	0.5	-	93	-	91	-	73	122	2	-	-	15	Q	19	Q	73	122	18	25	-	
Batch: AG*972708 Method: 6010A - ICAP Metals																		(Matrix QC on basis of 11.0% moisture.)					
Silver	mg/kg	0	1	-	106	-	103	-	80	120	3	25	-	79	Q	82	-	80	120	3	25	-	
Aluminum	mg/kg	8.3	50	-	95	-	-	-	80	120	-	-	-	-	NC	-	NC	80	120	-	25	NC	
Barium	mg/kg	0	1	-	100	-	102	-	80	120	2	25	-	69	Q	84	-	80	120	6	25	-	
Beryllium	mg/kg	0.02	0.2	-	99	-	99	-	80	120	0	25	-	99	-	100	-	80	120	1	25	-	
Calcium	mg/kg	11	100	-	103	-	105	-	80	120	2	25	-	107	-	107	-	80	120	0	25	-	
Cadmium	mg/kg	0	0.5	-	103	-	104	-	80	120	2	25	-	91	-	93	-	80	120	2	25	-	
Cobalt	mg/kg	0	1	-	102	-	105	-	80	120	3	25	-	98	-	99	-	80	120	1	25	-	
Chromium	mg/kg	0	1	-	99	-	101	-	80	120	2	25	-	100	-	98	-	80	120	2	25	-	
Copper	mg/kg	0.4	1	-	98	-	99	-	80	120	2	25	-	95	-	83	-	80	120	9	25	-	
Iron	mg/kg	3.6	5	-	104	-	-	-	80	120	-	-	-	-	NC	-	NC	80	120	-	25	NC	
Potassium	mg/kg	0	100	-	98	-	100	-	80	120	2	25	-	-	NC	-	NC	80	120	-	25	NC	
Magnesium	mg/kg	7.3	100	-	103	-	105	-	80	120	2	25	-	125	Q	118	-	80	120	3	25	-	
Manganese	mg/kg	0	2	-	102	-	104	-	80	120	2	25	-	-	NC	-	NC	80	120	-	25	NC	
Molybdenum	mg/kg	0.8	2	-	99	-	102	-	80	120	3	25	-	93	-	97	-	80	120	4	25	-	
Sodium	mg/kg	5.4	100	-	103	-	105	-	80	120	2	25	-	101	-	106	-	80	120	5	25	-	
Nickel	mg/kg	0	2	-	106	-	105	-	80	120	1	25	-	102	-	102	-	80	120	0	25	-	
Antimony	mg/kg	0	5	-	100	-	101	-	80	120	1	25	-	90	-	91	-	80	120	1	25	-	
Thallium	mg/kg	0	5	-	99	-	100	-	80	120	1	25	-	98	-	100	-	80	120	2	25	-	
Vanadium	mg/kg	0.6	1	-	97	-	100	-	80	120	3	25	-	100	-	99	-	80	120	1	25	-	
Zinc	mg/kg	0.7	1	-	105	-	104	-	80	120	1	25	-	109	-	96	-	80	120	6	25	-	
Batch: AS,GFA*972710 Method: 7060A - Arsenic, AA, Furnace																		(Matrix QC on basis of 11.0% moisture.)					
Arsenic	mg/kg	0	0.5	-	105	-	101	-	74	120	4	-	-	69	Q	59	Q	74	120	9	15	-	
Batch: HG,SO*972737 Method: 7471A - Mercury (Solids), Cold Vapor AA, Manual																		(Matrix QC on basis of 11.0% moisture.)					
Mercury	mg/kg	0.007	0.08	-	96	-	8	-	77	120	10	25	-	91	-	75	Q	77	120	20	25		

VOC ANALYTICAL, GLENDALE
QC REPORT FOR 9710387
DATE PRINTED: 18 NOV 1997

000213

NON-AQUEOUS SAMPLES

		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD					RPD	RPD	MS		MSD				RPD	RPD	
		UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: MOIST*972790	Method: D2216 - Percent solid																						(Matrix QC on basis of 30.0% moisture.)
-Moisture/TNFR		Percent	0	-	-	-	-	-	-	-	-	-	-	-	30	*	20	*	-	-	40	26	Q
Batch: MOIST*972796	Method: D2216 - Percent solid																						(Matrix QC on basis of 5.5% moisture.)
-Moisture/TNFR		Percent	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
															5.5	*	5.6	*	-	-	2	26	-

000214

NON-AQUEOUS SAMPLES

Batch: 8260,OHM*9787063 Method: 8260A - Volatile Organics, GCMS

(Matrix QC on basis of 5.5% moisture.)

		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
1,1,1-Trichloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/kg	0	5	-	77	-	70	-	65	135	10	30	-	64	Q	62	Q	65	135	3	30	-
1,2-Dichloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethylvinylether	ug/kg	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	ug/kg	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ug/kg	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	ug/kg	0	5	-	85	-	79	-	65	135	8	30	-	81	-	77	-	65	135	4	30	-
Bromoform	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	ug/kg	0	5	-	93	-	86	-	65	135	7	30	-	88	-	83	-	65	135	5	30	-
Carbon Tetrachloride	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/kg	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl isobutyl ketone	ug/kg	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl-tert-butylether	ug/kg	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	ug/kg	0	5	-	95	-	86	-	61	135	9	30	-	90	-	86	-	61	135	5	30	-
Toluene	ug/kg	0	5	-	98	-	92	-	64	135	7	30	-	94	-	90	-	64	135	4	30	-
Tetrachloroethene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	ug/kg	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Xylene Isomers	ug/kg	0	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

000215

NON-AQUEOUS SAMPLES		METHOD BLANK			LAB CONTROL									MATRIX QC									
					LCS		LCSD				RPD	RPD		MS		MSD				RPD	RPD	
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: 8260,OHM*9787063 Method: 8260A - Volatile Organics, GCMS, con't																(Matrix QC on basis of 5.5% moisture.)						
[1,2-Dichloroethane-d4]	Percent	92	-	-	94	-	86	-	52	149	-	-	-	86	-	78	-	52	149	-	-	-
[4-Bromofluorobenzene]	Percent	96	-	-	99	-	91	-	65	135	-	-	-	98	-	93	-	65	135	-	-	-
[Toluene-d8]	Percent	95	-	-	100	-	92	-	65	135	-	-	-	94	-	91	-	65	135	-	-	-
[Dibromofluoromethane]	Percent	113	-	-	109	-	101	-	65	135	-	-	-	110	-	102	-	65	135	-	-	-
Batch: GAS*9787064 Method: 8015M - Modified 8015																						
TPH (Gasoline Range)	mg/kg	0	10	-	95	-	-	-	57	146	-	-	-	94	-	87	-	57	146	7	50	-
[a,a,a-Trifluorotoluene]	Percent	104	-	-	105	-	-	-	71	131	-	-	-	110	-	116	-	71	131	-	-	-

000216

NON-AQUEOUS SAMPLES

Batch: 8260,OHM*9787065 Method: 8260A - Volatile Organics, GCMS (Matrix QC on basis of 11.0% moisture.)

		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD					RPD	RPD	MS		MSD				RPD	RPD	
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
1,1,1-Trichloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/kg	0	5	-	100	-	101	-	65	135	0	30	-	100	-	107	-	65	135	7	30	-
1,2-Dichloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethylvinylether	ug/kg	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	ug/kg	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ug/kg	28	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	ug/kg	0	5	-	87	-	87	-	65	135	0	30	-	91	-	95	-	65	135	4	30	-
Bromoform	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	ug/kg	0	5	-	85	-	89	-	65	135	5	30	-	91	-	95	-	65	135	5	30	-
Carbon Tetrachloride	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	NC	-	NC	-	-	-	-	NC
Dibromochloromethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/kg	2.5	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl isobutyl ketone	ug/kg	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl-tert-butylether	ug/kg	1.5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	ug/kg	0	5	-	91	-	94	-	61	135	3	30	-	96	-	102	-	61	135	6	30	-
Toluene	ug/kg	0	5	-	95	-	97	-	64	135	1	30	-	99	-	104	-	64	135	5	30	-
Tetrachloroethene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	ug/kg	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Xylene Isomers	ug/kg	0	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NON-AQUEOUS SAMPLES

		------ METHOD BLANK ------			---------- LAB CONTROL ----------									---------- MATRIX QC ----------								
					LCS		LCSD				RPD	RPD		MS		MSD				RPD	RPD	
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: 8260,OHM*9787065 Method: 8260A - Volatile Organics, GCMS, con't																		(Matrix QC on basis of 11.0% moisture.)				
[1,2-Dichloroethane-d4]	Percent	89	-	-	89	-	89	-	52	149	-	-	-	82	-	79	-	52	149	-	-	-
[4-Bromofluorobenzene]	Percent	101	-	-	89	-	92	-	65	135	-	-	-	100	-	100	-	65	135	-	-	-
[Toluene-d8]	Percent	96	-	-	94	-	97	-	65	135	-	-	-	98	-	108	-	65	135	-	-	-
[Dibromofluoromethane]	Percent	119	-	-	109	-	109	-	65	135	-	-	-	114	-	113	-	65	135	-	-	-
Batch: GAS*9787066 Method: 8015M - Modified 8015																		(Matrix QC on basis of 11.0% moisture.)				
TPH (Gasoline Range)	mg/kg	0.0087	10	-	94	-	100	-	57	146	7	50	-	74	-	90	-	57	146	19	50	-
[a,a,a-Trifluorotoluene]	Percent	113	-	-	113	-	107	-	71	131	-	-	-	120	-	128	-	71	131	-	-	-

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NON-AQUEOUS SAMPLES

Batch: 8260,OHM*9787068 Method: 8260A - Volatile Organics, GCMS

(Matrix QC on basis of 4.8% moisture.)

		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD					RPD	RPD	MS		MSD				RPD	RPD	
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
1,1,1-Trichloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/kg	0	5	-	95	-	101	-	65	135	5	30	-	93	-	99	-	65	135	6	30	-
1,2-Dichloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethylvinylether	ug/kg	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	ug/kg	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ug/kg	32	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	ug/kg	0	5	-	97	-	100	-	65	135	2	30	-	95	-	100	-	65	135	5	30	-
Bromoform	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	ug/kg	0	5	-	100	-	103	-	65	135	2	30	-	67	-	70	-	65	135	4	30	-
Carbon Tetrachloride	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/kg	4.1	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl isobutyl ketone	ug/kg	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl-tert-butylether	ug/kg	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	ug/kg	0	5	-	97	-	100	-	61	135	3	30	-	107	-	114	-	61	135	7	30	-
Toluene	ug/kg	0	5	-	101	-	100	-	64	135	1	30	-	95	-	99	-	64	135	5	30	-
Tetrachloroethene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	ug/kg	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Xylene Isomers	ug/kg	0	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/kg	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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NON-AQUEOUS SAMPLES

		METHOD BLANK			LAB CONTROL									MATRIX QC									
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD	
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	
Batch: 8260,OHM*9787068 Method: 8260A - Volatile Organics, GCMS, con't																(Matrix QC on basis of 4.8% moisture.)							
[1,2-Dichloroethane-d4]	Percent	97	-	-	100	-	97	-	52	149	-	-	-	84	-	86	-	52	149	-	-	-	
[4-Bromofluorobenzene]	Percent	99	-	-	97	-	95	-	65	135	-	-	-	96	-	102	-	65	135	-	-	-	
[Toluene-d8]	Percent	93	-	-	97	-	101	-	65	135	-	-	-	68	-	71	-	65	135	-	-	-	
[Dibromofluoromethane]	Percent	100	-	-	102	-	98	-	65	135	-	-	-	89	-	93	-	65	135	-	-	-	
Batch: 8081,OHM*97194 Method: 8081 - Organochlorine Pesticides and PCBs																(Matrix QC on basis of 11.0% moisture.)							
Aldrin	ug/kg	0	2	-	102	-	106	-	37	126	4	50	-	101	-	105	-	37	126	3	50	-	
p,p'-DDD	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	103	-	116	-	31	141	12	40	-	
p,p'-DDE	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	101	-	107	-	30	145	6	40	-	
p,p'-DDT	ug/kg	0	2	-	105	-	107	-	25	153	2	50	-	110	-	119	-	25	153	7	50	-	
Dieldrin	ug/kg	0	2	-	112	-	105	-	32	142	6	50	-	100	-	103	-	32	142	3	50	-	
Endosulfan I	ug/kg	0	0.7	-	-	-	-	-	-	-	-	-	-	101	-	106	-	45	153	5	40	-	
Endosulfan II	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	116	-	124	-	22	155	6	40	-	
Endosulfan sulfate	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	102	-	111	-	26	144	9	40	-	
Endrin	ug/kg	0	2	-	95	-	102	-	33	144	7	50	-	100	-	107	-	33	144	6	50	-	
Endrin aldehyde	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	98	-	110	-	-	-	12	-	-	
Heptachlor epoxide	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	100	-	104	-	37	142	3	40	-	
Heptachlor	ug/kg	0	2	-	102	-	106	-	35	138	4	50	-	105	-	104	-	35	138	1	50	-	
Methoxychlor	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	99	-	106	-	-	-	7	-	-	
BHC, alpha isomer	ug/kg	0	0.7	-	-	-	-	-	-	-	-	-	-	113	-	113	-	55	141	0	30	-	
alpha-Chlordane	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BHC, beta isomer	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	109	-	101	-	50	129	8	30	-	
BHC, delta isomer	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	102	-	103	-	19	140	1	40	-	
BHC, gamma isomer (Lindane)	ug/kg	0	2	-	103	-	108	-	63	130	5	50	-	109	-	105	-	63	130	4	50	-	
gamma-Chlordane	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	85	-	90	-	-	-	6	-	-	
[Decachlorobiphenyl]	Percent	102	-	-	112	-	111	-	25	143	-	-	-	118	-	133	-	25	143	-	-	-	
[Tetrachloro-meta-xylene]	Percent	80	-	-	96	-	101	-	35	135	-	-	-	92	-	96	-	35	135	-	-	-	
Batch: 8081,PCB,OHM*97194 Method: 8081 - Organochlorine Pesticides and PCBs																(Matrix QC on basis of 11.0% moisture.)							
Aroclor 1016	ug/kg	0	33	-	84	-	90	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	
Aroclor 1221	ug/kg	0	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aroclor 1232	ug/kg	0	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aroclor 1242	ug/kg	0	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aroclor 1248	ug/kg	0	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aroclor 1254	ug/kg	0	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aroclor 1260	ug/kg	0	33	-	92	-	96	-	31	136	4	50	-	-	-	-	-	-	-	-	-	-	
[Decachlorobiphenyl]	Percent	102	-	-	97	-	101	-	25	143	-	-	-	-	-	-	-	-	-	-	-	-	
[Tetrachloro-meta-xylene]	Percent	80	-	-	89	-	88	-	35	135	-	-	-	-	-	-	-	-	-	-	-	-	

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NON-AQUEOUS SAMPLES

		METHOD BLANK			LAB CONTROL									MATRIX QC									
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD	
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	
Batch: CON,8081,OHM*97194 Method: 8081 - Organochlorine Pesticides and PCBs																(Matrix QC on basis of 11.0% moisture.)							
Aldrin	ug/kg	0	2	-	87	-	96	-	37	126	9	50	-	104	-	91	-	37	126	14	50	-	
p,p'-DDD	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	95	-	96	-	31	141	0	40	-	
p,p'-DDE	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	107	-	124	-	30	145	15	40	-	
p,p'-DDT	ug/kg	0	2	-	107	-	118	-	25	153	10	50	-	106	-	112	-	25	153	6	50	-	
Dieldrin	ug/kg	0	2	-	94	-	100	-	32	142	7	50	-	98	-	103	-	32	142	5	50	-	
Endosulfan I	ug/kg	0	0.7	-	-	-	-	-	-	-	-	-	-	109	-	110	-	45	153	1	40	-	
Endosulfan II	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	97	-	104	-	22	155	7	40	-	
Endosulfan sulfate	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	79	-	94	-	26	144	17	40	-	
Endrin	ug/kg	0	2	-	87	-	106	-	33	144	20	50	-	97	-	104	-	33	144	7	50	-	
Endrin aldehyde	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	92	-	105	-	-	-	13	-	-	
Heptachlor epoxide	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	106	-	97	-	37	142	9	40	-	
Heptachlor	ug/kg	0	2	-	82	-	92	-	35	138	11	50	-	97	-	96	-	35	138	1	50	-	
Methoxychlor	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	97	-	114	-	-	-	17	-	-	
BHC, alpha isomer	ug/kg	0	0.7	-	-	-	-	-	-	-	-	-	-	86	-	88	-	55	141	2	30	-	
alpha-Chlordane	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BHC, beta isomer	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	92	-	97	-	50	129	5	30	-	
BHC, delta isomer	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	84	-	88	-	19	140	4	40	-	
BHC, gamma isomer (Lindane)	ug/kg	0	2	-	74	-	85	-	63	130	13	50	-	83	-	86	-	63	130	3	50	-	
gamma-Chlordane	ug/kg	0	2	-	-	-	-	-	-	-	-	-	-	116	-	108	-	-	-	8	-	-	
[Decachlorobiphenyl]	Percent	122	-	-	109	-	115	-	25	143	-	-	-	109	-	118	-	25	143	-	-	-	
[Tetrachloro-meta-xylene]	Percent	85	-	-	82	-	93	-	35	135	-	-	-	88	-	93	-	35	135	-	-	-	

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NON-AQUEOUS SAMPLES

Batch: 8270,OHM*97208 Method: 8270B - GC/MS for Semivolatile Organics, Capillary column (Matrix QC on basis of 11.0% moisture.)

		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
1,2,4-Trichlorobenzene	ug/kg	0	330	-	84	-	77	-	34	152	8	30	-	93	-	88	-	34	152	6	30	-
1,2-Dichlorobenzene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/kg	0	330	-	82	-	75	-	25	135	8	30	-	88	-	84	-	25	135	5	30	-
2,4,5-Trichlorophenol	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/kg	0	830	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/kg	0	330	-	93	-	83	-	29	149	11	30	-	90	-	91	-	29	149	1	30	-
2,6-Dinitrotoluene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/kg	0	330	-	80	-	78	-	31	135	3	30	-	85	-	81	-	31	135	6	30	-
2-Methyl-4,6-dinitrophenol	ug/kg	0	830	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol (o-Cresol)	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenylphenylether	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/kg	0	330	-	104	-	96	-	34	135	8	30	-	91	-	113	-	34	135	21	30	-
4-Chloroaniline	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenylphenylether	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol (p-Cresol)	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/kg	0	830	-	82	-	80	-	25	141	3	30	-	69	-	75	-	25	141	7	30	-
Acenaphthene	ug/kg	0	330	-	80	-	73	-	39	135	10	30	-	88	-	88	-	39	135	1	30	-
Acenaphthylene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzylphthalate	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octylphthalate	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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NON-AQUEOUS SAMPLES		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: 8270,OHM*97208 Method: 8270B - GC/MS for Semivolatile Organics, Capillary column, con't																(Matrix QC on basis of 11.0% moisture.)						
Dibenzofuran	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibutylphthalate	ug/kg	220	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethylphthalate	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylphthalate	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)pyrene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	ug/kg	0	330	-	82	-	78	-	25	135	6	30	-	79	-	77	-	25	135	3	30	-
Pentachlorophenol	ug/kg	0	660	-	99	-	93	-	38	146	6	30	-	90	-	93	-	38	146	3	30	-
Pyrene	ug/kg	0	330	-	83	-	76	-	37	146	9	30	-	80	-	80	-	37	146	0	30	-
Bis(2-chloroethoxy)methane	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-chloroisopropyl)ether	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	ug/kg	0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
[2-Fluorobiphenyl]	Percent	108	-	-	96	-	86	-	34	135	-	-	-	104	-	93	-	34	135	-	-	-
[2-Fluorophenol]	Percent	98	-	-	90	-	74	-	25	135	-	-	-	94	-	82	-	25	135	-	-	-
[2,4,6-Tribromophenol]	Percent	109	-	-	110	-	100	-	25	144	-	-	-	114	-	106	-	25	144	-	-	-
[Nitrobenzene-d5]	Percent	87	-	-	87	-	88	-	25	135	-	-	-	104	-	87	-	25	135	-	-	-
[Phenol-d5]	Percent	110	-	-	88	-	79	-	25	135	-	-	-	105	-	105	-	25	135	-	-	-
[Terphenyl-d14]	Percent	86	-	-	97	-	87	-	32	136	-	-	-	84	-	75	-	32	136	-	-	-
Batch: DIESEL*97236 Method: 8015M - Modified 8015																(Matrix QC on basis of 5.5% moisture.)						
TPH (Diesel Range)	mg/kg	0	10	-	91	-	103	-	51	153	12	50	-	100	-	107	-	51	153	6	50	-
JP-5	mg/kg	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
[Naphthalene]	Percent	87	-	-	102	-	85	-	52	145	-	-	-	74	-	76	-	52	145	-	-	-
[o-Terphenyl]	Percent	97	-	-	130	-	130	-	47	142	-	-	-	131	-	132	-	47	142	-	-	-

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NON-AQUEOUS SAMPLES

Batch: 8270,OHM*97208 Method: 8270.SIM - GC/MS for Semivolatile Organics, Capillary column (Matrix QC on basis of 11.0% moisture.)

		METHOD BLANK			LAB CONTROL									MATRIX QC									
					LCS		LCSD				RPD	RPD		MS		MSD				RPD	RPD		
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	
Benzo(a)pyrene	ug/kg	0	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	ug/kg	0	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-Nitrosodi-n-propylamine	ug/kg	0	33	-	94	-	98	-	27	135	4	30	-	113	-	110	-	27	135	3	30	-	
Bis(2-chloroethyl)ether	ug/kg	0	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
[2-Fluorobiphenyl]	Percent	65	-	-	97	-	95	-	34	135	-	-	-	98	-	94	-	34	135	-	-	-	
[Terphenyl-d14]	Percent	66	-	-	98	-	94	-	32	136	-	-	-	83	-	81	-	32	136	-	-	-	

VOC ANALYTICAL, GLENDALE
SUPPLEMENTAL QC REPORT FOR 9710387
DATE PRINTED: 18 NOV 1997

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AQUEOUS SAMPLES

Batch: VOA,8260*971169 Method: 8260A - Volatile Organics, GCMS

		B7101136*1	C7102540*1	.....	C7102541*1	.....	9710376*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/20/97	10/20/97	10/20/97	10/21/97	10/21/97	10/20/97	-	10/20/97	10/20/97	10/20/97
Time Analyzed	Hours	12:56	11:48	11:48	00:23	00:23	-	-	-	-	-
Date Calibrated	Date	10/08/97	10/08/97	10/20/97	10/08/97	10/08/97	-	-	-	-	-
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
1,1,1-Trichloroethane	ug/L	0	40.7	50.0	36.1	50.0	0	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	0	50.8	50.0	51.8	50.0	0	-	-	-	-
1,1,2-Trichloroethane	ug/L	0	53.7	50.0	50.4	50.0	0	-	-	-	-
1,1-Dichloroethane	ug/L	0	46.7	50.0	48.1	50.0	0	-	-	-	-
1,1-Dichloroethene	ug/L	0	42.2	50.0	42.8	50.0	0	-	38.2	34.6	50.0
1,2-Dichloroethane	ug/L	0	46.3	50.0	45.9	50.0	0	-	-	-	-
1,2-Dichloropropane	ug/L	0	45.1	50.0	46.2	50.0	0	-	-	-	-
2-Chloroethylvinylether	ug/L	0	94.0	50.0	84.3	50.0	0	-	-	-	-
2-Hexanone	ug/L	0	49.6	50.0	57.8	50.0	0	-	-	-	-
Acetone	ug/L	6.7	53.3	50.0	53.1	50.0	0	-	-	-	-
Bromodichloromethane	ug/L	0	47.9	50.0	47.6	50.0	0	-	-	-	-
Bromomethane	ug/L	0	45.0	50.0	44.8	50.0	0	-	-	-	-
Benzene	ug/L	0	43.6	50.0	42.3	50.0	0	-	40.5	39.6	50.0
Bromoform	ug/L	0	56.7	50.0	52.4	50.0	0	-	-	-	-
Chlorobenzene	ug/L	0	49.3	50.0	46.7	50.0	0	-	46.0	46.7	50.0
Carbon Tetrachloride	ug/L	0	43.3	50.0	39.6	50.0	0	-	-	-	-
Chloroethane	ug/L	0	51.4	50.0	48.9	50.0	0	-	-	-	-
Chloroform	ug/L	0	48.6	50.0	46.3	50.0	0	-	-	-	-
Chloromethane	ug/L	0	49.8	50.0	49.8	50.0	0	-	-	-	-
Carbon Disulfide	ug/L	0	37.3	50.0	37.0	50.0	0	-	-	-	-
Dibromochloromethane	ug/L	0	49.3	50.0	48.9	50.0	0	-	-	-	-
Ethylbenzene	ug/L	0	46.8	50.0	45.3	50.0	0	-	-	-	-
Methyl ethyl ketone	ug/L	0	59.2	50.0	64.4	50.0	0	-	-	-	-
Methyl isobutyl ketone	ug/L	0	52.7	50.0	51.5	50.0	0	-	-	-	-
Methyl-tert-butylether	ug/L	0	193	200	196	200	-	-	-	-	-
Methylene chloride	ug/L	0	47.2	50.0	50.1	50.0	0	-	-	-	-
Styrene	ug/L	0	49.2	50.0	46.2	50.0	0	-	-	-	-
Trichloroethene	ug/L	0	47.2	50.0	44.4	50.0	0	-	43.7	43.1	50.0
Toluene	ug/L	0	48.0	50.0	43.8	50.0	0	-	42.6	42.8	50.0
Tetrachloroethene	ug/L	0	51.4	50.0	45.4	50.0	0	-	-	-	-
Vinyl acetate	ug/L	0	55.3	50.0	43.1	50.0	0	-	-	-	-
Vinyl chloride	ug/L	0	49.0	50.0	47.7	50.0	0	-	-	-	-
Total Xylene Isomers	ug/L	0	142	150	134	150	-	-	-	-	-

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AQUEOUS SAMPLES

Batch: VOA,8260*971169 Method: 8260A - Volatile Organics, GCMS, con't

		B7101136*1	C7102540*1	.....	C7102541*1	.....	9710376*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
cis-1,2-Dichloroethene	ug/L	0	48.5	50.0	45.0	50.0	0	-	-	-	-
cis-1,3-Dichloropropene	ug/L	0	48.2	50.0	44.0	50.0	0	-	-	-	-
trans-1,2-Dichloroethene	ug/L	0	43.2	50.0	43.2	50.0	0	-	-	-	-
trans-1,3-Dichloropropene	ug/L	0	50.9	50.0	45.4	50.0	0	-	-	-	-
1,2-Dichloroethane-d4 Rep.	ug/L	46.1	48.0	50.0	44.6	50.0	-	-	-	-	-
1,2-Dichloroethane-d4 Theo.	ug/L	50.0	50.0	50.0	50.0	50.0	-	-	-	-	-
4-Bromofluorobenzene Rep.	ug/L	41.6	44.2	50.0	44.3	50.0	41.4	-	41.3	41.4	50.0
4-Bromofluorobenzene Theo.	ug/L	50.0	50.0	50.0	50.0	50.0	50.0	-	50.0	50.0	50.0
Toluene-d8 Reported	ug/L	45.3	43.2	50.0	44.6	50.0	44.1	-	43.9	44.7	50.0
Toluene-d8 Theo.	ug/L	50.0	50.0	50.0	50.0	50.0	50.0	-	50.0	50.0	50.0
Dibromofluoromethane Rep.	ug/L	45.2	43.3	50.0	42.6	50.0	43.1	-	43.0	41.4	50.0
Dibromofluoromethane Theo.	ug/L	50.0	50.0	50.0	50.0	50.0	50.0	-	50.0	50.0	50.0

Batch: GAS*975143 Method: 8015M - Modified 8015

		B7101294*1	C7102493*1	.....	N/A	.....	9708781*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	-	-	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Times	14:04	11:59	11:59	-	-	-	-	-	-	-
Date Calibrated	Dates	9/9/97	9/9/97	9/9/97	-	-	-	-	-	-	-
Dilution Factor	Times	1	1	1	-	-	1	-	1	1	1
Carbon Range	.	C6-C12	C6-C12	C6-C12	-	-	C6-C12	-	C6-C12	C6-C12	C6-C12
TPH (Gasoline Range)	mg/L	0	1.060	1.10	-	-	0.034	-	1.04	1.07	1.13
a,a,a-Trifluorotoluene Rep.	mg/L	0.0559	0.0496	0.0500	-	-	0.0453	-	0.0522	0.0529	0.0500
a,a,a-Trifluorotoluene Th.	mg/L	0.0500	0.0500	0.0500	-	-	0.0500	-	0.0500	0.0500	0.0500

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AQUEOUS SAMPLES

Batch: DIESEL*97234 Method: 8015M - Modified 8015

		B7101212*1	C7102330*1	.....	C7102331*1	.....	N/A	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/22/97	10/22/97	10/22/97	10/22/97	-	-	-	-	-
Time Analyzed	Times	23:43	04:54	04:54	05:29	05:29	-	-	-	-	-
Date Calibrated	Dates	09/24/97	09/24/97	09/24/97	09/24/97	09/24/97	-	-	-	-	-
Date Extracted	Date	10/20/97	10/20/97	10/20/97	10/20/97	10/20/97	-	-	-	-	-
Time Extracted	Hours	14:30	14:30	14:30	14:30	14:30	-	-	-	-	-
Dilution Factor	Times	1	1	1	1	1	-	-	-	-	-
TPH (Diesel Range)	mg/L	0	1.01	1.00	1.05	1.00	-	-	-	-	-
JP-5	mg/L	0	-	-	-	-	-	-	-	-	-
Carbon Range	.	C10-C25	C10-C25	C10-C25	C10-C25	C10-C25	-	-	-	-	-
Naphthalene Reported	mg/L	0.0423	0.0410	0.0500	0.0336	0.0500	-	-	-	-	-
Naphthalene Theoretical	mg/L	0.0500	0.0500	0.0500	0.0500	0.0500	-	-	-	-	-
o-Terphenyl Reported	mg/L	0.0488	0.0643	0.0500	0.0637	0.0500	-	-	-	-	-
o-Terphenyl Theoretical	mg/L	0.0500	0.0500	0.0500	0.0500	0.0500	-	-	-	-	-

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NON-AQUEOUS SAMPLES

Batch: PH,NA*9748 Method: 9045 - Soil pH (Matrix QC on basis of 30.0% moisture.)

		N/A	C7102512*1	.....	C7102513*1	.....	9710387*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	-	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	-	-
Time Analyzed	Hours	-	12:00	12:00	12:00	12:00	12:00	12:00	-	-	-
Date Calibrated	Date	-	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	-	-
pH	Units	-	6.02	6.00	6.02	6.00	12.9	12.6	-	-	-

Batch: CN*9788 Method: 9010A - Cyanide, Colorimetric, Manual (Matrix QC on basis of 11.0% moisture.)

		B7101608*1	C7103105*1	.....	C7103106*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/23/97	10/23/97	10/23/97	10/23/97	10/23/97	10/23/97	-	10/23/97	10/23/97	10/23/97
Time Analyzed	Hours	23:15	23:15	23:15	23:15	23:15	23:15	-	23:15	23:15	23:15
Date Calibrated	Date	10/23/97	10/23/97	10/23/97	10/23/97	10/23/97	10/23/97	-	10/23/97	10/23/97	10/23/97
Date Distilled	Date	10/23/97	10/23/97	10/23/97	10/23/97	10/23/97	10/23/97	-	10/23/97	10/23/97	10/23/97
Time Distilled	Hours	16:40	16:40	16:40	16:40	16:40	16:40	-	16:40	16:40	16:40
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Total Cyanide	mg/kg	0.0181	7.15	7.50	7.26	7.50	0	-	5.44	5.71	5.62

Batch: DIG,NAQ*972708 Method: 3050 - Acid Digestion of Sediments, etc.

		(BLANK)	(LCS)	.....	(LCSD)	.....	(MTX QC)	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Digestion	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97

Batch: DIG,NAQ,GFA*972710 Method: 3050 - Acid Digestion of Sediments, etc.

		(BLANK)	(LCS)	.....	(LCSD)	.....	(MTX QC)	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Furnace Digestion	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97

Batch: PB,GFA*972710 Method: 7421 - Lead, AA, Furnace (Matrix QC on basis of 11.0% moisture.)

		B7101308*1	C7102519*1	.....	C7102520*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/22/97	10/21/97	10/21/97	10/21/97	10/21/97	10/22/97	-	10/22/97	10/22/97	10/22/97
Time Analyzed	Hours	11:20	17:12	17:12	17:15	17:15	11:25	-	11:28	11:30	11:30
Date Calibrated	Date	10/20/97	10/21/97	10/21/97	10/21/97	10/21/97	10/22/97	-	10/22/97	10/22/97	10/22/97
Dilution Factor	Times	1	1	1	1	1	5	-	5	5	5

NON-AQUEOUS SAMPLES

Batch: PB,GFA*972710 Method: 7421 - Lead, AA, Furnace, con't (Matrix QC on basis of 11.0% moisture.)

		B7101308*1	C7102519*1	.....	C7102520*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Lead	mg/kg	0	5.01	5.00	5.01	5.00	3.6	-	8.09	7.58	8.08

Batch: SE,GFA*972710 Method: 7740 - Selenium, AA, Furnace (Matrix QC on basis of 11.0% moisture.)

		B7101313*1	C7102521*1	.....	C7102522*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/22/97	10/22/97	10/22/97	10/22/97	10/22/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	10:43	10:46	10:46	10:48	10:48	19:44	-	19:46	19:49	19:49
Date Calibrated	Date	10/22/97	10/22/97	10/22/97	10/22/97	10/22/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Selenium	mg/kg	0	9.27	10.0	9.10	10.0	0	-	0.865	1.05	5.62

Batch: AG*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101334*1	C7102575*1	.....	C7102576*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Silver	mg/kg	0	21.1	20.0	20.5	20.0	0	-	44.6	46	56.2

Batch: AL*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101335*1	C7102577*1	.....	N/A	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	-	-	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	-	-	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	-	-	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	-	-	1	-	1	1	1
Aluminum	mg/kg	8.3	95.4	100	-	-	19100	-	30300	28300	25100

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Batch: BA*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101336*1	C7102579*1	.....	C7102580*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Barium	mg/kg	0	99.9	100	102	100	191	-	272	289	308

Batch: BE*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101337*1	C7102581*1	.....	C7102582*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Beryllium	mg/kg	0.02	39.7	40.0	39.7	40.0	0.73	-	11.9	12	12

Batch: CA*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101338*1	C7102583*1	.....	C7102584*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Calcium	mg/kg	11	5160	5000	5260	5000	5280	-	11300	11300	10900

Batch: CD*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101339*1	C7102585*1	.....	C7102586*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Cadmium	mg/kg	0	51.3	50.0	52.1	50.0	0	-	51	52.1	56.2

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Batch: CO*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101340*1	C7102587*1	.....	C7102588*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Cobalt	mg/kg	0	102	100	105	100	8.65	-	63.8	64.5	64.8

Batch: CR*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101341*1	C7102589*1	.....	C7102590*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Chromium	mg/kg	0	99.0	100	101	100	15.7	-	72.1	70.9	72

Batch: CU*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101342*1	C7102591*1	.....	C7102592*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Copper	mg/kg	0.4	97.8	100	99.4	100	19.1	-	72.2	65.8	75.2

Batch: FE*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101343*1	C7102593*1	.....	N/A	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	-	-	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	-	-	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	-	-	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	-	-	1	-	1	1	1
Iron	mg/kg	3.6	104	100	-	-	23600	-	32100	31300	[illegible]

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NON-AQUEOUS SAMPLES

Batch: K*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101344*1	C7102595*1	.....	C7102596*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Potassium	mg/kg	0	4900	5000	5020	5000	6290	-	7900	7740	7360

Batch: MG*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101345*1	C7102597*1	.....	C7102598*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Magnesium	mg/kg	7.3	5140	5000	5250	5000	8760	-	15800	15400	14400

Batch: MN*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101346*1	C7102599*1	.....	C7102600*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Manganese	mg/kg	0	102	100	104	100	315	-	438	439	421

Batch: MO*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101347*1	C7102601*1	.....	C7102602*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Molybdenum	mg/kg	0.8	98.9	100	102	100	0.562	-	52.5	54.5	56.2

000232

NON-AQUEOUS SAMPLES

Batch: NA*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101348*1	C7102603*1	.....	C7102604*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Sodium	mg/kg	5.4	5130	5000	5240	5000	169	-	1350	1360	1290

Batch: NI*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101349*1	C7102605*1	.....	C7102606*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Nickel	mg/kg	0	107	101	106	101	7.19	-	64.5	64.8	63.4

Batch: SB*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101350*1	C7102607*1	.....	C7102608*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Antimony	mg/kg	0	100	100	101	100	5.39	-	306	310	337

Batch: TL*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101351*1	C7102609*1	.....	C7102610*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Thallium	mg/kg	0	98.7	100	100	100	0	-	216	221	225

000233

NON-AQUEOUS SAMPLES

Batch: V*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101352*1	C7102611*1	.....	C7102612*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Vanadium	mg/kg	0.6	97.4	100	99.9	100	48.3	-	161	160	161

Batch: ZN*972708 Method: 6010A - ICAP Metals (Matrix QC on basis of 11.0% moisture.)

		B7101353*1	C7102613*1	.....	C7102614*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Time Analyzed	Hours	14:13	15:14	15:14	15:15	15:15	14:36	-	14:37	14:38	14:38
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	10/21/97	-	10/21/97	10/21/97	10/21/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Zinc	mg/kg	0.7	107	102	106	102	67.4	-	125	118	124

Batch: AS,GFA*972710 Method: 7060A - Arsenic, AA, Furnace (Matrix QC on basis of 11.0% moisture.)

		B7101310*1	C7102523*1	.....	C7102524*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/21/97	10/22/97	10/22/97	10/22/97	10/22/97	10/22/97	-	10/22/97	10/22/97	10/22/97
Time Analyzed	Hours	17:38	09:53	09:53	09:56	09:56	09:19	-	09:21	09:24	09:24
Date Calibrated	Date	10/21/97	10/22/97	10/22/97	10/22/97	10/22/97	10/22/97	-	10/22/97	10/22/97	10/22/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Arsenic	mg/kg	0	5.26	5.00	5.06	5.00	2.81	-	6.67	6.11	8.42

Batch: HG,SO*972737 Method: 7471A - Mercury (Solids), Cold Vapor AA, Manual (Matrix QC on basis of 11.0% moisture.)

		B7101329*1	C7102565*1	.....	C7102566*1	.....	9710388*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	10/23/97	10/23/97	10/23/97	10/23/97	10/23/97	10/23/97	-	10/23/97	10/23/97	10/23/97
Time Analyzed	Hours	15:02	15:24	15:24	15:27	15:27	15:18	-	15:19	15:20	15:20
Date Calibrated	Date	10/23/97	10/23/97	10/23/97	10/23/97	10/23/97	10/23/97	-	10/23/97	10/23/97	10/23/97
Date Digested	Date	10/22/97	10/22/97	10/22/97	10/22/97	10/22/97	10/22/97	-	10/22/97	10/22/97	10/22/97
Time Digested	Hours	19:00	19:00	19:00	19:00	19:00	19:00	-	19:00	19:00	19:00
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Mercury	mg/kg	0.007	0.643	0.667	0.580	0.667	0.0325	-	0.839	0.685	0.917

000234

NON-AQUEOUS SAMPLES

Batch: MOIST*972790 Method: D2216 - Percent solid (Matrix QC on basis of 30.0% moisture.)

		B7101536*1	N/A		N/A		9710387*1	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
-Moisture/TNFR	Percent	0	-	-	-	-	42.9	28.6	-	-	-

Batch: MOIST*972796 Method: D2216 - Percent solid (Matrix QC on basis of 5.5% moisture.)

		B7101540*1	N/A		N/A		9710389*1	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
-Moisture/TNFR	Percent	0	-	-	-	-	5.82	5.93	-	-	-

ACRONYMS AND FLAG DEFINITIONS

Flag Definitions:

*	Duplicate values. Replicate results are entered into the MS/MSD column of the QC report. RPD calculated when sample concentration is at least five times RDL.
B	Blank contamination. Used when associated method blank concentration is greater than the PQL.
J	Estimated value. Used for sample results greater than or equal to MDL, but less than the PQL.
NC	Not calculated. Used when sample result is greater than two times the spike amount added, or when extracted surrogates were diluted below detectable levels.
Q	Quality objectives were not met. Used for Method Blank, Laboratory Control Samples, Matrix Spikes, Matrix Duplicates and Surrogates.

Acronyms:

COC	Chain of Custody
FLG	Flag
J	Estimated value between MDL and PQL
LC	Actual LCS/LCSD concentration recovered
LCL	Lower Control Limit
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LT	True LCS/LCSD concentration
MB	Method Blank
MS	Matrix Spike
MSD	Matrix Spike Duplicate
R1	Unspiked sample concentration
RDL	Reporting Detection Limit
%REC	Percent Recovery
Rep.	Surrogate Reported value
RPD	Relative Percent Difference
S1	Actual MS concentration
S2	Actual MSD concentration
T	True concentration of MS/MSD
Theo.	Surrogate Theoretical value
U	Not detected above the MDL
UCL	Upper Control Limit

: ORDER PLACED FOR CLIENT: OHM Remediation Services Corp. 9710570 :
: VOC ANALYTICAL : GLEN LAB : 11:23:03 06 DEC 1997 - P. 1 :

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
9710570*1	18609-742	GAS.5030.AF	11.03.97	8015M	536-23	975152	7424
		VOA,8260.OHM	11.10.97	8260A	537-06	976135	7430
9710570*2	18609-743	PEST.8081.OHM	11.04.97	8081	536-26	97207	8042
		PCB.8081	11.04.97	8081	536-26	97207	8042
		AL.AF	11.05.97	6010A	535-02	972880	8488
		SB.AF	11.05.97	6010A	535-02	972880	8488
		AS,GFA.AF	11.05.97	7060A	534-04	972877	1002
		BA.AF	11.05.97	6010A	535-02	972880	8488
		BE.AF	11.05.97	6010A	535-02	972880	8488
		CD.AF	11.05.97	6010A	535-02	972880	8488
		CA.AF	11.05.97	6010A	535-02	972880	8488
		CR.AF	11.05.97	6010A	535-02	972880	8488
		CO.AF	11.05.97	6010A	535-02	972880	8488
		CU.AF	11.06.97	6010A	535-02	972880	8488
		FE.AF	11.05.97	6010A	535-02	972880	8488
		PB,GFA.AF	11.05.97	7421	534-04	972877	1002
		MG.AF	11.05.97	6010A	535-02	972880	8488
		MN.AF	11.05.97	6010A	535-02	972880	8488
		NI.AF	11.05.97	6010A	535-02	972880	8488
		K.AF	11.05.97	6010A	535-02	972880	8488
		SE,GFA.AF	11.05.97	7740	534-04	972877	1002
		AG.AF	11.05.97	6010A	535-02	972880	8488
		NA.AF	11.05.97	6010A	535-02	972880	8488
		TL.AF	11.05.97	6010A	535-02	972880	8488
		V.AF	11.05.97	6010A	535-02	972880	8488
		ZN.AF	11.05.97	6010A	535-02	972880	8488
		CN.AF	11.05.97	9010A	533-15	9795	1021
		PH.AF	10.31.97	150.1	533-21	97365.1	8804
		MO.AF	11.05.97	6010A	535-02	972880	8488
		DIG,AQ.HCL	11.04.97	3010		972880	7620
		DIG,AQ,GFA	11.04.97	3020		972877	7620
		BNA.8270.OHM	11.06.97	8270B	537-11	97219	6750
		DIESEL.3520.OHM	11.05.97	8015M	536-01	97245	8866
		GAS.5030.AF	11.03.97	8015M	536-23	975152	7424
		VOA,8260.OHM	11.10.97	8260A	537-06	976135	7430
		HG.AF	11.04.97	7470A	534-06	972872	1002
		CON,PEST.8081.OHM	11.04.97	8081	536-26	97207	8042
9710570*3	18609-744	PEST.8081.OHM	11.04.97	8081	536-26	97207	8042
		PCB.8081	11.04.97	8081	536-26	97207	8042
		AL.AF	11.05.97	6010A	535-02	972880	8488
		SB.AF	11.05.97	6010A	535-02	972880	8488
		AS,GFA.AF	11.05.97	7060A	534-04	972877	1002
		BA.AF	11.05.97	6010A	535-02	972880	8488

Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
		BE.AF	11.05.97	6010A	535-02	972880	8488
		CD.AF	11.05.97	6010A	535-02	972880	8488
		CA.AF	11.05.97	6010A	535-02	972880	8488
		CR.AF	11.05.97	6010A	535-02	972880	8488
		CO.AF	11.05.97	6010A	535-02	972880	8488
		CU.AF	11.06.97	6010A	535-02	972880	8488
		FE.AF	11.05.97	6010A	535-02	972880	8488
		PB,GFA.AF	11.05.97	7421	534-04	972877	1002
		MG.AF	11.05.97	6010A	535-02	972880	8488
		MN.AF	11.05.97	6010A	535-02	972880	8488
		NI.AF	11.05.97	6010A	535-02	972880	8488
		K.AF	11.05.97	6010A	535-02	972880	8488
		SE,GFA.AF	11.05.97	7740	534-04	972877	1002
		AG.AF	11.05.97	6010A	535-02	972880	8488
		NA.AF	11.05.97	6010A	535-02	972880	8488
		TL.AF	11.05.97	6010A	535-02	972880	8488
		V.AF	11.05.97	6010A	535-02	972880	8488
		ZN.AF	11.05.97	6010A	535-02	972880	8488
		CN.AF	11.05.97	9010A	533-15	9795	1021
		PH.AF	10.31.97	150.1	533-21	97365.1	8804
		MO.AF	11.05.97	6010A	535-02	972880	8488
		DIG,AQ.HCL	11.04.97	3010		972880	7620
		DIG,AQ,GFA	11.04.97	3020		972877	7620
		BNA.8270.OHM	11.06.97	8270B	537-11	97219	6750
		DIESEL.3520.OHM	11.05.97	8015M	536-01	97245	8866
		GAS.5030.AF	11.03.97	8015M	536-23	975152	7424
		VOA,8260.OHM	11.10.97	8260A	537-06	976135	7430
		HG.AF	11.04.97	7470A	534-06	972872	1002
		CON,PEST.8081.OHM	11.04.97	8081	536-26	97207	8042

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Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

VOC ANALYTICAL, GLENDALE
QC REPORT OR 9710570
DATE PRINTED: 08 DEC 1997

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AQUEOUS SAMPLES		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: CN*9795 Method: 9010A - Cyanide, Colorimetric, Manual																						
Total Cyanide	mg/L	0.0042	0.02	-	99	-	91	-	90	110	8	-	-	97	-	100	-	80	120	4	20	-
Batch: PH*97365.1 Method: 150.1 - pH, Electrometric																						
pH	Units	-	-	-	99	-	99	-	99	101	0	-	-	-	-	-	-	-	-	-	-	-
														8.2	*	8.2	*	-	-	0	20	-
Batch: PB,GFA*972877 Method: 7421 - Lead, AA, Furnace																						
Lead	ug/L	0	5	-	102	-	100	-	74	124	2	-	-	112	-	109	-	74	124	2	15	-
Batch: SE,GFA*972877 Method: 7740 - Selenium, AA, Furnace																						
Selenium	ug/L	0	5	-	94	-	92	-	73	122	2	-	-	69	Q	67	Q	73	122	3	15	-
Batch: HG*972872 Method: 7470A - Mercury (Liquid), Cold Vapor AA, Manual																						
Mercury	ug/L	0	0.2	-	100	-	103	-	77	120	2	15	-	105	-	0	Q	77	120	200	15	Q
Batch: AS,GFA*972877 Method: 7060A - Arsenic, AA, Furnace																						
Arsenic	ug/L	0.3	5	-	103	-	101	-	74	120	2	-	-	103	-	100	-	74	120	3	15	-
Batch: AG*972880 Method: 6010A - ICAP Metals																						
Silver	ug/L	0	50	-	104	-	105	-	80	120	1	15	-	83	-	84	-	80	120	1	15	-
Aluminum	ug/L	0	500	-	95	-	93	-	80	120	1	15	-	103	-	101	-	80	120	2	15	-
Barium	ug/L	0	100	-	100	-	101	-	80	120	1	15	-	98	-	98	-	80	120	1	15	-
Beryllium	ug/L	0	10	-	96	-	97	-	80	120	0	15	-	98	-	99	-	80	120	1	15	-
Calcium	ug/L	0	1000	-	100	-	101	-	80	120	1	15	-	100	-	98	-	80	120	1	15	-
Cadmium	ug/L	0	5	-	101	-	101	-	80	120	1	15	-	98	-	98	-	80	120	0	15	-
Cobalt	ug/L	0	50	-	101	-	102	-	80	120	1	15	-	98	-	98	-	80	120	1	15	-
Chromium	ug/L	2.2	50	-	97	-	99	-	80	120	1	15	-	99	-	101	-	80	120	2	15	-
Copper	ug/L	2.7	50	-	101	-	104	-	80	120	3	15	-	102	-	104	-	80	120	2	15	-
Iron	ug/L	5.1	50	-	103	-	103	-	80	120	0	15	-	98	-	99	-	80	120	1	15	-
Potassium	ug/L	85	5000	-	99	-	101	-	80	120	2	15	-	100	-	100	-	80	120	0	15	-
Magnesium	ug/L	0	1000	-	101	-	102	-	80	120	1	15	-	101	-	101	-	80	120	1	15	-
Manganese	ug/L	0	20	-	100	-	101	-	80	120	1	15	-	100	-	101	-	80	120	1	15	-
Molybdenum	ug/L	5.8	100	-	98	-	98	-	80	120	1	15	-	95	-	97	-	80	120	1	15	-
Sodium	ug/L	0	1000	-	101	-	102	-	80	120	1	15	-	104	-	102	-	80	120	1	15	-
Nickel	ug/L	0	150	-	101	-	104	-	80	120	3	15	-	97	-	100	-	80	120	3	15	-
Antimony	ug/L	0	500	-	101	-	99	-	80	120	2	15	-	99	-	101	-	80	120	1	15	-
Thallium	ug/L	32	400	-	102	-	103	-	80	120	1	15	-	96	-	100	-	80	120	4	15	-
Vanadium	ug/L	0	100	-	96	-	97	-	80	120	2	15	-	97	-	98	-	80	120	0	15	-
Zinc	ug/L	3.9	20	-	103	-	102	-	80	120	1	15	-	101	-	102	-	80	120	1	15	-

VOC ANALYTICAL, GLENDALE
QC REPORT FOR 9710570
DATE PRINTED: 08 DEC 1997

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AQUEOUS SAMPLES

		METHOD BLANK			LAB CONTROL									MATRIX QC									
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD	
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	
Batch: GAS*975152 Method: 8015M - Modified 8015																							
TPH (Gasoline Range)	mg/L	0	0.1	-	96	-	-	-	67	136	-	-	-	88	-	90	-	67	136	1	30	-	
[a,a,a-Trifluorotoluene]	Percent	111	-	-	97	-	-	-	76	126	-	-	-	105	-	104	-	76	126	-	-	-	

000039

AQUEOUS SAMPLES

Batch: VOA,8260*976135 Method: 8260A - Volatile Organics, GCMS

		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
1,1,1-Trichloroethane	ug/L	0	5	-	130	-	-	-	71	132	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	0	5	-	69	-	-	-	50	134	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/L	0	5	-	123	-	-	-	67	133	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	0	5	-	132	-	-	-	49	135	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/L	0	5	-	123	-	-	-	75	125	-	-	-	141	Q	146	Q	75	125	3	20	-
1,2-Dichloroethane	ug/L	0	5	-	128	-	-	-	68	129	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	0	5	-	122	-	-	-	68	127	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethylvinylether	ug/L	0	50	-	76	-	-	-	1	214	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	ug/L	0	50	-	99	-	-	-	20	149	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ug/L	0	50	-	83	-	-	-	32	176	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	0	5	-	121	-	-	-	69	132	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	ug/L	0	5	-	86	-	-	-	55	146	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	ug/L	0	5	-	116	-	-	-	75	125	-	-	-	120	-	134	Q	75	125	11	20	-
Bromoform	ug/L	0	5	-	129	-	-	-	53	148	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	ug/L	0	5	-	109	-	-	-	75	125	-	-	-	112	-	124	-	75	125	10	20	-
Carbon Tetrachloride	ug/L	0	5	-	120	-	-	-	70	140	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	0	5	-	106	-	-	-	52	137	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	ug/L	0	5	-	130	Q	-	-	77	128	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	ug/L	0	5	-	89	-	-	-	37	129	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	ug/L	0	5	-	124	-	-	-	37	140	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	0	5	-	114	-	-	-	65	142	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	0	5	-	105	-	-	-	80	135	-	-	-	-	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/L	0	50	-	92	-	-	-	5	153	-	-	-	-	-	-	-	-	-	-	-	-
Methyl isobutyl ketone	ug/L	0	50	-	139	-	-	-	16	150	-	-	-	-	-	-	-	-	-	-	-	-
Methyl-tert-butylether	ug/L	0.50	10	-	132	-	-	-	39	148	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/L	0	5	-	110	-	-	-	51	139	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	0	5	-	110	-	-	-	80	129	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	ug/L	0	5	-	157	Q	-	-	71	125	-	-	-	-	NC	-	NC	71	125	-	20	NC
Toluene	ug/L	0.22	5	-	107	-	-	-	74	125	-	-	-	108	-	120	-	74	125	11	20	-
Tetrachloroethene	ug/L	0	5	-	104	-	-	-	67	145	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	ug/L	0	50	-	120	-	-	-	24	143	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	0	5	-	91	-	-	-	48	140	-	-	-	-	-	-	-	-	-	-	-	-
Total Xylene Isomers	ug/L	0	15	-	104	-	-	-	79	136	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	0	5	-	125	-	-	-	54	143	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	0	5	-	98	-	-	-	66	129	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	0	5	-	127	-	-	-	48	134	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	0	5	-	97	-	-	-	66	130	-	-	-	-	-	-	-	-	-	-	-	-

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AQUEOUS SAMPLES

		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD				RPD	RPD		MS		MSD				RPD	RPD	
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: VOA,8260*976135 Method: 8260A - Volatile Organics, GCMS, con't																						
[1,2-Dichloroethane-d4]	Percent	103	-	-	138	-	-	-	62	139	-	-	-	-	-	-	-	-	-	-	-	-
[4-Bromofluorobenzene]	Percent	102	-	-	105	-	-	-	75	125	-	-	-	116	-	116	-	75	125	-	-	-
[Toluene-d8]	Percent	103	-	-	114	-	-	-	75	125	-	-	-	115	-	115	-	75	125	-	-	-
[Dibromofluoromethane]	Percent	79	-	-	113	-	-	-	75	125	-	-	-	134	Q	134	Q	75	125	-	-	-
Batch: CON,PEST*97207 Method: 8081 - Organochlorine Pesticides and PCBs																						
Aldrin	ug/L	0	0.03	-	80	-	78	-	47	125	2	30	-	-	-	-	-	-	-	-	-	-
p,p'-DDD	ug/L	0	0.03	-	84	-	75	-	68	146	11	40	-	-	-	-	-	-	-	-	-	-
p,p'-DDE	ug/L	0	0.03	-	82	-	76	-	71	136	7	40	-	-	-	-	-	-	-	-	-	-
p,p'-DDT	ug/L	0	0.05	-	80	-	72	-	34	143	10	30	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	0	0.03	-	76	-	73	-	42	132	4	30	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	0	0.03	-	74	-	72	-	45	127	2	40	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	0	0.03	-	82	-	75	-	50	126	9	40	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	0.017	0.05	-	98	-	87	-	51	163	12	40	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	0	0.03	-	115	-	105	-	43	134	9	30	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	0	0.03	-	80	-	72	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-
Endrin Ketone	ug/L	0.0035	0.05	-	90	-	83	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	0	0.03	-	83	-	82	-	74	134	2	40	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	0	0.03	-	76	-	77	-	45	128	1	30	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	0	0.05	-	103	-	84	-	47	147	20	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHC, alpha isomer	ug/L	0	0.03	-	84	-	86	-	71	132	3	40	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	0	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHC, beta isomer	ug/L	0	0.03	-	84	-	82	-	72	137	1	40	-	-	-	-	-	-	-	-	-	-
BHC, delta isomer	ug/L	0	0.03	-	82	-	82	-	75	134	1	40	-	-	-	-	-	-	-	-	-	-
BHC, gamma isomer (Lindane)	ug/L	0	0.03	-	79	-	80	-	73	125	2	30	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	0	0.03	-	79	-	76	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
[Decachlorobiphenyl]	Percent	76	-	-	64	-	54	-	34	133	-	-	-	-	-	-	-	-	-	-	-	-
[Tetrachloro-meta-xylene]	Percent	69	-	-	59	-	66	-	45	125	-	-	-	-	-	-	-	-	-	-	-	-
Batch: PCB*97207 Method: 8081 - Organochlorine Pesticides and PCBs																						
Aroclor 1016	ug/L	0	1	-	99	-	103	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1221	ug/L	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1232	ug/L	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1242	ug/L	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1248	ug/L	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1254	ug/L	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1260	ug/L	0	1	-	98	-	112	-	41	126	13	30	-	-	-	-	-	-	-	-	-	-

VOC ANALYTICAL, GLENDALE
QC REPORT 9710570
DATE PRINTED. 11 DEC 1997

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AQUEOUS SAMPLES

		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD					RPD	RPD	MS		MSD				RPD	RPD	
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: PCB*97207 Method: 8081 - Organochlorine Pesticides and PCBs, con't																						
[Decachlorobiphenyl]	Percent	78	-	-	57	-	70	-	34	133	-	-	-	-	-	-	-	-	-	-	-	-
[Tetrachloro-meta-xylene]	Percent	84	-	-	76	-	70	-	45	125	-	-	-	-	-	-	-	-	-	-	-	-
Batch: PEST*97207 Method: 8081 - Organochlorine Pesticides and PCBs																						
Aldrin	ug/L	0	0.03	-	89	-	90	-	47	125	1	30	-	94	-	76	-	47	125	22	30	-
p,p'-DDD	ug/L	0	0.03	-	82	-	75	-	68	146	9	-	-	114	-	101	-	31	141	12	40	-
p,p'-DDE	ug/L	0	0.03	-	86	-	82	-	71	136	5	-	-	96	-	81	-	30	145	17	40	-
p,p'-DDT	ug/L	0	0.05	-	94	-	84	-	34	143	11	30	-	76	-	67	-	34	143	13	30	-
Dieldrin	ug/L	0	0.03	-	84	-	81	-	42	132	3	30	-	84	-	71	-	42	132	17	30	-
Endosulfan I	ug/L	0	0.03	-	76	-	75	-	45	127	2	-	-	81	-	68	-	45	153	17	40	-
Endosulfan II	ug/L	0	0.03	-	86	-	80	-	50	126	6	-	-	78	-	73	-	1	202	6	40	-
Endosulfan sulfate	ug/L	0.013	0.05	-	93	-	84	-	51	163	10	-	-	101	-	83	-	26	144	20	40	-
Endrin	ug/L	0	0.03	-	93	-	86	-	43	134	8	30	-	112	-	93	-	43	134	18	30	-
Endrin aldehyde	ug/L	0	0.03	-	86	-	79	-	-	-	8	-	-	80	-	73	-	-	-	9	-	-
Endrin Ketone	ug/L	0.0054	0.05	-	88	-	79	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	0	0.03	-	86	-	86	-	74	134	0	-	-	91	-	76	-	37	142	17	40	-
Heptachlor	ug/L	0	0.03	-	88	-	88	-	45	128	0	30	-	90	-	74	-	45	128	19	30	-
Methoxychlor	ug/L	0	0.05	-	96	-	86	-	47	147	11	-	-	80	-	66	-	-	-	20	-	-
Toxaphene	ug/L	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHC, alpha isomer	ug/L	0	0.03	-	100	-	98	-	71	132	2	-	-	91	-	75	-	37	134	20	40	-
alpha-Chlordane	ug/L	0	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHC, beta isomer	ug/L	0	0.03	-	99	-	97	-	72	137	2	-	-	90	-	86	-	17	147	4	40	-
BHC, delta isomer	ug/L	0	0.03	-	93	-	92	-	75	134	2	-	-	98	-	82	-	19	140	18	40	-
BHC, gamma isomer (Lindane)	ug/L	0	0.03	-	93	-	95	-	73	125	2	30	-	96	-	79	-	73	125	19	30	-
gamma-Chlordane	ug/L	0	0.03	-	82	-	80	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
[Decachlorobiphenyl]	Percent	78	-	-	67	-	57	-	34	133	-	-	-	75	-	59	-	34	133	-	-	-
[Tetrachloro-meta-xylene]	Percent	84	-	-	72	-	74	-	45	125	-	-	-	78	-	70	-	45	125	-	-	-

VOC ANALYTICAL, GLENDALE
QC REPORT FOR 9710570
DATE PRINTED: 08 DEC 1997

AQUEOUS SAMPLES

		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: BNA*97219 Method: 8270B - GC/MS for Semivolatile Organics, Capillary column																						
1,2,4-Trichlorobenzene	ug/L	0	10	-	77	-	88	-	44	142	13	20	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	0	10	-	85	-	95	-	30	120	12	35	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	0	10	-	76	-	87	-	28	114	13	34	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0	10	-	74	-	85	-	30	125	14	20	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	0	10	-	83	-	96	-	49	143	14	26	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	0	10	-	80	-	92	-	50	134	14	30	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	0	10	-	75	-	86	-	43	124	14	22	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	0	10	-	75	-	86	-	43	107	14	33	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	0	25	-	65	-	80	-	22	174	20	41	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	0	10	-	83	-	93	-	39	139	10	20	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	0	10	-	79	-	88	-	53	129	11	36	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	0	10	-	59	-	66	-	36	97	11	38	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	0	10	-	79	-	90	-	41	125	13	20	-	-	-	-	-	-	-	-	-	-
2-Methyl-4,6-dinitrophenol	ug/L	0	25	-	70	-	83	-	38	147	16	47	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	0	10	-	85	-	96	-	36	124	12	36	-	-	-	-	-	-	-	-	-	-
2-Methylphenol (o-Cresol)	ug/L	0	10	-	70	-	78	-	36	116	11	33	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	0	10	-	87	-	95	-	54	133	10	33	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	0	10	-	77	-	88	-	43	122	14	28	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	0	10	-	40	-	46	-	1	262	14	42	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	0	10	-	89	-	98	-	54	134	9	50	-	-	-	-	-	-	-	-	-	-
4-Bromophenylphenylether	ug/L	0	10	-	80	-	90	-	43	142	12	32	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	0	10	-	84	-	94	-	44	125	11	20	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	0	10	-	90	-	99	-	46	126	9	50	-	-	-	-	-	-	-	-	-	-
4-Chlorophenylphenylether	ug/L	0	10	-	86	-	98	-	49	134	13	32	-	-	-	-	-	-	-	-	-	-
4-Methylphenol (p-Cresol)	ug/L	0	10	-	77	-	86	-	46	109	12	44	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	0	10	-	101	-	110	-	40	166	9	50	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	0	25	-	23	Q	39	-	25	131	50	20	Q	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	0	10	-	82	-	93	-	49	125	13	20	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	0	10	-	89	-	101	-	56	131	12	50	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	0	10	-	79	-	88	-	54	117	11	25	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	0	10	-	98	-	108	-	55	132	10	26	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	0	10	-	94	-	103	-	51	141	9	40	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	0	10	-	98	-	114	-	43	135	15	29	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	0	10	-	102	-	114	-	36	157	11	39	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	0	10	-	87	-	92	-	57	137	5	36	-	-	-	-	-	-	-	-	-	-
Butylbenzylphthalate	ug/L	0	10	-	97	-	106	-	50	139	9	36	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	0	10	-	97	-	105	-	55	134	8	25	-	-	-	-	-	-	-	-	-	-

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AQUEOUS SAMPLES		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD				RPD	RPD		MS		MSD				RPD	RPD	
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: BNA*97219 Method: 8270B - GC/MS for Semivolatile Organics, Capillary column, con't																						
Di-n-octylphthalate	ug/L	0	10	-	92	-	101	-	41	145	9	39	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	ug/L	0	10	-	98	-	111	-	41	144	12	41	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	0	10	-	88	-	96	-	53	129	9	27	-	-	-	-	-	-	-	-	-	-
Dibutylphthalate	ug/L	0	10	-	77	-	87	-	50	129	12	26	-	-	-	-	-	-	-	-	-	-
Diethylphthalate	ug/L	0	10	-	91	-	99	-	49	137	8	24	-	-	-	-	-	-	-	-	-	-
Dimethylphthalate	ug/L	0	10	-	89	-	100	-	55	134	11	27	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	0	10	-	78	-	88	-	52	128	13	27	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	0	10	-	93	-	104	-	55	126	11	20	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	0	10	-	77	-	86	-	50	136	11	35	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	0	10	-	76	-	87	-	16	136	14	39	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	0	10	-	89	-	102	-	6	209	14	32	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	0	10	-	80	-	90	-	24	119	11	36	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)pyrene	ug/L	0	10	-	114	-	126	-	30	172	10	49	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	0	10	-	55	-	60	-	36	103	8	50	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	0	10	-	102	-	112	-	37	125	9	20	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/L	0	10	-	84	-	94	-	44	118	11	39	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/L	0	10	-	85	-	95	-	40	110	12	25	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	0	10	-	82	-	92	-	54	128	12	29	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	0	10	-	46	-	51	-	25	125	10	20	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	0	20	-	73	-	88	-	28	136	19	20	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	0	10	-	88	-	98	-	47	136	10	20	-	-	-	-	-	-	-	-	-	-
Bis(2-chloroethoxy)methane	ug/L	0	10	-	91	-	102	-	32	127	12	31	-	-	-	-	-	-	-	-	-	-
Bis(2-chloroethyl)ether	ug/L	0	10	-	90	-	101	-	48	117	11	31	-	-	-	-	-	-	-	-	-	-
Bis(2-chloroisopropyl)ether	ug/L	0	10	-	87	-	97	-	39	155	10	35	-	-	-	-	-	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	ug/L	3.3	10	-	91	-	100	-	15	176	9	25	-	-	-	-	-	-	-	-	-	-
[2-Fluorobiphenyl]	Percent	90	-	-	87	-	99	-	43	125	-	-	-	-	-	-	-	-	-	-	-	-
[2-Fluorophenol]	Percent	64	-	-	69	-	76	-	25	125	-	-	-	-	-	-	-	-	-	-	-	-
[2,4,6-Tribromophenol]	Percent	86	-	-	93	-	107	-	25	134	-	-	-	-	-	-	-	-	-	-	-	-
[Nitrobenzene-d5]	Percent	77	-	-	87	-	100	-	32	125	-	-	-	-	-	-	-	-	-	-	-	-
[Phenol-d5]	Percent	53	-	-	54	-	58	-	25	125	-	-	-	-	-	-	-	-	-	-	-	-
[Terphenyl-d14]	Percent	73	-	-	83	-	94	-	42	126	-	-	-	-	-	-	-	-	-	-	-	-
Batch: DIESEL*97245 Method: 8015M - Modified 8015																						
TPH (Diesel Range)	mg/L	0	0.5	-	94	-	84	-	61	143	11	30	-	92	-	96	-	51	153	3	50	-
JP-5	mg/L	0	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
[Naphthalene]	Percent	74	-	-	67	-	59	-	55	127	-	-	-	62	-	63	-	55	127	-	-	-
[o-Terphenyl]	Percent	79	-	-	109	-	103	-	57	132	-	-	-	97	-	97	-	57	132	-	-	-

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AQUEOUS SAMPLES

Batch: CN*9795 Method: 9010A - Cyanide, Colorimetric, Manual

		B711275*1	C711536*1	.....	C711537*1	.....	9710570*2	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	20:50	20:50	20:50	20:50	20:50	20:50	-	20:50	20:50	20:50
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Date Distilled	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Distilled	Hours	18:15	18:15	18:15	18:15	18:15	18:15	-	18:15	18:15	18:15
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Total Cyanide	mg/L	0.0042	0.298	0.300	0.274	0.300	0	-	0.193	0.200	0.200

Batch: PH*97365.1 Method: 150.1 - pH, Electrometric

		N/A	C711016*1	.....	C711017*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	-	10/31/97	10/31/97	10/31/97	10/31/97	10/31/97	10/31/97	-	-	-
Time Analyzed	Hours	-	15:00	15:00	15:00	15:00	15:00	15:00	-	-	-
Date Calibrated	Date	-	10/31/97	10/31/97	10/31/97	10/31/97	10/31/97	10/31/97	-	-	-
pH	Units	-	5.95	6.00	5.95	6.00	8.2	8.2	-	-	-

Batch: DIG,AQ,GFA*972877 Method: 3020 - Acid Digestion of Aqueous etc.

		(BLANK)	(LCS)	.....	(LCSD)	.....	(MTX QC)	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Furnace Digestion	Date	11/04/97	11/04/97	11/04/97	11/04/97	11/04/97	11/04/97	11/04/97	11/04/97	11/04/97	11/04/97

Batch: PB,GFA*972877 Method: 7421 - Lead, AA, Furnace

		B711110*1	C711209*1	.....	C711210*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:49	11:02	11:02	11:04	11:04	10:56	-	10:58	11:00	11:00
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Lead	ug/L	0	51.0	50.0	50.2	50.0	3.0	-	25.4	24.8	23.0

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AQUEOUS SAMPLES

Batch: SE,GFA*972877 Method: 7740 - Selenium, AA, Furnace

		B711111*1	C711211*1	.....	C711212*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	13:10	13:25	13:25	13:27	13:27	13:17	-	13:20	13:22	13:22
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Selenium	ug/L	0	94.0	100	92.2	100	0	-	68.6	66.5	100

Batch: DIG,AQ*972880 Method: 3010 - Acid Digestion of Aqueous etc.

		(BLANK)	(LCS)	.....	(LCSD)	.....	(MTX QC)	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Digestion	Date	11/04/97	11/04/97	11/04/97	11/04/97	11/04/97	11/04/97	11/04/97	11/04/97	11/04/97	11/04/97

Batch: HG*972872 Method: 7470A - Mercury (Liquid), Cold Vapor AA, Manual

		B711439*1	C711850*1	.....	C711851*1	.....	9710570*2	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/01/97	11/04/97	11/04/97	11/04/97	11/04/97	11/04/97	-	11/04/97	11/04/97	11/04/97
Time Analyzed	Hours	15:06	15:12	15:12	15:13	15:13	15:07	-	15:08	15:09	15:09
Date Calibrated	Date	11/04/97	11/04/97	11/04/97	11/04/97	11/03/97	11/04/97	-	11/04/97	11/04/97	11/04/97
Date Digested	Date	11/03/97	11/03/97	11/03/97	11/03/97	11/03/97	11/03/97	-	11/03/97	11/03/97	11/03/97
Time Digested	Hours	12:00	12:00	12:00	12:00	12:00	12:00	-	12:00	12:00	12:00
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Mercury	ug/L	0	4.0	4.0	4.1	4.0	0	-	2.1	0	2.0

Batch: AS,GFA*972877 Method: 7060A - Arsenic, AA, Furnace

		B711109*1	C711207*1	.....	C711208*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	11:58	12:13	12:13	12:15	12:15	12:05	-	12:08	12:10	12:10
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Arsenic	ug/L	0.3	51.3	50.0	50.4	50.0	2.0	-	27.7	27.0	27.0

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Batch: AG*972880 Method: 6010A - ICAP Metals

		B711120*1	C711229*1	.....	C711230*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Silver	ug/L	0	208	200	210	200	0.62	-	415	418	500

Batch: AL*972880 Method: 6010A - ICAP Metals

		B711121*1	C711231*1	.....	C711232*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Aluminum	ug/L	0	948	1000	934	1000	250	-	1800	1770	1750

Batch: BA*972880 Method: 6010A - ICAP Metals

		B711122*1	C711233*1	.....	C711234*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Barium	ug/L	0	999	1000	1010	1000	81	-	569	573	581

Batch: BE*972880 Method: 6010A - ICAP Metals

		B711123*1	C711235*1	.....	C711236*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Beryllium	ug/L	0	385	400	386	400	0	-	97.8	98.6	100

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AQUEOUS SAMPLES

Batch: CA*972880 Method: 6010A - ICAP Metals

		B711124*1	C711237*1	.....	C711238*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Calcium	ug/L	0	49800	50000	50400	50000	60000	-	110000	109000	110000

Batch: CD*972880 Method: 6010A - ICAP Metals

		B711125*1	C711239*1	.....	C711240*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Cadmium	ug/L	0	504	500	507	500	0	-	489	491	500

Batch: CO*972880 Method: 6010A - ICAP Metals

		B711126*1	C711241*1	.....	C711242*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Cobalt	ug/L	0	1010	1000	1020	1000	4.2	-	489	492	500

Batch: CR*972880 Method: 6010A - ICAP Metals

		B711127*1	C711243*1	.....	C711244*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Chromium	ug/L	2.2	973	1000	985	1000	5.9	-	198	202	200

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Batch: CU*972880 Method: 6010A - ICAP Metals

		B711128*1	C711245*1	.....	C711246*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/06/97	11/06/97	11/06/97	11/06/97	11/06/97	11/06/97	-	11/06/97	11/06/97	11/06/97
Time Analyzed	Hours	14:12	14:20	14:20	14:21	14:21	14:14	-	14:15	14:16	14:16
Date Calibrated	Date	11/06/97	11/06/97	11/06/97	11/06/97	11/06/97	11/06/97	-	11/06/97	11/06/97	11/06/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Copper	ug/L	2.7	1010	1000	1040	1000	9.2	-	508	518	500

Batch: FE*972880 Method: 6010A - ICAP Metals

		B711129*1	C711247*1	.....	C711248*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Iron	ug/L	5.1	1030	1000	1030	1000	650	-	1630	1640	1650

Batch: K*972880 Method: 6010A - ICAP Metals

		B711130*1	C711249*1	.....	C711250*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Potassium	ug/L	85	49500	50000	50300	50000	6000	-	16000	16000	16000

Batch: MG*972880 Method: 6010A - ICAP Metals

		B711131*1	C711251*1	.....	C711252*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Magnesium	ug/L	0	50600	50000	51000	50000	24000	-	73900	74300	73600

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AQUEOUS SAMPLES

Batch: MN*972880 Method: 6010A - ICAP Metals

		B711132*1	C711253*1	.....	C711254*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Manganese	ug/L	0	1000	1000	1010	1000	17	-	117	118	117

Batch: MO*972880 Method: 6010A - ICAP Metals

		B711133*1	C711255*1	.....	C711256*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Molybdenum	ug/L	5.8	976	1000	983	1000	7.6	-	2860	2900	3000

Batch: NA*972880 Method: 6010A - ICAP Metals

		B711134*1	C711257*1	.....	C711258*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Sodium	ug/L	0	50400	50000	50900	50000	91000	-	143000	142000	141000

Batch: NI*972880 Method: 6010A - ICAP Metals

		B711135*1	C711259*1	.....	C711260*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Nickel	ug/L	0	1010	1000	1040	1000	0	-	483	499	500

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Batch: SB*972880 Method: 6010A - ICAP Metals

		B711136*1	C711261*1	.....	C711262*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Antimony	ug/L	0	1010	1000	989	1000	0	-	3480	3520	3500

Batch: TL*972880 Method: 6010A - ICAP Metals

		B711137*1	C711263*1	.....	C711264*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Thallium	ug/L	32	1020	1000	1030	1000	0	-	2880	2990	3000

Batch: V*972880 Method: 6010A - ICAP Metals

		B711138*1	C711265*1	.....	C711266*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Vanadium	ug/L	0	959	1000	974	1000	6.3	-	487	489	500

Batch: ZN*972880 Method: 6010A - ICAP Metals

		B711139*1	C711267*1	.....	C711268*1	.....	9710570*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	10:52	11:06	11:06	11:07	11:07	10:59	-	11:03	11:04	11:04
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Zinc	ug/L	3.9	1030	1000	1020	1000	31	-	535	542	531

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AQUEOUS SAMPLES

Batch: GAS*975152 Method: 8015M - Modified 8015

		B711463*1	C712799*1	.....	N/A	.....	9710531*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/03/97	11/03/97	11/03/97	-	-	11/03/97	-	11/03/97	11/03/97	11/03/97
Time Analyzed	Hours	13:00	09:41	09:41	-	-	-	-	-	-	-
Date Calibrated	Date	10/21/97	10/21/97	10/21/97	-	-	-	-	-	-	-
Dilution Factor	Times	1	1	1	-	-	1	-	1	1	1
Carbon Range	.	C6-C12	C6-C12	C6-C12	-	-	C6-C12	-	C6-C12	C6-C12	C6-C12
TPH (Gasoline Range)	mg/L	0	1.06	1.10	-	-	500	-	1470	1490	1600
a,a,a-Trifluorotoluene Rep.	mg/L	0.0556	0.0484	0.0500	-	-	47.6	-	52.6	52.2	50.0
a,a,a-Trifluorotoluene Th.	mg/L	0.0500	0.0500	0.0500	-	-	50.0	-	50.0	50.0	50.0

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AQUEOUS SAMPLES

Batch: VOA,8260*976135 Method: 8260A - Volatile Organics, GCMS

		B711659*1	C7111295*1	.....	N/A		9711037*7	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/10/97	11/10/97	11/10/97	-	-	11/10/97	-	11/10/97	11/10/97	11/10/97
Time Analyzed	Hours	12:21	11:00	11:00	-	-	-	-	-	-	-
Date Calibrated	Date	11/04/97	11/04/97	11/04/97	-	-	-	-	-	-	-
Dilution Factor	Times	1	1	1	-	-	1	-	1	1	1
1,1,1-Trichloroethane	ug/L	0	65.2	50.0	-	-	0	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	0	34.6	50.0	-	-	0	-	-	-	-
1,1,2-Trichloroethane	ug/L	0	61.3	50.0	-	-	0	-	-	-	-
1,1-Dichloroethane	ug/L	0	66.0	50.0	-	-	1.4	-	-	-	-
1,1-Dichloroethene	ug/L	0	61.5	50.0	-	-	0	-	90.5	93.6	64.0
1,2-Dichloroethane	ug/L	0	64.0	50.0	-	-	0	-	-	-	-
1,2-Dichloropropane	ug/L	0	60.9	50.0	-	-	0	-	-	-	-
2-Chloroethylvinylether	ug/L	0	75.5	100	-	-	0	-	-	-	-
2-Hexanone	ug/L	0	98.9	100	-	-	0	-	-	-	-
Acetone	ug/L	0	83.0	100	-	-	0	-	-	-	-
Bromodichloromethane	ug/L	0	60.6	50.0	-	-	0	-	-	-	-
Bromomethane	ug/L	0	42.8	50.0	-	-	0	-	-	-	-
Benzene	ug/L	0	58.2	50.0	-	-	0	-	59.9	67.0	50.0
Bromoform	ug/L	0	64.7	50.0	-	-	0	-	-	-	-
Chlorobenzene	ug/L	0	54.5	50.0	-	-	0	-	56.0	61.9	50.0
Carbon Tetrachloride	ug/L	0	60.1	50.0	-	-	0	-	-	-	-
Chloroethane	ug/L	0	53.0	50.0	-	-	0	-	-	-	-
Chloroform	ug/L	0	65.1	50.0	-	-	0	-	-	-	-
Chloromethane	ug/L	0	44.7	50.0	-	-	0	-	-	-	-
Carbon Disulfide	ug/L	0	124	100	-	-	0	-	-	-	-
Dibromochloromethane	ug/L	0	56.9	50.0	-	-	0	-	-	-	-
Ethylbenzene	ug/L	0	52.6	50.0	-	-	0	-	-	-	-
Methyl ethyl ketone	ug/L	0	92.4	100	-	-	0	-	-	-	-
Methyl isobutyl ketone	ug/L	0	139	100	-	-	0	-	-	-	-
Methyl-tert-butylether	ug/L	0.50	263	200	-	-	0	-	-	-	-
Methylene chloride	ug/L	0	54.8	50.0	-	-	0	-	-	-	-
Styrene	ug/L	0	54.8	50.0	-	-	0	-	-	-	-
Trichloroethene	ug/L	0	78.6	50.0	-	-	150	-	>200	>200	204
Toluene	ug/L	0.22	53.7	50.0	-	-	0	-	53.8	60.1	50.0
Tetrachloroethene	ug/L	0	52.0	50.0	-	-	1900	-	-	-	-
Vinyl acetate	ug/L	0	120	100	-	-	0	-	-	-	-
Vinyl chloride	ug/L	0	45.5	50.0	-	-	0.83	-	-	-	-
Total Xylene Isomers	ug/L	0	156	150	-	-	-	-	-	-	-

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AQUEOUS SAMPLES

Batch: VOA,8260*976135 Method: 8260A - Volatile Organics, GCMS, con't

		B711659*1	C7111295*1		N/A		9711037*7	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
cis-1,2-Dichloroethene	ug/L	0	62.6	50.0	-	-	7.7	-	-	-	-
cis-1,3-Dichloropropene	ug/L	0	48.9	50.0	-	-	0	-	-	-	-
trans-1,2-Dichloroethene	ug/L	0	63.6	50.0	-	-	0	-	-	-	-
trans-1,3-Dichloropropene	ug/L	0	48.7	50.0	-	-	0	-	-	-	-
1,2-Dichloroethane-d4 Rep.	ug/L	51.3	68.9	50.0	-	-	-	-	-	-	-
1,2-Dichloroethane-d4 Theo.	ug/L	50.0	50.0	50.0	-	-	-	-	-	-	-
4-Bromofluorobenzene Rep.	ug/L	51.0	52.4	50.0	-	-	51.7	-	58.2	58.2	50.0
4-Bromofluorobenzene Theo.	ug/L	50.0	50.0	50.0	-	-	50.0	-	50.0	50.0	50.0
Toluene-d8 Reported	ug/L	51.5	56.8	50.0	-	-	52.6	-	57.5	57.5	50.0
Toluene-d8 Theo.	ug/L	50.0	50.0	50.0	-	-	50.0	-	50.0	50.0	50.0
Dibromofluoromethane Rep.	ug/L	39.3	56.4	50.0	-	-	45.9	-	67.0	67.1	50.0
Dibromofluoromethane Theo.	ug/L	50.0	50.0	50.0	-	-	50.0	-	50.0	50.0	50.0

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AQUEOUS SAMPLES

Batch: CON,PEST*97207 Method: 8081 - Organochlorine Pesticides and PCBs

		B711809*1	C7111575*1	.....	C7111576*1	.....	N/A	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/04/97	11/04/97	11/04/97	11/04/97	11/04/97	-	-	-	-	-
Time Analyzed	Hours	19:57	20:41	20:41	21:25	21:25	-	-	-	-	-
Date Calibrated	Date	11/01/97	11/01/97	11/01/97	11/01/97	11/01/97	-	-	-	-	-
Date Extracted	Date	10/31/97	10/31/97	10/31/97	10/31/97	10/31/97	-	-	-	-	-
Time Extracted	Hours	16:25	16:25	16:25	16:25	16:25	-	-	-	-	-
Dilution Factor	Times	1	1	1	1	1	-	-	-	-	-
Aldrin	ug/L	0	0.200	0.250	0.196	0.250	-	-	-	-	-
p,p'-DDD	ug/L	0	0.209	0.250	0.187	0.250	-	-	-	-	-
p,p'-DDE	ug/L	0	0.204	0.250	0.190	0.250	-	-	-	-	-
p,p'-DDT	ug/L	0	0.199	0.250	0.180	0.250	-	-	-	-	-
Dieldrin	ug/L	0	0.190	0.250	0.182	0.250	-	-	-	-	-
Endosulfan I	ug/L	0	0.184	0.250	0.180	0.250	-	-	-	-	-
Endosulfan II	ug/L	0	0.205	0.250	0.187	0.250	-	-	-	-	-
Endosulfan sulfate	ug/L	0.017	0.245	0.250	0.218	0.250	-	-	-	-	-
Endrin	ug/L	0	0.288	0.250	0.263	0.250	-	-	-	-	-
Endrin aldehyde	ug/L	0	0.199	0.250	0.181	0.250	-	-	-	-	-
Endrin Ketone	ug/L	0.0035	0.225	0.250	0.208	0.250	-	-	-	-	-
Heptachlor epoxide	ug/L	0	0.208	0.250	0.204	0.250	-	-	-	-	-
Heptachlor	ug/L	0	0.191	0.250	0.192	0.250	-	-	-	-	-
Methoxychlor	ug/L	0	0.258	0.250	0.211	0.250	-	-	-	-	-
Toxaphene	ug/L	0	-	-	-	-	-	-	-	-	-
BHC, alpha isomer	ug/L	0	0.210	0.250	0.216	0.250	-	-	-	-	-
alpha-Chlordane	ug/L	0	-	-	-	-	-	-	-	-	-
BHC, beta isomer	ug/L	0	0.209	0.250	0.206	0.250	-	-	-	-	-
BHC, delta isomer	ug/L	0	0.206	0.250	0.204	0.250	-	-	-	-	-
BHC, gamma isomer (Lindane)	ug/L	0	0.197	0.250	0.200	0.250	-	-	-	-	-
gamma-Chlordane	ug/L	0	0.197	0.250	0.191	0.250	-	-	-	-	-
Decachlorobiphenyl Reported	ug/L	0.189	0.161	0.250	0.136	0.250	-	-	-	-	-
Decachlorobiphenyl Theoretical	ug/L	0.250	0.250	0.250	0.250	0.250	-	-	-	-	-
Tetrachloro-meta-xylene Rpt.	ug/L	0.173	0.148	0.250	0.166	0.250	-	-	-	-	-
Tetrachloro-meta-xylene Theor.	ug/L	0.250	0.250	0.250	0.250	0.250	-	-	-	-	-

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AQUEOUS SAMPLES

Batch: PCB*97207 Method: 8081 - Organochlorine Pesticides and PCBs

		B711301*1	C711113*1	.....	C711582*1	.....	N/A	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/04/97	11/05/97	11/05/97	11/05/97	11/05/97	-	-	-	-	-
Time Analyzed	Hours	19:57	16:07	16:07	16:47	16:47	-	-	-	-	-
Date Calibrated	Date	11/01/97	11/01/97	11/01/97	11/01/97	11/01/97	-	-	-	-	-
Date Extracted	Date	10/31/97	10/31/97	10/31/97	10/31/97	10/31/97	-	-	-	-	-
Time Extracted	Hours	16:25	16:25	16:25	16:25	16:25	-	-	-	-	-
Dilution Factor	Times	1	1	1	1	1	-	-	-	-	-
Aroclor 1016	ug/L	0	4.96	5.00	5.15	5.00	-	-	-	-	-
Aroclor 1221	ug/L	0	-	-	-	-	-	-	-	-	-
Aroclor 1232	ug/L	0	-	-	-	-	-	-	-	-	-
Aroclor 1242	ug/L	0	-	-	-	-	-	-	-	-	-
Aroclor 1248	ug/L	0	-	-	-	-	-	-	-	-	-
Aroclor 1254	ug/L	0	-	-	-	-	-	-	-	-	-
Aroclor 1260	ug/L	0	4.90	5.00	5.60	5.00	-	-	-	-	-
Decachlorobiphenyl Reported	ug/L	0.195	0.143	0.250	0.176	0.250	-	-	-	-	-
Decachlorobiphenyl Theoretical	ug/L	0.250	0.250	0.250	0.250	0.250	-	-	-	-	-
Tetrachloro-meta-xylene Rpt.	ug/L	0.210	0.189	0.250	0.176	0.250	-	-	-	-	-
Tetrachloro-meta-xylene Theor.	ug/L	0.250	0.250	0.250	0.250	0.250	-	-	-	-	-

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AQUEOUS SAMPLES

Batch: PEST*97207 Method: 8081 - Organochlorine Pesticides and PCBs

		B711057*1	C711114*1	.....	C711588*1	.....	9710590*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/04/97	11/04/97	11/04/97	11/04/97	11/04/97	11/18/97	-	11/18/97	11/18/97	11/18/97
Time Analyzed	Hours	19:57	20:41	20:41	21:25	21:25	-	-	-	-	-
Date Calibrated	Date	11/01/97	11/01/97	11/01/97	11/01/97	11/01/97	-	-	-	-	-
Date Extracted	Date	10/31/97	10/31/97	10/31/97	10/31/97	10/31/97	10/31/97	-	10/31/97	10/31/97	10/31/97
Time Extracted	Hours	16:25	16:25	16:25	16:25	16:25	-	-	-	-	-
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Aldrin	ug/L	0	0.222	0.250	0.225	0.250	0	-	0.236	0.189	0.250
p,p'-DDD	ug/L	0	0.206	0.250	0.188	0.250	0	-	0.285	0.252	0.250
p,p'-DDE	ug/L	0	0.216	0.250	0.205	0.250	0	-	0.241	0.203	0.250
p,p'-DDT	ug/L	0	0.236	0.250	0.211	0.250	0	-	0.190	0.167	0.250
Dieldrin	ug/L	0	0.210	0.250	0.203	0.250	0	-	0.210	0.177	0.250
Endosulfan I	ug/L	0	0.190	0.250	0.187	0.250	0	-	0.202	0.170	0.250
Endosulfan II	ug/L	0	0.214	0.250	0.201	0.250	0	-	0.195	0.183	0.250
Endosulfan sulfate	ug/L	0.013	0.232	0.250	0.210	0.250	0	-	0.253	0.208	0.250
Endrin	ug/L	0	0.232	0.250	0.215	0.250	0	-	0.280	0.233	0.250
Endrin aldehyde	ug/L	0	0.215	0.250	0.198	0.250	0	-	0.201	0.183	0.250
Endrin Ketone	ug/L	0.0054	0.220	0.250	0.197	0.250	-	-	-	-	-
Heptachlor epoxide	ug/L	0	0.216	0.250	0.216	0.250	0	-	0.227	0.191	0.250
Heptachlor	ug/L	0	0.220	0.250	0.220	0.250	0	-	0.224	0.186	0.250
Methoxychlor	ug/L	0	0.240	0.250	0.214	0.250	0	-	0.201	0.164	0.250
Toxaphene	ug/L	0	-	-	-	-	0	-	-	-	-
BHC, alpha isomer	ug/L	0	0.250	0.250	0.246	0.250	0	-	0.228	0.187	0.250
alpha-Chlordane	ug/L	0	-	-	-	-	-	-	-	-	-
BHC, beta isomer	ug/L	0	0.248	0.250	0.242	0.250	0	-	0.224	0.216	0.250
BHC, delta isomer	ug/L	0	0.233	0.250	0.229	0.250	0	-	0.245	0.204	0.250
BHC, gamma isomer (Lindane)	ug/L	0	0.233	0.250	0.238	0.250	0	-	0.239	0.198	0.250
gamma-Chlordane	ug/L	0	0.206	0.250	0.201	0.250	-	-	-	-	-
Decachlorobiphenyl Reported	ug/L	0.195	0.167	0.250	0.143	0.250	0.180	-	0.188	0.148	0.250
Decachlorobiphenyl Theoretical	ug/L	0.250	0.250	0.250	0.250	0.250	0.250	-	0.250	0.250	0.250
Tetrachloro-meta-xylene Rpt.	ug/L	0.210	0.181	0.250	0.184	0.250	0.184	-	0.196	0.174	0.250
Tetrachloro-meta-xylene Theor.	ug/L	0.250	0.250	0.250	0.250	0.250	0.250	-	0.250	0.250	0.250

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AQUEOUS SAMPLES

Batch: BNA*97219 Method: 8270B - GC/MS for Semivolatile Organics, Capillary column

		B711291*1	C711435*1	.....	C711436*1	.....	N/A	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/06/97	11/06/97	11/06/97	11/06/97	11/06/97	-	-	-	-	-
Time Analyzed	Hours	14:11	15:00	15:00	15:49	15:49	-	-	-	-	-
Date Calibrated	Date	11/03/97	11/03/97	11/03/97	11/03/97	11/03/97	-	-	-	-	-
Date Extracted	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	-	-	-	-
Time Extracted	Hours	11:00	11:00	11:00	11:00	11:00	-	-	-	-	-
Dilution Factor	Times	1	1	1	1	1	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	0	76.7	100	87.8	100	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	0	85.0	100	95.4	100	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	0	75.8	100	86.7	100	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0	73.7	100	84.6	100	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	0	83.2	100	95.5	100	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	0	79.6	100	91.9	100	-	-	-	-	-
2,4-Dichlorophenol	ug/L	0	74.7	100	86.0	100	-	-	-	-	-
2,4-Dimethylphenol	ug/L	0	75.2	100	86.2	100	-	-	-	-	-
2,4-Dinitrophenol	ug/L	0	65.4	100	80.1	100	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	0	83.4	100	92.6	100	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	0	78.6	100	87.8	100	-	-	-	-	-
2-Chloronaphthalene	ug/L	0	59.4	100	66.0	100	-	-	-	-	-
2-Chlorophenol	ug/L	0	78.9	100	89.5	100	-	-	-	-	-
2-Methyl-4,6-dinitrophenol	ug/L	0	70.3	100	82.5	100	-	-	-	-	-
2-Methylnaphthalene	ug/L	0	84.6	100	95.8	100	-	-	-	-	-
2-Methylphenol (o-Cresol)	ug/L	0	70.1	100	78.2	100	-	-	-	-	-
2-Nitroaniline	ug/L	0	86.5	100	95.3	100	-	-	-	-	-
2-Nitrophenol	ug/L	0	76.6	100	87.7	100	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	0	79.5	200	91.8	200	-	-	-	-	-
3-Nitroaniline	ug/L	0	89.2	100	97.8	100	-	-	-	-	-
4-Bromophenylphenylether	ug/L	0	80.0	100	89.8	100	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	0	83.9	100	93.7	100	-	-	-	-	-
4-Chloroaniline	ug/L	0	90.4	100	98.5	100	-	-	-	-	-
4-Chlorophenylphenylether	ug/L	0	85.8	100	97.9	100	-	-	-	-	-
4-Methylphenol (p-Cresol)	ug/L	0	76.8	100	86.2	100	-	-	-	-	-
4-Nitroaniline	ug/L	0	101	100	110	100	-	-	-	-	-
4-Nitrophenol	ug/L	0	23.2	100	38.6	100	-	-	-	-	-
Acenaphthene	ug/L	0	82.0	100	93.4	100	-	-	-	-	-
Acenaphthylene	ug/L	0	89.3	100	101	100	-	-	-	-	-
Anthracene	ug/L	0	78.5	100	87.6	100	-	-	-	-	-
Benzo(a)anthracene	ug/L	0	97.5	100	108	100	-	-	-	-	-

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AQUEOUS SAMPLES

Batch: BNA*97219 Method: 8270B - GC/MS for Semivolatile Organics, Capillary column, con't

		B711291*1	C711435*1		C711436*1		N/A	.....	.....	.....	
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Benzo(a)pyrene	ug/L	0	94.1	100	103	100	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	0	98.0	100	114	100	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	0	102	100	114	100	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	0	87.2	100	91.8	100	-	-	-	-	-
Butylbenzylphthalate	ug/L	0	96.5	100	106	100	-	-	-	-	-
Chrysene	ug/L	0	96.7	100	105	100	-	-	-	-	-
Di-n-octylphthalate	ug/L	0	92.0	100	101	100	-	-	-	-	-
Dibenzo(a,h)anthracene	ug/L	0	98.4	100	111	100	-	-	-	-	-
Dibenzofuran	ug/L	0	87.6	100	96.1	100	-	-	-	-	-
Dibutylphthalate	ug/L	0	76.9	100	86.6	100	-	-	-	-	-
Diethylphthalate	ug/L	0	91.3	100	99.4	100	-	-	-	-	-
Dimethylphthalate	ug/L	0	88.7	100	99.5	100	-	-	-	-	-
Fluoranthene	ug/L	0	77.9	100	88.4	100	-	-	-	-	-
Fluorene	ug/L	0	93.3	100	104	100	-	-	-	-	-
Hexachlorobenzene	ug/L	0	77.3	100	86.4	100	-	-	-	-	-
Hexachlorobutadiene	ug/L	0	76.0	100	87.4	100	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	0	88.6	100	102	100	-	-	-	-	-
Hexachloroethane	ug/L	0	80.0	100	89.6	100	-	-	-	-	-
Indeno(1,2,3-c,d)pyrene	ug/L	0	114	100	126	100	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	0	55.3	100	60.1	100	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	0	102	100	112	100	-	-	-	-	-
Nitrobenzene	ug/L	0	83.8	100	93.7	100	-	-	-	-	-
Naphthalene	ug/L	0	84.7	100	95.1	100	-	-	-	-	-
Phenanthrene	ug/L	0	81.5	100	91.7	100	-	-	-	-	-
Phenol	ug/L	0	46.0	100	50.6	100	-	-	-	-	-
Pentachlorophenol	ug/L	0	72.6	100	87.5	100	-	-	-	-	-
Pyrene	ug/L	0	88.2	100	97.6	100	-	-	-	-	-
Bis(2-chloroethoxy)methane	ug/L	0	90.5	100	102	100	-	-	-	-	-
Bis(2-chloroethyl)ether	ug/L	0	90.4	100	101	100	-	-	-	-	-
Bis(2-chloroisopropyl)ether	ug/L	0	87.4	100	96.9	100	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	ug/L	3.3	91.2	100	99.7	100	-	-	-	-	-
2-Fluorobiphenyl Reported	ug/L	45.1	43.7	50.0	49.7	50.0	-	-	-	-	-
2-Fluorobiphenyl Theo.	ug/L	50.0	50.0	50.0	50.0	50.0	-	-	-	-	-
2-Fluorophenol Reported	ug/L	48.1	51.9	75.0	57.1	75.0	-	-	-	-	-
2-Fluorophenol Theoretical	ug/L	75.0	75.0	75.0	75.0	75.0	-	-	-	-	-
2,4,6-Tribromophenol Rep.	ug/L	64.7	70.0	75.0	80.5	75.0	-	-	-	-	-
2,4,6-Trib[illegible]phenol Theo.	ug/L	75.0	75.0	75.0	75.0	75.0	-	-	-	-	-

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AQUEOUS SAMPLES

Batch: BNA*97219 Method: 8270B - GC/MS for Semivolatile Organics, Capillary column, con't

		B711291*1	C711435*1	.....	C711436*1	.....	N/A	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Nitrobenzene-d5 Reported	ug/L	38.7	43.4	50.0	50.2	50.0	-	-	-	-	-
Nitrobenzene-d5 Theoretical	ug/L	50.0	50.0	50.0	50.0	50.0	-	-	-	-	-
Phenol-d5 Reported	ug/L	39.5	40.3	75.0	43.8	75.0	-	-	-	-	-
Phenol-d5 Theoretical	ug/L	75.0	75.0	75.0	75.0	75.0	-	-	-	-	-
Terphenyl-d14 Reported	ug/L	36.6	41.7	50.0	47.1	50.0	-	-	-	-	-
Terphenyl-d14 Theoretical	ug/L	50.0	50.0	50.0	50.0	50.0	-	-	-	-	-

Batch: DIESEL*97245 Method: 8015M - Modified 8015

		B711105*1	C711199*1	.....	C711200*1	.....	9710489*3	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/04/97	11/04/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Time Analyzed	Hours	22:53	23:27	23:27	01:41	01:41	-	-	-	-	-
Date Calibrated	Date	09/24/97	09/24/97	09/24/97	09/24/97	09/24/97	-	-	-	-	-
Date Extracted	Date	11/03/97	11/03/97	11/03/97	11/03/97	11/03/97	11/03/97	-	11/03/97	11/03/97	11/03/97
Time Extracted	Hours	11:30	11:30	11:30	11:30	11:30	-	-	-	-	-
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
TPH (Diesel Range)	mg/L	0	0.938	1.00	0.841	1.00	0.32	-	0.946	0.973	1.00
JP-5	mg/L	0	-	-	-	-	-	-	-	-	-
Carbon Range	.	C8-C25	C10-C32	C10-C25	C10-C25	C10-C25	C10-C32	-	C10-C25	C10-C25	C10-C25
Naphthalene Reported	mg/L	0.0371	0.0337	0.0500	0.0294	0.0500	0.0400	-	0.0312	0.0315	0.0500
Naphthalene Theoretical	mg/L	0.0500	0.0500	0.0500	0.0500	0.0500	0.0500	-	0.0500	0.0500	0.0500
o-Terphenyl Reported	mg/L	0.0397	0.0544	0.0500	0.0515	0.0500	0.0598	-	0.0485	0.0486	0.0500
o-Terphenyl Theoretical	mg/L	0.0500	0.0500	0.0500	0.0500	0.0500	0.0500	-	0.0500	0.0500	0.0500

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 10:55:47 08 DEC 1997 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG	LCL	UCL
9710570*1									
8015M	a,a,a-Trifluorotoluene	Re975152	11/03/97	0.0466	0.0500	93		76	126
8260A	1,2-Dichloroethane-d4	Rep976135	11/10/97	44.6	50.0	89		62	139
	Dibromofluoromethane	Rep.976135	11/10/97	40.7	50.0	81		75	125
	Toluene-d8	976135	11/10/97	50.9	50.0	102		75	125
	4-Bromofluorobenzene	Rep.976135	11/10/97	48.0	50.0	96		75	125
9710570*2									
8081	Tetrachloro-meta-xylene	R97207	11/04/97	0.234	0.250	94		45	125
	Decachlorobiphenyl	97207	11/04/97	0.252	0.250	101		34	133
8081	Tetrachloro-meta-xylene	R97207	11/04/97	0.234	0.250	94		45	125
	Decachlorobiphenyl	97207	11/04/97	0.252	0.250	101		34	133
8270B	2-Fluorophenol	97219	11/06/97	40.7	75.0	54		25	125
	Phenol-d5	97219	11/06/97	33.8	75.0	45		25	125
	Nitrobenzene-d5	97219	11/06/97	33.9	50.0	68		32	125
	2-Fluorobiphenyl	97219	11/06/97	39.6	50.0	79		43	125
	2,4,6-Tribromophenol	Rep.97219	11/06/97	60.6	75.0	81		25	134
	Terphenyl-d14	97219	11/06/97	37.1	50.0	74		42	126
8015M	Naphthalene	97245	11/05/97	0.0378	0.0500	76		55	127
	o-Terphenyl	97245	11/05/97	0.0436	0.0500	87		57	132
8015M	a,a,a-Trifluorotoluene	Re975152	11/03/97	0.0469	0.0500	94		76	126
8260A	1,2-Dichloroethane-d4	Rep976135	11/10/97	44.7	50.0	89		62	139
	Dibromofluoromethane	Rep.976135	11/10/97	39.9	50.0	80		75	125
	Toluene-d8	976135	11/10/97	50.2	50.0	100		75	125
	4-Bromofluorobenzene	Rep.976135	11/10/97	49.0	50.0	98		75	125
8081	Tetrachloro-meta-xylene	R97207	11/04/97	0.189	0.250	76		45	125
	Decachlorobiphenyl	97207	11/04/97	0.233	0.250	93		34	133
9710570*3									
8081	Tetrachloro-meta-xylene	R97207	11/04/97	0.232	0.250	93		45	125
	Decachlorobiphenyl	97207	11/04/97	0.148	0.250	59		34	133
8081	Tetrachloro-meta-xylene	R97207	11/04/97	0.232	0.250	93		45	125
	Decachlorobiphenyl	97207	11/04/97	0.148	0.250	59		34	133
8270B	2-Fluorophenol	97219	11/06/97	45.9	75.0	61		25	125
	Phenol-d5	97219	11/06/97	40.2	75.0	54		25	125
	Nitrobenzene-d5	97219	11/06/97	35.3	50.0	71		32	125
	2-Fluorobiphenyl	97219	11/06/97	39.4	50.0	79		43	125
	2,4,6-Tribromophenol	Rep.97219	11/06/97	59.8	75.0	80		25	134
	Terphenyl-d14	97219	11/06/97	32.4	50.0	65		42	126
8015M	Naphthalene	97245	11/05/97	0.0344	0.0500	69		55	127
	o-Terphenyl	97245	11/05/97	0.0375	0.0500	75		57	132
8015M	a,a,a-Trifluorotoluene	Re975152	11/03/97	0.0475	0.0500	95		76	126
8260A	1,2-Dichloroethane-d4	Rep976135	11/10/97	47.3	50.0	95		62	139
	Dibromofluoromethane	Rep.976135	11/10/97	39.0	50.0	78		75	125
	Toluene-d8	976135	11/10/97	51.4	50.0	103		75	125
	4-Bromofluorobenzene	Rep.976135	11/10/97	48.4	50.0	97		75	125
8081	Tetrachloro-meta-xylene	R97207	11/04/97	0.192	0.250	77		45	125
	Decachlorobiphenyl	97207	11/04/97	0.142	0.250	57		34	133

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 10:57:22 08 DEC 1997 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG	LCL	UCL
9710489*3*R1									
8015M	Naphthalene	97245	11/05/97	0.0400	0.0500	80		55	127
	o-Terphenyl	97245	11/05/97	0.0598	0.0500	120		57	132
9710489*3*S1									
8015M	Naphthalene	97245	11/05/97	0.0312	0.0500	62		55	127
	o-Terphenyl	97245	11/05/97	0.0485	0.0500	97		57	132
9710489*3*S2									
8015M	Naphthalene	97245	11/05/97	0.0315	0.0500	63		55	127
	o-Terphenyl	97245	11/05/97	0.0486	0.0500	97		57	132
B711105*1*MB									
8015M	Naphthalene	97245	11/04/97	0.0371	0.0500	74		55	127
	o-Terphenyl	97245	11/04/97	0.0397	0.0500	79		57	132
C711199*1*LC									
8015M	Naphthalene	97245	11/04/97	0.0337	0.0500	67		55	127
	o-Terphenyl	97245	11/04/97	0.0544	0.0500	109		57	132
C711200*1*LC									
8015M	Naphthalene	97245	11/04/97	0.0294	0.0500	59		55	127
	o-Terphenyl	97245	11/04/97	0.0515	0.0500	103		57	132
B711463*1*MB									
8015M	a,a,a-Trifluorotoluene	Re975152	11/03/97	0.0556	0.0500	111		76	126
C712799*1*LC									
8015M	a,a,a-Trifluorotoluene	Re975152	11/03/97	0.0484	0.0500	97		76	126
9710531*3*R1									
8015M.TX	a,a,a-Trifluorotoluene	Re975152	11/03/97	47.6	50.0	95		85	118
9710531*3*S1									
8015M.TX	a,a,a-Trifluorotoluene	Re975152	11/03/97	52.6	50.0	105		85	118
9710531*3*S2									
8015M.TX	a,a,a-Trifluorotoluene	Re975152	11/03/97	52.2	50.0	104		85	118
8711098*1*MB									
8015M.TX	a,a,a-Trifluorotoluene	Re975152	11/03/97	55.6	50.0	111		85	118
9710590*1*S1									

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 10:57:26 08 DEC 1997 - P. 2 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG	LCL	UCL
8080	Tetrachloro-meta-xylene	R97207	11/18/97	0.196	0.250	78		20	142
	Decachlorobiphenyl	97207	11/18/97	0.188	0.250	75		20	147
9710590*1*S2									
8080	Tetrachloro-meta-xylene	R97207	11/18/97	0.174	0.250	70		20	142
	Decachlorobiphenyl	97207	11/18/97	0.148	0.250	59		20	147
B711057*1*MB									
8080	Tetrachloro-meta-xylene	R97207	11/04/97	0.210	0.250	84		20	142
	Decachlorobiphenyl	97207	11/04/97	0.195	0.250	78		20	147
B711301*1*MB									
8080	Tetrachloro-meta-xylene	R97207	11/04/97	0.210	0.250	84		20	142
	Decachlorobiphenyl	97207	11/04/97	0.195	0.250	78		20	147
B711809*1*MB									
8080	Tetrachloro-meta-xylene	R97207	11/04/97	0.173	0.250	69		20	142
	Decachlorobiphenyl	97207	11/04/97	0.189	0.250	76		20	147
C711113*1*LC									
8[illegible]	Tetrachloro-meta-xylene	R97207	11/05/97	0.189	0.250	76		20	142
	Decachlorobiphenyl	97207	11/05/97	0.143	0.250	57		20	147
C711114*1*LC									
8080	Tetrachloro-meta-xylene	R97207	11/04/97	0.181	0.250	72		20	142
	Decachlorobiphenyl	97207	11/04/97	0.167	0.250	67		20	147
C711582*1*LC									
8080	Tetrachloro-meta-xylene	R97207	11/05/97	0.176	0.250	70		20	142
	Decachlorobiphenyl	97207	11/05/97	0.176	0.250	70		20	147
C711588*1*LC									
8080	Tetrachloro-meta-xylene	R97207	11/04/97	0.184	0.250	74		20	142
	Decachlorobiphenyl	97207	11/04/97	0.143	0.250	57		20	147
C7111575*1*LC									
8080	Tetrachloro-meta-xylene	R97207	11/04/97	0.148	0.250	59		20	142
	Decachlorobiphenyl	97207	11/04/97	0.161	0.250	64		20	147
C7111576*1*LC									
8080	Tetrachloro-meta-xylene	R97207	11/04/97	0.166	0.250	66		20	142
	Decachlorobiphenyl	97207	11/04/97	0.136	0.250	54		20	147
9711037*7*R1									
8260A	Toluene-d8	976135	11/10/97	52.6	50.0	105		75	125

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 10:57:37 08 DEC 1997 - P. 3 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG	LCL	UCL
	4-Bromofluorobenzene Rep.	976135	11/10/97	51.7	50.0	103		75	125
	Dibromofluoromethane Rep.	976135	11/10/97	45.9	50.0	92		75	125
9711037*7*S1									
8260A	Toluene-d8	976135	11/10/97	57.5	50.0	115		75	125
	4-Bromofluorobenzene Rep.	976135	11/10/97	58.2	50.0	116		75	125
	Dibromofluoromethane Rep.	976135	11/10/97	67.0	50.0	134	Q	75	125
9711037*7*S2									
8260A	Toluene-d8	976135	11/10/97	57.5	50.0	115		75	125
	4-Bromofluorobenzene Rep.	976135	11/10/97	58.2	50.0	116		75	125
	Dibromofluoromethane Rep.	976135	11/10/97	67.1	50.0	134	Q	75	125
B711659*1*MB									
8260A	1,2-Dichloroethane-d4 Rep	976135	11/10/97	51.3	50.0	103		62	139
	Dibromofluoromethane Rep.	976135	11/10/97	39.3	50.0	79		75	125
	Toluene-d8	976135	11/10/97	51.5	50.0	103		75	125
	4-Bromofluorobenzene Rep.	976135	11/10/97	51.0	50.0	102		75	125
C7111295*1*LC									
8260A	1,2-Dichloroethane-d4 Rep	976135	11/10/97	68.9	50.0	138		62	139
	Dibromofluoromethane Rep.	976135	11/10/97	56.4	50.0	113		75	125
	Toluene-d8	976135	11/10/97	56.8	50.0	114		75	125
	4-Bromofluorobenzene Rep.	976135	11/10/97	52.4	50.0	105		75	125
9710590*1*R1									
8080	Tetrachloro-meta-xylene R	97207	11/18/97	0.184	0.250	74		20	142
	Decachlorobiphenyl	97207	11/18/97	0.180	0.250	72		20	147
8080	Tetrachloro-meta-xylene R	97207	11/18/97	0.184	0.250	74		20	142
	Decachlorobiphenyl	97207	11/18/97	0.180	0.250	72		20	147
B711291*1*MB									
8270	2-Fluorophenol	97219	11/06/97	48.1	75.0	64		21	100
	Phenol-d5	97219	11/06/97	39.5	75.0	53		10	94
	Nitrobenzene-d5	97219	11/06/97	38.7	50.0	77		35	114
	2-Fluorobiphenyl	97219	11/06/97	45.1	50.0	90		43	116
	2,4,6-Tribromophenol Rep.	97219	11/06/97	64.7	75.0	86		10	123
	Terphenyl-d14	97219	11/06/97	36.6	50.0	73		33	141
C711435*1*LC									
8270	2-Fluorophenol	97219	11/06/97	51.9	75.0	69		21	100
	Phenol-d5	97219	11/06/97	40.3	75.0	54		10	93
	Nitrobenzene-d5	97219	11/06/97	43.4	50.0	87		37	114
	2-Fluorobiphenyl	97219	11/06/97	43.7	50.0	87		43	116
	2,4,6-Tribromophenol Rep.	97219	11/06/97	70.0	75.0	93		40	123
	Terphenyl-d14	97219	11/06/97	41.7	50.0	83		33	141
C711436*1*LC									

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 10:57:58 08 DEC 1997 - P. 4 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG	LCL	UCL
8270	2-Fluorophenol	97219	11/06/97	57.1	75.0	76		21	100
	Phenol-d5	97219	11/06/97	43.8	75.0	58		10	93
	Nitrobenzene-d5	97219	11/06/97	50.2	50.0	100		37	114
	2-Fluorobiphenyl	97219	11/06/97	49.7	50.0	99		43	116
	2,4,6-Tribromophenol Rep.	97219	11/06/97	80.5	75.0	107		40	123
	Terphenyl-d14	97219	11/06/97	47.1	50.0	94		33	141

ACRONYMS AND FLAG DEFINITIONS

Flag Definitions:

*	Duplicate values. Replicate results are entered into the MS/MSD column of the QC report. RPD calculated when sample concentration is at least five times RDL.
B	Blank contamination. Used when associated method blank concentration is greater than the PQL.
J	Estimated value. Used for sample results greater than or equal to MDL, but less than the PQL.
NC	Not calculated. Used when sample result is greater than two times the spike amount added, or when extracted surrogates were diluted below detectable levels.
Q	Quality objectives were not met. Used for Method Blank, Laboratory Control Samples, Matrix Spikes, Matrix Duplicates and Surrogates.

Acronyms:

COC	Chain of Custody
FLG	Flag
J	Estimated value between the MDL and PQL
LC	Actual LCS/LCSD concentration recovered
LCL	Lower Control Limit
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LT	True LCS/LCSD concentration
MB	Method Blank
MS	Matrix Spike
MSD	Matrix Spike Duplicate
MDL	Method Detection Limit
R1	Unspiked sample concentration
RDL	Reporting Detection Limit
%REC	Percent Recovery
Rep.	Surrogate Reported value
RPD	Relative Percent Difference
S1	Actual MS concentration
S2	Actual MSD concentration
T	True concentration of MS/MSD
Theo.	Surrogate Theoretical value
U	Not detected above the MDL
UCL	Upper Control Limit

: ORDER PLACED FOR CLIENT: OHM Remediation Services Corp. 9711110 :
: VOC ANALYTICAL : GLEN LAB : 10:31:55 16 DEC 1997 - P. 1 :

000020

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
9711110*1	18609-759	PEST.8081.OHM	11.09.97	8081	536-26	97210	8042
		PCB.8081	11.09.97	8081	536-26	97210	8042
		CON,PEST.8081.OHM	11.09.97	8081	536-26	97210	8042
		AL.AF	11.13.97	6010A	535-02	972942	8488
		SB.AF	11.13.97	6010A	535-02	972942	8488
		AS,GFA.AF	11.12.97	7060A	534-07	972941	1003
		BA.AF	11.13.97	6010A	535-02	972942	8488
		BE.AF	11.13.97	6010A	535-02	972942	8488
		CD.AF	11.13.97	6010A	535-02	972942	8488
		CA.AF	11.13.97	6010A	535-02	972942	8488
		CR.AF	11.13.97	6010A	535-02	972942	8488
		CO.AF	11.13.97	6010A	535-02	972942	8488
		CU.AF	11.13.97	6010A	535-02	972942	8488
		FE.AF	11.13.97	6010A	535-02	972942	8488
		PB,GFA.AF	11.12.97	7421	534-07	972941	1003
		MG.AF	11.13.97	6010A	535-02	972942	8488
		MN.AF	11.13.97	6010A	535-02	972942	8488
		NI.AF	11.13.97	6010A	535-02	972942	8488
		K.AF	11.13.97	6010A	535-02	972942	8488
		SE,GFA.AF	11.12.97	7740	534-07	972941	1003
		AG.AF	11.13.97	6010A	535-02	972942	8488
		NA.AF	11.13.97	6010A	535-02	972942	8488
		TL.AF	11.13.97	6010A	535-02	972942	8488
		V.AF	11.13.97	6010A	535-02	972942	8488
		ZN.AF	11.13.97	6010A	535-02	972942	8488
		HG.AF	11.11.97	7470A	534-06	972936	1002
		CN.AF	11.11.97	9010A	533-15	9797	1021
		PH.AF	11.06.97	9040	533-21	97369.1	8651
		DIG,AQ.HCL	11.11.97	3010		972942	7620
		DIG,AQ,GFA	11.11.97	3020		972941	7620
		BNA.8270.OHM	11.14.97	8270B	537-14	97222	1009
		DIESEL.3520.OHM	11.12.97	8015M	536-01	97248	8866
		GAS.5030.AF	11.10.97	8015M	536-23	975158	7424
		VOA,8260.OHM	11.14.97	8260A	537-06	976143	7430
		MO.AF	11.13.97	6010A	535-02	972942	8488
711110*2	18609-760	GAS.5030.AF	11.10.97	8015M	536-23	975158	7424
		VOA,8260.OHM	11.14.97	8260A	537-06	976143	

**

Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

VOC ANALYTICAL, GLENDALE
QC REPORT FOR 9711110
DATE PRINTED: 16 DEC 1997

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AQUEOUS SAMPLES	METHOD BLANK				LAB CONTROL									MATRIX QC								
	UNITS	RESULT	RL	FLG	LCS %REC	FLG	LCSD %REC	FLG	LCL	UCL	RPD	RPD UCL	RPD FLG	MS %REC	FLG	MSD %REC	FLG	LCL	UCL	RPD	RPD UCL	RPD FLG
Batch: CN*9797 Method: 9010A - Cyanide, Colorimetric, Manual																						
Total Cyanide	mg/L	0.0016	0.02	-	92	-	86	Q	90	110	7	-	-	86	-	95	-	80	120	9	20	-
Batch: PH*97369.1 Method: 9040 - pH																						
pH	-	-	-	-	100	-	100	-	99	101	0	-	-	-	-	-	-	-	-	-	-	-
														8.0	*	8.0	*	-	-	0	20	-
Batch: PB,GFA*972941 Method: 7421 - Lead, AA, Furnace																						
Lead	ug/L	0	5	-	94	-	91	-	74	124	3	-	-	101	-	93	-	74	124	5	15	-
Batch: SE,GFA*972941 Method: 7740 - Selenium, AA, Furnace																						
Selenium	ug/L	0	5	-	91	-	86	-	73	122	5	-	-	75	-	71	Q	73	122	6	15	-
Batch: HG*972936 Method: 7470A - Mercury (Liquid), Cold Vapor AA, Manual																						
Mercury	ug/L	0	0.2	-	110	-	115	-	77	120	4	15	-	100	-	100	-	77	120	0	15	-
Batch: AS,GFA*972941 Method: 7060A - Arsenic, AA, Furnace																						
Arsenic	ug/L	0	5	-	98	-	96	-	74	120	2	-	-	89	-	86	-	74	120	3	15	-
Batch: AG*972942 Method: 6010A - ICAP Metals																						
Silver	ug/L	5.1	50	-	107	-	109	-	80	120	2	15	-	88	-	87	-	80	120	1	15	-
Aluminum	ug/L	23	500	-	94	-	91	-	80	120	4	15	-	105	-	101	-	80	120	3	15	-
Barium	ug/L	0	100	-	98	-	100	-	80	120	2	15	-	97	-	96	-	80	120	0	15	-
Beryllium	ug/L	0.2	10	-	99	-	101	-	80	120	2	15	-	101	-	100	-	80	120	1	15	-
Calcium	ug/L	0	1000	-	98	-	100	-	80	120	2	15	-	100	-	96	-	80	120	2	15	-
Cadmium	ug/L	0	5	-	104	-	106	-	80	120	2	15	-	102	-	102	-	80	120	0	15	-
Cobalt	ug/L	4.2	50	-	102	-	104	-	80	120	2	15	-	99	-	100	-	80	120	0	15	-
Chromium	ug/L	0	50	-	98	-	99	-	80	120	1	15	-	100	-	100	-	80	120	0	15	-
Copper	ug/L	0	50	-	99	-	101	-	80	120	3	15	-	98	-	98	-	80	120	0	15	-
Iron	ug/L	4.8	50	-	104	-	106	-	80	120	2	15	-	103	-	100	-	80	120	2	15	-
Potassium	ug/L	0	5000	-	97	-	100	-	80	120	2	15	-	97	-	97	-	80	120	0	15	-
Magnesium	ug/L	30	1000	-	96	-	99	-	80	120	2	15	-	97	-	96	-	80	120	1	15	-
Manganese	ug/L	0	20	-	100	-	103	-	80	120	3	15	-	102	-	101	-	80	120	1	15	-
Molybdenum	ug/L	0	100	-	100	-	102	-	80	120	2	15	-	98	-	99	-	80	120	1	15	-
Sodium	ug/L	0	1000	-	98	-	100	-	80	120	2	15	-	100	-	98	-	80	120	1	15	-
Nickel	ug/L	5.4	150	-	107	-	107	-	80	120	0	15	-	104	-	103	-	80	120	1	15	-
Antimony	ug/L	23	500	-	103	-	105	-	80	120	2	15	-	101	-	101	-	80	120	0	15	-
Thallium	ug/L	16	400	-	105	-	109	-	80	120	4	15	-	99	-	99	-	80	120	0	15	-
Vanadium	ug/L	0	100	-	97	-	9[illegible]	-	80	120	2	15	-	99	-	99	-	80	120	1	15	-
Zinc	ug/L	0	20	-	105	-	107	-	80	120	2	15	-	104	-	105	-	80	120	0	15	-

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AQUEOUS SAMPLES

		METHOD BLANK			LAB CONTROL									MATRIX QC									
					LCS		LCSD				RPD	RPD		MS		MSD				RPD	RPD		
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	
Batch: GAS*975158 Method: 8015M - Modified 8015																							
TPH (Gasoline Range)	mg/L	0	0.1	-	97	-	-	-	67	136	-	-	-	95	-	95	-	67	136	1	30	-	
[a,a,a-Trifluorotoluene]	Percent	99	-	-	99	-	-	-	76	126	-	-	-	101	-	101	-	76	126	-	-	-	

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AQUEOUS SAMPLES

Batch: VOA,8260*976143 Method: 8260A - Volatile Organics, GCMS

	METHOD BLANK				LAB CONTROL									MATRIX QC								
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
1,1,1-Trichloroethane	ug/L	0	5	-	115	-	-	-	71	132	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	0	5	-	123	-	-	-	50	134	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/L	0	5	-	100	-	-	-	67	133	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	0	5	-	116	-	-	-	49	135	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/L	0	5	-	119	-	-	-	75	125	-	-	-	116	-	127	Q	75	125	9	20	-
1,2-Dichloroethane	ug/L	0	5	-	113	-	-	-	68	129	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	0	5	-	110	-	-	-	68	127	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethylvinylether	ug/L	0	50	-	101	-	-	-	1	214	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	ug/L	0	50	-	119	-	-	-	20	149	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ug/L	2.5	50	-	150	-	-	-	32	176	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	0	5	-	95	-	-	-	69	132	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	ug/L	0	5	-	93	-	-	-	55	146	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	ug/L	0	5	-	97	-	-	-	75	125	-	-	-	85	-	90	-	75	125	6	20	-
Bromoform	ug/L	0	5	-	124	-	-	-	53	148	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	ug/L	0	5	-	120	-	-	-	75	125	-	-	-	103	-	110	-	75	125	6	20	-
Carbon Tetrachloride	ug/L	0	5	-	104	-	-	-	70	140	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	0	5	-	112	-	-	-	52	137	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	ug/L	0	5	-	104	-	-	-	77	128	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	ug/L	0	5	-	105	-	-	-	37	129	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	ug/L	0	5	-	99	-	-	-	37	140	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	0	5	-	121	-	-	-	65	142	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	0	5	-	107	-	-	-	80	135	-	-	-	-	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/L	0	50	-	126	-	-	-	5	153	-	-	-	-	-	-	-	-	-	-	-	-
Methyl isobutyl ketone	ug/L	0	50	-	145	-	-	-	16	150	-	-	-	-	-	-	-	-	-	-	-	-
Methyl-tert-butylether	ug/L	0.38	10	-	110	-	-	-	39	148	-	-	-	90	-	97	-	47	136	7	30	-
Methylene chloride	ug/L	0.28	5	-	90	-	-	-	51	139	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	0	5	-	123	-	-	-	80	129	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	ug/L	0	5	-	103	-	-	-	71	125	-	-	-	97	-	100	-	71	125	3	20	-
Toluene	ug/L	0.16	5	-	102	-	-	-	74	125	-	-	-	93	-	99	-	74	125	6	20	-
Tetrachloroethene	ug/L	0	5	-	106	-	-	-	67	145	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	ug/L	0	50	-	87	-	-	-	24	143	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	0	5	-	107	-	-	-	48	140	-	-	-	-	-	-	-	-	-	-	-	-
Total Xylene Isomers	ug/L	0	15	-	123	-	-	-	79	136	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	0	5	-	143	-	-	-	54	143	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	0	5	-	100	-	-	-	66	129	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	0	5	-	120	-	-	-	48	134	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	0	5	-	101	-	-	-	66	130	-	-	-	-	-	-	-	-	-	-	-	-

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AQUEOUS SAMPLES		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD				RPD	RPD		MS		MSD				RPD	RPD	
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: VOA,8260*976143 Method: 8260A - Volatile Organics, GCMS, con't																						
[1,2-Dichloroethane-d4]	Percent	80	-	-	122	-	-	-	62	139	-	-	-	-	-	-	-	-	-	-	-	-
[4-Bromofluorobenzene]	Percent	91	-	-	112	-	-	-	75	125	-	-	-	109	-	109	-	75	125	-	-	-
[Toluene-d8]	Percent	99	-	-	125	-	-	-	75	125	-	-	-	115	-	118	-	75	125	-	-	-
[Dibromofluoromethane]	Percent	84	-	-	119	-	-	-	75	125	-	-	-	100	-	108	-	75	125	-	-	-
Batch: CON,PEST*97210 Method: 8081 - Organochlorine Pesticides and PCBs																						
Aldrin	ug/L	0	0.03	-	78	-	78	-	47	125	0	30	-	95	-	79	-	47	125	18	30	-
p,p'-DDD	ug/L	0	0.03	-	83	-	88	-	68	146	6	-	-	-	-	-	-	-	-	-	-	-
p,p'-DDE	ug/L	0	0.03	-	84	-	83	-	71	136	1	-	-	-	-	-	-	-	-	-	-	-
p,p'-DDT	ug/L	0	0.05	-	75	-	85	-	34	143	12	30	-	270	Q	90	-	34	143	100	30	Q
Dieldrin	ug/L	0	0.03	-	76	-	78	-	42	132	3	30	-	98	-	74	-	42	132	28	30	-
Endosulfan I	ug/L	0	0.03	-	72	-	71	-	45	127	2	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	0	0.03	-	77	-	81	-	50	126	5	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	0	0.05	-	92	-	78	-	51	163	17	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	0	0.03	-	97	-	102	-	43	134	5	30	-	141	Q	100	-	43	134	34	30	Q
Endrin aldehyde	ug/L	0	0.03	-	72	-	80	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-
Endrin Ketone	ug/L	0	0.05	-	86	-	85	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	0	0.03	-	84	-	85	-	74	134	1	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	0	0.03	-	79	-	82	-	45	128	3	30	-	114	-	92	-	45	128	21	30	-
Methoxychlor	ug/L	0	0.05	-	105	-	99	-	47	147	5	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHC, alpha isomer	ug/L	0	0.03	-	81	-	84	-	71	132	3	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	0	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHC, beta isomer	ug/L	0	0.03	-	84	-	86	-	72	137	2	-	-	-	-	-	-	-	-	-	-	-
BHC, delta isomer	ug/L	0	0.03	-	79	-	79	-	75	134	1	-	-	-	-	-	-	-	-	-	-	-
BHC, gamma isomer (Lindane)	ug/L	0	0.03	-	78	-	80	-	73	125	2	30	-	133	Q	114	-	73	125	15	30	-
gamma-Chlordane	ug/L	0	0.03	-	74	-	78	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-
[Decachlorobiphenyl]	Percent	444	-	Q	86	-	84	-	34	133	-	-	-	128	-	88	-	34	133	-	-	-
[Tetrachloro-meta-xylene]	Percent	87	-	-	80	-	84	-	45	125	-	-	-	96	-	120	-	45	125	-	-	-
Batch: PCB*97210 Method: 8081 - Organochlorine Pesticides and PCBs																						
Aroclor 1016	ug/L	0	1	-	114	-	105	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1221	ug/L	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1232	ug/L	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1242	ug/L	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1248	ug/L	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1254	ug/L	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1260	ug/L	0	1	-	108	-	111	-	41	126	3	30	-	-	-	-	-	-	-	-	-	-

AQUEOUS SAMPLES		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: PCB*97210 Method: 8081 - Organochlorine Pesticides and PCBs, con't																						
[Decachlorobiphenyl]	Percent	112	-	-	83	-	89	-	34	133	-	-	-	-	-	-	-	-	-	-	-	-
[Tetrachloro-meta-xylene]	Percent	74	-	-	89	-	80	-	45	125	-	-	-	-	-	-	-	-	-	-	-	-
Batch: PEST*97210 Method: 8081 - Organochlorine Pesticides and PCBs																						
Aldrin	ug/L	0	0.03	-	89	-	88	-	47	125	1	30	-	99	-	83	-	47	125	17	30	-
p,p'-DDD	ug/L	0	0.03	-	96	-	98	-	68	146	1	-	-	-	-	-	-	-	-	-	-	-
p,p'-DDE	ug/L	0	0.03	-	92	-	92	-	71	136	0	-	-	-	-	-	-	-	-	-	-	-
p,p'-DDT	ug/L	0	0.05	-	85	-	86	-	34	143	1	30	-	135	-	94	-	34	143	36	30	Q
Dieldrin	ug/L	0	0.03	-	80	-	78	-	42	132	2	30	-	109	-	78	-	42	132	33	30	Q
Endosulfan I	ug/L	0	0.03	-	76	-	76	-	45	127	1	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	0	0.03	-	75	-	75	-	50	126	0	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	0	0.05	-	83	-	85	-	51	163	2	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	0	0.03	-	92	-	93	-	43	134	1	30	-	145	Q	98	-	43	134	39	30	Q
Endrin aldehyde	ug/L	0	0.03	-	79	-	78	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Endrin Ketone	ug/L	0	0.05	-	82	-	84	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	0	0.03	-	86	-	86	-	74	134	0	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	0	0.03	-	92	-	91	-	45	128	0	30	-	117	-	98	-	45	128	18	30	-
Methoxychlor	ug/L	0	0.05	-	92	-	95	-	47	147	3	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHC, alpha isomer	ug/L	0	0.03	-	91	-	90	-	71	132	1	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	0	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHC, beta isomer	ug/L	0	0.03	-	89	-	86	-	72	137	3	-	-	-	-	-	-	-	-	-	-	-
BHC, delta isomer	ug/L	0	0.03	-	90	-	88	-	75	134	2	-	-	-	-	-	-	-	-	-	-	-
BHC, gamma isomer (Lindane)	ug/L	0	0.03	-	91	-	90	-	73	125	0	30	-	137	Q	103	-	73	125	28	30	-
gamma-Chlordane	ug/L	0	0.03	-	84	-	84	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-
[Decachlorobiphenyl]	Percent	112	-	-	87	-	88	-	34	133	-	-	-	129	-	97	-	34	133	-	-	-
[Tetrachloro-meta-xylene]	Percent	74	-	-	91	-	90	-	45	125	-	-	-	117	-	101	-	45	125	-	-	-

AQUEOUS SAMPLES		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: BNA*97222 Method: 8270B - GC/MS for Semivolatile Organics, Capillary column																						
1,2,4-Trichlorobenzene	ug/L	0	10	-	53	-	57	-	44	142	8	20	-	60	-	65	-	44	142	8	20	-
1,2-Dichlorobenzene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0	10	-	56	-	63	-	30	125	13	20	-	54	-	58	-	30	125	8	20	-
2,4,5-Trichlorophenol	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	0	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	0	10	-	80	-	93	-	39	139	15	20	-	74	-	84	-	39	139	12	20	-
2,6-Dinitrotoluene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	0	10	-	68	-	74	-	41	125	8	20	-	74	-	79	-	41	125	7	20	-
2-Methyl-4,6-dinitrophenol	ug/L	0	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol (o-Cresol)	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenylphenylether	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	0	10	-	72	-	81	-	44	125	11	20	-	84	-	92	-	44	125	10	20	-
4-Chloroaniline	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenylphenylether	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol (p-Cresol)	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	0	25	-	47	-	51	-	25	131	9	20	-	56	-	54	-	25	131	3	20	-
Acenaphthene	ug/L	0	10	-	75	-	84	-	49	125	12	20	-	80	-	88	-	49	125	10	20	-
Acenaphthylene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzylphthalate	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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AQUEOUS SAMPLES		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD
	UNITS	RESULT	RL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: BNA*97222 Method: 8270B - GC/MS for Semivolatile Organics, Capillary column, con't																						
Di-n-octylphthalate	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibutylphthalate	ug/L	2.0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethylphthalate	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylphthalate	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)pyrene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	0	10	-	78	-	90	-	37	125	14	20	-	80	-	89	-	37	125	11	20	-
Nitrobenzene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	0	10	-	42	-	44	-	25	125	5	20	-	45	-	42	-	25	125	7	20	-
Pentachlorophenol	ug/L	0	20	-	85	-	98	-	28	136	15	20	-	93	-	111	-	28	136	17	20	-
Pyrene	ug/L	0	10	-	82	-	96	-	47	136	16	20	-	101	-	113	-	47	136	10	20	-
Bis(2-chloroethoxy)methane	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-chloroethyl)ether	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-chloroisopropyl)ether	ug/L	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	ug/L	0.86	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
[2-Fluorobiphenyl]	Percent	75	-	-	65	-	74	-	43	125	-	-	-	76	-	81	-	43	125	-	-	-
[2-Fluorophenol]	Percent	64	-	-	54	-	59	-	25	125	-	-	-	56	-	52	-	25	125	-	-	-
[2,4,6-Tribromophenol]	Percent	98	-	-	89	-	104	-	25	134	-	-	-	101	-	108	-	25	134	-	-	-
[Nitrobenzene-d5]	Percent	90	-	-	78	-	89	-	32	125	-	-	-	79	-	82	-	32	125	-	-	-
[Phenol-d5]	Percent	51	-	-	43	-	46	-	25	125	-	-	-	48	-	42	-	25	125	-	-	-
[Terphenyl-d14]	Percent	84	-	-	74	-	86	-	42	126	-	-	-	86	-	89	-	42	126	-	-	-
Batch: DIESEL*97248 Method: 8015M - Modified 8015																						
TPH (Diesel Range)	mg/L	0	0.5	-	89	-	96	-	61	143	9	30	-	108	-	105	-	51	153	3	50	-
JP-5	mg/L	0	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
[Naphthalene]	Percent	69	-	-	55	-	58	-	55	127	-	-	-	77	-	77	-	55	127	-	-	-
[o-Terphenyl]	Percent	80	-	-	114	-	115	-	57	132	-	-	-	129	-	123	-	57	132	-	-	-

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AQUEOUS SAMPLES

Batch: CN*9797 Method: 9010A - Cyanide, Colorimetric, Manual

		B711560*1	C7111094*1	.....	C7111095*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	-	11/11/97	11/11/97	11/11/97
Time Analyzed	Hours	19:10	19:10	19:10	19:10	19:10	19:10	-	19:10	19:10	19:10
Date Calibrated	Date	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	-	11/11/97	11/11/97	11/11/97
Date Distilled	Date	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	-	11/11/97	11/11/97	11/11/97
Time Distilled	Hours	16:25	16:25	16:25	16:25	16:25	16:25	-	16:25	16:25	16:25
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Total Cyanide	mg/L	0.0016	0.277	0.300	0.259	0.300	0	-	0.172	0.189	0.200

Batch: PH*97369.1 Method: 9040 - pH

		N/A	C711943*1	.....	C711944*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	-	11/06/97	11/06/97	11/06/97	11/06/97	11/06/97	11/06/97	-	-	-
Time Analyzed	Hours	-	17:00	17:00	17:00	17:00	17:00	17:00	-	-	-
Date Calibrated	Date	-	11/06/97	11/06/97	11/06/97	11/06/97	11/06/97	11/06/97	-	-	-
pH	PH Units	-	6.02	6.00	6.02	6.00	8.0	8.0	-	-	-

Batch: DIG,AQ,GFA*972941 Method: 3020 - Acid Digestion of Aqueous etc.

		(BLANK)	(LCS)	.....	(LCSD)	.....	(MTX QC)	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Furnace Digestion	Date	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97

Batch: PB,GFA*972941 Method: 7421 - Lead, AA, Furnace

		B711497*1	C711968*1	.....	C711969*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/12/97	11/12/97	11/12/97	11/12/97	11/12/97	11/12/97	-	11/12/97	11/12/97	11/12/97
Time Analyzed	Hours	17:56	18:09	18:09	18:11	18:11	18:01	-	18:03	18:06	18:06
Date Calibrated	Date	11/12/97	11/12/97	11/12/97	11/12/97	11/12/97	11/12/97	-	11/12/97	11/12/97	11/12/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Lead	ug/L	0	47.0	50.0	45.6	50.0	12	-	32.4	30.7	32.2

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Batch: SE,GFA*972941 Method: 7740 - Selenium, AA, Furnace

		B711498*1	C711970*1	.....	C711971*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/12/97	11/12/97	11/12/97	11/12/97	11/12/97	11/12/97	-	11/12/97	11/12/97	11/12/97
Time Analyzed	Hours	16:44	17:01	17:01	17:03	17:03	16:54	-	16:56	16:58	16:58
Date Calibrated	Date	11/12/97	11/12/97	11/12/97	11/12/97	11/12/97	11/12/97	-	11/12/97	11/12/97	11/12/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Selenium	ug/L	0	90.7	100	86.4	100	0.30	-	74.6	70.5	100

Batch: DIG,AQ*972942 Method: 3010 - Acid Digestion of Aqueous etc.

		(BLANK)	(LCS)	.....	(LCSD)	.....	(MTX QC)	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Digestion	Date	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97

Batch: HG*972936 Method: 7470A - Mercury (Liquid), Cold Vapor AA, Manual

		B711444*1	C711859*1	.....	C7111153*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	-	11/11/97	11/11/97	11/11/97
Time Analyzed	Hours	15:32	15:39	15:39	15:42	15:42	15:35	-	15:35	15:36	15:36
Date Calibrated	Date	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	-	11/11/97	11/11/97	11/11/97
Date Digested	Date	11/10/97	11/10/97	11/10/97	11/10/97	11/10/97	11/10/97	-	11/10/97	11/10/97	11/10/97
Time Digested	Hours	17:10	17:10	17:10	17:10	17:10	17:10	-	17:10	17:10	17:10
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Mercury	ug/L	0	4.40	4.00	4.60	4.00	0	-	2.00	2.00	2.00

Batch: AS,GFA*972941 Method: 7060A - Arsenic, AA, Furnace

		B711496*1	C711966*1	.....	C711967*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/12/97	11/12/97	11/12/97	11/12/97	11/12/97	11/12/97	-	11/12/97	11/12/97	11/12/97
Time Analyzed	Hours	15:43	16:00	16:00	16:02	16:02	15:52	-	15:55	15:57	15:57
Date Calibrated	Date	11/12/97	11/12/97	11/12/97	11/12/97	11/12/97	11/12/97	-	11/12/97	11/12/97	11/12/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Arsenic	ug/L	0	49.1	50.0	48.2	50.0	1.1	-	22.3	21.6	25.0

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Batch: AG*972942 Method: 6010A - ICAP Metals

		B711499*1	C711972*1	.....	C711973*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Silver	ug/L	5.1	213	200	217	200	6.7	-	440	435	500

Batch: AL*972942 Method: 6010A - ICAP Metals

		B711500*1	C711974*1	.....	C711975*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Aluminum	ug/L	23	943	1000	909	1000	350	-	1920	1860	1850

Batch: BA*972942 Method: 6010A - ICAP Metals

		B711501*1	C711976*1	.....	C711977*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Barium	ug/L	0	981	1000	1000	1000	82	-	565	563	582

Batch: BE*972942 Method: 6010A - ICAP Metals

		B711502*1	C711978*1	.....	C711979*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Beryllium	ug/L	0.2	394	400	403	400	0.3	-	101	100	100

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AQUEOUS SAMPLES

Batch: CA*972942 Method: 6010A - ICAP Metals

		B711503*1	C711980*1	.....	C711981*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Calcium	ug/L	0	49100	50000	50200	50000	56000	-	106000	104000	106000

Batch: CD*972942 Method: 6010A - ICAP Metals

		B711504*1	C711982*1	.....	C711983*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Cadmium	ug/L	0	519	500	531	500	4.2	-	509	510	500

Batch: CO*972942 Method: 6010A - ICAP Metals

		B711505*1	C711984*1	.....	C711985*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Cobalt	ug/L	4.2	1020	1000	1040	1000	0.43	-	497	498	500

Batch: CR*972942 Method: 6010A - ICAP Metals

		B711506*1	C711986*1	.....	C711987*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Chromium	ug/L	0	975	1000	986	1000	1.7	-	199	199	200

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AQUEOUS SAMPLES

Batch: CU*972942 Method: 6010A - ICAP Metals

		B711507*1	C711988*1	.....	C711989*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Copper	ug/L	0	985	1000	1010	1000	7.6	-	490	492	500

Batch: FE*972942 Method: 6010A - ICAP Metals

		B711508*1	C711990*1	.....	C711991*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Iron	ug/L	4.8	1040	1000	1060	1000	690	-	1720	1690	1690

Batch: K*972942 Method: 6010A - ICAP Metals

		B711509*1	C711992*1	.....	C711993*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Potassium	ug/L	0	48700	50000	49800	50000	4400	-	14100	14100	14400

Batch: MG*972942 Method: 6010A - ICAP Metals

		B711510*1	C711994*1	.....	C711995*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Magnesium	ug/L	30	48100	50000	49300	50000	21000	-	68900	68400	70500

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Batch: MN*972942 Method: 6010A - ICAP Metals

		B711511*1	C711996*1	.....	C711997*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Manganese	ug/L	0	1000	1000	1030	1000	23	-	125	124	123

Batch: MO*972942 Method: 6010A - ICAP Metals

		B711512*1	C711998*1	.....	C711999*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Molybdenum	ug/L	0	1000	1000	1020	1000	0	-	2950	2980	3000

Batch: NA*972942 Method: 6010A - ICAP Metals

		B711513*1	C7111000*1	.....	C7111001*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Sodium	ug/L	0	49200	50000	50200	50000	82000	-	132000	131000	132000

Batch: NI*972942 Method: 6010A - ICAP Metals

		B711514*1	C7111002*1	.....	C7111003*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Nickel	ug/L	5.4	1070	1000	1070	1000	4.6	-	519	515	500

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AQUEOUS SAMPLES

Batch: SB*972942 Method: 6010A - ICAP Metals

		B711515*1	C7111004*1	.....	C7111005*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Antimony	ug/L	23	1030	1000	1050	1000	8.7	-	3530	3540	3500

Batch: TL*972942 Method: 6010A - ICAP Metals

		B711516*1	C7111006*1	.....	C7111007*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Thallium	ug/L	16	1050	1000	1090	1000	1.3	-	2970	2960	3000

Batch: V*972942 Method: 6010A - ICAP Metals

		B711517*1	C7111008*1	.....	C7111009*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Vanadium	ug/L	0	966	1000	990	1000	4.1	-	493	496	500

Batch: ZN*972942 Method: 6010A - ICAP Metals

		B711518*1	C7111010*1	.....	C7111011*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Time Analyzed	Hours	13:40	13:48	13:48	13:49	13:49	13:42	-	13:43	13:44	13:44
Date Calibrated	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	-	11/13/97	11/13/97	11/13/97
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Zinc	ug/L	0	1050	1000	1070	1000	310	-	829	833	810

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AQUEOUS SAMPLES

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Batch: GAS*975158 Method: 8015M - Modified 8015

		B711464*1	C711890*1	.....	N/A	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/10/97	11/10/97	11/10/97	-	-	11/10/97	-	11/10/97	11/10/97	11/10/97
Time Analyzed	Hours	11:33	10:56	10:56	-	-	15:08	-	-	-	-
Dilution Factor	Times	1	1	1	-	-	1	-	1	1	1
Carbon Range	.	C6-C12	C6-C12	C6-C12	-	-	C6-C12	-	C6-C12	C6-C12	C6-C12
TPH (Gasoline Range)	mg/L	0	1.070	1.100	-	-	0	-	1.04	1.05	1.10
a,a,a-Trifluorotoluene Rep.	mg/L	0.0494	0.0496	0.0500	-	-	0.0487	-	0.0503	0.0503	0.0500
a,a,a-Trifluorotoluene Th.	mg/L	0.0500	0.0500	0.0500	-	-	0.0500	-	0.0500	0.0500	0.0500

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AQUEOUS SAMPLES

Batch: VOA,8260*976143 Method: 8260A - Volatile Organics, GCMS

		B711858*1	C7111683*1	.....	C7111684*1	.....	9711329*2	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/14/97	11/14/97	11/14/97	-	-	11/14/97	-	11/15/97	11/15/97	11/15/97
Time Analyzed	Hours	17:21	15:32	15:32	-	-	-	-	-	-	-
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	-	-	11/05/97	-	11/05/97	11/05/97	11/05/97
Dilution Factor	Times	1	1	1	-	-	1	-	1	1	1
1,1,1-Trichloroethane	ug/L	0	57.5	50.0	-	-	0	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	0	61.7	50.0	-	-	0	-	-	-	-
1,1,2-Trichloroethane	ug/L	0	50.2	50.0	-	-	0	-	-	-	-
1,1-Dichloroethane	ug/L	0	58.1	50.0	-	-	0	-	-	-	-
1,1-Dichloroethene	ug/L	0	59.6	50.0	-	-	0	-	58.1	63.5	50.0
1,2-Dichloroethane	ug/L	0	56.3	50.0	-	-	0	-	-	-	-
1,2-Dichloropropane	ug/L	0	54.9	50.0	-	-	0	-	-	-	-
2-Chloroethylvinylether	ug/L	0	101	100	-	-	0	-	-	-	-
2-Hexanone	ug/L	0	119	100	-	-	0	-	-	-	-
Acetone	ug/L	2.5	150	100	-	-	0	-	-	-	-
Bromodichloromethane	ug/L	0	47.6	50.0	-	-	0	-	-	-	-
Bromomethane	ug/L	0	46.3	50.0	-	-	0	-	-	-	-
Benzene	ug/L	0	48.6	50.0	-	-	0	-	42.6	45.1	50.0
Bromoform	ug/L	0	61.8	50.0	-	-	0	-	-	-	-
Chlorobenzene	ug/L	0	60.0	50.0	-	-	0	-	51.7	54.8	50.0
Carbon Tetrachloride	ug/L	0	52.1	50.0	-	-	0	-	-	-	-
Chloroethane	ug/L	0	56.0	50.0	-	-	0	-	-	-	-
Chloroform	ug/L	0	52.1	50.0	-	-	0.21	-	-	-	-
Chloromethane	ug/L	0	52.6	50.0	-	-	0	-	-	-	-
Carbon Disulfide	ug/L	0	98.6	100	-	-	0	-	-	-	-
Dibromochloromethane	ug/L	0	60.6	50.0	-	-	0	-	-	-	-
Ethylbenzene	ug/L	0	53.6	50.0	-	-	0	-	-	-	-
Methyl ethyl ketone	ug/L	0	126	100	-	-	0	-	-	-	-
Methyl isobutyl ketone	ug/L	0	145	100	-	-	0	-	-	-	-
Methyl-tert-butylether	ug/L	0.38	220	200	-	-	0.27	-	180	194	200
Methylene chloride	ug/L	0.28	45.0	50.0	-	-	0	-	-	-	-
Styrene	ug/L	0	61.7	50.0	-	-	0	-	-	-	-
Trichloroethene	ug/L	0	51.7	50.0	-	-	0	-	48.6	50.2	50.0
Toluene	ug/L	0.16	51.1	50.0	-	-	0	-	46.6	49.6	50.0
Tetrachloroethene	ug/L	0	52.8	50.0	-	-	0	-	-	-	-
Vinyl acetate	ug/L	0	87.3	100	-	-	0	-	-	-	-
Vinyl chloride	ug/L	0	53.3	50.0	-	-	0	-	-	-	-
Total Xylene Isomers	ug/L	0	184	150	-	-	0	-	-	-	-

AQUEOUS SAMPLES

Batch: VOA,8260*976143 Method: 8260A - Volatile Organics, GCMS, con't

		B711858*1	C7111683*1	.....	C7111684*1	.....	9711329*2	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
cis-1,2-Dichloroethene	ug/L	0	71.4	50.0	-	-	0	-	-	-	-
cis-1,3-Dichloropropene	ug/L	0	50.2	50.0	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	0	60.2	50.0	-	-	0	-	-	-	-
trans-1,3-Dichloropropene	ug/L	0	50.5	50.0	-	-	-	-	-	-	-
1,2-Dichloroethane-d4 Rep.	ug/L	40.2	61.1	50.0	-	-	-	-	-	-	-
1,2-Dichloroethane-d4 Theo.	ug/L	50.0	50.0	50.0	-	-	-	-	-	-	-
4-Bromofluorobenzene Rep.	ug/L	45.6	55.9	50.0	-	-	47.9	-	54.3	54.6	50.0
4-Bromofluorobenzene Theo.	ug/L	50.0	50.0	50.0	-	-	50.0	-	50.0	50.0	50.0
Toluene-d8 Reported	ug/L	49.4	62.3	50.0	-	-	52.0	-	57.3	59.1	50.0
Toluene-d8 Theo.	ug/L	50.0	50.0	50.0	-	-	50.0	-	50.0	50.0	50.0
Dibromofluoromethane Rep.	ug/L	42.2	59.5	50.0	-	-	42.2	-	49.8	53.8	50.0
Dibromofluoromethane Theo.	ug/L	50.0	50.0	50.0	-	-	50.0	-	50.0	50.0	50.0

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AQUEOUS SAMPLES

Batch: CON,PEST*97210 Method: 8081 - Organochlorine Pesticides and PCBs

		B711823*1	C7111598*1	.....	C7111599*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/09/97	11/11/97	11/11/97	11/11/97	11/11/97	11/09/97	-	11/09/97	11/09/97	11/09/97
Time Analyzed	Hours	08:06	19:28	19:28	20:08	20:08	05:25	-	15:29	16:09	16:09
Date Calibrated	Date	11/08/97	11/10/97	11/10/97	11/10/97	11/10/97	11/08/97	-	11/08/97	11/08/97	11/08/97
Date Extracted	Date	11/06/97	11/06/97	11/06/97	11/06/97	11/06/97	11/06/97	-	11/06/97	11/06/97	11/06/97
Time Extracted	Hours	08:00	08:00	08:00	08:00	08:00	08:00	-	08:00	08:00	08:00
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Aldrin	ug/L	0	0.194	0.250	0.194	0.250	0	-	0.237	0.198	0.250
p,p'-DDD	ug/L	0	0.207	0.250	0.219	0.250	0	-	-	-	-
p,p'-DDE	ug/L	0	0.210	0.250	0.208	0.250	0	-	-	-	-
p,p'-DDT	ug/L	0	0.188	0.250	0.212	0.250	0	-	0.675	0.226	0.250
Dieldrin	ug/L	0	0.189	0.250	0.195	0.250	0	-	0.244	0.184	0.250
Endosulfan I	ug/L	0	0.180	0.250	0.177	0.250	0	-	-	-	-
Endosulfan II	ug/L	0	0.192	0.250	0.202	0.250	0	-	-	-	-
Endosulfan sulfate	ug/L	0	0.229	0.250	0.194	0.250	0	-	-	-	-
Endrin	ug/L	0	0.242	0.250	0.254	0.250	0	-	0.352	0.249	0.250
Endrin aldehyde	ug/L	0	0.181	0.250	0.200	0.250	0	-	-	-	-
Endrin Ketone	ug/L	0	0.215	0.250	0.213	0.250	0	-	-	-	-
Heptachlor epoxide	ug/L	0	0.211	0.250	0.213	0.250	0	-	-	-	-
Heptachlor	ug/L	0	0.198	0.250	0.204	0.250	0	-	0.284	0.229	0.250
Methoxychlor	ug/L	0	0.262	0.250	0.248	0.250	0	-	-	-	-
Toxaphene	ug/L	0	-	-	-	-	0	-	-	-	-
BHC, alpha isomer	ug/L	0	0.203	0.250	0.209	0.250	0	-	-	-	-
alpha-Chlordane	ug/L	0	-	-	-	-	0	-	-	-	-
BHC, beta isomer	ug/L	0	0.210	0.250	0.215	0.250	0	-	-	-	-
BHC, delta isomer	ug/L	0	0.198	0.250	0.197	0.250	0	-	-	-	-
BHC, gamma isomer (Lindane)	ug/L	0	0.195	0.250	0.199	0.250	0	-	0.332	0.286	0.250
gamma-Chlordane	ug/L	0	0.186	0.250	0.194	0.250	0	-	-	-	-
Decachlorobiphenyl Reported	ug/L	1.11	0.214	0.250	0.211	0.250	0.298	-	0.319	0.220	0.250
Decachlorobiphenyl Theoretical	ug/L	0.250	0.250	0.250	0.250	0.250	0.250	-	0.250	0.250	0.250
Tetrachloro-meta-xylene Rpt.	ug/L	0.217	0.200	0.250	0.209	0.250	0.233	-	0.241	0.299	0.250
Tetrachloro-meta-xylene Theor.	ug/L	0.250	0.250	0.250	0.250	0.250	0.250	-	0.250	0.250	0.250

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AQUEOUS SAMPLES

Batch: PCB*97210 Method: 8081 - Organochlorine Pesticides and PCBs

		B7111044*1	C711704*1	.....	C7111131*1	.....	N/A	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/09/97	11/11/97	11/11/97	11/11/97	11/11/97	-	-	-	-	-
Time Analyzed	Hours	08:06	18:47	18:47	18:07	18:07	-	-	-	-	-
Date Calibrated	Date	11/08/97	11/10/97	11/10/97	11/10/97	11/10/97	-	-	-	-	-
Date Extracted	Date	11/06/97	11/06/97	11/06/97	11/06/97	11/06/97	-	-	-	-	-
Time Extracted	Hours	08:00	08:00	08:00	08:00	08:00	-	-	-	-	-
Dilution Factor	Times	1	1	1	1	1	-	-	-	-	-
Aroclor 1016	ug/L	0	5.70	5.00	5.27	5.00	-	-	-	-	-
Aroclor 1221	ug/L	0	-	-	-	-	-	-	-	-	-
Aroclor 1232	ug/L	0	-	-	-	-	-	-	-	-	-
Aroclor 1242	ug/L	0	-	-	-	-	-	-	-	-	-
Aroclor 1248	ug/L	0	-	-	-	-	-	-	-	-	-
Aroclor 1254	ug/L	0	-	-	-	-	-	-	-	-	-
Aroclor 1260	ug/L	0	5.41	5.00	5.57	5.00	-	-	-	-	-
Decachlorobiphenyl Reported	ug/L	0.280	0.207	0.250	0.222	0.250	-	-	-	-	-
Decachlorobiphenyl Theoretical	ug/L	0.250	0.250	0.250	0.250	0.250	-	-	-	-	-
Tetrachloro-meta-xylene Rpt.	ug/L	0.185	0.222	0.250	0.199	0.250	-	-	-	-	-
Tetrachloro-meta-xylene Theor.	ug/L	0.250	0.250	0.250	0.250	0.250	-	-	-	-	-

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AQUEOUS SAMPLES

Batch: PEST*97210 Method: 8081 - Organochlorine Pesticides and PCBs

		B711369*1	C711705*1	.....	C7111130*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/09/97	11/11/97	11/11/97	11/11/97	11/11/97	11/09/97	-	11/09/97	11/09/97	11/09/97
Time Analyzed	Hours	08:06	20:08	20:08	19:28	19:28	05:25	-	15:29	16:09	05:25
Date Calibrated	Date	11/08/97	11/10/97	11/10/97	11/10/97	11/10/97	11/08/97	-	11/08/97	11/08/97	11/08/97
Date Extracted	Date	11/06/97	11/06/97	11/06/97	11/06/97	11/06/97	11/06/97	-	11/06/97	11/06/97	11/06/97
Time Extracted	Hours	08:00	08:00	08:00	08:00	08:00	08:00	-	08:00	08:00	08:00
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Aldrin	ug/L	0	0.223	0.250	0.220	0.250	0	-	0.247	0.208	0.250
p,p'-DDD	ug/L	0	0.241	0.250	0.244	0.250	0	-	-	-	-
p,p'-DDE	ug/L	0	0.230	0.250	0.230	0.250	0	-	-	-	-
p,p'-DDT	ug/L	0	0.213	0.250	0.215	0.250	0	-	0.338	0.235	0.250
Dieldrin	ug/L	0	0.200	0.250	0.196	0.250	0	-	0.272	0.195	0.250
Endosulfan I	ug/L	0	0.191	0.250	0.189	0.250	0	-	-	-	-
Endosulfan II	ug/L	0	0.188	0.250	0.188	0.250	0	-	-	-	-
Endosulfan sulfate	ug/L	0	0.208	0.250	0.213	0.250	0	-	-	-	-
Endrin	ug/L	0	0.230	0.250	0.233	0.250	0	-	0.362	0.244	0.250
Endrin aldehyde	ug/L	0	0.198	0.250	0.195	0.250	0	-	-	-	-
Endrin Ketone	ug/L	0	0.206	0.250	0.211	0.250	0	-	-	-	-
Heptachlor epoxide	ug/L	0	0.216	0.250	0.215	0.250	0	-	-	-	-
Heptachlor	ug/L	0	0.229	0.250	0.228	0.250	0	-	0.292	0.244	0.250
Methoxychlor	ug/L	0	0.230	0.250	0.237	0.250	0	-	-	-	-
Toxaphene	ug/L	0	-	-	-	-	0	-	-	-	-
BHC, alpha isomer	ug/L	0	0.228	0.250	0.226	0.250	0	-	-	-	-
alpha-Chlordane	ug/L	0	-	-	-	-	0	-	-	-	-
BHC, beta isomer	ug/L	0	0.223	0.250	0.216	0.250	0	-	-	-	-
BHC, delta isomer	ug/L	0	0.226	0.250	0.221	0.250	0	-	-	-	-
BHC, gamma isomer (Lindane)	ug/L	0	0.227	0.250	0.226	0.250	0	-	0.342	0.257	0.250
gamma-Chlordane	ug/L	0	0.210	0.250	0.209	0.250	0	-	-	-	-
Decachlorobiphenyl Reported	ug/L	0.280	0.218	0.250	0.221	0.250	0.303	-	0.322	0.242	0.250
Decachlorobiphenyl Theoretical	ug/L	0.250	0.250	0.250	0.250	0.250	0.250	-	0.250	0.250	0.250
Tetrachloro-meta-xylene Rpt.	ug/L	0.185	0.227	0.250	0.226	0.250	0.226	-	0.292	0.252	0.250
Tetrachloro-meta-xylene Theor.	ug/L	0.250	0.250	0.250	0.250	0.250	0.250	-	0.250	0.250	0.250

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AQUEOUS SAMPLES

Batch: BNA*97222 Method: 8270B - GC/MS for Semivolatile Organics, Capillary column

		B711474*1	C711907*1	.....	C711908*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/13/97	11/13/97	11/13/97	11/13/97	11/13/97	11/14/97	-	11/14/97	11/15/97	11/14/97
Time Analyzed	Hours	13:55	14:46	14:46	15:33	15:33	22:51	-	23:37	00:23	-
Date Calibrated	Date	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	11/05/97	-	11/05/97	11/05/97	11/05/97
Date Extracted	Date	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	11/11/97	-	11/11/97	11/11/97	11/11/97
Time Extracted	Hours	11:00	11:00	11:00	11:00	11:00	11:00	-	11:00	11:00	11:00
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
1,2,4-Trichlorobenzene	ug/L	0	52.6	100	56.9	100	0	-	29.9	32.4	50.0
1,2-Dichlorobenzene	ug/L	0	-	-	-	-	0	-	-	-	-
1,3-Dichlorobenzene	ug/L	0	-	-	-	-	0	-	-	-	-
1,4-Dichlorobenzene	ug/L	0	55.6	100	63.2	100	0	-	26.9	29.0	50.0
2,4,5-Trichlorophenol	ug/L	0	-	-	-	-	0	-	-	-	-
2,4,6-Trichlorophenol	ug/L	0	-	-	-	-	0	-	-	-	-
2,4-Dichlorophenol	ug/L	0	-	-	-	-	0	-	-	-	-
2,4-Dimethylphenol	ug/L	0	-	-	-	-	0	-	-	-	-
2,4-Dinitrophenol	ug/L	0	-	-	-	-	0	-	-	-	-
2,4-Dinitrotoluene	ug/L	0	80.0	100	93.1	100	0	-	36.9	41.8	50.0
2,6-Dinitrotoluene	ug/L	0	-	-	-	-	0	-	-	-	-
2-Chloronaphthalene	ug/L	0	-	-	-	-	0	-	-	-	-
2-Chlorophenol	ug/L	0	68.3	100	74.2	100	0	-	55.2	59.1	75.0
2-Methyl-4,6-dinitrophenol	ug/L	0	-	-	-	-	0	-	-	-	-
2-Methylnaphthalene	ug/L	0	-	-	-	-	0	-	-	-	-
2-Methylphenol (o-Cresol)	ug/L	0	-	-	-	-	0	-	-	-	-
2-Nitroaniline	ug/L	0	-	-	-	-	0	-	-	-	-
2-Nitrophenol	ug/L	0	-	-	-	-	0	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	0	-	-	-	-	0	-	-	-	-
3-Nitroaniline	ug/L	0	-	-	-	-	0	-	-	-	-
4-Bromophenylphenylether	ug/L	0	-	-	-	-	0	-	-	-	-
4-Chloro-3-methylphenol	ug/L	0	72.4	100	80.5	100	0	-	62.9	69.2	75.0
4-Chloroaniline	ug/L	0	-	-	-	-	0	-	-	-	-
4-Chlorophenylphenylether	ug/L	0	-	-	-	-	0	-	-	-	-
4-Methylphenol (p-Cresol)	ug/L	0	-	-	-	-	0	-	-	-	-
4-Nitroaniline	ug/L	0	-	-	-	-	0	-	-	-	-
4-Nitrophenol	ug/L	0	46.6	100	50.9	100	0	-	41.7	40.3	75.0
Acenaphthene	ug/L	0	74.5	100	84.2	100	0	-	39.9	43.9	50.0
Acenaphthylene	ug/L	0	-	-	-	-	0	-	-	-	-
Anthracene	ug/L	0	-	-	-	-	0	-	-	-	-
Benzo(a)a[illegible]acene	ug/L	0	-	-	-	-	0	-	-	-	-

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AQUEOUS SAMPLES

Batch: BNA*97222 Method: 8270B - GC/MS for Semivolatile Organics, Capillary column, con't

		B711474*1	C711907*1		C711908*1		9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Benzo(a)pyrene	ug/L	0	-	-	-	-	0	-	-	-	-
Benzo(b)fluoranthene	ug/L	0	-	-	-	-	0	-	-	-	-
Benzo(g,h,i)perylene	ug/L	0	-	-	-	-	0	-	-	-	-
Benzo(k)fluoranthene	ug/L	0	-	-	-	-	0	-	-	-	-
Butylbenzylphthalate	ug/L	0	-	-	-	-	0	-	-	-	-
Chrysene	ug/L	0	-	-	-	-	0	-	-	-	-
Di-n-octylphthalate	ug/L	0	-	-	-	-	0	-	-	-	-
Dibenzo(a,h)anthracene	ug/L	0	-	-	-	-	0	-	-	-	-
Dibenzofuran	ug/L	0	-	-	-	-	0	-	-	-	-
Dibutylphthalate	ug/L	2.0	-	-	-	-	1.7	-	-	-	-
Diethylphthalate	ug/L	0	-	-	-	-	0.87	-	-	-	-
Dimethylphthalate	ug/L	0	-	-	-	-	0	-	-	-	-
Fluoranthene	ug/L	0	-	-	-	-	0	-	-	-	-
Fluorene	ug/L	0	-	-	-	-	0	-	-	-	-
Hexachlorobenzene	ug/L	0	-	-	-	-	0	-	-	-	-
Hexachlorobutadiene	ug/L	0	-	-	-	-	0	-	-	-	-
Hexachlorocyclopentadiene	ug/L	0	-	-	-	-	0	-	-	-	-
Hexachloroethane	ug/L	0	-	-	-	-	0	-	-	-	-
Indeno(1,2,3-c,d)pyrene	ug/L	0	-	-	-	-	0	-	-	-	-
N-Nitrosodiphenylamine	ug/L	0	-	-	-	-	0	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	0	78.2	100	90.2	100	0	-	39.9	44.4	50.0
Nitrobenzene	ug/L	0	-	-	-	-	0	-	-	-	-
Naphthalene	ug/L	0	-	-	-	-	0	-	-	-	-
Phenanthrene	ug/L	0	-	-	-	-	0	-	-	-	-
Phenol	ug/L	0	41.8	100	43.8	100	0	-	33.6	31.2	75.0
Pentachlorophenol	ug/L	0	84.6	100	98.2	100	0	-	69.9	82.9	75.0
Pyrene	ug/L	0	81.8	100	95.9	100	0	-	50.7	56.3	50.0
Bis(2-chloroethoxy)methane	ug/L	0	-	-	-	-	0	-	-	-	-
Bis(2-chloroethyl)ether	ug/L	0	-	-	-	-	0	-	-	-	-
Bis(2-chloroisopropyl)ether	ug/L	0	-	-	-	-	0	-	-	-	-
Bis(2-ethylhexyl)phthalate	ug/L	0.86	-	-	-	-	2.10	-	-	-	-
2-Fluorobiphenyl Reported	ug/L	37.7	32.6	50.0	36.8	50.0	45.7	-	38.2	40.6	50.0
2-Fluorobiphenyl Theo.	ug/L	50.0	50.0	50.0	50.0	50.0	50.0	-	50.0	50.0	50.0
2-Fluorophenol Reported	ug/L	48.1	40.7	75.0	43.9	75.0	30.3	-	42.3	39.0	75.0
2-Fluorophenol Theoretical	ug/L	75.0	75.0	75.0	75.0	75.0	75.0	-	75.0	75.0	75.0
2,4,6-Tribromophenol Rep.	ug/L	73.8	66.7	75.0	78.2	75.0	78.3	-	75.6	80.8	75.0
2,4,6-Tribromophenol Theo.	ug/L	75.0	75.0	75.0	75.0	75.0	75.0	-	75.0	75.0	75.0

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AQUEOUS SAMPLES

Batch: BNA*97222 Method: 8270B - GC/MS for Semivolatile Organics, Capillary column, con't

		B711474*1	C711907*1	.....	C711908*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Nitrobenzene-d5 Reported	ug/L	45.1	39.1	50.0	44.4	50.0	44.8	-	39.7	41.2	50.0
Nitrobenzene-d5 Theoretical	ug/L	50.0	50.0	50.0	50.0	50.0	50.0	-	50.0	50.0	50.0
Phenol-d5 Reported	ug/L	38.3	31.9	75.0	34.2	75.0	22.9	-	35.9	31.6	75.0
Phenol-d5 Theoretical	ug/L	75.0	75.0	75.0	75.0	75.0	75.0	-	75.0	75.0	75.0
Terphenyl-d14 Reported	ug/L	41.8	36.9	50.0	43.1	50.0	44.3	-	43.0	44.7	50.0
Terphenyl-d14 Theoretical	ug/L	50.0	50.0	50.0	50.0	50.0	50.0	-	50.0	50.0	50.0

Batch: DIESEL*97248 Method: 8015M - Modified 8015

		B711495*1	C711964*1	.....	C711965*1	.....	9711110*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/12/97	11/12/97	11/12/97	11/12/97	11/12/97	11/12/97	-	11/12/97	11/12/97	11/12/97
Time Analyzed	Hours	09:53	08:44	-	09:18	-	07:01	-	17:29	18:04	18:04
Date Calibrated	Date	09/24/97	09/24/97	09/24/97	09/24/97	09/24/97	09/24/97	-	09/24/97	09/24/97	09/24/97
Date Extracted	Date	11/10/97	11/10/97	11/10/97	11/10/97	11/10/97	11/10/97	-	11/10/97	11/10/97	11/10/97
Time Extracted	Hours	15:30	15:30	15:30	15:30	15:30	15:30	-	15:30	15:30	15:30
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
TPH (Diesel Range)	mg/L	0	0.885	1.00	0.964	1.00	0.053	-	1.13	1.10	1.053
JP-5	mg/L	0	-	-	-	-	0	-	-	-	-
Carbon Range	.	C8-C25	C10-C25	C10-C25	C10-C25	C10-C25	C8-C25	-	C10-C25	C10-C25	C10-C25
Naphthalene Reported	mg/L	0.0345	0.0276	0.0500	0.0288	0.0500	0.0455	-	0.0386	0.0384	0.0500
Naphthalene Theoretical	mg/L	0.0500	0.0500	0.0500	0.0500	0.0500	0.0500	-	0.0500	0.0500	0.0500
o-Terphenyl Reported	mg/L	0.0399	0.0570	0.0500	0.0577	0.0500	0.0546	-	0.0646	0.0615	0.0500
o-Terphenyl Theoretical	mg/L	0.0500	0.0500	0.0500	0.0500	0.0500	0.0500	-	0.0500	0.0500	0.0500

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 10:31:26 16 DEC 1997 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG	LCL	UCL
9711110*1									
8081	Tetrachloro-meta-xylene	R97210	11/09/97	0.226	0.250	90		45	125
	Decachlorobiphenyl	97210	11/09/97	0.303	0.250	121		34	133
8081	Tetrachloro-meta-xylene	R97210	11/09/97	0.226	0.250	90		45	125
	Decachlorobiphenyl	97210	11/09/97	0.303	0.250	121		34	133
8081	Tetrachloro-meta-xylene	R97210	11/09/97	0.233	0.250	93		45	125
	Decachlorobiphenyl	97210	11/09/97	0.298	0.250	119		34	133
8270B	2-Fluorophenol	97222	11/14/97	30.3	75.0	40		25	125
	Phenol-d5	97222	11/14/97	22.9	75.0	31		25	125
	Nitrobenzene-d5	97222	11/14/97	44.8	50.0	90		32	125
	2-Fluorobiphenyl	97222	11/14/97	45.7	50.0	91		43	125
	2,4,6-Tribromophenol Rep.	97222	11/14/97	78.3	75.0	104		25	134
	Terphenyl-d14	97222	11/14/97	44.3	50.0	89		42	126
8015M	Naphthalene	97248	11/12/97	0.0455	0.0500	91		55	127
	o-Terphenyl	97248	11/12/97	0.0546	0.0500	109		57	132
8015M	a,a,a-Trifluorotoluene Re	975158	11/10/97	0.0487	0.0500	97		76	126
8260A	1,2-Dichloroethane-d4 Rep	976143	11/14/97	46.1	50.0	92		62	139
	Dibromofluoromethane Rep.	976143	11/14/97	45.4	50.0	91		75	125
	Toluene-d8	976143	11/14/97	53.5	50.0	107		75	125
	4-Bromofluorobenzene Rep.	976143	11/14/97	50.0	50.0	100		75	125
9711110*2									
8015M	a,a,a-Trifluorotoluene Re	975158	11/10/97	0.0472	0.0500	94		76	126
8260A	1,2-Dichloroethane-d4 Rep	976143	11/14/97	43.0	50.0	86		62	139
	Dibromofluoromethane Rep.	976143	11/14/97	40.3	50.0	81		75	125
	Toluene-d8	976143	11/14/97	53.9	50.0	108		75	125
	4-Bromofluorobenzene Rep.	976143	11/14/97	47.6	50.0	95		75	125

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 10:33:20 16 DEC 1997 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG	LCL	UCL
9711110*1*R1									
8015M	a,a,a-Trifluorotoluene	Re975158	11/10/97	0.0487	0.0500	97		76	126
8270	2-Fluorophenol	97222	11/14/97	30.3	75.0	40		21	100
	Phenol-d5	97222	11/14/97	22.9	75.0	31		10	94
	Nitrobenzene-d5	97222	11/14/97	44.8	50.0	90		35	114
	2-Fluorobiphenyl	97222	11/14/97	45.7	50.0	91		43	116
	2,4,6-Tribromophenol Rep.	97222	11/14/97	78.3	75.0	104		10	123
	Terphenyl-d14	97222	11/14/97	44.3	50.0	89		33	141
8015M	Naphthalene	97248	11/12/97	0.0455	0.0500	91		55	127
	o-Terphenyl	97248	11/12/97	0.0546	0.0500	109		57	132
8081	Tetrachloro-meta-xylene	R97210	11/09/97	0.233	0.250	93		45	125
	Decachlorobiphenyl	97210	11/09/97	0.298	0.250	119		34	133
8081	Tetrachloro-meta-xylene	R97210	11/09/97	0.226	0.250	90		45	125
	Decachlorobiphenyl	97210	11/09/97	0.303	0.250	121		34	133
8270B	2-Fluorophenol	97222	11/14/97	30.3	75.0	40		25	125
	Phenol-d5	97222	11/14/97	22.9	75.0	31		25	125
	Nitrobenzene-d5	97222	11/14/97	44.8	50.0	90		32	125
	2-Fluorobiphenyl	97222	11/14/97	45.7	50.0	91		43	125
	2,4,6-Tribromophenol Rep.	97222	11/14/97	78.3	75.0	104		25	134
	Terphenyl-d14	97222	11/14/97	44.3	50.0	89		42	126
9711110*1*S1									
8015M	a,a,a-Trifluorotoluene	Re975158	11/10/97	0.0503	0.0500	101		76	126
8270	2-Fluorophenol	97222	11/14/97	42.3	75.0	56		21	100
	Phenol-d5	97222	11/14/97	35.9	75.0	48		10	94
	Nitrobenzene-d5	97222	11/14/97	39.7	50.0	79		35	114
	2-Fluorobiphenyl	97222	11/14/97	38.2	50.0	76		43	116
	2,4,6-Tribromophenol Rep.	97222	11/14/97	75.6	75.0	101		10	123
	Terphenyl-d14	97222	11/14/97	43.0	50.0	86		33	141
8015M	Naphthalene	97248	11/12/97	0.0386	0.0500	77		55	127
	o-Terphenyl	97248	11/12/97	0.0646	0.0500	129		57	132
8081	Tetrachloro-meta-xylene	R97210	11/09/97	0.241	0.250	96		45	125
	Decachlorobiphenyl	97210	11/09/97	0.319	0.250	128		34	133
8081	Tetrachloro-meta-xylene	R97210	11/09/97	0.292	0.250	117		45	125
	Decachlorobiphenyl	97210	11/09/97	0.322	0.250	129		34	133
8270B	2-Fluorophenol	97222	11/14/97	42.3	75.0	56		25	125
	Phenol-d5	97222	11/14/97	35.9	75.0	48		25	125
	Nitrobenzene-d5	97222	11/14/97	39.7	50.0	79		32	125
	2-Fluorobiphenyl	97222	11/14/97	38.2	50.0	76		43	125
	2,4,6-Tribromophenol Rep.	97222	11/14/97	75.6	75.0	101		25	134
	Terphenyl-d14	97222	11/14/97	43.0	50.0	86		42	126
711110*1*S2									
015M	a,a,a-Trifluorotoluene	Re975158	11/10/97	0.0503	0.0500	101		76	126
270	2-Fluorophenol	97222	11/15/97	39.0	75.0	52		21	100
	Phenol-d5	97222	11/15/97	31.6	75.0	42		10	94
	Nitrobenzene-d5	97222	11/15/97	41.2	50.0	82		35	114
	2-Fluorobiphenyl	97222	11/15/97	40.6	50.0	81		43	116
	2,4,6-Tribromophenol Rep.	97222	11/15/97	80.8	75.0	108		10	123
	Terphenyl-d14	97222	11/15/97	44.7	50.0	89		33	141
015M	Naphthalene	97248	11/12/97	0.0384	0.0500	77		55	127
	o-Terphenyl	97248	11/12/97	0.0615	0.0500	123		57	132
081	Tetrachloro-meta-xylene	R97210	11/09/97	0.299	0.250	120		45	125

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 10:34:12 16 DEC 1997 - P. 2 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG	LCL	UCL
	Decachlorobiphenyl	97210	11/09/97	0.220	0.250	88		34	133
3081	Tetrachloro-meta-xylene	R97210	11/09/97	0.252	0.250	101		45	125
	Decachlorobiphenyl	97210	11/09/97	0.242	0.250	97		34	133
3270B	2-Fluorophenol	97222	11/15/97	39.0	75.0	52		25	125
	Phenol-d5	97222	11/15/97	31.6	75.0	42		25	125
	Nitrobenzene-d5	97222	11/15/97	41.2	50.0	82		32	125
	2-Fluorobiphenyl	97222	11/15/97	40.6	50.0	81		43	125
	2,4,6-Tribromophenol Rep.	97222	11/15/97	80.8	75.0	108		25	134
	Terphenyl-d14	97222	11/15/97	44.7	50.0	89		42	126
3711495*1*MB									
3015M	Naphthalene	97248	11/12/97	0.0345	0.0500	69		55	127
	o-Terphenyl	97248	11/12/97	0.0399	0.0500	80		57	132
:711964*1*LC									
3015M	Naphthalene	97248	11/12/97	0.0276	0.0500	55		55	127
	o-Terphenyl	97248	11/12/97	0.0570	0.0500	114		57	132
:711965*1*LC									
3015M	Naphthalene	97248	11/12/97	0.0288	0.0500	58		55	127
	o-Terphenyl	97248	11/12/97	0.0577	0.0500	115		57	132
:71 4*1*MB									
015M	a,a,a-Trifluorotoluene	Re975158	11/10/97	0.0494	0.0500	99		76	126
711890*1*LC									
015M	a,a,a-Trifluorotoluene	Re975158	11/10/97	0.0496	0.0500	99		76	126
711369*1*MB									
080	Tetrachloro-meta-xylene	R97210	11/09/97	0.185	0.250	74		20	142
	Decachlorobiphenyl	97210	11/09/97	0.280	0.250	112		20	147
711823*1*MB									
080	Tetrachloro-meta-xylene	R97210	11/09/97	0.217	0.250	87		20	142
	Decachlorobiphenyl	97210	11/09/97	1.11	0.250	444	Q	20	147
7111044*1*MB									
)80	Tetrachloro-meta-xylene	R97210	11/09/97	0.185	0.250	74		20	142
	Decachlorobiphenyl	97210	11/09/97	0.280	0.250	112		20	147
711704*1*LC									
)80	Tetrachloro-meta-xylene	R97210	11/11/97	0.222	0.250	89		20	142
	Decachlorobiphenyl	97210	11/11/97	0.207	0.250	83		20	147
711705*1*LC									
)80	Tetrachloro-meta-xylene	R97210	11/11/97	0.227	0.250	91		20	142

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 10:34:43 16 DEC 1997 - P. 3 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG	LCL	UCL
	Decachlorobiphenyl	97210	11/11/97	0.218	0.250	87		20	147
C7111130*1*LC									
8080	Tetrachloro-meta-xylene	R97210	11/11/97	0.226	0.250	90		20	142
	Decachlorobiphenyl	97210	11/11/97	0.221	0.250	88		20	147
C7111131*1*LC									
8080	Tetrachloro-meta-xylene	R97210	11/11/97	0.199	0.250	80		20	142
	Decachlorobiphenyl	97210	11/11/97	0.222	0.250	89		20	147
C7111598*1*LC									
8080	Tetrachloro-meta-xylene	R97210	11/11/97	0.200	0.250	80		20	142
	Decachlorobiphenyl	97210	11/11/97	0.214	0.250	86		20	147
C7111599*1*LC									
8080	Tetrachloro-meta-xylene	R97210	11/11/97	0.209	0.250	84		20	142
	Decachlorobiphenyl	97210	11/11/97	0.211	0.250	84		20	147
3711858*1*MB									
3260A	1,2-Dichloroethane-d4 Rep	976143	11/14/97	40.2	50.0	80		62	139
	Dibromofluoromethane Rep.	976143	11/14/97	42.2	50.0	84		75	125
	Toluene-d8	976143	11/14/97	49.4	50.0	99		75	125
	4-Bromofluorobenzene Rep.	976143	11/14/97	45.6	50.0	91		75	125
7111683*1*LC									
3260A	1,2-Dichloroethane-d4 Rep	976143	11/14/97	61.1	50.0	122		62	139
	Dibromofluoromethane Rep.	976143	11/14/97	59.5	50.0	119		75	125
	Toluene-d8	976143	11/14/97	62.3	50.0	125		75	125
	4-Bromofluorobenzene Rep.	976143	11/14/97	55.9	50.0	112		75	125
3711474*1*MB									
270	2-Fluorophenol	97222	11/13/97	48.1	75.0	64		21	100
	Phenol-d5	97222	11/13/97	38.3	75.0	51		10	94
	Nitrobenzene-d5	97222	11/13/97	45.1	50.0	90		35	114
	2-Fluorobiphenyl	97222	11/13/97	37.7	50.0	75		43	116
	2,4,6-Tribromophenol Rep.	97222	11/13/97	73.8	75.0	98		10	123
	Terphenyl-d14	97222	11/13/97	41.8	50.0	84		33	141
711907*1*LC									
270	2-Fluorophenol	97222	11/13/97	40.7	75.0	54		21	100
	Phenol-d5	97222	11/13/97	31.9	75.0	43		10	93
	Nitrobenzene-d5	97222	11/13/97	39.1	50.0	78		37	114
	2-Fluorobiphenyl	97222	11/13/97	32.6	50.0	65		43	116
	2,4,6-Tribromophenol Rep.	97222	11/13/97	66.7	75.0	89		40	123
	Terphenyl-d14	97222	11/13/97	36.9	50.0	74		33	141
711908*1*LC									

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 10:35:34 16 DEC 1997 - P. 4 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG	LCL	UCL
	2-Fluorophenol	97222	11/13/97	43.9	75.0	59		21	100
	Phenol-d5	97222	11/13/97	34.2	75.0	46		10	93
	Nitrobenzene-d5	97222	11/13/97	44.4	50.0	89		37	114
	2-Fluorobiphenyl	97222	11/13/97	36.8	50.0	74		43	116
	2,4,6-Tribromophenol Rep.	97222	11/13/97	78.2	75.0	104		40	123
	Terphenyl-d14	97222	11/13/97	43.1	50.0	86		33	141

Appendix H
LDC Data Validation Report

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: October 16, 1997

LDC Report Date: June 30, 1998

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C

Laboratory: VOC Analytical Laboratories, Inc.

Sample Delivery Group (SDG): G9710387

Sample Identification

18609-610
18609-612
18609-614
18609-616
18609-618
18609-620
18609-622
18609-624
18609-626
18609-628
18609-630
18609-632
18609-637A
18609-636

Introduction

This data review covers 12 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Gasoline.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990 .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as gasoline contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

Sample 18609-636 was identified as a trip blank. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG G9710387

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG G9710387

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: October 16, 1997

LDC Report Date: June 29, 1998

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: NFESC Level C

Laboratory: VOC Analytical Laboratories, Inc.

Sample Delivery Group (SDG): G9710387

Sample Identification

18609-610
18609-612
18609-614
18609-616
18609-618
18609-620
18609-622
18609-624
18609-626
18609-628
18609-630
18609-632
18609-637A

Introduction

This data review covers 12 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990 .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG G9710387

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG G9710387

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: October 16, 1997

LDC Report Date: June 29, 1998

Matrix: Soil/Water

Parameters: Volatiles

Validation Level: NFESC Level C & D

Laboratory: VOC Analytical Laboratories, Inc.

Sample Delivery Group (SDG): G9710387

Sample Identification

18609-610	18609-627
18609-612	18609-629
18609-614	18609-631
18609-616	18609-633
18609-618	18609-637A
18609-620	18609-636
18609-622	18609-621MS
18609-624	18609-621MSD
18609-626	
18609-628	
18609-630	
18609-632	
18609-611	
18609-613	
18609-615**	
18609-617	
18609-619	
18609-621	
18609-623	
18609-625	

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 26 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260A for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Samples indicated by a double asterisk on the front cover underwent a NFESC Level D review. A NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level C criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

The samples were analyzed after the BFB tuning. The instrument performance check could not be verified at the 12 hour interval.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

Average relative response factors (RRF) for all volatile target compounds and system monitoring compounds were within validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
9/10/97	Acetone	0.047 (≥0.05)	18609-610 18609-612	J (all detects) R (all non-detects)	A
	Vinyl acetate	0.046 (≥0.05)	18609-614 18609-616 18609-615** B71015331 B71015851	J (all detects) R (all non-detects)	

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
10/22/97	Acetone Vinyl acetate	0.032 (≥0.05) 0.030 (≥0.05)	18609-618 18609-620 18609-622 18609-624 18609-626 18609-628 18609-630 18609-632 18609-611 18609-613 18609-617 18609-619 18609-621 18609-623 18609-625 18609-627 18609-629 18609-631 18609-633 18609-621MS 18609-621MSD B7110791	J (all detects) R (all non-detects) J (all detects) R (all non-detects)	A
10/8/97	Acetone Vinyl acetate 2-Butanone	0.019 (≥0.05) 0.025 (≥0.05) 0.029 (≥0.05)	All water samples in SDG G9710387	J (all detects) R (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds with the following exceptions:

Date	Compound	%D (Limits)	Associated Samples	Flag	A or P
10/20/97 (B1816)	Carbon disulfide 2-Butanone 2-Chloroethylvinyl ether	50.3 (≤50) 68.0 (≤50) 57.9 (≤50)	18609-610 18609-612 18609-614 18609-616 B71015331	J J J	A

Date	Compound	%D (Limits)	Associated Samples	Flag	A or P
10/23/97 (B1901)	2-Hexanone	53.1 (≤50)	18609-618 18609-620 18609-622 18609-624 18609-626 18609-628 18609-630 18609-632 18609-611 18609-613 18609-617 18609-619 18609-321MS 18609-621MSD B7110791	J	A
10/23/97 (B1922)	Ethylbenzene Chloroethane Carbon disulfide 2-Hexanone	103.6 (≤25) 99.1 (≤50) 96.8 (≤50) 66.6 (≤50)	18609-621 18609-623 18609-625 18609-627 18609-629 18609-631 18609-633	J	P
10/20/97 (A1426)	2-Chloroethylvinyl ether	90.4 (≤50)	B7101136	J	A
10/21/97 (A1448)	2-Chloroethylvinyl ether	69.2 (≤50)	18609-637A 18609-636	J J	A

All of the continuing calibration RRF values were within validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
10/20/97 (B1816)	Vinyl acetate	0.036 (≥0.05)	18609-610 18609-612 18609-614 18609-616 B71015331	J (all detects) R (all non-detects)	A
10/21/97 (B1847A)	Vinyl acetate	0.035 (≥0.05)	18609-615** B71015851	J (all detects) R (all non-detects)	A

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
10/23/97 (B1901)	Acetone Vinyl acetate 2-Butanone	0.035 (≥0.05) 0.025 (≥0.05) 0.029 (≥0.05)	18609-618 18609-620 18609-622 18609-624 18609-626 18609-628 18609-630 18609-632 18609-611 18609-613 18609-617 18609-619 18609-621MS 18609-621MSD B7110791	J (all detects) R (all non-detects)	A
10/23/97 (B1922)	Chloroethane Acetone Vinyl acetate 2-Butanone	0.001 (≥0.05) 0.027 (≥0.05) 0.027 (≥0.05) 0.027 (≥0.05)	18609-621 18609-623 18609-625 18609-627 18609-629 18609-631 18609-633	J (all detects) R (all non-detects)	A
10/20/97 (A1426)	Acetone Vinyl acetate 2-Butanone Carbon tetrachloride	0.021 (≥0.05) 0.028 (≥0.05) 0.035 (≥0.05) 0.001 (≥0.05)	B7101136	J (all detects) R (all non-detects)	A
10/21/97 (A1448)	Acetone Vinyl acetate 2-Butanone	0.021 (≥0.05) 0.022 (≥0.05) 0.038 (≥0.05)	18609-637A 18609-636	J (all detects) R (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
18609-637A 18609-636 18609-621 18609-623 18609-625 18609-627 18609-629 18609-631 18609-633	All TCL compounds	Method blank associated with these samples was not run within the same 12 hour shift.	Method blanks must be run within the same 12 hour shift.	None	P

No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
B7101136	10/20/97	Acetone	6.7 ug/L	All water samples in SDG G9710387
B7110791	10/23/97	Acetone Methyl ethyl ketone	32 ug/Kg 4.1 ug/Kg	18609-618 18609-620 18609-622 18609-624 18609-626 18609-628 18609-630 18609-632 18609-611 18609-613 18609-617 18609-619 18609-621 18609-623 18609-625 18609-627 18609-629 18609-631 18609-633
B7101585	10/21/97	Acetone Methyl ethyl ketone Methyl-tert-butyl ether	28 ug/Kg 2.5 ug/Kg 1.5 ug/Kg	18609-615**

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
18609-637A	Acetone	12 ug/L	50U ug/L
18609-636	Acetone	12 ug/L	50U ug/L
18609-628	Acetone	23 ug/Kg	58U ug/Kg
18609-613	Acetone	22 ug/Kg	53U ug/Kg

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG G9710387	All TCL compounds	The LCS was analyzed as a continuing calibration standard.	The LCS should be analyzed independently from the calibration.	None	P

Sample	Compound	Finding	Criteria	Flag	A or P
18609-621 18609-623 18609-625 18609-627 18609-629 18609-631 18609-633	All TCL compounds	LCS associated with these samples was not run within the same 12 hour shift.	LCSs must be run within the same 12 hour shift.	None	P

Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

Sample 18609-636 was identified as a trip blank. No volatile contaminants were found in this blank with the following exceptions:

Trip Blank ID	Compound	Concentration (ug/L)
18609-636	Acetone Ethylbenzene	12 0.63

Sample 18609-637A was identified as a rinsate. No volatile contaminants were found in this blank with the following exceptions:

Rinsate ID	Compound	Concentration (ug/L)
18609-637A	Acetone	12

MCAS El Toro
Volatiles - Data Qualification Summary - SDG G9710387

SDG	Sample	Compound	Flag	A or P	Reason
G9710387	18609-610 18609-612 18609-614 18609-616 18609-615** 18609-618 18609-620 18609-622 18609-624 18609-626 18609-628 18609-630 18609-632 18609-611 18609-613 18609-617 18609-619 18609-621 18609-623 18609-625 18609-627 18609-629 18609-631 18609-633	Acetone Vinyl acetate	J ~~(all detects)~~ ~~R (all non-detects)~~ J ~~(all detects)~~ ~~R (all non-detects)~~	A	Initial calibration (RRF)
G9710387	18609-637A 18609-636	Acetone Vinyl acetate 2-Butanone	J ~~(all detects)~~ ~~R (all non-detects)~~	A	Initial calibration (RRF)
G9710387	18609-610 18609-612 18609-614 18609-616	Carbon disulfide 2-Butanone 2-Chloroethylvinyl ether	J J J	A	Continuing calibration (%D)
G9710387	18609-618 18609-620 18609-622 18609-624 18609-626 18609-628 18609-630 18609-632 18609-611 18609-613 18609-617 18609-619	2-Hexanone	J	A	Continuing calibration (%D)
G9710387	18609-621 18609-623 18609-625 18609-627 18609-629 18609-631 18609-633	Ethylbenzene Chloroethane Carbon disulfide 2-Hexanone	J	P	Continuing calibration (%D)

SDG	Sample	Compound	Flag	A or P	Reason
G9710387	18609-637A 18609-636	2-Chloroethylvinyl ether	J J	A	Continuing calibration (%D)
G9710387	18609-610 18609-612 18609-614 18609-616 18609-615**	Vinyl acetate	J ~~(all detects)~~ ~~R (all non-detects)~~	A	Continuing calibration (RRF)
G9710387	18609-618 18609-620 18609-622 18609-624 18609-626 18609-628 18609-630 18609-632 18609-611 18609-613 18609-617 18609-619 18609-637A 18609-636	Acetone Vinyl acetate 2-Butanone	J ~~(all detects)~~ ~~R (all non-detects)~~	A	Continuing calibration (RRF)
G9710387	18609-621 18609-623 18609-625 18609-627 18609-629 18609-631 18609-633	Chloroethane Acetone Vinyl acetate 2-Butanone	J ~~(all detects)~~ ~~R (all non-detects)~~	A	Continuing calibration (RRF)
G9710387	18609-637A 18609-636 18609-621 18609-623 18609-625 18609-627 18609-629 18609-631 18609-633	All TCL compounds	None	P	Method blanks

SDG	Sample	Compound	Flag	A or P	Reason
G9710387	18609-610 18609-612 18609-614 18609-616 18609-618 18609-620 18609-622 18609-624 18609-626 18609-628 18609-630 18609-632 18609-611 18609-613 18609-615** 18609-617 18609-619 18609-621 18609-623 18609-625 18609-627 18609-629 18609-631 18609-633 18609-637A 18609-636	All TCL compounds	None	P	Laboratory control samples

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG G9710387

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
G9710387	18609-637A	Acetone	50U ug/L	A
G9710387	18609-636	Acetone	50U ug/L	A
G9710387	18609-628	Acetone	58U ug/Kg	A
G9710387	18609-613	Acetone	53U ug/Kg	A

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: October 16, 1997

LDC Report Date: June 29, 1998

Matrix: Soil

Parameters: Semivolatiles

Validation Level: NFESC Level C

Laboratory: VOC Analytical Laboratories, Inc.

Sample Delivery Group (SDG): G9710387

Sample Identification

18609-610
18609-612
18609-614
18609-616
18609-618
18609-620
18609-622
18609-624
18609-626
18609-628
18609-630
18609-632

Introduction

This data review covers 12 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270B for Semivolatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.