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MCAS EL TORO
SIC NO. 5090.3

OHM Remediation Services Corp.

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# Temporary Accumulation Area 307
# 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. SW7852 – March 29, 2001

# Closure Report

Appendix A - Background Information; Appendix B - Site Photographs;
Appendix C - Site Assessment Log; Appendix D - Land Survey Data;
Appendix E - Laboratory Analytical Reports;
Appendix F - LDC Data Validation Report; Appendix G - Preferred Land Use Plan

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# TRANSMITTAL

Date: 3 April 2001

From: Lynn Marie Hornecker LMH

**To:** **Ms. Triss Chesney**
State of California Environmental Protection Agency
Department of Toxic Substances Control, Region 4
Site Mitigation Branch
Base Closure Unit
5796 Corporate Avenue
Cypress, CA 90630

Subj: Closure Report, Temporary Accumulation Area 307
Marine Corps Air Station (MCAS), El Toro

Transmitted are two copies of the closure report for TAA 307 at the Marine Corps Air Station, El Toro. TAA 307 is located on an unpaved area near Building 307 in the southwestern section of the Station. Field samples were collected at six locations at TAA 307 in October 1999.

We believe that the results of our field sampling demonstrate that no further actions are required at this site and we would like to request that TAA 307 be designated "closed" in the next Base Realignment and Closure Business Plan update.

If we do not receive comments from you within sixty (60) days of receipt of this document, then we will assume that you concur with our recommendation for the status of this site. A formal transmittal letter may follow.

Please do not hesitate to call me at (619) 532-0783 if you have questions pertaining to the closure report. Thank you very much.

Attachment:
Closure Report, TAA 307, MCAS El Toro (OHM, March 2001)

CF: (w/o attachment)
Dean Gould (MCAS El Toro BEC)
Dhananjay Rawal (OHM)
Project File (MCAS El Toro)

# Closure Report

*Temporary Accumulation Area 307*
*Marine Corps Air Station*
*El Toro, California*

*SWDIV Contract No. N68711-93-D-1459, Delivery Order No. 0070*
*OHM Project No. 18609*
*Document Control No. SW7852*
*Revision 0*
*March 29, 2001*


**OHM Remediation Services Corp.**

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# *Table of Contents*


***List of Figures*** ..... ***iii***

***List of Tables*** ..... ***iii***

***Acronyms and Abbreviations*** ..... ***iv***

***Section 1 Introduction*** ..... ***1-1***

1.1 Site Location and Background ..... 1-1
1.2 Project Objectives ..... 1-1
1.3 Regulatory Background and Cleanup Goals ..... 1-2
1.4 Project Scope of Work ..... 1-2

***Section 2 Previous Investigations and Site Background*** ..... ***2-1***

2.1 RCRA Facility Assessment ..... 2-1
2.2 Site Background ..... 2-1

***Section 3 Field Activities*** ..... ***3-1***

3.1 Preparatory Work ..... 3-1
3.2 Confirmation Soil Sampling ..... 3-1

***Section 4 Sampling Analytical Results and Data Quality Assessment*** ..... ***4-1***

4.1 Field Sampling Summary ..... 4-1
4.1.1 Confirmation Soil Sampling ..... 4-1
4.1.2 Quality Control ..... 4-2
4.1.3 Equipment Decontamination ..... 4-2
4.2 Analytical Methods ..... 4-2
4.3 Laboratory Analytical Results ..... 4-3
4.3.1 Soil Sample Analytical Results ..... 4-4
4.3.2 QC Sample Analytical Results ..... 4-5
4.4 Data Quality Assessment ..... 4-5
4.5 Data Validation ..... 4-6
4.5.1 Analytical Quality Control Program ..... 4-6

***Section 5 Risk Characterization and Hazard Index Calculation*** ..... ***5-1***

5.1 Physical Characteristics of TAA 307 ..... 5-1
5.2 Exposure Assessment ..... 5-1
5.3 Toxicity Assessment ..... 5-2
5.4 Risk Characterization ..... 5-2

***Section 6 Conclusions and Recommendations*** ..... ***6-1***

***Section 7 References*** ..... ***7-1***

# *Table of Contents (Cont.)*

*Appendix A* ***Background Information***

*Appendix B* ***Site Photographs***

*Appendix C* ***Site Assessment Log***

*Appendix D* ***Land Survey Data***

*Appendix E* ***Laboratory Analytical Reports***

*Appendix F* ***LDC Data Validation Report***

*Appendix G* ***Preferred Land Use Plan***

# *List of Figures*


Figure 1-1 Facility Location Map
Figure 1-2 Location Map
Figure 3-1 Site Plan – TAA 307
Figure 5-1 Conceptual Site Model – TAA 307
Figure 5-2 Potential Migration Pathways, Exposure Routes and Receptors – TAA 307


# *List of Tables*


Table 4-1 Summary of Chemical Analyses – TAA 307
Table 4-2 Summary of Analytical Results for Confirmation Soil Samples – TAA 307
Table 4-3 Summary of Analytical Results for QC Sample - TAA 307
Table 5-1 Residential Risk Screening Worksheet for Soil - TAA 307
Table 5-2 Industrial Risk Screening Worksheet for Soil - TAA 307
Table 5-3 Hazard Index By Target Organ System Endpoint – TAA 307

# *Acronyms and Abbreviations*

| | |
|---|---|
| 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 confirmation soil sampling activities performed at the Temporary Accumulation Area (TAA) 307 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.

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

## 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 307, a former temporary, drum storage area (DSA) is located in the southwest quadrant of the Station. The TAA 307 is located south of Building 307 (Figure 1-2).

The depth to groundwater in the vicinity of the TAA 307 site is based on available water level data collected from the nearest groundwater monitoring well 12_UGMW31. The location of this well is shown in Figure 1-2. Based upon this data, the depth to the groundwater at TAA 307 is approximately 95 feet below ground surface (OHM, 1997b).

## 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 307 in accordance with the MCAS El Toro Detailed Plan (OHM, 1995).
- Perform verification soil sampling and analysis to obtain "closure status" of TAA 307.

## *1.3 Regulatory Background and Cleanup Goals*

The closure activities at TAA 307 were completed in accordance with the appropriate federal and state requirements. TAA 307 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 307 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 307 are based on the following:

**Soil**

- United States Environmental Protection Agency (EPA) Region IX Preliminary Remediation Goals (PRGs) dated November 1, 2000 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 307 consisted of the following tasks:

- Collection and laboratory analysis of confirmation samples, including soil samples obtained from beneath and adjacent to the TAA structure.
- 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 307 site. Background information regarding TAA 307 was obtained from the following documents:

1. *Hazardous Material/Hazardous Waste Management Plan, Marine Corps Air Station El Toro, California (Science Applications International Corporation [SMC], 1994)*
2. Final Base Realignment and Closure Business Plan, March 2000, Marine Corps Air Station El Toro, California (MCAS El Toro, 2000)

## *2.1 RCRA Facility Assessment*

In 1991, Jacobs Engineering Group, Inc., (JEG), as part of the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA), performed a Preliminary Review (PR) and a Visual Site Inspection (VSI) of the 307 SWMUs within the Station. JEG also conducted a site visit to observe the current conditions of the SWMUs and/or TAAs, and performed limited sampling. No site visit was conducted under RFA by JEG or Bechtel National, Inc., at TAA 307 site.

## *2.2 Site Background*

During a field visit on October 7, 1993, Science Applications International Corporation (SAIC) identified a previously unidentified temporary hazardous waste drum storage area (DSA) approximately 25 feet southeast of Building 307 (SAIC, 1994). The DSA was apparently associated with the Squadron Operation and Maintenance Squadron (SOMS) Recovery, and observed to be active at the time of the site visit and constructed of a tarpaulin-lined storage area with sand-bag berms. Several storage containers including 5-, 15- and 55-gallon metal containers were identified. The site was not included on the list of sites for further assessment. A copy of TAA 307 photo from the 1993 field visit by SAIC is included in Appendix A, Background Information.

As part of the closure of TAA and RCRA Facility Assessment Sites, OHM conducted a review of documents prepared previously for the MCAS El Toro site. OHM identified the former DSA as TAA 307. Upon inspection of the DSA location, OHM did not find the sandbag bermed storage area but did find residual sand, associated with the sand bag berm, at the location. The types of wastes that may have been stored at TAA 307 were assumed to be similar to those stored at nearby TAA 529, including waste oil and absorbent material.

In 1997, OHM prepared a TAA closure work plan to perform confirmation sampling and decontamination of TAA 307 as warranted. The following sections describe OHM's approach and field efforts for closure of TAA 307.

# Section 3
# Field Activities

The following subsections describe the activities that were performed by OHM at TAA 307. Field activities were conducted in accordance with the approved Final Supplemental Work Plan (OHM, 1997a).

Field activities conducted at TAA 307 included a site inspection, preconstruction meeting, confirmation soil sampling, and waste management. Photographs of the field activities at TAA 307 are presented in Appendix B, Site Photographs.

## 3.1 Preparatory Work

OHM performed a site visit at TAA 307 on October 15, 1999 before performing any field activities. TAA 307 was observed to be an inactive TAA consisting of a level grass-covered area with residual sand associated with the former TAA sandbag berm. No evidence of a release or stains was observed around the TAA 307. A copy of the Site Assessment Log is included as Appendix C.

## 3.2 Confirmation Soil Sampling

Confirmation soil samples were collected on October 26, 1999 and October 28, 1999 from six hand auger locations at TAA 307. A total of 13 soil samples were collected from the six borings (SB-A through SB-F). Soil sample locations were selected based on a visual inspection performed during the site visit on October 15, 1999.

Soil samples were collected in standard stainless steel sleeves at two different depths: 18 and 36 inches bgs. A soil sample was also collected at 42 inches bgs from boring SB-F (duplicate sample). Details on the sampling strategy and analytical methods are discussed in Section 4. The locations of the OHM hand-auger borings at TAA 307 are shown on Figure 3-1, Site Plan.

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 307 are presented as Appendix D.

# Section 4
# Sampling Analytical Results and Data Quality Assessment

The objective of confirmation sampling and analysis was to provide analytical data to characterize the soil condition adjacent to TAA 307. 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 DTSC-approved 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 provide data for assessment of risk to human health and the environment. A list of all the analytical methods that were performed for TAA 307 is provided in Section 4.2.

All samples were analyzed by EMAX Laboratories, Inc. which is 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 307 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 307.

Sample locations were selected based on visual inspection performed during a site visit, which included any areas where there was evidence of spills or staining. A total of 13 confirmation soil samples (sample numbers 18609-2347, 18609-2348, and 18609-2350 through 18609-2360) were collected at TAA 307 from six hand auger borings (SB-A through SB-F). The locations of hand auger borings are shown in Figure 3-1.

A hand auger was used to bore into the soil to approximately 18 inches. Soil samples were collected at 18, 36, and 42 inches bgs using a hammer-driven split core sampler that contained a stainless steel sleeve. Following the collection of the soil samples, excess soil was placed back in the open boreholes (no airborne VOCs were identified by the photoionization detector). The surface was then finished to match the existing surface of the unpaved soil. The Sample Collection Summary Log for TAA 307 is presented in Table 4-1.

### *4.1.2 Quality Control*

Field quality assurance/quality control (QA/QC) samples were collected at the TAA 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.
- One equipment rinsate (sample number 18609-2361) and two trip blanks (sample numbers 18609-2349 and 18609-2362) were collected for the TAA site.

EMAX Laboratories, Inc. 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.

### *4.1.3 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 analyte-free water for the final rinse.

## *4.2 Analytical Methods*

Analytical methods were selected to encompass all the chemicals of potential concern at TAA 307. The following methods were performed to characterize samples collected from TAA 307:

- Volatile Organic Compounds (VOCs) by EPA Method 8260A
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270B
- TPH as Gasoline by CA LUFT 8015 Modified (purge and trap)
- TPH as Diesel/JP-5 by CA LUFT 8015 Modified (extraction)
- Polychlorinated Biphenyls (PCBs) and Pesticides by EPA method 8081
- Metals by EPA Method 6010A and 7470A/7471A

- Total Cyanide by EPA Method 9010
- pH by EPA Method 150.1

Additionally, the Selected Ion Monitoring (SIM) technique was used for the following seven semi-volatile organic compounds in order to achieve detection limits lower than the Region 9 PRGs (U.S.EPA, November 2000):

- benzo(a)pyrene
- dibenzo(a,h)anthracene
- hexachlorobenzene
- indeno(1,2,3-cd)pyrene
- n-nitrosodi-n-propylamine
- pentachlorophenol
- 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 quantify 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 307. The analytical results for the confirmation soil samples at TAA 307

with comparison to the background concentrations and PRGs are presented in Table 4-2, Summary of Analytical Results for Confirmation Soil Samples – TAA 307. QC sample analytical data for TAA 307 are presented in Table 4-3, Summary of Analytical Results for QC Samples – TAA 307. The hard copies of the analytical results with QA/QC data obtained from VOC Analytical Laboratory are included in Appendix E, Laboratory Analytical Results.

### *4.3.1 Soil Sample Analytical Results*

**Total Petroleum Hydrocarbons (TPH)** – TPH as gasoline, diesel and JP-5 were not detected above the laboratory reporting limits for all confirmation soil samples collected from TAA 307.

**Volatile Organic Compounds** – VOCs were not detected above the laboratory reporting limits in any confirmation soil samples collected from TAA 307.

**PCBs/Pesticides** – PCB/pesticide compounds were not detected above the laboratory reporting limits for all confirmation soil samples collected from TAA 307 except for the following:

- Sample number 18609-2352, 4,4'DDE at 0.016 mg/kg, 4,4'-DDT at 0.011 mg/kg, dieldrin at 0.002 mg/kg, endrin aldehyde at 0.0021 mg/kg;
- Sample number 18609-2354, 4,4'DDE at 0.0049 mg/kg, 4,4'-DDT at 0.0061 mg/kg;
- Sample number 18609-2355, α-BHC at 0.00091 mg/kg;
- Sample number 18609-2356, 4,4'-DDE at 0.0015 mg/kg, 4,4'-DDT at 0.0044 mg/kg;
- Sample number 18609-2359, 4,4'-DDE at 0.01 mg/kg, 4,4'-DDT at 0.016 mg/kg, dieldrin at 0.0016 mg/kg, endrin aldehyde at 0.0029 mg/kg.

Reporting limits for α-chlordane, endosulfan I, endosulfan II, endosulfan sulfate, endrin, and γ-chlordane, exceeded established background concentrations for all confirmation samples that were analyzed for these parameters. Reporting limits for dieldrin and toxaphene exceeded the EPA Region 9 Residential PRGs in all confirmation samples where these compounds were not detected.

**Semi-Volatile Organic Compounds (SVOCs)** – SVOCs were not detected above the laboratory reporting limits in any confirmation soil samples collected from TAA 307. The reporting limits for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a.h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene exceeded the background level concentrations for all confirmation soil samples.

The following seven 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
- hexachlorobenzene
- indeno(1,2,3-cd)pyrene
- n-nitrosodi-n-propylamine
- pentachlorophenol
- 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.

**Metals** – The following metals were reported above the reporting limit in the confirmation soil samples as presented in Table 4-2: aluminum, arsenic, barium, beryllium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, sodium, vanadium, and zinc. The reporting limits and positive results for several analytes exceeded the established background values. These results are flagged with a B in Table 4-2, Summary Analytical Results for Confirmation Soil Samples. The results for arsenic were above residential and/or industrial PRGs for all confirmation samples but all were below the background levels.

**pH** – The pH of all confirmation soil samples ranged from 7.41 to 8.41.

**Total Cyanide** – Total cyanide was not detected above the laboratory reporting limits in any of the confirmation samples.

### *4.3.2 QC Sample Analytical Results*

Two trip blanks were collected for TAA 307 (18609-2349 and 18609-2362). The trip blanks were analyzed for VOCs, and no analytes were reported above the reporting limits.

One equipment rinsate sample (18609-2361) was collected and analyzed for TPH, Pesticides/PCBs, VOCs, SVOCs, Metals, cyanide, and pH. No analytes were reported above the reporting limits.

## *4.4 Data Quality Assessment*

TAA 307 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 4-3. All data are useable as qualified.

## 4.5 Data Validation

This section addresses the validity and quality of the data collected from TAA 307. 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 F, 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 vinyl acetate was out of QC limits; therefore, sample numbers 18609-2347, 18609-2348 and 18609-2349 (trip blank) were flagged as rejected with an "R" since the analytes were not detected in those samples.
- The continuing calibration RRF for aldrin was out of QC limits; therefore, samples 18609-2350 and 18609-2361 were flagged as estimated with "UJ" since the analyte was not detected in those samples.
- The %R for the MS for antimony was out of QC limits; therefore, the spiked analytes for samples 18609-2350 through 18609-2360 were flagged as estimated with "UJ."
- The %D for the serial dilution for metals analysis was out of QC limits calcium, iron, magnesium and manganese; therefore, samples 18609-2350 through 18609-2360 were flagged as estimated with "J."

**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:

- Molybdenum was detected in the associated method blank; therefore, sample 18609-2350 was changed to the reporting limit and flagged with a "U" for not detected.
- Chromium was detected in the associated method blank; therefore, sample 18609-2351 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. 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 TPH, Pesticides/PCBs, VOCs, SVOCs, Metals, total cyanide, and pH by the laboratory.

**Summary** — All data associated with TAA 307 were usable and acceptable as qualified with the exception of vinyl acetate in two confirmation samples. Overall precision and accuracy were met. The analytical results and associated qualifiers are summarized in Tables 4-2 and 4-3.

# *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 307. A screening level risk assessment for human health was conducted following the guidance provided in the EPA Region 9 PRGs dated November 1, 2000 (EPA, 2000). The results of confirmation soil sampling conducted at TAA 307 were used to calculate risks.

## *5.1 Physical Characteristics of TAA 307*

Based upon the review of the boring log of the groundwater monitoring well 12_UGMW31, the subsurface lithology at TAA 307 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 95 feet below ground surface (OHM, 1997b).

## *5.2 Exposure Assessment*

TAA 307 was used as a temporary DSA for storage of drums containing hazardous waste. The area surrounding TAA 307 is unpaved. 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). TAA 307 is located within a parcel designated within or near an area designated as *Cargo* according to *Preferred Land Use Plan (Concept B)* as published by the County of Orange in September 1999, as shown in Figure 1, Appendix G.

For screening purposes, the ingestion, dermal contact, and inhalation exposure pathways are assumed to be complete for TAA 307. Should the screening fail, further evaluation of the exposure pathways would be required. A site conceptual model for TAA 307 is shown on Figure 5-1.

Under an industrial and/or residential land use scenario at TAA 307, 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 (EPA, 2000). Figure 5-2 presents the potential migration pathways at TAA 307.

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 cargo area for 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, 2000). 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 risk. Therefore, the PRG concentrations are calculated to the lower end of the acceptable cancer risk range of $1x10^{-6}$ and to 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 the sum is then multiplied by $10^{-6}$. The hazard index is calculated by dividing the site concentration by the PRG for each chemical and adding the resultant ratios.

Although maximum concentrations for chemicals detected at the site are used for this risk screening, comparisons are not made to maximum detected background concentrations. To maintain a conservative estimate of background risk, the $95^{th}$ quantile background concentrations calculated for Marine Corps Air Station El Toro (Bechtel National, Inc., 1996b) are used to calculate background contributions to cancer risk and the hazard index.

At TAA 307, the detected carcinogens in soil include 4,4'-DDE, 4,4'-DDT, alpha-BHC, dieldrin, arsenic, beryllium, chromium, and nickel. All of the contributors to the cancer risk were below background concentrations except for alpha-BHC. There is no background concentration available for alpha-BHC. The summed cancer risk is $9.5x10^{-6}$ and is due almost entirely to arsenic. The contribution from alpha-BHC is less than $10^{-7}$. The net cancer risk for soil under the potential future residential scenario after subtracting background is less than $10^{-6}$ (Table 5-1). The net cancer risk for the current industrial scenario is also less than $10^{-6}$ (Table 5-2).

The non-cancer hazard index for soil under the potential future residential scenario is 1.3. The potential significant contributors (with an HI greater than 1.0) are iron, aluminum, and manganese (Table 5-3). The HI due to background concentrations is 1.2. Iron is the main contributor with an HI of 0.86. Iron did not exceed its PRG but was detected above its

background concentration in 4 out of 12 samples. The most it exceeded background was by approximately 8 percent. The maximum detected iron concentration was 19,800 mg/kg and the background concentration is 18,400 mg/kg. The average concentration of iron (17,575 mg/kg) is less than background.

Since the HI exceeded 1.0, a target organ evaluation was conducted. Table 5-3 shows the results of the target organ evaluation. The individual target organ system endpoint HIs are less than 1.0.

Under the current industrial land use scenario the non-cancer hazard index is less than 1.0 (Table 5-2).

Summary

The site-related incremental cancer risk and non-cancer hazard index at TAA 307 are acceptable for the following reasons:

- The net carcinogenic risk is less than $10^{-6}$ for the residential scenario and the industrial scenario.
- The non-cancer hazard index for detected chemicals is less than 1.0 for the current industrial scenario.
- The non-cancer hazard index for the potential future residential land use scenario is less than 1.0 for individual target organs.

# *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:

- TAA 307 was identified by SAIC as a temporary DSA during a field visit on October 7, 1993, located approximately 25 feet southeast of Building 307. The DSA was observed to be active and constructed of a tarpaulin-lined storage area with sandbag berms. Several storage containers including 5-, 15- and 55-gallon metal containers were identified.

- OHM conducted a review of documents prepared previously for the MCAS El Toro site, and identified the former DSA as TAA 307. Upon inspection of the DSA location, OHM did not find the sandbag bermed temporary DSA but did find traces of sand. The types of wastes that may have been stored at TAA 307 were assumed to be similar to those stored at nearby TAA 529, including waste oil and absorbent material.

- OHM collected 13 confirmation soil samples from six hand auger borings at TAA 307. No VOCs, SVOCs, or TPH were detected above the project reporting limits. Arsenic (above PRGs but below background) and low concentrations of pesticides and other metals (below background and PRGs) were found in soil samples at TAA 307. Based on the review of analytical data, there was no indication of hazardous contaminants from previous spills or handling of hazardous wastes. Health risk calculations were conducted which indicate that the use of the HWSA did not impact the soil at TAA 307.

- The detected carcinogens in soil include arsenic, beryllium, chromium, nickel, 4,4'-DDE, 4,4'-DDT, and dieldrin, and none of these were detected above background concentrations. Compounds that were detected at TAA 307 that contribute to the non-cancer HI include contributors (with an HI greater than 1.0) are iron, aluminum, and manganese.

- The residential and industrial risk calculations for TAA 307 resulted in a site-related net cancer risk less background risk of less than $10^{-6}$. The industrial non-cancer HI was less than 1.0, although the residential non-cancer HI was 1.3. However, the total HI for any individual target organ is less than 1.0 for both residential and industrial scenarios.

The objectives of this project are considered to be achieved, since TAA 307 is no longer used for storage of hazardous waste drums. Confirmation soil sampling was conducted at TAA 307 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 for TAA 307; therefore, TAA 307 should be identified as "closed."

# Section 7
# References


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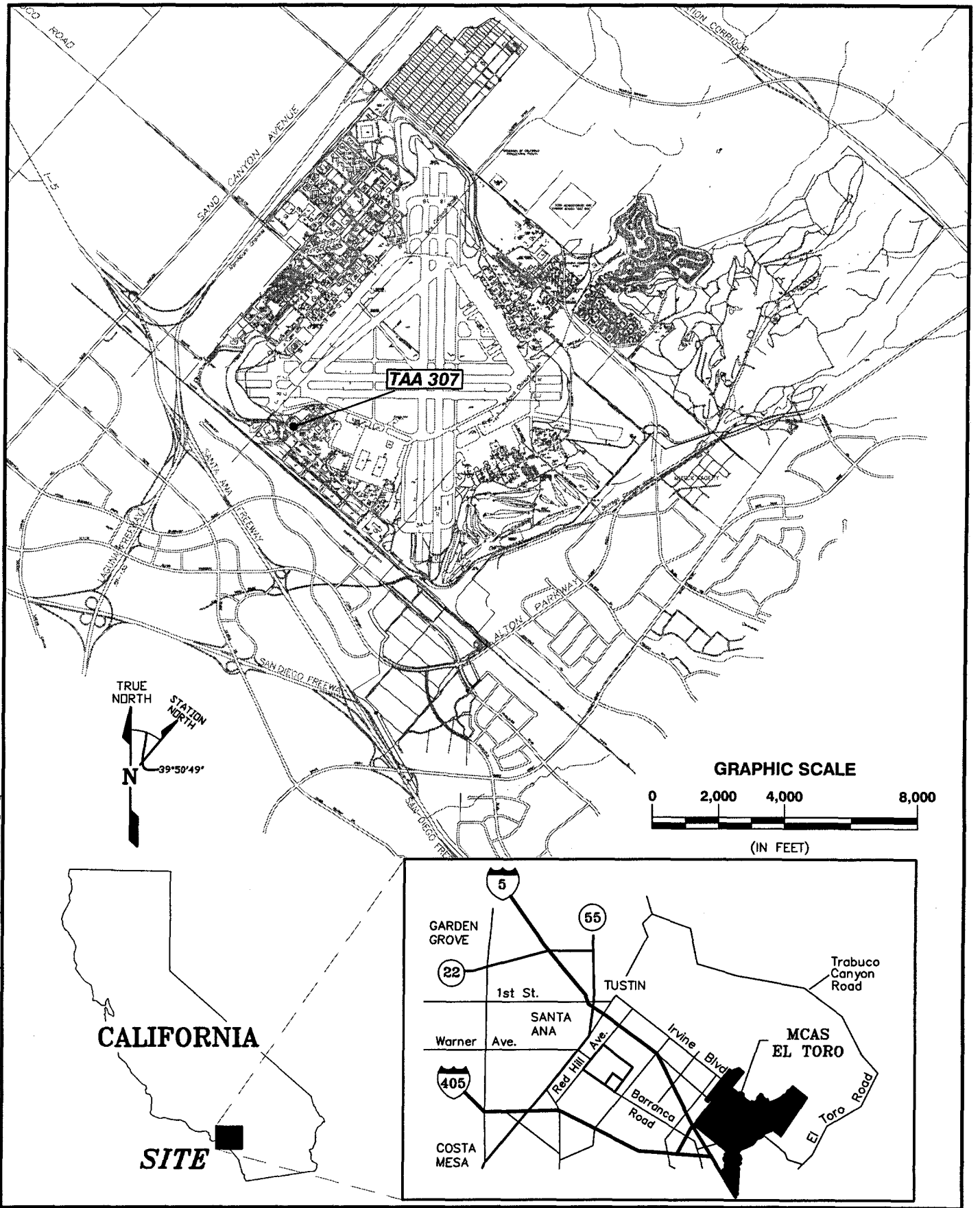
# *Figures*




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

CONTRACT NAME: SWDIV

| DRAWN BY | DATE |
|---|---|
| R. PIRMORADIAN | 1/15/01 |
| CHECKED BY: J. Ea | DATE: 3/21/01 |
| APPROVED BY | DATE |
| PROJECT MANAGER | DATE |

# FACILITY LOCATION MAP
# TAA 307

## MARINE CORPS AIR STATION
## EL TORO, CALIFORNIA

| AUTOCAD FILE No. | PLOT SCALE | SHEET | OF | SCALE | DOCUMENT CONTROL No. | OHM PROJECT No. | FIGURE No. | REVISION |
|---|---|---|---|---|---|---|---|---|
| 18609359A.DWG | 1=1 | 1 | 1 | 1"=4,000' | SW7852 | 18609 | FIG 1-1 | 0 |

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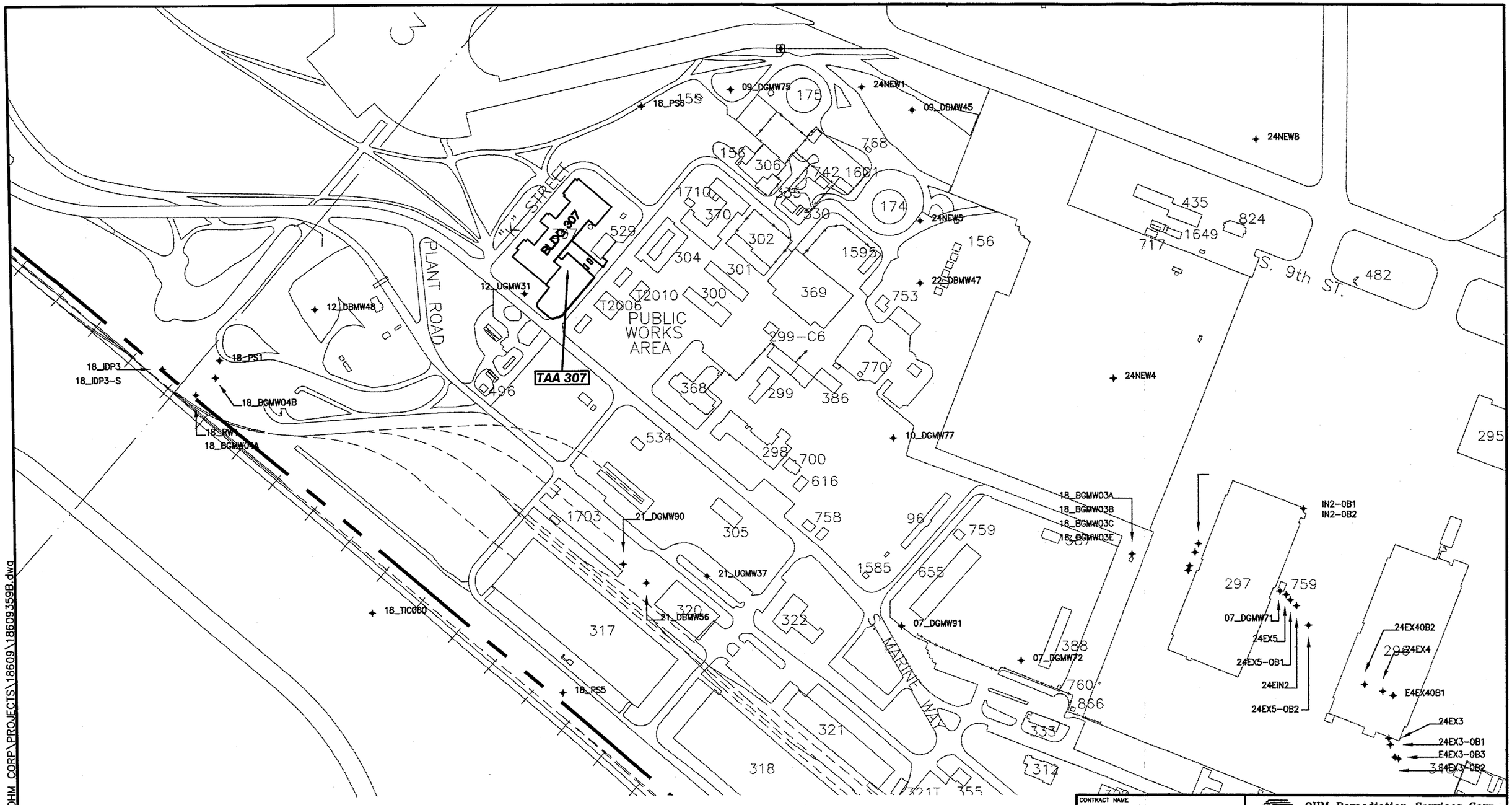



**EXPLANATION:**

GROUNDWATER MONITORING WELL

EL TORO BASE BOUNDARY LINE

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 |
| DRAWN BY | R. PIRMORADIAN |
| DATE | 3/29/01 |
| CHECKED BY | |
| DATE | 3/29/01 |
| APPROVED BY | |
| DATE | |
| PROJECT MANAGER | |
| DATE | |
| AUTOCAD FILE No. | 18609359B.DWG |

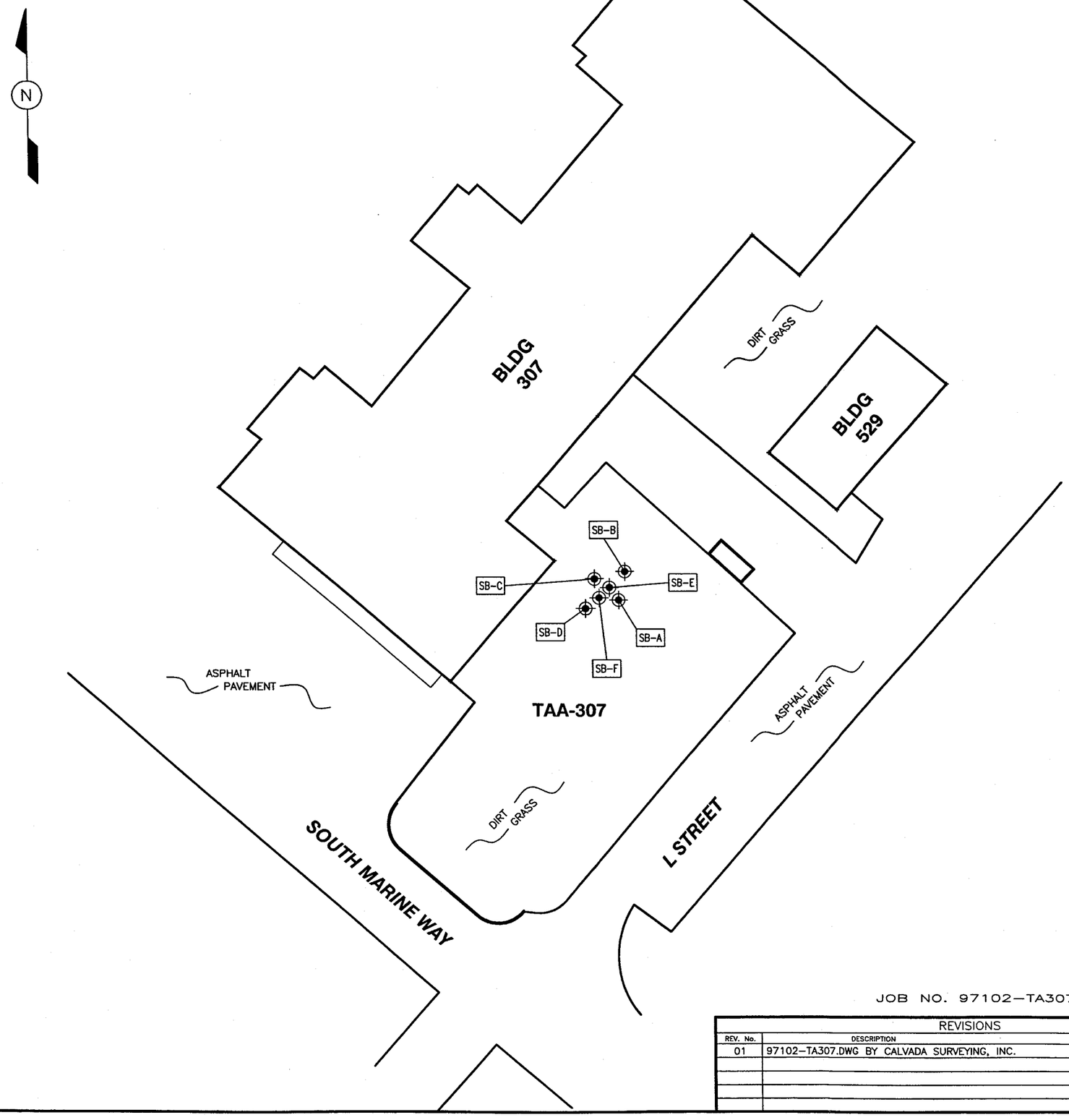
OHM Remediation Services Corp.
A Subsidiary of OHM Corporation
IRVINE, CA

LOCATION MAP
TAA 307

MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

| SCALE | SHEET | OF | DOCUMENT CONTROL No. | OHM PROJECT No. | DRAWING No. |
|---|---|---|---|---|---|
| 1"=300' | 1 | 1 | SW7852 | 18609 | FIG 1-2 |

Mar 29, 2001 - 12:34:15 I:\OHM_CORP\PROJECTS\18609\18609359B.dwg




**TAA-307**

| NORTHING | EASTING | ELEVATION | NUMBER |
|---|---|---|---|
| 2189769.5239 | 6107674.1285 | 258.96 | SB-A |
| 2189782.8871 | 6107677.0484 | 259.10 | SB-B |
| 2189779.5036 | 6107663.2212 | 258.06 | SB-C |
| 2189765.9261 | 6107659.1716 | 258.28 | SB-D |
| 2189775.5645 | 6107669.9428 | 258.66 | SB-E |
| 2189770.8129 | 6107665.2601 | 258.45 | SB-F |

**LEGEND:**

SAMPLE POINTS

DATE OF SURVEY:11-09-99

**GRAPHIC SCALE**

0 25 50 100

(IN FEET)

JOB NO. 97102-TA307

REVISIONS

| REV. No. | DESCRIPTION | DATE | APPROVED |
|---|---|---|---|
| 01 | 97102-TA307.DWG BY CALVADA SURVEYING, INC. | 11/8/99 | |

CONTRACT NAME: SWDIV

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

DRAWN BY: R. PIRMORADIAN DATE: 1/11/01
CHECKED BY: J. Erm DATE: 3/27/01
APPROVED BY DATE
PROJECT MANAGER DATE
AUTOCAD FILE No. 18609359.DWG

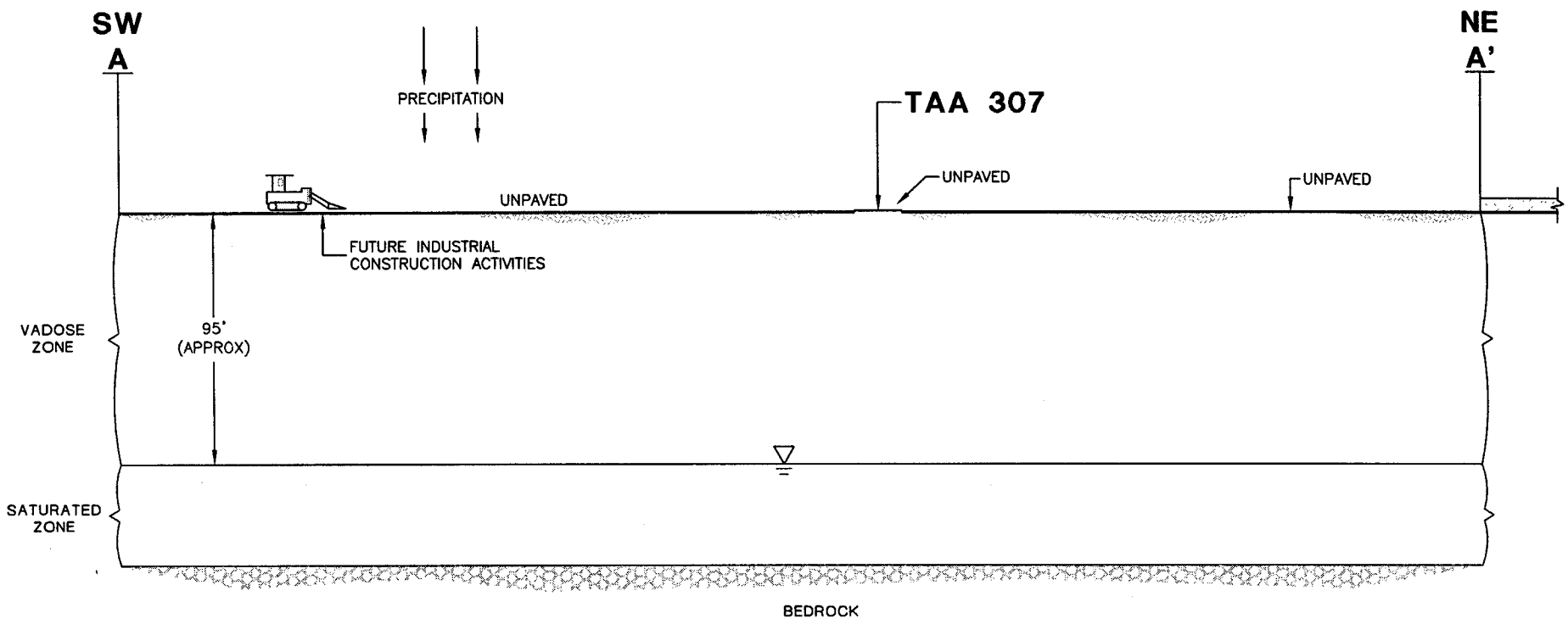
SITE PLAN
TAA 307

MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

| SCALE | SHEET | OF | DOCUMENT CONTROL No. | OHM PROJECT No. | DRAWING No. |
|---|---|---|---|---|---|
| 1"=50' | 1 | 1 | SW7852 | 18609 | FIG 3-1 |

Jan 16, 2001 - 09:42:28 I:\OHM_CORP\PROJECTS\18609\18609359.dwg

Mar 29, 2001 – 12:23:46 I:\OHM CORP\PROJECTS\18609\18609359C.dwg




**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 3/29/01 | CONCEPTUAL SITE MODEL TAA 307 | | | | |
| | CHECKED BY | DATE 3/29/01 | | | | | |
| | APPROVED BY | DATE | | | | | |
| CONTRACT NAME SWDIV | PROJECT MANAGER | DATE | MARINE CORPS AIR STATION EL TORO, CALIFORNIA | | | | |
| AUTOCAD FILE No. 18609359C.DWG | PLOT SCALE 1=1 | SHEET 1 | OF 1 | SCALE NONE | DOCUMENT CONTROL No. SW7852 | OHM PROJECT No. 18609 | FIGURE No. FIG 5-1 |

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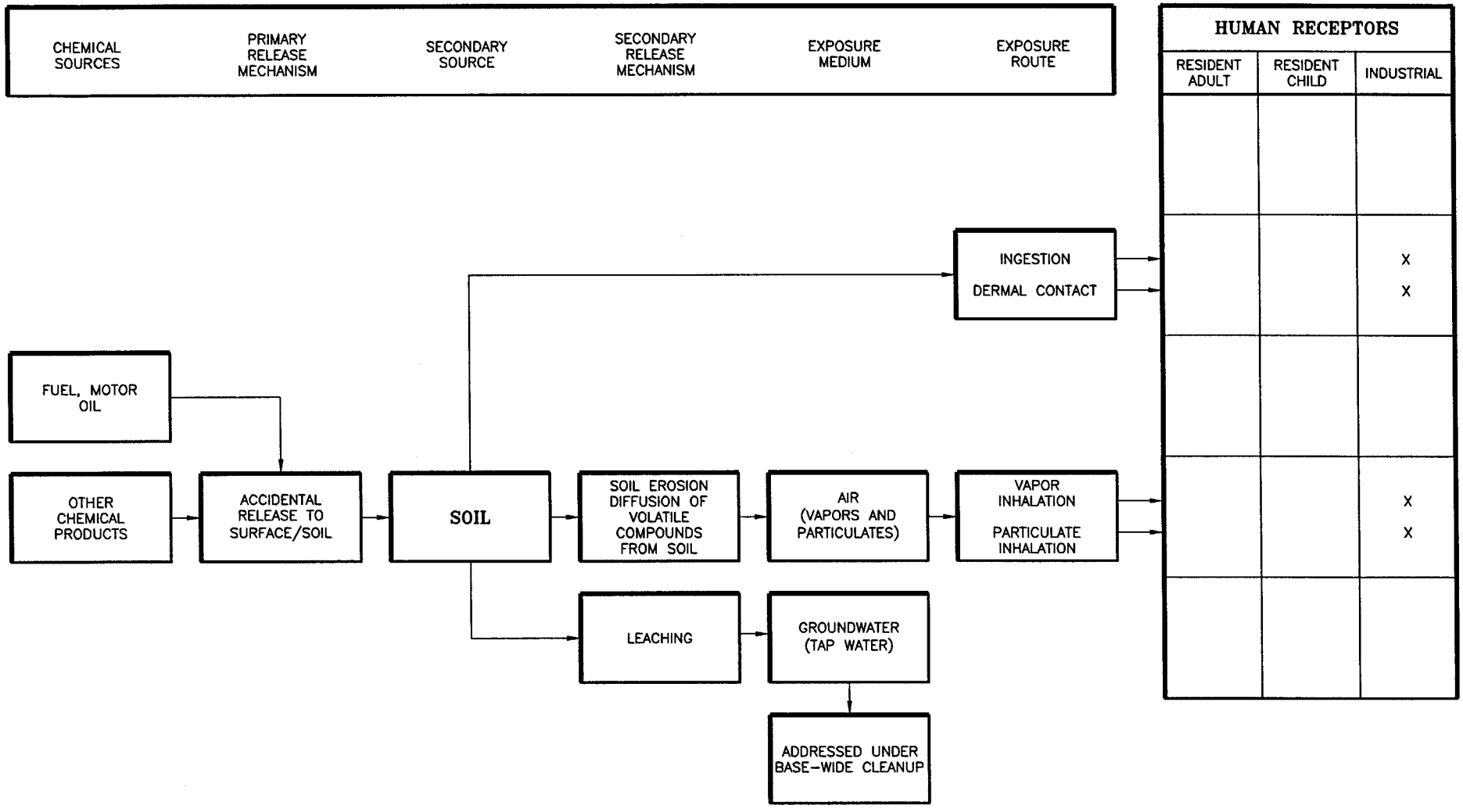



EXPLANATION:

X COMPLETE PATHWAY

REFERENCE:
103C2089.DXF

| | | | |
|---|---|---|---|
| OHM Remediation Services Corp. A Subsidiary of OHM Corporation SAN DIEGO, CA | DRAWN BY R. PIRMORADIAN | DATE 1/15/01 | POTENTIAL MIGRATION PATHWAYS EXPOSURE ROUTES AND RECEPTORS TAA 307 |
| | CHECKED BY | DATE 3/25/01 | |
| | APPROVED BY | DATE | |
| CONTRACT NAME SWDIV | PROJECT MANAGER | DATE | MARINE CORPS AIR STATION EL TORO, CALIFORNIA |

| AUTOCAD FILE No. | PLOT SCALE | SHEET | OF | SCALE | DOCUMENT CONTROL No. | OHM PROJECT No. | FIGURE No. |
|---|---|---|---|---|---|---|---|
| 18609359D.DWG | 1=1 | 1 | 1 | NONE | SW7852 | 18609 | FIG 5-2 |

# *Tables*

## Table 4-1
## Summary of Chemical Analyses - TAA 307

| Field Sample Identification | Location Code | Date Sampled | Start Depth | TPH AS GASOLINE | TPH AS DIESEL | TPH AS JP-5 | EPA 8081 | EPA 8260A | EPA 8270B | EPA 6010A | EPA 7470A/ 7471A | EPA 9010 | EPA 150.1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Soil*** | | | | | | | | | | | | | |
| 18609-2350 | TAA307-SBA | 10/28/99 | 1.5 | X | X | X | X | X | X | X | X | X | X |
| 18609-2351 | TAA307-SBA | 10/28/99 | 3.0 | X | X | X | X | X | X | X | X | X | X |
| 18609-2347 | TAA307-SBB | 10/26/99 | 1.5 | X | X | X | X | X | X | X | X | X | X |
| 18609-2348 | TAA307-SBB | 10/26/99 | 3.0 | X | X | X | X | X | X | X | X | X | X |
| 18609-2352 | TAA307-SBC | 10/28/99 | 1.5 | X | X | X | X | X | X | X | X | X | X |
| 18609-2353 | TAA307-SBC | 10/28/99 | 3.0 | X | X | X | X | X | X | X | X | X | X |
| 18609-2354 | TAA307-SBD | 10/28/99 | 2.0 | X | X | X | X | X | X | X | X | X | X |
| 18609-2355 | TAA307-SBD | 10/28/99 | 3.0 | X | X | X | X | X | X | X | X | X | X |
| 18609-2356 | TAA307-SBE | 10/28/99 | 1.5 | X | X | X | X | X | X | X | X | X | X |
| 18609-2357 | TAA307-SBE | 10/28/99 | 3.0 | X | X | X | X | X | X | X | X | X | X |
| 18609-2358 | TAA307-SBF | 10/28/99 | 1.5 | X | X | X | X | X | X | X | X | X | X |
| 18609-2359 | TAA307-SBF | 10/28/99 | 3.0 | X | X | X | X | X | X | X | X | X | X |
| 18609-2360 | TAA307-SBF | 10/28/99 | 3.5 | X | X | X | X | X | X | X | X | X | X |
| ***Field QC*** | | | | | | | | | | | | | |
| 18609-2361 | Equipment Rinsate | 10/28/99 | | X | X | X | X | X | X | X | | X | X |
| 18609-2349 | Trip Blank | 10/26/99 | | | | | | X | | | | | |
| 18609-2362 | Trip Blank | 10/28/99 | | | | | | X | | | | | |

EPA - US Environmental Protection Agenc
OHM - OHM Remediation Services Corp.
QC - quality control
TPH - total petroleum hydrocarbons
TPH - total petroleum hydrocarbons

EPA - US Environmental Protection Agency
OHM - OHM Remediation Services Corp.
QC - quality control
TPH - total petroleum hydrocarbons

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2350 | | 18609-2351 | | 18609-2347 | | 18609-2348 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBA | | TAA307-SBA | | TAA307-SBB | | TAA307-SBB | |
| Date Sampled | | | | | 10/28/99 | | 10/28/99 | | 10/26/99 | | 10/26/99 | |
| Depth (feet below ground surface) | | | | | 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 | 11.1 U | | 10.9 U | | 11 U | | 11 U | |
| TPH as Gasoline | mg/kg | NE | NE | NE | 1.1 U | | 1.1 U | | 1.1 U | | 1.1 U | |
| TPH as JP-5 | mg/kg | NE | NE | NE | 11.1 U | | 10.9 U | | 11 U | | 11 U | |
| ***EPA 8081*** | | | | | | | | | | | | |
| 4,4'-DDD | mg/kg | 0.0361 | 2.4 | 17 | .0033 U | | .0033 U | | .0033 U | | .0033 U | |
| 4,4'-DDE | mg/kg | 0.145 | 1.7 | 12 | .046 U | | .046 U | | .047 U | | .046 U | |
| 4,4'-DDT | mg/kg | 0.236 | 1.7 | 12 | .0033 U | | .0033 U | | .0033 U | | .0033 U | |
| Aldrin | mg/kg | NE | 0.029 | 0.15 | .017 UJ | | .016 U | | .017 U | | .016 U | |
| alpha-BHC | mg/kg | NE | 0.09 | 0.59 | .0021 U | | .0021 U | | .0021 U | | .0021 U | |
| alpha-Chlordane | mg/kg | 0.00224 | 1.6 | 11 | .017 U | B | .016 U | B | .017 U | B | .016 U | B |
| Aroclor-1016 | mg/kg | NE | 3.9 | 29 | .77 U | | .77 U | | .78 U | | .76 U | |
| Aroclor-1221 | mg/kg | NE | 0.22 | 1 | .77 U | Y | .77 U | Y | .78 U | Y | .76 U | Y |
| Aroclor-1232 | mg/kg | NE | 0.22 | 1 | .77 U | Y | .77 U | Y | .78 U | Y | .76 U | Y |
| Aroclor-1242 | mg/kg | NE | 0.22 | 1 | .77 U | Y | .77 U | Y | .78 U | Y | .76 U | Y |
| Aroclor-1248 | mg/kg | NE | 0.22 | 1 | .77 U | Y | .77 U | Y | .78 U | Y | .76 U | Y |
| Aroclor-1254 | mg/kg | NE | 0.22 | 1 | .77 U | Y | .77 U | Y | .78 U | Y | .76 U | Y |
| Aroclor-1260 | mg/kg | NE | 0.22 | 1 | .77 U | Y | .77 U | Y | .78 U | Y | .76 U | Y |
| Beta-BHC | mg/kg | NE | 0.32 | 2.1 | .037 U | | .036 U | | .037 U | | .036 U | |
| Delta-BHC | mg/kg | NE | NE | NE | .012 U | | .012 U | | .012 U | | .012 U | |
| Dieldrin | mg/kg | 0.0199 | 0.03 | 0.15 | .039 U | B Y | .038 U | B Y | .039 U | B Y | .038 U | B Y |
| Endosulfan I | mg/kg | 0.000179 | 370 | 5300 | .023 U | B | .023 U | B | .023 U | B | .023 U | B |
| Endosulfan II | mg/kg | 0.00222 | 370 | 5300 | .027 U | B | .026 U | B | .027 U | B | .026 U | B |
| Endosulfan sulfate | mg/kg | 0.0031 | NE | NE | .04 U | B | .039 U | B | .04 U | B | .039 U | B |
| Endrin | mg/kg | 0.00222 | 18 | 260 | .04 U | B | .039 U | B | .04 U | B | .039 U | B |
| Endrin aldehyde | mg/kg | 0.00222 | NE | NE | .018 U | B | .017 U | B | .018 U | B | .017 U | B |
| gamma-BHC | mg/kg | NE | 0.44 | 2.9 | .022 U | | .022 U | | .022 U | | .022 U | |
| gamma-Chlordane | mg/kg | 0.0027 | 1.6 | 11 | .017 U | B | .016 U | B | .017 U | B | .016 U | B |
| Heptachlor | mg/kg | NE | 0.11 | 0.55 | .022 U | | .022 U | | .022 U | | .022 U | |
| Heptachlor epoxide | mg/kg | NE | 0.053 | 0.27 | .023 U | | .023 U | | .023 U | | .023 U | |
| Methoxychlor | mg/kg | NE | 310 | 4400 | .063 U | | .062 U | | .063 U | | .062 U | |
| Toxaphene | mg/kg | NE | 0.44 | 2.2 | .77 U | Y | .77 U | Y | .78 U | Y | .76 U | Y |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2350 | 18609-2351 | 18609-2347 | 18609-2348 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBA | TAA307-SBA | TAA307-SBB | TAA307-SBB |
| Date Sampled | | | | | 10/28/99 | 10/28/99 | 10/26/99 | 10/26/99 |
| Depth (feet below ground surface) | | | | | 1.5 | 3.0 | 1.5 | 3.0 |
| | **Unit** | **Background** | **PRG Residential** | **PRG Industrial** | | | | |
| ***EPA 8260*** | | | | | | | | |
| 1,1,1-Trichloroethane | µg/kg | NE | 770000 | 1400000 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| 1,1,2,2-Tetrachloroethane | µg/kg | NE | 380 | 900 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| 1,1,2-Trichloroethane | µg/kg | NE | 840 | 1900 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| 1,1-Dichloroethane | µg/kg | NE | 3300 | 7100 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| 1,1-Dichloroethene | µg/kg | NE | 54 | 120 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| 1,2-Dichloroethane | µg/kg | NE | 350 | 760 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| 1,2-Dichloropropane | µg/kg | NE | 350 | 770 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| 2-Butanone (MEK) | µg/kg | NE | 7300000 | 28000000 | 55 U | 55 U | 55 U | 54 U |
| 2-Chloroethyl vinyl ether | µg/kg | NE | NE | NE | 55 U | 55 U | 55 U | 54 U |
| 2-Hexanone | µg/kg | NE | NE | NE | 55 U | 55 U | 55 U | 54 U |
| 4-Methyl-2-pentanone (MIBK) | µg/kg | NE | 790000 | 2900000 | 55 U | 55 U | 55 U | 54 U |
| Acetone | µg/kg | NE | 1600000 | 6200000 | 55 U | 55 U | 55 U | 54 U |
| Benzene | µg/kg | NE | 650 | 1500 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Bromodichloromethane | µg/kg | NE | 1000 | 2400 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Bromoform | µg/kg | NE | 62000 | 310000 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Bromomethane | µg/kg | NE | 3900 | 13000 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Carbon disulfide | µg/kg | NE | 360000 | 720000 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Carbon tetrachloride | µg/kg | NE | 240 | 530 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Chlorobenzene | µg/kg | NE | 150000 | 540000 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Chloroethane | µg/kg | NE | 3000 | 6500 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Chloroform | µg/kg | NE | 240 | 520 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Chloromethane | µg/kg | NE | 1200 | 2700 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| cis-1,2-Dichloroethene | µg/kg | NE | 43000 | 150000 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| cis-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Dibromochloromethane | µg/kg | NE | 1100 | 2700 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Ethylbenzene | µg/kg | NE | 230000 | 230000 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Methyl tert-butyl ether (MTBE) | µg/kg | NE | 17 | 37 | 11 U | 11 U | 11 U | 11 U |
| Methylene chloride | µg/kg | NE | 8900 | 21000 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Styrene | µg/kg | NE | 1700000 | 1700000 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Tetrachloroethene (PCE) | µg/kg | NE | 5700 | 19000 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Toluene | µg/kg | NE | 520000 | 520000 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2350 | 18609-2351 | 18609-2347 | 18609-2348 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBA | TAA307-SBA | TAA307-SBB | TAA307-SBB |
| Date Sampled | | | | | 10/28/99 | 10/28/99 | 10/26/99 | 10/26/99 |
| Depth (feet below ground surface) | | | | | 1.5 | 3.0 | 1.5 | 3.0 |
| | Unit | Background | PRG Residential | PRG Industrial | | | | |
| trans-1,2-Dichloroethene | µg/kg | NE | 63000 | 210000 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| trans-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Trichloroethene (TCE) | µg/kg | NE | 2800 | 6100 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Vinyl acetate | µg/kg | NE | 430000 | 1400000 | 55 U | 55 U | 55 R | 54 R |
| Vinyl chloride | µg/kg | NE | 150 | 830 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| Xylenes (total) | µg/kg | NE | 210000 | 210000 | 5.5 U | 5.5 U | 5.5 U | 5.4 U |
| ***EPA 8270*** | | | | | | | | |
| 1,2,4-Trichlorobenzene | µg/kg | NE | 650000 | 3000000 | 370 U | 360 U | 370 U | 360 U |
| 1,2-Dichlorobenzene | µg/kg | NE | 370000 | 370000 | 370 U | 360 U | 370 U | 360 U |
| 1,3-Dichlorobenzene | µg/kg | NE | 13000 | 52000 | 370 U | 360 U | 370 U | 360 U |
| 1,4-Dichlorobenzene | µg/kg | NE | 3400 | 8100 | 370 U | 360 U | 370 U | 360 U |
| 2,4,5-Trichlorophenol | µg/kg | NE | 6100000 | 88000000 | 920 U | 910 U | 920 U | 900 U |
| 2,4,6-Trichlorophenol | µg/kg | NE | 44000 | 220000 | 370 U | 360 U | 370 U | 360 U |
| 2,4-Dichlorophenol | µg/kg | NE | 180000 | 2600000 | 370 U | 360 U | 370 U | 360 U |
| 2,4-Dimethylphenol | µg/kg | NE | 1200000 | 18000000 | 370 U | 360 U | 370 U | 360 U |
| 2,4-Dinitrophenol | µg/kg | NE | 120000 | 1800000 | 920 U | 910 U | 920 U | 900 U |
| 2,4-Dinitrotoluene | µg/kg | NE | 120000 | 1800000 | 370 U | 360 U | 370 U | 360 U |
| 2,6-Dinitrotoluene | µg/kg | NE | 61000 | 880000 | 370 U | 360 U | 370 U | 360 U |
| 2-Chloronaphthalene | µg/kg | NE | 4900000 | 27000000 | 370 U | 360 U | 370 U | 360 U |
| 2-Chlorophenol | µg/kg | NE | 63000 | 240000 | 370 U | 360 U | 370 U | 360 U |
| 2-Methyl-4,6-dinitrophenol | µg/kg | NE | NE | NE | 920 U | 910 U | 920 U | 900 U |
| 2-Methylnaphthalene | µg/kg | NE | NE | NE | 370 U | 360 U | 370 U | 360 U |
| 2-Methylphenol | µg/kg | NE | 3100000 | 44000000 | 370 U | 360 U | 370 U | 360 U |
| 2-Nitroaniline | µg/kg | NE | 3500 | 50000 | 920 U | 910 U | 920 U | 900 U |
| 2-Nitrophenol | µg/kg | NE | NE | NE | 370 U | 360 U | 370 U | 360 U |
| 3,3'-Dichlorobenzidine | µg/kg | NE | 1100 | 5500 | 370 U | 360 U | 370 U | 360 U |
| 3-Methyl-4-chlorophenol | µg/kg | NE | NE | NE | 370 U | 360 U | 370 U | 360 U |
| 3-Nitroaniline | µg/kg | NE | NE | NE | 920 U | 910 U | 920 U | 900 U |
| 4-Bromophenyl phenyl ether | µg/kg | NE | NE | NE | 370 U | 360 U | 370 U | 360 U |
| 4-Chloroaniline | µg/kg | NE | 240000 | 3500000 | 370 U | 360 U | 370 U | 360 U |
| 4-Chlorophenyl phenyl ether | µg/kg | NE | NE | NE | 370 U | 360 U | 370 U | 360 U |
| 4-Methylphenol | µg/kg | NE | 310000 | 4400000 | 370 U | 360 U | 370 U | 360 U |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2350 | | 18609-2351 | | 18609-2347 | | 18609-2348 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBA | | TAA307-SBA | | TAA307-SBB | | TAA307-SBB | |
| Date Sampled | | | | | 10/28/99 | | 10/28/99 | | 10/26/99 | | 10/26/99 | |
| Depth (feet below ground surface) | | | | | 1.5 | | 3.0 | | 1.5 | | 3.0 | |
| | Unit | Background | PRG Residential | PRG Industrial | | | | | | | | |
| 4-Nitroaniline | µg/kg | NE | NE | NE | 920 U | | 910 U | | 920 U | | 900 U | |
| 4-Nitrophenol | µg/kg | NE | 490000 | 7000000 | 920 U | | 910 U | | 920 U | | 900 U | |
| Acenaphthene | µg/kg | NE | 3700000 | 38000000 | 370 U | | 360 U | | 370 U | | 360 U | |
| Acenaphthylene | µg/kg | NE | NE | NE | 370 U | | 360 U | | 370 U | | 360 U | |
| Anthracene | µg/kg | NE | 22000000 | 100000000 | 370 U | | 360 U | | 370 U | | 360 U | |
| Benzo[a]anthracene | µg/kg | 22 | 620 | 2900 | 370 U | B | 360 U | B | 370 U | B | 360 U | B |
| Benzo[a]pyrene | µg/kg | 27 | 62 | 290 | 37 U | B | 36 U | B | 37 U | B | 36 U | B |
| Benzo[b]fluoranthene | µg/kg | 28 | 620 | 2900 | 370 U | B | 360 U | B | 370 U | B | 360 U | B |
| Benzo[ghi]perylene | µg/kg | NE | NE | NE | 370 U | | 360 U | | 370 U | | 360 U | |
| Benzo[k]fluoranthene | µg/kg | 24 | 6200 | 29000 | 370 U | B | 360 U | B | 370 U | B | 360 U | B |
| Bis (2-chloroethoxy)methane | µg/kg | NE | NE | NE | 370 U | | 360 U | | 370 U | | 360 U | |
| Bis (2-chloroethyl)ether | µg/kg | NE | 210 | 620 | 37 U | | 36 U | | 37 U | | 36 U | |
| Bis (2-chloroisopropyl)ether | µg/kg | NE | 2900 | 8100 | 370 U | | 360 U | | 370 U | | 360 U | |
| Bis (2-ethylhexyl)phthalate | µg/kg | NE | 35000 | 180000 | 370 U | | 360 U | | 370 U | | 360 U | |
| Butyl benzyl phthalate | µg/kg | NE | 12000000 | 100000000 | 370 U | | 360 U | | 370 U | | 360 U | |
| Chrysene | µg/kg | 31 | 6100 | 290000 | 370 U | B | 360 U | B | 370 U | B | 360 U | B |
| Di-n-butyl phthalate | µg/kg | NE | 6100000 | 88000000 | 370 U | | 360 U | | 370 U | | 360 U | |
| Di-n-octyl phthalate | µg/kg | NE | 1200000 | 10000000 | 370 U | | 360 U | | 370 U | | 360 U | |
| Dibenz[a,h]anthracene | µg/kg | 8 | 62 | 290 | 37 U | B | 36 U | B | 37 U | B | 36 U | B |
| Dibenzofuran | µg/kg | NE | 290000 | 5100000 | 370 U | | 360 U | | 370 U | | 360 U | |
| Diethyl phthalate | µg/kg | NE | 49000000 | 100000000 | 370 U | | 360 U | | 370 U | | 360 U | |
| Dimethyl phthalate | µg/kg | NE | 100000000 | 100000000 | 370 U | | 360 U | | 370 U | | 360 U | |
| Fluoranthene | µg/kg | 45 | 2300000 | 30000000 | 370 U | B | 360 U | B | 370 U | B | 360 U | B |
| Fluorene | µg/kg | NE | 2600000 | 33000000 | 370 U | | 360 U | | 370 U | | 360 U | |
| Hexachlorobenzene | µg/kg | NE | 300 | 1500 | 37 U | | 36 U | | 37 U | | 36 U | |
| Hexachlorobutadiene | µg/kg | NE | 6200 | 32000 | 370 U | | 360 U | | 370 U | | 360 U | |
| Hexachlorocyclopentadiene | µg/kg | NE | 420000 | 5900000 | 370 U | | 360 U | | 370 U | | 360 U | |
| Hexachloroethane | µg/kg | NE | 35000 | 180000 | 370 U | | 360 U | | 370 U | | 360 U | |
| Indeno[1,2,3-cd]pyrene | µg/kg | 21 | 620 | 2900 | 37 U | B | 36 U | B | 37 U | B | 36 U | B |
| N-Nitrosodi-n-propylamine | µg/kg | NE | 69 | 350 | 37 U | | 36 U | | 37 U | | 36 U | |
| N-Nitrosodiphenylamine | µg/kg | NE | 99000 | 500000 | 370 U | | 360 U | | 370 U | | 360 U | |
| Naphthalene | µg/kg | NE | 56000 | 190000 | 370 U | | 360 U | | 370 U | | 360 U | |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2350 | 18609-2351 | 18609-2347 | 18609-2348 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBA | TAA307-SBA | TAA307-SBB | TAA307-SBB |
| Date Sampled | | | | | 10/28/99 | 10/28/99 | 10/26/99 | 10/26/99 |
| Depth (feet below ground surface) | | | | | 1.5 | 3.0 | 1.5 | 3.0 |
| | Unit | Background | PRG Residential | PRG Industrial | | | | |
| Nitrobenzene | µg/kg | NE | 20000 | 110000 | 370 U | 360 U | 370 U | 360 U |
| Pentachlorophenol | µg/kg | NE | 3000 | 11000 | 180 U | 180 U | 180 U | 180 U |
| Phenanthrene | µg/kg | 18 | NE | NE | 370 U B | 360 U B | 370 U B | 360 U B |
| Phenol | µg/kg | NE | 37000000 | 100000000 | 370 U | 360 U | 370 U | 360 U |
| Pyrene | µg/kg | 41 | 2300000 | 54000000 | 370 U B | 360 U B | 370 U B | 360 U B |
| *EPA 6010* | | | | | | | | |
| Aluminum | mg/kg | 14800 | 76000 | 100000 | 16300 B | 12000 | 16400 B | 14200 |
| Antimony | mg/kg | 3.06 | 31 | 820 | 11.1 UJ B | 10.9 UJ B | 11.1 U B | 10.9 U B |
| Arsenic | mg/kg | 6.86 | 0.39 | 2.7 | 3.15 Y X | 2.99 Y X | 3.37 Y X | 3.3 Y X |
| Barium | mg/kg | 173 | 5400 | 100000 | 165 | 127 | 171 | 155 |
| Beryllium | mg/kg | 0.669 | 150 | 2200 | .597 | .446 | .529 | .46 |
| Cadmium | mg/kg | 2.35 | 9.0 | 810 | 1.11 U | 1.09 U | 1.11 U | 1.09 U |
| Calcium | mg/kg | 46000 | NE | NE | 4300 J | 3230 J | 4280 | 3380 |
| Chromium | mg/kg | 26.9 | 210 | 450 | 16 | 10.9 U | 14.9 | 13.5 |
| Cobalt | mg/kg | 6.98 | 4700 | 100000 | 6.96 | 4.25 | 5.16 | 5.02 |
| Copper | mg/kg | 10.5 | 2900 | 76000 | 10.1 | 7.4 | 32.9 B | 49.1 B |
| Iron | mg/kg | 18400 | 23000 | 100000 | 18300 J | 14000 J | 16800 | 15700 |
| Lead | mg/kg | 15.1 | 400 | 750 | 4.12 | 6.3 | 3.65 | 3.3 |
| Magnesium | mg/kg | 8370 | NE | NE | 6830 J | 5140 J | 6930 | 6190 |
| Manganese | mg/kg | 291 | 1800 | 32000 | 276 J | 237 J | 278 | 234 |
| Molybdenum | mg/kg | NE | 390 | 10000 | 2.35 U | 2.19 U | 2.22 U | 2.18 U |
| Nickel | mg/kg | 15.3 | 150 | 41000 | 9.96 | 5.5 | 8.41 | 6.4 |
| Potassium | mg/kg | 4890 | NE | NE | 4530 | 3940 | 5500 B | 4330 |
| Selenium | mg/kg | 0.32 | 390 | 10000 | 1.11 U B | 1.09 U B | 1.11 U B | 1.09 U B |
| Silver | mg/kg | 0.539 | 390 | 10000 | 2.22 U B | 2.18 U B | 2.22 U B | 2.18 U B |
| Sodium | mg/kg | 405 | NE | NE | 561 B | 546 U B | 554 U B | 569 B |
| Thallium | mg/kg | 0.42 | 5.2 | 130 | 1.11 U B | 1.09 U B | 1.11 U B | 1.09 U B |
| Vanadium | mg/kg | 71.8 | 550 | 14000 | 43.3 | 30.7 | 36.9 | 35.9 |
| Zinc | mg/kg | 77.9 | 23000 | 100000 | 54.6 | 43.1 | 62.6 | 66.6 |
| *EPA 7471A* | | | | | | | | |
| Mercury | mg/kg | 0.22 | 23 | 610 | .111 U | .109 U | .111 U | .109 U |

## Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2350 | 18609-2351 | 18609-2347 | 18609-2348 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBA | TAA307-SBA | TAA307-SBB | TAA307-SBB |
| Date Sampled | | | | | 10/28/99 | 10/28/99 | 10/26/99 | 10/26/99 |
| Depth (feet below ground surface) | | | | | 1.5 | 3.0 | 1.5 | 3.0 |
| | Unit | Background | PRG Residential | PRG Industrial | | | | |
| *EPA 150.1* | | | | | | | | |
| pH | pH units | NE | NE | NE | 8.05 | 7.95 | 7.71 | 8.16 |
| *EPA 9012* | | | | | | | | |
| Cyanide | mg/kg | NE | 1200 | 18000 | .553 U | .546 U | .554 U | .545 U |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2352 | | 18609-2353 | | 18609-2354 | | 18609-2355 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBC | | TAA307-SBC | | TAA307-SBD | | TAA307-SBD | |
| Date Sampled | | | | | 10/28/99 | | 10/28/99 | | 10/28/99 | | 10/28/99 | |
| Depth (feet below ground surface) | | | | | 1.5 | | 3.0 | | 2.0 | | 3.0 | |
| | Unit | Background | PRG Residential | PRG Industrial | | | | | | | | |
| *CA LUFT 8015M* | | | | | | | | | | | | |
| TPH as Diesel | mg/kg | NE | NE | NE | 11.2 U | | 11.2 U | | 10.9 U | | 10.9 U | |
| TPH as Gasoline | mg/kg | NE | NE | NE | 1.1 U | | 1.1 U | | 1.1 U | | 1.1 U | |
| TPH as JP-5 | mg/kg | NE | NE | NE | 11.2 U | | 11.2 U | | 10.9 U | | 10.9 U | |
| *EPA 8081* | | | | | | | | | | | | |
| 4,4'-DDD | mg/kg | 0.0361 | 2.4 | 17 | .0034 U | | .0034 U | | .0033 U | | .0033 U | |
| 4,4'-DDE | mg/kg | 0.145 | 1.7 | 12 | .016 J | | .047 U | | .0049 J | | .046 U | |
| 4,4'-DDT | mg/kg | 0.236 | 1.7 | 12 | .011 | | .0034 U | | .0061 | | .0033 U | |
| Aldrin | mg/kg | NE | 0.029 | 0.15 | .017 U | | .017 U | | .016 U | | .016 U | |
| alpha-BHC | mg/kg | NE | 0.09 | 0.59 | .0021 U | | .0021 U | | .0021 U | | .00091 J | |
| alpha-Chlordane | mg/kg | 0.00224 | 1.6 | 11 | .017 U | B | .017 U | B | .016 U | B | .016 U | B |
| Aroclor-1016 | mg/kg | NE | 3.9 | 29 | .78 U | | .78 U | | .76 U | | .76 U | |
| Aroclor-1221 | mg/kg | NE | 0.22 | 1 | .78 U | Y | .78 U | Y | .76 U | Y | .76 U | Y |
| Aroclor-1232 | mg/kg | NE | 0.22 | 1 | .78 U | Y | .78 U | Y | .76 U | Y | .76 U | Y |
| Aroclor-1242 | mg/kg | NE | 0.22 | 1 | .78 U | Y | .78 U | Y | .76 U | Y | .76 U | Y |
| Aroclor-1248 | mg/kg | NE | 0.22 | 1 | .78 U | Y | .78 U | Y | .76 U | Y | .76 U | Y |
| Aroclor-1254 | mg/kg | NE | 0.22 | 1 | .78 U | Y | .78 U | Y | .76 U | Y | .76 U | Y |
| Aroclor-1260 | mg/kg | NE | 0.22 | 1 | .78 U | Y | .78 U | Y | .76 U | Y | .76 U | Y |
| Beta-BHC | mg/kg | NE | 0.32 | 2.1 | .037 U | | .037 U | | .036 U | | .036 U | |
| Delta-BHC | mg/kg | NE | NE | NE | .012 U | | .012 U | | .012 U | | .012 U | |
| Dieldrin | mg/kg | 0.0199 | 0.03 | 0.15 | .002 J | | .039 U | B Y | .038 U | B Y | .038 U | B Y |
| Endosulfan I | mg/kg | 0.000179 | 370 | 5300 | .024 U | B | .023 U | B | .023 U | B | .023 U | B |
| Endosulfan II | mg/kg | 0.00222 | 370 | 5300 | .027 U | B | .027 U | B | .026 U | B | .026 U | B |
| Endosulfan sulfate | mg/kg | 0.0031 | NE | NE | .04 U | B | .04 U | B | .039 U | B | .039 U | B |
| Endrin | mg/kg | 0.00222 | 18 | 260 | .04 U | B | .04 U | B | .039 U | B | .039 U | B |
| Endrin aldehyde | mg/kg | 0.00222 | NE | NE | .0021 J | | .018 U | B | .017 U | B | .017 U | B |
| gamma-BHC | mg/kg | NE | 0.44 | 2.9 | .022 U | | .022 U | | .022 U | | .022 U | |
| gamma-Chlordane | mg/kg | 0.0027 | 1.6 | 11 | .017 U | B | .017 U | B | .016 U | B | .016 U | B |
| Heptachlor | mg/kg | NE | 0.11 | 0.55 | .022 U | | .022 U | | .022 U | | .022 U | |
| Heptachlor epoxide | mg/kg | NE | 0.053 | 0.27 | .024 U | | .023 U | | .023 U | | .023 U | |
| Methoxychlor | mg/kg | NE | 310 | 4400 | .064 U | | .064 U | | .062 U | | .062 U | |
| Toxaphene | mg/kg | NE | 0.44 | 2.2 | .78 U | Y | .78 U | Y | .76 U | Y | .76 U | Y |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2352 | 18609-2353 | 18609-2354 | 18609-2355 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBC | TAA307-SBC | TAA307-SBD | TAA307-SBD |
| Date Sampled | | | | | 10/28/99 | 10/28/99 | 10/28/99 | 10/28/99 |
| Depth (feet below ground surface) | | | | | 1.5 | 3.0 | 2.0 | 3.0 |
| | **Unit** | **Background** | **PRG Residential** | **PRG Industrial** | | | | |
| ***EPA 8260*** | | | | | | | | |
| 1,1,1-Trichloroethane | µg/kg | NE | 770000 | 1400000 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| 1,1,2,2-Tetrachloroethane | µg/kg | NE | 380 | 900 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| 1,1,2-Trichloroethane | µg/kg | NE | 840 | 1900 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| 1,1-Dichloroethane | µg/kg | NE | 3300 | 7100 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| 1,1-Dichloroethene | µg/kg | NE | 54 | 120 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| 1,2-Dichloroethane | µg/kg | NE | 350 | 760 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| 1,2-Dichloropropane | µg/kg | NE | 350 | 770 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| 2-Butanone (MEK) | µg/kg | NE | 7300000 | 28000000 | 56 U | 56 U | 54 U | 54 U |
| 2-Chloroethyl vinyl ether | µg/kg | NE | NE | NE | 56 U | 56 U | 54 U | 54 U |
| 2-Hexanone | µg/kg | NE | NE | NE | 56 U | 56 U | 54 U | 54 U |
| 4-Methyl-2-pentanone (MIBK) | µg/kg | NE | 790000 | 2900000 | 56 U | 56 U | 54 U | 54 U |
| Acetone | µg/kg | NE | 1600000 | 6200000 | 56 U | 56 U | 54 U | 54 U |
| Benzene | µg/kg | NE | 650 | 1500 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Bromodichloromethane | µg/kg | NE | 1000 | 2400 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Bromoform | µg/kg | NE | 62000 | 310000 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Bromomethane | µg/kg | NE | 3900 | 13000 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Carbon disulfide | µg/kg | NE | 360000 | 720000 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Carbon tetrachloride | µg/kg | NE | 240 | 530 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Chlorobenzene | µg/kg | NE | 150000 | 540000 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Chloroethane | µg/kg | NE | 3000 | 6500 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Chloroform | µg/kg | NE | 240 | 520 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Chloromethane | µg/kg | NE | 1200 | 2700 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| cis-1,2-Dichloroethene | µg/kg | NE | 43000 | 150000 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| cis-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Dibromochloromethane | µg/kg | NE | 1100 | 2700 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Ethylbenzene | µg/kg | NE | 230000 | 230000 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Methyl tert-butyl ether (MTBE) | µg/kg | NE | 17 | 37 | 11 U | 11 U | 11 U | 11 U |
| Methylene chloride | µg/kg | NE | 8900 | 21000 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Styrene | µg/kg | NE | 1700000 | 1700000 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Tetrachloroethene (PCE) | µg/kg | NE | 5700 | 19000 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Toluene | µg/kg | NE | 520000 | 520000 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2352 | 18609-2353 | 18609-2354 | 18609-2355 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBC | TAA307-SBC | TAA307-SBD | TAA307-SBD |
| Date Sampled | | | | | 10/28/99 | 10/28/99 | 10/28/99 | 10/28/99 |
| Depth (feet below ground surface) | | | | | 1.5 | 3.0 | 2.0 | 3.0 |
| | **Unit** | **Background** | **PRG Residential** | **PRG Industrial** | | | | |
| trans-1,2-Dichloroethene | µg/kg | NE | 63000 | 210000 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| trans-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Trichloroethene (TCE) | µg/kg | NE | 2800 | 6100 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Vinyl acetate | µg/kg | NE | 430000 | 1400000 | 56 U | 56 U | 54 U | 54 U |
| Vinyl chloride | µg/kg | NE | 150 | 830 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| Xylenes (total) | µg/kg | NE | 210000 | 210000 | 5.6 U | 5.6 U | 5.4 U | 5.4 U |
| ***EPA 8270*** | | | | | | | | |
| 1,2,4-Trichlorobenzene | µg/kg | NE | 650000 | 3000000 | 370 U | 370 U | 360 U | 360 U |
| 1,2-Dichlorobenzene | µg/kg | NE | 370000 | 370000 | 370 U | 370 U | 360 U | 360 U |
| 1,3-Dichlorobenzene | µg/kg | NE | 13000 | 52000 | 370 U | 370 U | 360 U | 360 U |
| 1,4-Dichlorobenzene | µg/kg | NE | 3400 | 8100 | 370 U | 370 U | 360 U | 360 U |
| 2,4,5-Trichlorophenol | µg/kg | NE | 6100000 | 88000000 | 930 U | 930 U | 900 U | 900 U |
| 2,4,6-Trichlorophenol | µg/kg | NE | 44000 | 220000 | 370 U | 370 U | 360 U | 360 U |
| 2,4-Dichlorophenol | µg/kg | NE | 180000 | 2600000 | 370 U | 370 U | 360 U | 360 U |
| 2,4-Dimethylphenol | µg/kg | NE | 1200000 | 18000000 | 370 U | 370 U | 360 U | 360 U |
| 2,4-Dinitrophenol | µg/kg | NE | 120000 | 1800000 | 930 U | 930 U | 900 U | 900 U |
| 2,4-Dinitrotoluene | µg/kg | NE | 120000 | 1800000 | 370 U | 370 U | 360 U | 360 U |
| 2,6-Dinitrotoluene | µg/kg | NE | 61000 | 880000 | 370 U | 370 U | 360 U | 360 U |
| 2-Chloronaphthalene | µg/kg | NE | 4900000 | 27000000 | 370 U | 370 U | 360 U | 360 U |
| 2-Chlorophenol | µg/kg | NE | 63000 | 240000 | 370 U | 370 U | 360 U | 360 U |
| 2-Methyl-4,6-dinitrophenol | µg/kg | NE | NE | NE | 930 U | 930 U | 900 U | 900 U |
| 2-Methylnaphthalene | µg/kg | NE | NE | NE | 370 U | 370 U | 360 U | 360 U |
| 2-Methylphenol | µg/kg | NE | 3100000 | 44000000 | 370 U | 370 U | 360 U | 360 U |
| 2-Nitroaniline | µg/kg | NE | 3500 | 50000 | 930 U | 930 U | 900 U | 900 U |
| 2-Nitrophenol | µg/kg | NE | NE | NE | 370 U | 370 U | 360 U | 360 U |
| 3,3'-Dichlorobenzidine | µg/kg | NE | 1100 | 5500 | 370 U | 370 U | 360 U | 360 U |
| 3-Methyl-4-chlorophenol | µg/kg | NE | NE | NE | 370 U | 370 U | 360 U | 360 U |
| 3-Nitroaniline | µg/kg | NE | NE | NE | 930 U | 930 U | 900 U | 900 U |
| 4-Bromophenyl phenyl ether | µg/kg | NE | NE | NE | 370 U | 370 U | 360 U | 360 U |
| 4-Chloroaniline | µg/kg | NE | 240000 | 3500000 | 370 U | 370 U | 360 U | 360 U |
| 4-Chlorophenyl phenyl ether | µg/kg | NE | NE | NE | 370 U | 370 U | 360 U | 360 U |
| 4-Methylphenol | µg/kg | NE | 310000 | 4400000 | 370 U | 370 U | 360 U | 360 U |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2352 | | 18609-2353 | | 18609-2354 | | 18609-2355 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBC | | TAA307-SBC | | TAA307-SBD | | TAA307-SBD | |
| Date Sampled | | | | | 10/28/99 | | 10/28/99 | | 10/28/99 | | 10/28/99 | |
| Depth (feet below ground surface) | | | | | 1.5 | | 3.0 | | 2.0 | | 3.0 | |
| | Unit | Background | PRG Residential | PRG Industrial | | | | | | | | |
| 4-Nitroaniline | µg/kg | NE | NE | NE | 930 U | | 930 U | | 900 U | | 900 U | |
| 4-Nitrophenol | µg/kg | NE | 490000 | 7000000 | 930 U | | 930 U | | 900 U | | 900 U | |
| Acenaphthene | µg/kg | NE | 3700000 | 38000000 | 370 U | | 370 U | | 360 U | | 360 U | |
| Acenaphthylene | µg/kg | NE | NE | NE | 370 U | | 370 U | | 360 U | | 360 U | |
| Anthracene | µg/kg | NE | 22000000 | 100000000 | 370 U | | 370 U | | 360 U | | 360 U | |
| Benzo[a]anthracene | µg/kg | 22 | 620 | 2900 | 370 U | B | 370 U | B | 360 U | B | 360 U | B |
| Benzo[a]pyrene | µg/kg | 27 | 62 | 290 | 37 U | B | 37 U | B | 36 U | B | 36 U | B |
| Benzo[b]fluoranthene | µg/kg | 28 | 620 | 2900 | 370 U | B | 370 U | B | 360 U | B | 360 U | B |
| Benzo[ghi]perylene | µg/kg | NE | NE | NE | 370 U | | 370 U | | 360 U | | 360 U | |
| Benzo[k]fluoranthene | µg/kg | 24 | 6200 | 29000 | 370 U | B | 370 U | B | 360 U | B | 360 U | B |
| Bis (2-chloroethoxy)methane | µg/kg | NE | NE | NE | 370 U | | 370 U | | 360 U | | 360 U | |
| Bis (2-chloroethyl)ether | µg/kg | NE | 210 | 620 | 37 U | | 37 U | | 36 U | | 36 U | |
| Bis (2-chloroisopropyl)ether | µg/kg | NE | 2900 | 8100 | 370 U | | 370 U | | 360 U | | 360 U | |
| Bis (2-ethylhexyl)phthalate | µg/kg | NE | 35000 | 180000 | 370 U | | 370 U | | 360 U | | 360 U | |
| Butyl benzyl phthalate | µg/kg | NE | 12000000 | 100000000 | 370 U | | 370 U | | 360 U | | 360 U | |
| Chrysene | µg/kg | 31 | 6100 | 290000 | 370 U | B | 370 U | B | 360 U | B | 360 U | B |
| Di-n-butyl phthalate | µg/kg | NE | 6100000 | 88000000 | 370 U | | 370 U | | 360 U | | 360 U | |
| Di-n-octyl phthalate | µg/kg | NE | 1200000 | 10000000 | 370 U | | 370 U | | 360 U | | 360 U | |
| Dibenz[a,h]anthracene | µg/kg | 8 | 62 | 290 | 37 U | B | 37 U | B | 36 U | B | 36 U | B |
| Dibenzofuran | µg/kg | NE | 290000 | 5100000 | 370 U | | 370 U | | 360 U | | 360 U | |
| Diethyl phthalate | µg/kg | NE | 49000000 | 100000000 | 370 U | | 370 U | | 360 U | | 360 U | |
| Dimethyl phthalate | µg/kg | NE | 100000000 | 100000000 | 370 U | | 370 U | | 360 U | | 360 U | |
| Fluoranthene | µg/kg | 45 | 2300000 | 30000000 | 370 U | B | 370 U | B | 360 U | B | 360 U | B |
| Fluorene | µg/kg | NE | 2600000 | 33000000 | 370 U | | 370 U | | 360 U | | 360 U | |
| Hexachlorobenzene | µg/kg | NE | 300 | 1500 | 37 U | | 37 U | | 36 U | | 36 U | |
| Hexachlorobutadiene | µg/kg | NE | 6200 | 32000 | 370 U | | 370 U | | 360 U | | 360 U | |
| Hexachlorocyclopentadiene | µg/kg | NE | 420000 | 5900000 | 370 U | | 370 U | | 360 U | | 360 U | |
| Hexachloroethane | µg/kg | NE | 35000 | 180000 | 370 U | | 370 U | | 360 U | | 360 U | |
| Indeno[1,2,3-cd]pyrene | µg/kg | 21 | 620 | 2900 | 37 U | B | 37 U | B | 36 U | B | 36 U | B |
| N-Nitrosodi-n-propylamine | µg/kg | NE | 69 | 350 | 37 U | | 37 U | | 36 U | | 36 U | |
| N-Nitrosodiphenylamine | µg/kg | NE | 99000 | 500000 | 370 U | | 370 U | | 360 U | | 360 U | |
| Naphthalene | µg/kg | NE | 56000 | 190000 | 370 U | | 370 U | | 360 U | | 360 U | |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2352 | 18609-2353 | 18609-2354 | 18609-2355 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBC | TAA307-SBC | TAA307-SBD | TAA307-SBD |
| Date Sampled | | | | | 10/28/99 | 10/28/99 | 10/28/99 | 10/28/99 |
| Depth (feet below ground surface) | | | | | 1.5 | 3.0 | 2.0 | 3.0 |
| | **Unit** | **Background** | **PRG Residential** | **PRG Industrial** | | | | |
| Nitrobenzene | µg/kg | NE | 20000 | 110000 | 370 U | 370 U | 360 U | 360 U |
| Pentachlorophenol | µg/kg | NE | 3000 | 11000 | 180 U | 180 U | 180 U | 180 U |
| Phenanthrene | µg/kg | 18 | NE | NE | 370 U B | 370 U B | 360 U B | 360 U B |
| Phenol | µg/kg | NE | 37000000 | 100000000 | 370 U | 370 U | 360 U | 360 U |
| Pyrene | µg/kg | 41 | 2300000 | 54000000 | 370 U B | 370 U B | 360 U B | 360 U B |
| ***EPA 6010*** | | | | | | | | |
| Aluminum | mg/kg | 14800 | 76000 | 100000 | 15000 B | 15900 B | 14300 | 16800 B |
| Antimony | mg/kg | 3.06 | 31 | 820 | 11.2 UJ B | 11.2 UJ B | 10.9 UJ B | 10.9 UJ B |
| Arsenic | mg/kg | 6.86 | 0.39 | 2.7 | 3.01 Y X | 3.18 Y X | 3.32 Y X | 2.91 Y X |
| Barium | mg/kg | 173 | 5400 | 100000 | 150 | 182 B | 152 | 216 B |
| Beryllium | mg/kg | 0.669 | 150 | 2200 | .546 | .56 | .524 | .592 |
| Cadmium | mg/kg | 2.35 | 9.0 | 810 | 1.12 U | 1.12 U | 1.09 U | 1.09 U |
| Calcium | mg/kg | 46000 | NE | NE | 4160 | 4280 J | 4110 J | 4060 J |
| Chromium | mg/kg | 26.9 | 210 | 450 | 14.3 | 15.6 | 13.3 | 16.3 |
| Cobalt | mg/kg | 6.98 | 4700 | 100000 | 5.76 | 6.86 | 5.84 | 6.28 |
| Copper | mg/kg | 10.5 | 2900 | 76000 | 9.64 | 9.18 | 8.71 | 9.09 |
| Iron | mg/kg | 18400 | 23000 | 100000 | 16600 J | 18700 J B | 16200 J | 19800 J B |
| Lead | mg/kg | 15.1 | 400 | 750 | 12.8 | 3.92 | 6.41 | 3.44 |
| Magnesium | mg/kg | 8370 | NE | NE | 6160 J | 7190 J | 5960 J | 7740 |
| Manganese | mg/kg | 291 | 1800 | 32000 | 261 J | 279 J | 252 J | 295 J B |
| Molybdenum | mg/kg | NE | 390 | 10000 | 2.24 U | 2.24 U | 2.17 U | 2.18 J |
| Nickel | mg/kg | 15.3 | 150 | 41000 | 8.57 | 9.71 | 7.91 | 9.26 |
| Potassium | mg/kg | 4890 | NE | NE | 4550 | 4420 | 4280 | 4570 |
| Selenium | mg/kg | 0.32 | 390 | 10000 | 1.12 U B | 1.12 U B | 1.09 U B | 1.09 U B |
| Silver | mg/kg | 0.539 | 390 | 10000 | 2.24 U B | 2.24 U B | 2.18 U B | 2.18 U B |
| Sodium | mg/kg | 405 | NE | NE | 561 U B | 559 U B | 543 U B | 604 B |
| Thallium | mg/kg | 0.42 | 5.2 | 130 | 1.12 U B | 1.12 U B | 1.09 U B | 1.09 U B |
| Vanadium | mg/kg | 71.8 | 550 | 14000 | 39.1 | 44.6 | 38.3 | 46.7 |
| Zinc | mg/kg | 77.9 | 23000 | 100000 | 55.8 | 54.8 | 49.6 | 57.8 |
| ***EPA 7471A*** | | | | | | | | |
| Mercury | mg/kg | 0.22 | 23 | 610 | .112 U | .112 U | .109 U | .109 U |

## Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2352 | 18609-2353 | 18609-2354 | 18609-2355 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBC | TAA307-SBC | TAA307-SBD | TAA307-SBD |
| Date Sampled | | | | | 10/28/99 | 10/28/99 | 10/28/99 | 10/28/99 |
| Depth (feet below ground surface) | | | | | 1.5 | 3.0 | 2.0 | 3.0 |
| | **Unit** | **Background** | **PRG Residential** | **PRG Industrial** | | | | |
| ***EPA 150.1*** | | | | | | | | |
| pH | pH units | NE | NE | NE | 7.90 | 7.41 | 7.90 | 8.41 |
| ***EPA 9012*** | | | | | | | | |
| Cyanide | mg/kg | NE | 1200 | 18000 | .561 U | .559 U | .543 U | .545 U |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2356 | | 18609-2357 | | 18609-2358 | | 18609-2359 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBE | | TAA307-SBE | | TAA307-SBF | | TAA307-SBF | |
| Date Sampled | | | | | 10/28/99 | | 10/28/99 | | 10/28/99 | | 10/28/99 | |
| Depth (feet below ground surface) | | | | | 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 | 11.3 U | | 11.1 U | | 11.3 U | | 11.3 U | |
| TPH as Gasoline | mg/kg | NE | NE | NE | 1.1 U | | 1.1 U | | 1.1 U | | 1.1 U | |
| TPH as JP-5 | mg/kg | NE | NE | NE | 11.3 U | | 11.1 U | | 11.3 U | | 11.3 U | |
| *EPA 8081* | | | | | | | | | | | | |
| 4,4'-DDD | mg/kg | 0.0361 | 2.4 | 17 | .0034 U | | .0033 U | | .0034 U | | .0034 U | |
| 4,4'-DDE | mg/kg | 0.145 | 1.7 | 12 | .0015 J | | .047 U | | .048 U | | .01 J | |
| 4,4'-DDT | mg/kg | 0.236 | 1.7 | 12 | .0044 | | .0033 U | | .0034 U | | .016 | |
| Aldrin | mg/kg | NE | 0.029 | 0.15 | .017 U | | .017 U | | .017 U | | .017 U | |
| alpha-BHC | mg/kg | NE | 0.09 | 0.59 | .0022 U | | .0021 U | | .0022 U | | .0021 U | |
| alpha-Chlordane | mg/kg | 0.00224 | 1.6 | 11 | .017 U | B | .017 U | B | .017 U | B | .017 U | B |
| Aroclor-1016 | mg/kg | NE | 3.9 | 29 | .79 U | | .78 U | | .79 U | | .79 U | |
| Aroclor-1221 | mg/kg | NE | 0.22 | 1 | .79 U | Y | .78 U | Y | .79 U | Y | .79 U | Y |
| Aroclor-1232 | mg/kg | NE | 0.22 | 1 | .79 U | Y | .78 U | Y | .79 U | Y | .79 U | Y |
| Aroclor-1242 | mg/kg | NE | 0.22 | 1 | .79 U | Y | .78 U | Y | .79 U | Y | .79 U | Y |
| Aroclor-1248 | mg/kg | NE | 0.22 | 1 | .79 U | Y | .78 U | Y | .79 U | Y | .79 U | Y |
| Aroclor-1254 | mg/kg | NE | 0.22 | 1 | .79 U | Y | .78 U | Y | .79 U | Y | .79 U | Y |
| Aroclor-1260 | mg/kg | NE | 0.22 | 1 | .79 U | Y | .78 U | Y | .79 U | Y | .79 U | Y |
| Beta-BHC | mg/kg | NE | 0.32 | 2.1 | .037 U | | .037 U | | .037 U | | .037 U | |
| Delta-BHC | mg/kg | NE | NE | NE | .012 U | | .012 U | | .012 U | | .012 U | |
| Dieldrin | mg/kg | 0.0199 | 0.03 | 0.15 | .04 U | B Y | .039 U | B Y | .04 U | B Y | .0016 J | |
| Endosulfan I | mg/kg | 0.000179 | 370 | 5300 | .024 U | B | .023 U | B | .024 U | B | .024 U | B |
| Endosulfan II | mg/kg | 0.00222 | 370 | 5300 | .027 U | B | .027 U | B | .027 U | B | .027 U | B |
| Endosulfan sulfate | mg/kg | 0.0031 | NE | NE | .041 U | B | .04 U | B | .041 U | B | .041 U | B |
| Endrin | mg/kg | 0.00222 | 18 | 260 | .041 U | B | .04 U | B | .041 U | B | .041 U | B |
| Endrin aldehyde | mg/kg | 0.00222 | NE | NE | .018 U | B | .018 U | B | .018 U | B | .0029 J | B |
| gamma-BHC | mg/kg | NE | 0.44 | 2.9 | .023 U | | .022 U | | .023 U | | .023 U | |
| gamma-Chlordane | mg/kg | 0.0027 | 1.6 | 11 | .017 U | B | .017 U | B | .017 U | B | .017 U | B |
| Heptachlor | mg/kg | NE | 0.11 | 0.55 | .023 U | | .022 U | | .023 U | | .023 U | |
| Heptachlor epoxide | mg/kg | NE | 0.053 | 0.27 | .024 U | | .023 U | | .024 U | | .024 U | |
| Methoxychlor | mg/kg | NE | 310 | 4400 | .065 U | | .064 U | | .065 U | | .064 U | |
| Toxaphene | mg/kg | NE | 0.44 | 2.2 | .79 U | Y | .78 U | Y | .79 U | Y | .79 U | Y |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2356 | 18609-2357 | 18609-2358 | 18609-2359 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBE | TAA307-SBE | TAA307-SBF | TAA307-SBF |
| Date Sampled | | | | | 10/28/99 | 10/28/99 | 10/28/99 | 10/28/99 |
| Depth (feet below ground surface) | | | | | 1.5 | 3.0 | 1.5 | 3.0 |
| | **Unit** | **Background** | **PRG Residential** | **PRG Industrial** | | | | |
| ***EPA 8260*** | | | | | | | | |
| 1,1,1-Trichloroethane | µg/kg | NE | 770000 | 1400000 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| 1,1,2,2-Tetrachloroethane | µg/kg | NE | 380 | 900 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| 1,1,2-Trichloroethane | µg/kg | NE | 840 | 1900 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| 1,1-Dichloroethane | µg/kg | NE | 3300 | 7100 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| 1,1-Dichloroethene | µg/kg | NE | 54 | 120 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| 1,2-Dichloroethane | µg/kg | NE | 350 | 760 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| 1,2-Dichloropropane | µg/kg | NE | 350 | 770 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| 2-Butanone (MEK) | µg/kg | NE | 7300000 | 28000000 | 57 U | 56 U | 57 U | 56 U |
| 2-Chloroethyl vinyl ether | µg/kg | NE | NE | NE | 57 U | 56 U | 57 U | 56 U |
| 2-Hexanone | µg/kg | NE | NE | NE | 57 U | 56 U | 57 U | 56 U |
| 4-Methyl-2-pentanone (MIBK) | µg/kg | NE | 790000 | 2900000 | 57 U | 56 U | 57 U | 56 U |
| Acetone | µg/kg | NE | 1600000 | 6200000 | 57 U | 56 U | 57 U | 56 U |
| Benzene | µg/kg | NE | 650 | 1500 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Bromodichloromethane | µg/kg | NE | 1000 | 2400 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Bromoform | µg/kg | NE | 62000 | 310000 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Bromomethane | µg/kg | NE | 3900 | 13000 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Carbon disulfide | µg/kg | NE | 360000 | 720000 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Carbon tetrachloride | µg/kg | NE | 240 | 530 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Chlorobenzene | µg/kg | NE | 150000 | 540000 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Chloroethane | µg/kg | NE | 3000 | 6500 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Chloroform | µg/kg | NE | 240 | 520 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Chloromethane | µg/kg | NE | 1200 | 2700 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| cis-1,2-Dichloroethene | µg/kg | NE | 43000 | 150000 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| cis-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Dibromochloromethane | µg/kg | NE | 1100 | 2700 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Ethylbenzene | µg/kg | NE | 230000 | 230000 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Methyl tert-butyl ether (MTBE) | µg/kg | NE | 17 | 37 | 11 U | 11 U | 11 U | 11 U |
| Methylene chloride | µg/kg | NE | 8900 | 21000 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Styrene | µg/kg | NE | 1700000 | 1700000 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Tetrachloroethene (PCE) | µg/kg | NE | 5700 | 19000 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Toluene | µg/kg | NE | 520000 | 520000 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2356 | 18609-2357 | 18609-2358 | 18609-2359 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBE | TAA307-SBE | TAA307-SBF | TAA307-SBF |
| Date Sampled | | | | | 10/28/99 | 10/28/99 | 10/28/99 | 10/28/99 |
| Depth (feet below ground surface) | | | | | 1.5 | 3.0 | 1.5 | 3.0 |
| | **Unit** | **Background** | **PRG Residential** | **PRG Industrial** | | | | |
| trans-1,2-Dichloroethene | µg/kg | NE | 63000 | 210000 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| trans-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Trichloroethene (TCE) | µg/kg | NE | 2800 | 6100 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Vinyl acetate | µg/kg | NE | 430000 | 1400000 | 57 U | 56 U | 57 U | 56 U |
| Vinyl chloride | µg/kg | NE | 150 | 830 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| Xylenes (total) | µg/kg | NE | 210000 | 210000 | 5.7 U | 5.6 U | 5.7 U | 5.6 U |
| ***EPA 8270*** | | | | | | | | |
| 1,2,4-Trichlorobenzene | µg/kg | NE | 650000 | 3000000 | 370 U | 370 U | 370 U | 370 U |
| 1,2-Dichlorobenzene | µg/kg | NE | 370000 | 370000 | 370 U | 370 U | 370 U | 370 U |
| 1,3-Dichlorobenzene | µg/kg | NE | 13000 | 52000 | 370 U | 370 U | 370 U | 370 U |
| 1,4-Dichlorobenzene | µg/kg | NE | 3400 | 8100 | 370 U | 370 U | 370 U | 370 U |
| 2,4,5-Trichlorophenol | µg/kg | NE | 6100000 | 88000000 | 940 U | 930 U | 940 U | 940 U |
| 2,4,6-Trichlorophenol | µg/kg | NE | 44000 | 220000 | 370 U | 370 U | 370 U | 370 U |
| 2,4-Dichlorophenol | µg/kg | NE | 180000 | 2600000 | 370 U | 370 U | 370 U | 370 U |
| 2,4-Dimethylphenol | µg/kg | NE | 1200000 | 18000000 | 370 U | 370 U | 370 U | 370 U |
| 2,4-Dinitrophenol | µg/kg | NE | 120000 | 1800000 | 940 U | 930 U | 940 U | 940 U |
| 2,4-Dinitrotoluene | µg/kg | NE | 120000 | 1800000 | 370 U | 370 U | 370 U | 370 U |
| 2,6-Dinitrotoluene | µg/kg | NE | 61000 | 880000 | 370 U | 370 U | 370 U | 370 U |
| 2-Chloronaphthalene | µg/kg | NE | 4900000 | 27000000 | 370 U | 370 U | 370 U | 370 U |
| 2-Chlorophenol | µg/kg | NE | 63000 | 240000 | 370 U | 370 U | 370 U | 370 U |
| 2-Methyl-4,6-dinitrophenol | µg/kg | NE | NE | NE | 940 U | 930 U | 940 U | 940 U |
| 2-Methylnaphthalene | µg/kg | NE | NE | NE | 370 U | 370 U | 370 U | 370 U |
| 2-Methylphenol | µg/kg | NE | 3100000 | 44000000 | 370 U | 370 U | 370 U | 370 U |
| 2-Nitroaniline | µg/kg | NE | 3500 | 50000 | 940 U | 930 U | 940 U | 940 U |
| 2-Nitrophenol | µg/kg | NE | NE | NE | 370 U | 370 U | 370 U | 370 U |
| 3,3'-Dichlorobenzidine | µg/kg | NE | 1100 | 5500 | 370 U | 370 U | 370 U | 370 U |
| 3-Methyl-4-chlorophenol | µg/kg | NE | NE | NE | 370 U | 370 U | 370 U | 370 U |
| 3-Nitroaniline | µg/kg | NE | NE | NE | 940 U | 930 U | 940 U | 940 U |
| 4-Bromophenyl phenyl ether | µg/kg | NE | NE | NE | 370 U | 370 U | 370 U | 370 U |
| 4-Chloroaniline | µg/kg | NE | 240000 | 3500000 | 370 U | 370 U | 370 U | 370 U |
| 4-Chlorophenyl phenyl ether | µg/kg | NE | NE | NE | 370 U | 370 U | 370 U | 370 U |
| 4-Methylphenol | µg/kg | NE | 310000 | 4400000 | 370 U | 370 U | 370 U | 370 U |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2356 | | 18609-2357 | | 18609-2358 | | 18609-2359 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBE | | TAA307-SBE | | TAA307-SBF | | TAA307-SBF | |
| Date Sampled | | | | | 10/28/99 | | 10/28/99 | | 10/28/99 | | 10/28/99 | |
| Depth (feet below ground surface) | | | | | 1.5 | | 3.0 | | 1.5 | | 3.0 | |
| | Unit | Background | PRG Residential | PRG Industrial | | | | | | | | |
| 4-Nitroaniline | µg/kg | NE | NE | NE | 940 U | | 930 U | | 940 U | | 940 U | |
| 4-Nitrophenol | µg/kg | NE | 490000 | 7000000 | 940 U | | 930 U | | 940 U | | 940 U | |
| Acenaphthene | µg/kg | NE | 3700000 | 38000000 | 370 U | | 370 U | | 370 U | | 370 U | |
| Acenaphthylene | µg/kg | NE | NE | NE | 370 U | | 370 U | | 370 U | | 370 U | |
| Anthracene | µg/kg | NE | 22000000 | 100000000 | 370 U | | 370 U | | 370 U | | 370 U | |
| Benzo[a]anthracene | µg/kg | 22 | 620 | 2900 | 370 U | B | 370 U | B | 370 U | B | 370 U | B |
| Benzo[a]pyrene | µg/kg | 27 | 62 | 290 | 37 U | B | 37 U | B | 37 U | B | 37 U | B |
| Benzo[b]fluoranthene | µg/kg | 28 | 620 | 2900 | 370 U | B | 370 U | B | 370 U | B | 370 U | B |
| Benzo[ghi]perylene | µg/kg | NE | NE | NE | 370 U | | 370 U | | 370 U | | 370 U | |
| Benzo[k]fluoranthene | µg/kg | 24 | 6200 | 29000 | 370 U | B | 370 U | B | 370 U | B | 370 U | B |
| Bis (2-chloroethoxy)methane | µg/kg | NE | NE | NE | 370 U | | 370 U | | 370 U | | 370 U | |
| Bis (2-chloroethyl)ether | µg/kg | NE | 210 | 620 | 37 U | | 37 U | | 37 U | | 37 U | |
| Bis (2-chloroisopropyl)ether | µg/kg | NE | 2900 | 8100 | 370 U | | 370 U | | 370 U | | 370 U | |
| Bis (2-ethylhexyl)phthalate | µg/kg | NE | 35000 | 180000 | 370 U | | 370 U | | 370 U | | 370 U | |
| Butyl benzyl phthalate | µg/kg | NE | 12000000 | 100000000 | 370 U | | 370 U | | 370 U | | 370 U | |
| Chrysene | µg/kg | 31 | 6100 | 290000 | 370 U | B | 370 U | B | 370 U | B | 370 U | B |
| Di-n-butyl phthalate | µg/kg | NE | 6100000 | 88000000 | 370 U | | 370 U | | 370 U | | 370 U | |
| Di-n-octyl phthalate | µg/kg | NE | 1200000 | 10000000 | 370 U | | 370 U | | 370 U | | 370 U | |
| Dibenz[a,h]anthracene | µg/kg | 8 | 62 | 290 | 37 U | B | 37 U | B | 37 U | B | 37 U | B |
| Dibenzofuran | µg/kg | NE | 290000 | 5100000 | 370 U | | 370 U | | 370 U | | 370 U | |
| Diethyl phthalate | µg/kg | NE | 49000000 | 100000000 | 370 U | | 370 U | | 370 U | | 370 U | |
| Dimethyl phthalate | µg/kg | NE | 100000000 | 100000000 | 370 U | | 370 U | | 370 U | | 370 U | |
| Fluoranthene | µg/kg | 45 | 2300000 | 30000000 | 370 U | B | 370 U | B | 370 U | B | 370 U | B |
| Fluorene | µg/kg | NE | 2600000 | 33000000 | 370 U | | 370 U | | 370 U | | 370 U | |
| Hexachlorobenzene | µg/kg | NE | 300 | 1500 | 37 U | | 37 U | | 37 U | | 37 U | |
| Hexachlorobutadiene | µg/kg | NE | 6200 | 32000 | 370 U | | 370 U | | 370 U | | 370 U | |
| Hexachlorocyclopentadiene | µg/kg | NE | 420000 | 5900000 | 370 U | | 370 U | | 370 U | | 370 U | |
| Hexachloroethane | µg/kg | NE | 35000 | 180000 | 370 U | | 370 U | | 370 U | | 370 U | |
| Indeno[1,2,3-cd]pyrene | µg/kg | 21 | 620 | 2900 | 37 U | B | 37 U | B | 37 U | B | 37 U | B |
| N-Nitrosodi-n-propylamine | µg/kg | NE | 69 | 350 | 37 U | | 37 U | | 37 U | | 37 U | |
| N-Nitrosodiphenylamine | µg/kg | NE | 99000 | 500000 | 370 U | | 370 U | | 370 U | | 370 U | |
| Naphthalene | µg/kg | NE | 56000 | 190000 | 370 U | | 370 U | | 370 U | | 370 U | |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2356 | 18609-2357 | 18609-2358 | 18609-2359 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBE | TAA307-SBE | TAA307-SBF | TAA307-SBF |
| Date Sampled | | | | | 10/28/99 | 10/28/99 | 10/28/99 | 10/28/99 |
| Depth (feet below ground surface) | | | | | 1.5 | 3.0 | 1.5 | 3.0 |
| | Unit | Background | PRG Residential | PRG Industrial | | | | |
| Nitrobenzene | µg/kg | NE | 20000 | 110000 | 370 U | 370 U | 370 U | 370 U |
| Pentachlorophenol | µg/kg | NE | 3000 | 11000 | 190 U | 180 U | 190 U | 190 U |
| Phenanthrene | µg/kg | 18 | NE | NE | 370 U B | 370 U B | 370 U B | 370 U B |
| Phenol | µg/kg | NE | 37000000 | 100000000 | 370 U | 370 U | 370 U | 370 U |
| Pyrene | µg/kg | 41 | 2300000 | 54000000 | 370 U B | 370 U B | 370 U B | 370 U B |
| *EPA 6010* | | | | | | | | |
| Aluminum | mg/kg | 14800 | 76000 | 100000 | 17000 B | 17200 B | 16300 B | 16800 B |
| Antimony | mg/kg | 3.06 | 31 | 820 | 11.3 UJ B | 11.1 UJ B | 11.3 UJ B | 11.3 UJ B |
| Arsenic | mg/kg | 6.86 | 0.39 | 2.7 | 3.51 Y X | 3.65 Y X | 3.46 Y X | 3.37 Y X |
| Barium | mg/kg | 173 | 5400 | 100000 | 174 B | 190 B | 239 B | 158 |
| Beryllium | mg/kg | 0.669 | 150 | 2200 | .605 | .602 | .575 | .607 |
| Cadmium | mg/kg | 2.35 | 9.0 | 810 | 1.13 U | 1.11 U | 1.13 U | 1.13 U |
| Calcium | mg/kg | 46000 | NE | NE | 4450 | 4140 J | 3830 J | 4090 J |
| Chromium | mg/kg | 26.9 | 210 | 450 | 15.1 | 16.3 | 15.4 | 16.1 |
| Cobalt | mg/kg | 6.98 | 4700 | 100000 | 5.92 | 6.78 | 5.49 | 6.63 |
| Copper | mg/kg | 10.5 | 2900 | 76000 | 9.71 | 9.84 | 9.83 | 10.3 |
| Iron | mg/kg | 18400 | 23000 | 100000 | 18300 J | 19300 J B | 18000 J | 19200 J B |
| Lead | mg/kg | 15.1 | 400 | 750 | 4.75 | 3.86 | 3.65 | 6.42 |
| Magnesium | mg/kg | 8370 | NE | NE | 6790 J | 7320 J | 6710 J | 7230 J |
| Manganese | mg/kg | 291 | 1800 | 32000 | 276 J | 300 J B | 264 J | 291 J B |
| Molybdenum | mg/kg | NE | 390 | 10000 | 2.27 U | 2.23 U | 2.27 U | 2.26 U |
| Nickel | mg/kg | 15.3 | 150 | 41000 | 9.48 | 10.3 | 9.47 | 9.19 |
| Potassium | mg/kg | 4890 | NE | NE | 4790 | 4660 | 4420 | 4910 B |
| Selenium | mg/kg | 0.32 | 390 | 10000 | 1.13 U B | 1.11 U B | 1.13 U B | 1.13 U B |
| Silver | mg/kg | 0.539 | 390 | 10000 | 2.26 U B | 2.22 U B | 2.26 U B | 2.26 U B |
| Sodium | mg/kg | 405 | NE | NE | 566 U B | 578 B | 567 U B | 564 U B |
| Thallium | mg/kg | 0.42 | 5.2 | 130 | 1.13 U B | 1.11 U B | 1.13 U B | 1.13 U B |
| Vanadium | mg/kg | 71.8 | 550 | 14000 | 42.8 | 45.6 | 44 | 45.1 |
| Zinc | mg/kg | 77.9 | 23000 | 100000 | 55.1 | 58.7 | 53.7 | 59.1 |
| *EPA 7471A* | | | | | | | | |
| Mercury | mg/kg | 0.22 | 23 | 610 | .113 U | .111 U | .113 U | .113 U |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2356 | 18609-2357 | 18609-2358 | 18609-2359 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBE | TAA307-SBE | TAA307-SBF | TAA307-SBF |
| Date Sampled | | | | | 10/28/99 | 10/28/99 | 10/28/99 | 10/28/99 |
| Depth (feet below ground surface) | | | | | 1.5 | 3.0 | 1.5 | 3.0 |
| | **Unit** | **Background** | **PRG Residential** | **PRG Industrial** | | | | |
| ***EPA 150.1*** | | | | | | | | |
| pH | pH units | NE | NE | NE | 8.27 | 8.36 | 8.05 | 8.08 |
| ***EPA 9012*** | | | | | | | | |
| Cyanide | mg/kg | NE | 1200 | 18000 | .566 U | .557 U | .567 U | .564 U |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2360 (Dup) | |
|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBF | |
| Date Sampled | | | | | 10/28/99 | |
| Depth (feet below ground surface) | | | | | 3.5 | |
| | Unit | Background | PRG Residential | PRG Industrial | | |
| *CA LUFT 8015M* | | | | | | |
| TPH as Diesel | mg/kg | NE | NE | NE | 11.3 U | |
| TPH as Gasoline | mg/kg | NE | NE | NE | 1.1 U | |
| TPH as JP-5 | mg/kg | NE | NE | NE | 11.3 U | |
| *EPA 8081* | | | | | | |
| 4,4'-DDD | mg/kg | 0.0361 | 2.4 | 17 | .0034 U | |
| 4,4'-DDE | mg/kg | 0.145 | 1.7 | 12 | .048 U | |
| 4,4'-DDT | mg/kg | 0.236 | 1.7 | 12 | .0034 U | |
| Aldrin | mg/kg | NE | 0.029 | 0.15 | .017 U | |
| alpha-BHC | mg/kg | NE | 0.09 | 0.59 | .0022 U | |
| alpha-Chlordane | mg/kg | 0.00224 | 1.6 | 11 | .017 U | B |
| Aroclor-1016 | mg/kg | NE | 3.9 | 29 | .79 U | |
| Aroclor-1221 | mg/kg | NE | 0.22 | 1 | .79 U | Y |
| Aroclor-1232 | mg/kg | NE | 0.22 | 1 | .79 U | Y |
| Aroclor-1242 | mg/kg | NE | 0.22 | 1 | .79 U | Y |
| Aroclor-1248 | mg/kg | NE | 0.22 | 1 | .79 U | Y |
| Aroclor-1254 | mg/kg | NE | 0.22 | 1 | .79 U | Y |
| Aroclor-1260 | mg/kg | NE | 0.22 | 1 | .79 U | Y |
| Beta-BHC | mg/kg | NE | 0.32 | 2.1 | .037 U | |
| Delta-BHC | mg/kg | NE | NE | NE | .012 U | |
| Dieldrin | mg/kg | 0.0199 | 0.03 | 0.15 | .04 U | B Y |
| Endosulfan I | mg/kg | 0.000179 | 370 | 5300 | .024 U | B |
| Endosulfan II | mg/kg | 0.00222 | 370 | 5300 | .027 U | B |
| Endosulfan sulfate | mg/kg | 0.0031 | NE | NE | .041 U | B |
| Endrin | mg/kg | 0.00222 | 18 | 260 | .041 U | B |
| Endrin aldehyde | mg/kg | 0.00222 | NE | NE | .018 U | B |
| gamma-BHC | mg/kg | NE | 0.44 | 2.9 | .023 U | |
| gamma-Chlordane | mg/kg | 0.0027 | 1.6 | 11 | .017 U | B |
| Heptachlor | mg/kg | NE | 0.11 | 0.55 | .023 U | |
| Heptachlor epoxide | mg/kg | NE | 0.053 | 0.27 | .024 U | |
| Methoxychlor | mg/kg | NE | 310 | 4400 | .065 U | |
| Toxaphene | mg/kg | NE | 0.44 | 2.2 | .79 U | Y |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2360 (Dup) |
|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBF |
| Date Sampled | | | | | 10/28/99 |
| Depth (feet below ground surface) | | | | | 3.5 |
| | Unit | Background | PRG Residential | PRG Industrial | |
| *EPA 8260* | | | | | |
| 1,1,1-Trichloroethane | µg/kg | NE | 770000 | 1400000 | 5.7 U |
| 1,1,2,2-Tetrachloroethane | µg/kg | NE | 380 | 900 | 5.7 U |
| 1,1,2-Trichloroethane | µg/kg | NE | 840 | 1900 | 5.7 U |
| 1,1-Dichloroethane | µg/kg | NE | 3300 | 7100 | 5.7 U |
| 1,1-Dichloroethene | µg/kg | NE | 54 | 120 | 5.7 U |
| 1,2-Dichloroethane | µg/kg | NE | 350 | 760 | 5.7 U |
| 1,2-Dichloropropane | µg/kg | NE | 350 | 770 | 5.7 U |
| 2-Butanone (MEK) | µg/kg | NE | 7300000 | 28000000 | 57 U |
| 2-Chloroethyl vinyl ether | µg/kg | NE | NE | NE | 57 U |
| 2-Hexanone | µg/kg | NE | NE | NE | 57 U |
| 4-Methyl-2-pentanone (MIBK) | µg/kg | NE | 790000 | 2900000 | 57 U |
| Acetone | µg/kg | NE | 1600000 | 6200000 | 57 U |
| Benzene | µg/kg | NE | 650 | 1500 | 5.7 U |
| Bromodichloromethane | µg/kg | NE | 1000 | 2400 | 5.7 U |
| Bromoform | µg/kg | NE | 62000 | 310000 | 5.7 U |
| Bromomethane | µg/kg | NE | 3900 | 13000 | 5.7 U |
| Carbon disulfide | µg/kg | NE | 360000 | 720000 | 5.7 U |
| Carbon tetrachloride | µg/kg | NE | 240 | 530 | 5.7 U |
| Chlorobenzene | µg/kg | NE | 150000 | 540000 | 5.7 U |
| Chloroethane | µg/kg | NE | 3000 | 6500 | 5.7 U |
| Chloroform | µg/kg | NE | 240 | 520 | 5.7 U |
| Chloromethane | µg/kg | NE | 1200 | 2700 | 5.7 U |
| cis-1,2-Dichloroethene | µg/kg | NE | 43000 | 150000 | 5.7 U |
| cis-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 5.7 U |
| Dibromochloromethane | µg/kg | NE | 1100 | 2700 | 5.7 U |
| Ethylbenzene | µg/kg | NE | 230000 | 230000 | 5.7 U |
| Methyl tert-butyl ether (MTBE) | µg/kg | NE | 17 | 37 | 11 U |
| Methylene chloride | µg/kg | NE | 8900 | 21000 | 5.7 U |
| Styrene | µg/kg | NE | 1700000 | 1700000 | 5.7 U |
| Tetrachloroethene (PCE) | µg/kg | NE | 5700 | 19000 | 5.7 U |
| Toluene | µg/kg | NE | 520000 | 520000 | 5.7 U |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2360 (Dup) |
|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBF |
| Date Sampled | | | | | 10/28/99 |
| Depth (feet below ground surface) | | | | | 3.5 |
| | Unit | Background | PRG Residential | PRG Industrial | |
| trans-1,2-Dichloroethene | µg/kg | NE | 63000 | 210000 | 5.7 U |
| trans-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 5.7 U |
| Trichloroethene (TCE) | µg/kg | NE | 2800 | 6100 | 5.7 U |
| Vinyl acetate | µg/kg | NE | 430000 | 1400000 | 57 U |
| Vinyl chloride | µg/kg | NE | 150 | 830 | 5.7 U |
| Xylenes (total) | µg/kg | NE | 210000 | 210000 | 5.7 U |
| ***EPA 8270*** | | | | | |
| 1,2,4-Trichlorobenzene | µg/kg | NE | 650000 | 3000000 | 370 U |
| 1,2-Dichlorobenzene | µg/kg | NE | 370000 | 370000 | 370 U |
| 1,3-Dichlorobenzene | µg/kg | NE | 13000 | 52000 | 370 U |
| 1,4-Dichlorobenzene | µg/kg | NE | 3400 | 8100 | 370 U |
| 2,4,5-Trichlorophenol | µg/kg | NE | 6100000 | 88000000 | 940 U |
| 2,4,6-Trichlorophenol | µg/kg | NE | 44000 | 220000 | 370 U |
| 2,4-Dichlorophenol | µg/kg | NE | 180000 | 2600000 | 370 U |
| 2,4-Dimethylphenol | µg/kg | NE | 1200000 | 18000000 | 370 U |
| 2,4-Dinitrophenol | µg/kg | NE | 120000 | 1800000 | 940 U |
| 2,4-Dinitrotoluene | µg/kg | NE | 120000 | 1800000 | 370 U |
| 2,6-Dinitrotoluene | µg/kg | NE | 61000 | 880000 | 370 U |
| 2-Chloronaphthalene | µg/kg | NE | 4900000 | 27000000 | 370 U |
| 2-Chlorophenol | µg/kg | NE | 63000 | 240000 | 370 U |
| 2-Methyl-4,6-dinitrophenol | µg/kg | NE | NE | NE | 940 U |
| 2-Methylnaphthalene | µg/kg | NE | NE | NE | 370 U |
| 2-Methylphenol | µg/kg | NE | 3100000 | 44000000 | 370 U |
| 2-Nitroaniline | µg/kg | NE | 3500 | 50000 | 940 U |
| 2-Nitrophenol | µg/kg | NE | NE | NE | 370 U |
| 3,3'-Dichlorobenzidine | µg/kg | NE | 1100 | 5500 | 370 U |
| 3-Methyl-4-chlorophenol | µg/kg | NE | NE | NE | 370 U |
| 3-Nitroaniline | µg/kg | NE | NE | NE | 940 U |
| 4-Bromophenyl phenyl ether | µg/kg | NE | NE | NE | 370 U |
| 4-Chloroaniline | µg/kg | NE | 240000 | 3500000 | 370 U |
| 4-Chlorophenyl phenyl ether | µg/kg | NE | NE | NE | 370 U |
| 4-Methylphenol | µg/kg | NE | 310000 | 4400000 | 370 U |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2360 (Dup) | |
|---|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBF | |
| Date Sampled | | | | | 10/28/99 | |
| Depth (feet below ground surface) | | | | | 3.5 | |
| | Unit | Background | PRG Residential | PRG Industrial | | |
| 4-Nitroaniline | µg/kg | NE | NE | NE | 940 U | |
| 4-Nitrophenol | µg/kg | NE | 490000 | 7000000 | 940 U | |
| Acenaphthene | µg/kg | NE | 3700000 | 38000000 | 370 U | |
| Acenaphthylene | µg/kg | NE | NE | NE | 370 U | |
| Anthracene | µg/kg | NE | 22000000 | 100000000 | 370 U | |
| Benzo[a]anthracene | µg/kg | 22 | 620 | 2900 | 370 U | B |
| Benzo[a]pyrene | µg/kg | 27 | 62 | 290 | 37 U | B |
| Benzo[b]fluoranthene | µg/kg | 28 | 620 | 2900 | 370 U | B |
| Benzo[ghi]perylene | µg/kg | NE | NE | NE | 370 U | |
| Benzo[k]fluoranthene | µg/kg | 24 | 6200 | 29000 | 370 U | B |
| Bis (2-chloroethoxy)methane | µg/kg | NE | NE | NE | 370 U | |
| Bis (2-chloroethyl)ether | µg/kg | NE | 210 | 620 | 37 U | |
| Bis (2-chloroisopropyl)ether | µg/kg | NE | 2900 | 8100 | 370 U | |
| Bis (2-ethylhexyl)phthalate | µg/kg | NE | 35000 | 180000 | 370 U | |
| Butyl benzyl phthalate | µg/kg | NE | 12000000 | 100000000 | 370 U | |
| Chrysene | µg/kg | 31 | 6100 | 290000 | 370 U | B |
| Di-n-butyl phthalate | µg/kg | NE | 6100000 | 88000000 | 370 U | |
| Di-n-octyl phthalate | µg/kg | NE | 1200000 | 10000000 | 370 U | |
| Dibenz[a,h]anthracene | µg/kg | 8 | 62 | 290 | 37 U | B |
| Dibenzofuran | µg/kg | NE | 290000 | 5100000 | 370 U | |
| Diethyl phthalate | µg/kg | NE | 49000000 | 100000000 | 370 U | |
| Dimethyl phthalate | µg/kg | NE | 100000000 | 100000000 | 370 U | |
| Fluoranthene | µg/kg | 45 | 2300000 | 30000000 | 370 U | B |
| Fluorene | µg/kg | NE | 2600000 | 33000000 | 370 U | |
| Hexachlorobenzene | µg/kg | NE | 300 | 1500 | 37 U | |
| Hexachlorobutadiene | µg/kg | NE | 6200 | 32000 | 370 U | |
| Hexachlorocyclopentadiene | µg/kg | NE | 420000 | 5900000 | 370 U | |
| Hexachloroethane | µg/kg | NE | 35000 | 180000 | 370 U | |
| Indeno[1,2,3-cd]pyrene | µg/kg | 21 | 620 | 2900 | 37 U | B |
| N-Nitrosodi-n-propylamine | µg/kg | NE | 69 | 350 | 37 U | |
| N-Nitrosodiphenylamine | µg/kg | NE | 99000 | 500000 | 370 U | |
| Naphthalene | µg/kg | NE | 56000 | 190000 | 370 U | |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| Sample Identification | | | | | 18609-2360 (Dup) |
|---|---|---|---|---|---|
| Location Code | | | | | TAA307-SBF |
| Date Sampled | | | | | 10/28/99 |
| Depth (feet below ground surface) | | | | | 3.5 |
| | Unit | Background | PRG Residential | PRG Industrial | |
| Nitrobenzene | µg/kg | NE | 20000 | 110000 | 370 U |
| Pentachlorophenol | µg/kg | NE | 3000 | 11000 | 190 U |
| Phenanthrene | µg/kg | 18 | NE | NE | 370 U B |
| Phenol | µg/kg | NE | 37000000 | 100000000 | 370 U |
| Pyrene | µg/kg | 41 | 2300000 | 54000000 | 370 U B |
| *EPA 6010* | | | | | |
| Aluminum | mg/kg | 14800 | 76000 | 100000 | 17300 B |
| Antimony | mg/kg | 3.06 | 31 | 820 | 11.3 UJ B |
| Arsenic | mg/kg | 6.86 | 0.39 | 2.7 | 3.21 Y X |
| Barium | mg/kg | 173 | 5400 | 100000 | 167 |
| Beryllium | mg/kg | 0.669 | 150 | 2200 | .606 |
| Cadmium | mg/kg | 2.35 | 9.0 | 810 | 1.13 U |
| Calcium | mg/kg | 46000 | NE | NE | 4230 J |
| Chromium | mg/kg | 26.9 | 210 | 450 | 15.9 |
| Cobalt | mg/kg | 6.98 | 4700 | 100000 | 6.56 |
| Copper | mg/kg | 10.5 | 2900 | 76000 | 10.6 B |
| Iron | mg/kg | 18400 | 23000 | 100000 | 19100 J B |
| Lead | mg/kg | 15.1 | 400 | 750 | 7.95 |
| Magnesium | mg/kg | 8370 | NE | NE | 7410 J |
| Manganese | mg/kg | 291 | 1800 | 32000 | 292 J B |
| Molybdenum | mg/kg | NE | 390 | 10000 | 2.27 U |
| Nickel | mg/kg | 15.3 | 150 | 41000 | 8.32 |
| Potassium | mg/kg | 4890 | NE | NE | 4690 |
| Selenium | mg/kg | 0.32 | 390 | 10000 | 1.13 U B |
| Silver | mg/kg | 0.539 | 390 | 10000 | 2.26 U B |
| Sodium | mg/kg | 405 | NE | NE | 633 B |
| Thallium | mg/kg | 0.42 | 5.2 | 130 | 1.13 U B |
| Vanadium | mg/kg | 71.8 | 550 | 14000 | 44.9 |
| Zinc | mg/kg | 77.9 | 23000 | 100000 | 60.5 |
| *EPA 7471A* | | | | | |
| Mercury | mg/kg | 0.22 | 23 | 610 | .113 U |

# Table 4-2
## Summary of Analytical Results for Confirmation Soil Samples — TAA 307

| | | | | | |
|---|---|---|---|---|---|
| **Sample Identification** | | | | | 18609-2360 (Dup) |
| **Location Code** | | | | | TAA307-SBF |
| **Date Sampled** | | | | | 10/28/99 |
| **Depth (feet below ground surface)** | | | | | 3.5 |
| | **Unit** | **Background** | **PRG Residential** | **PRG Industrial** | |
| ***EPA 150.1*** | | | | | |
| pH | pH units | NE | NE | NE | 8.00 |
| ***EPA 9012*** | | | | | |
| Cyanide | mg/kg | NE | 1200 | 18000 | .567 U |

# Table 4-2
# Summary of Analytical Results for Confirmation Soil Samples — TAA 307

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.
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").
µg/kg - micrograms per kilogram
UJ - the sample detection limit is an estimated value
X - result exceeds industrial PRGs
Y - result exceeds residential PRGs

# Table 4-3
## Summary of Analytical Results for QC Samples — TAA 307

| Sample Identification<br>Location Code<br>Date Sampled | Unit | 18609-2349<br>Trip Blank<br>10/26/99 | 18609-2361<br>Equipment Rinsate<br>10/28/99 | 18609-2362<br>Trip Blank<br>10/28/99 |
|---|---|---|---|---|
| ***CA LUFT 8015M*** | | | | |
| TPH as Diesel | mg/L | NA | .097 U | NA |
| TPH as Gasoline | mg/L | NA | .1 U | NA |
| TPH as JP-5 | mg/L | NA | .097 U | NA |
| ***EPA 8081*** | | | | |
| 4,4'-DDD | µg/L | NA | .49 U | NA |
| 4,4'-DDE | µg/L | NA | .49 U | NA |
| 4,4'-DDT | µg/L | NA | .098 U | NA |
| Aldrin | µg/L | NA | .029 UJ | NA |
| alpha-BHC | µg/L | NA | .34 U | NA |
| alpha-Chlordane | µg/L | NA | .78 U | NA |
| Aroclor-1016 | µg/L | NA | 2 U | NA |
| Aroclor-1221 | µg/L | NA | 2 U | NA |
| Aroclor-1232 | µg/L | NA | 1.96 U | NA |
| Aroclor-1242 | µg/L | NA | .98 U | NA |
| Aroclor-1248 | µg/L | NA | .98 U | NA |
| Aroclor-1254 | µg/L | NA | .98 U | NA |
| Aroclor-1260 | µg/L | NA | .98 U | NA |
| Beta-BHC | µg/L | NA | .23 U | NA |
| Delta-BHC | µg/L | NA | .24 U | NA |
| Dieldrin | µg/L | NA | .43 U | NA |
| Endosulfan I | µg/L | NA | .29 U | NA |
| Endosulfan II | µg/L | NA | .39 U | NA |
| Endosulfan sulfate | µg/L | NA | .34 U | NA |
| Endrin | µg/L | NA | .38 U | NA |
| Endrin aldehyde | µg/L | NA | .49 U | NA |
| gamma-BHC | µg/L | NA | .25 U | NA |
| gamma-Chlordane | µg/L | NA | .36 U | NA |
| Heptachlor | µg/L | NA | .39 U | NA |
| Heptachlor epoxide | µg/L | NA | .31 U | NA |
| Methoxychlor | µg/L | NA | .84 U | NA |
| Toxaphene | µg/L | NA | 2 U | NA |

# Table 4-3
## Summary of Analytical Results for QC Samples — TAA 307

| Sample Identification<br>Location Code<br>Date Sampled | | 18609-2349<br>Trip Blank<br>10/26/99 | 18609-2361<br>Equipment Rinsate<br>10/28/99 | 18609-2362<br>Trip Blank<br>10/28/99 |
|---|---|---|---|---|
| | **Unit** | | | |
| ***EPA 8260A*** | | | | |
| 1,1,1-Trichloroethane | µg/L | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | µg/L | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | µg/L | 5 U | 5 U | 5 U |
| 1,1-Dichloroethane | µg/L | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | µg/L | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | µg/L | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | µg/L | 5 U | 5 U | 5 U |
| 2-Butanone (MEK) | µg/L | 50 U | 50 U | 50 U |
| 2-Chloroethyl vinyl ether | µg/L | 50 U | 50 U | 50 U |
| 2-Hexanone | µg/L | 50 U | 50 U | 50 U |
| 4-Methyl-2-pentanone (MIBK) | µg/L | 50 U | 50 U | 50 U |
| Acetone | µg/L | 50 U | 50 U | 50 U |
| Benzene | µg/L | 5 U | 5 U | 5 U |
| Bromodichloromethane | µg/L | 5 U | 5 U | 5 U |
| Bromoform | µg/L | 5 U | 5 U | 5 U |
| Bromomethane | µg/L | 5 U | 5 U | 5 U |
| Carbon disulfide | µg/L | 5 U | 5 U | 5 U |
| Carbon tetrachloride | µg/L | 5 U | 5 U | 5 U |
| Chlorobenzene | µg/L | 5 U | 5 U | 5 U |
| Chloroethane | µg/L | 5 U | 5 U | 5 U |
| Chloroform | µg/L | 5 U | 5 U | 5 U |
| Chloromethane | µg/L | 5 U | 5 U | 5 U |
| cis-1,2-Dichloroethene | µg/L | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | µg/L | 5 U | 5 U | 5 U |
| Dibromochloromethane | µg/L | 5 U | 5 U | 5 U |
| Ethylbenzene | µg/L | 5 U | 5 U | 5 U |
| Methyl tert-butyl ether (MTBE) | µg/L | 10 U | 10 U | 10 U |
| Methylene chloride | µg/L | 5 U | 5 U | 5 U |
| Styrene | µg/L | 5 U | 5 U | 5 U |
| Tetrachloroethene | µg/L | 5 U | 5 U | 5 U |
| Toluene | µg/L | 5 U | 5 U | 5 U |

# Table 4-3
## Summary of Analytical Results for QC Samples — TAA 307

| **Sample Identification** | | 18609-2349 | 18609-2361 | 18609-2362 |
|---|---|---|---|---|
| **Location Code** | | Trip Blank | Equipment Rinsate | Trip Blank |
| **Date Sampled** | | 10/26/99 | 10/28/99 | 10/28/99 |
| | **Unit** | | | |
| trans-1,2-Dichloroethene | µg/L | 5 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | µg/L | 5 U | 5 U | 5 U |
| Trichloroethene | µg/L | 5 U | 5 U | 5 U |
| Vinyl acetate | µg/L | 50 R | 50 U | 50 U |
| Vinyl chloride | µg/L | 5 U | 5 U | 5 U |
| Xylenes (total) | µg/L | 5 U | 5 U | 5 U |
| ***EPA 8270*** | | | | |
| 1,2,4-Trichlorobenzene | µg/L | NA | 9.6 U | NA |
| 1,2-Dichlorobenzene | µg/L | NA | 9.6 U | NA |
| 1,3-Dichlorobenzene | µg/L | NA | 9.6 U | NA |
| 1,4-Dichlorobenzene | µg/L | NA | 9.6 U | NA |
| 2,4,5-Trichlorophenol | µg/L | NA | 24 U | NA |
| 2,4,6-Trichlorophenol | µg/L | NA | 9.6 U | NA |
| 2,4-Dichlorophenol | µg/L | NA | 9.6 U | NA |
| 2,4-Dimethylphenol | µg/L | NA | 9.6 U | NA |
| 2,4-Dinitrophenol | µg/L | NA | 24 U | NA |
| 2,4-Dinitrotoluene | µg/L | NA | 9.6 U | NA |
| 2,6-Dinitrotoluene | µg/L | NA | 9.6 U | NA |
| 2-Chloronaphthalene | µg/L | NA | 9.6 U | NA |
| 2-Chlorophenol | µg/L | NA | 9.6 U | NA |
| 2-Methyl-4,6-dinitrophenol | µg/L | NA | 24 U | NA |
| 2-Methylnaphthalene | µg/L | NA | 9.6 U | NA |
| 2-Methylphenol | µg/L | NA | 9.6 U | NA |
| 2-Nitroaniline | µg/L | NA | 24 U | NA |
| 2-Nitrophenol | µg/L | NA | 9.6 U | NA |
| 3,3'-Dichlorobenzidine | µg/L | NA | 9.6 U | NA |
| 3-Methyl-4-chlorophenol | µg/L | NA | 9.6 U | NA |
| 3-Nitroaniline | µg/L | NA | 24 U | NA |
| 4-Bromophenyl phenyl ether | µg/L | NA | 9.6 U | NA |
| 4-Chloroaniline | µg/L | NA | 9.6 U | NA |
| 4-Chlorophenyl phenyl ether | µg/L | NA | 9.6 U | NA |
| 4-Methylphenol | µg/L | NA | 9.6 U | NA |

# Table 4-3
## Summary of Analytical Results for QC Samples — TAA 307

| Sample Identification | | 18609-2349 | 18609-2361 | 18609-2362 |
|---|---|---|---|---|
| Location Code | | Trip Blank | Equipment Rinsate | Trip Blank |
| Date Sampled | | 10/26/99 | 10/28/99 | 10/28/99 |
| | Unit | | | |
| 4-Nitroaniline | µg/L | NA | 24 U | NA |
| 4-Nitrophenol | µg/L | NA | 24 U | NA |
| Acenaphthene | µg/L | NA | 9.6 U | NA |
| Acenaphthylene | µg/L | NA | 9.6 U | NA |
| Anthracene | µg/L | NA | 9.6 U | NA |
| Benzo[a]anthracene | µg/L | NA | 9.6 U | NA |
| Benzo[a]pyrene | µg/L | NA | 9.6 U | NA |
| Benzo[b]fluoranthene | µg/L | NA | 9.6 U | NA |
| Benzo[ghi]perylene | µg/L | NA | 9.6 U | NA |
| Benzo[k]fluoranthene | µg/L | NA | 9.6 U | NA |
| Bis (2-chloroethoxy)methane | µg/L | NA | 9.6 U | NA |
| Bis (2-chloroethyl)ether | µg/L | NA | 9.6 U | NA |
| Bis (2-chloroisopropyl)ether | µg/L | NA | 9.6 U | NA |
| Bis (2-ethylhexyl)phthalate | µg/L | NA | 9.6 U | NA |
| Butyl benzyl phthalate | µg/L | NA | 9.6 U | NA |
| Chrysene | µg/L | NA | 9.6 U | NA |
| Di-n-butyl phthalate | µg/L | NA | 9.6 U | NA |
| Di-n-octyl phthalate | µg/L | NA | 9.6 U | NA |
| Dibenz[a,h]anthracene | µg/L | NA | 9.6 U | NA |
| Dibenzofuran | µg/L | NA | 9.6 U | NA |
| Diethyl phthalate | µg/L | NA | 9.6 U | NA |
| Dimethyl phthalate | µg/L | NA | 9.6 U | NA |
| Fluoranthene | µg/L | NA | 9.6 U | NA |
| Fluorene | µg/L | NA | 9.6 U | NA |
| Hexachlorobenzene | µg/L | NA | 9.6 U | NA |
| Hexachlorobutadiene | µg/L | NA | 9.6 U | NA |
| Hexachlorocyclopentadiene | µg/L | NA | 9.6 U | NA |
| Hexachloroethane | µg/L | NA | 9.6 U | NA |
| Indeno[1,2,3-cd]pyrene | µg/L | NA | 9.6 U | NA |
| N-Nitrosodi-n-propylamine | µg/L | NA | 9.6 U | NA |
| N-Nitrosodiphenylamine | µg/L | NA | 9.6 U | NA |
| Naphthalene | µg/L | NA | 9.6 U | NA |

# Table 4-3
## Summary of Analytical Results for QC Samples — TAA 307

| Sample Identification<br>Location Code<br>Date Sampled | Unit | 18609-2349<br>Trip Blank<br>10/26/99 | 18609-2361<br>Equipment Rinsate<br>10/28/99 | 18609-2362<br>Trip Blank<br>10/28/99 |
|---|---|---|---|---|
| Nitrobenzene | µg/L | NA | 9.6 U | NA |
| Pentachlorophenol | µg/L | NA | 9.6 U | NA |
| Phenanthrene | µg/L | NA | 9.6 U | NA |
| Phenol | µg/L | NA | 9.6 U | NA |
| Pyrene | µg/L | NA | 9.6 U | NA |
| *EPA 6010A* | | | | |
| Aluminum | µg/L | NA | 500 U | NA |
| Antimony | µg/L | NA | 500 U | NA |
| Arsenic | µg/L | NA | 10 U | NA |
| Barium | µg/L | NA | 100 U | NA |
| Beryllium | µg/L | NA | 10 U | NA |
| Cadmium | µg/L | NA | 10 U | NA |
| Calcium | µg/L | NA | 5000 U | NA |
| Chromium | µg/L | NA | 50 U | NA |
| Cobalt | µg/L | NA | 50 U | NA |
| Copper | µg/L | NA | 50 U | NA |
| Iron | µg/L | NA | 200 U | NA |
| Lead | µg/L | NA | 10 U | NA |
| Magnesium | µg/L | NA | 5000 U | NA |
| Manganese | µg/L | NA | 20 U | NA |
| Molybdenum | µg/L | NA | 100 U | NA |
| Nickel | µg/L | NA | 150 U | NA |
| Potassium | µg/L | NA | 5000 U | NA |
| Selenium | µg/L | NA | 10 U | NA |
| Silver | µg/L | NA | 50 U | NA |
| Sodium | µg/L | NA | 5000 U | NA |
| Thallium | µg/L | NA | 400 U | NA |
| Vanadium | µg/L | NA | 100 U | NA |
| Zinc | µg/L | NA | 20 U | NA |
| *EPA 7470A* | | | | |
| Mercury | µg/L | NA | .2 U | NA |

## Table 4-3
## Summary of Analytical Results for QC Samples — TAA 307

| Sample Identification<br>Location Code<br>Date Sampled | | 18609-2349<br>Trip Blank<br>10/26/99 | 18609-2361<br>Equipment Rinsate<br>10/28/99 | 18609-2362<br>Trip Blank<br>10/28/99 |
|---|---|---|---|---|
| | **Unit** | | | |
| ***EPA 9010*** | | | | |
| Cyanide | mg/L | NA | .01 U | NA |
| ***EPA 150.1*** | | | | |
| pH | pH units | NA | 6.68 | NA |

# Table 4-3
# Summary of Analytical Results for QC Samples — TAA 307

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

# Table 5-1
## Residential Risk Screening Worksheet for Soil - TAA 307
## Marine Corps Air Station, El Toro

| Detected Chemical | Maximum TAA 307 Soil Concentration (mg/kg) | MCAS El Toro Background Concentration[A] (mg/kg) | CANCER | | | NON-CANCER | | |
|---|---|---|---|---|---|---|---|---|
| | | | Residential PRG[B] (mg/kg) | TAA 307 Maximum Ratio[C] | MCAS El Toro Background Ratio[D] | Residential PRG[E] (mg/kg) | TAA 307 Maximum Ratio[F] | MCAS El Toro Background Ratio[F] |
| **ORGANICS** | | | | | | | | |
| 4,4'-DDE | 0.016 | 0.145 | 1.7E+00 | 9.41E-03 | 9.41E-03 | NE | NE | NE |
| 4,4'-DDT | 0.016 | 0.236 | 1.7E+00 | 9.41E-03 | 9.41E-03 | 3.6E+01 | NE | NE |
| Dieldrin | 0.002 | 0.0199 | 3.0E-02 | 6.67E-02 | 6.67E-02 | 3.1E+00 | NE | NE |
| Endrin aldehyde | 0.0029 | 0.00222 | NE | NE | NE | NE | NE | NE |
| alpha-BHC | 0.00091 | NE | 9.0E-02 | 1.01E-02 | 1.01E-02 | NE | NE | NE |
| **METALS** | | | | | | | | |
| Aluminum | 17,300 | 14,800 | NE | NE | NE | 7.6E+04 | 2.28E-01 | 1.95E-01 |
| Arsenic | 3.65 | 6.86 | 3.9E-01 | 9.36E+00 | 9.36E+00 | 2.2E+01 | NE | NE |
| Barium | 239 | 173 | NE | NE | NE | 5.4E+03 | 4.43E-02 | 3.20E-02 |
| Beryllium | 0.607 | 0.669 | 1.1E+03 | 5.52E-04 | 5.52E-04 | 1.5E+02 | NE | NE |
| Chromium | 16.3 | 26.9 | 2.1E+02 | 7.76E-02 | 7.76E-02 | NE | NE | NE |
| Cobalt | 6.96 | 6.98 | NE | NE | NE | 4.7E+03 | NE | NE |
| Copper | 32.9 | 10.5 | NE | NE | NE | 2.9E+03 | 1.13E-02 | 3.62E-03 |
| Iron | 19,800 | 18,400 | NE | NE | NE | 2.3E+04 | 8.61E-01 | 8.00E-01 |
| Lead | 12.8 | 15.1 | NE | NE | NE | 4.0E+02 | NE | NE |
| Manganese | 300 | 291 | NE | NE | NE | 1.8E+03 | 1.67E-01 | 1.62E-01 |
| Molybdenum | 2.18 | NE | NE | NE | NE | 3.9E+02 | 5.59E-03 | NE |
| Nickel | 10.3 | 15.3 | 1.5E+02 | 6.87E-02 | 6.87E-02 | 1.6E+03 | NE | NE |
| Vanadium | 46.7 | 71.8 | NE | NE | NE | 5.5E+02 | NE | NE |
| Zinc | 66.6 | 77.9 | NE | NE | NE | 2.3E+04 | NE | NE |
| Subtotal sum of ratios | | | | 9.60E+00 | 9.60E+00 | | 1.32E+00 | 1.19E+00 |
| **MCAS EL TORO BACKGROUND RISK** | | | **CANCER RISK** | | **9.60E-06** | | | |
| **TAA 307 SUMMED RISK** | | | **CANCER RISK** | **9.60E-06** | | **NON-CANCER HAZARD INDEX** | **1.3** | |
| **TAA 307 RISK LESS BACKGROUND RISK (NET RISK)** | | | **NET CANCER RISK** | **$<1x10^{-6}$** | | | | |

[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, November 22, 2000 list.

[C] The Ratio is determined by dividing the maximum 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, November 22, 2000 list.

[F] The Ratio is determined by dividing the maximum 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 307
## Marine Corps Air Station, El Toro

| Detected Chemical | Maximum TAA 307 Soil Concentration (mg/kg) | MCAS El Toro Background Concentration[A] (mg/kg) | CANCER | | | NON-CANCER | | |
|---|---|---|---|---|---|---|---|---|
| | | | Industrial PRG[B] (mg/kg) | TAA 307 Maximum Ratio[C] | MCAS El Toro Background Ratio[D] | Industrial PRG[E] (mg/kg) | TAA 307 Maximum Ratio[F] | MCAS El Toro Background Ratio[F] |
| **ORGANICS** | | | | | | | | |
| 4,4'-DDE | 0.016 | 0.145 | 1.2E+01 | 1.33E-03 | 1.33E-03 | NE | NE | NE |
| 4,4'-DDT | 0.016 | 0.236 | 1.2E+01 | 1.33E-03 | 1.33E-03 | 7.3E+02 | NE | NE |
| Dieldrin | 0.002 | 0.0199 | 1.5E-01 | 1.33E-02 | 1.33E-02 | 4.4E+01 | NE | NE |
| Endrin aldehyde | 0.0029 | 0.00222 | NE | NE | NE | NE | NE | NE |
| alpha-BHC | 0.00091 | NE | 5.9E-01 | 1.54E-03 | 1.54E-03 | NE | NE | NE |
| **METALS** | | | | | | | | |
| Aluminum | 17,300 | 14,800 | NE | NE | NE | 1.7E+06 | 1.02E-02 | 8.71E-03 |
| Arsenic | 3.65 | 6.86 | 2.7E+00 | 1.35E+00 | 1.35E+00 | 4.4E+02 | NE | NE |
| Barium | 239 | 173 | NE | NE | NE | 1.2E+05 | 1.99E-03 | 1.44E-03 |
| Beryllium | 0.607 | 0.669 | 2.2E+03 | 2.76E-04 | 2.76E-04 | 3.7E+03 | NE | NE |
| Chromium | 16.3 | 26.9 | 4.5E+02 | 3.62E-02 | 3.62E-02 | NE | NE | NE |
| Cobalt | 6.96 | 6.98 | NE | NE | NE | 1.2E+05 | NE | NE |
| Copper | 32.9 | 10.5 | NE | NE | NE | 7.6E+04 | 4.33E-04 | 1.38E-04 |
| Iron | 19,800 | 18,400 | NE | NE | NE | 1.0E+05 | 1.98E-01 | 1.84E-01 |
| Lead | 12.8 | 15.1 | NE | NE | NE | 7.5E+02 | NE | NE |
| Manganese | 300 | 291 | NE | NE | NE | 3.2E+04 | 9.38E-03 | 9.09E-03 |
| Molybdenum | 2.18 | NE | NE | NE | NE | 1.0E+04 | 2.18E-04 | NE |
| Nickel | 10.3 | 15.3 | NE | NE | NE | 4.1E+04 | NE | NE |
| Vanadium | 46.7 | 71.8 | NE | NE | NE | 1.4E+04 | NE | NE |
| Zinc | 66.6 | 77.9 | NE | NE | NE | 1.0E+05 | NE | NE |
| Subtotal sum of ratios | | | | 1.41E+00 | 1.41E+00 | | 2.20E-01 | 2.03E-01 |
| **MCAS EL TORO BACKGROUND RISK** | | | **CANCER RISK** | | **1.41E-06** | | | |
| **TAA 307 SUMMED RISK** | | | **CANCER RISK** | **1.41E-06** | | **NON-CANCER HAZARD INDEX** | **0.2** | |
| **TAA 307 RISK LESS BACKGROUND RISK (NET RISK)** | | | **NET CANCER RISK** | **$<1x10^{-6}$** | | | | |

[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, November 22, 2000 list.
[C] The Ratio is determined by dividing the maximum 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, November 22, 2000 list.
[F] The Ratio is determined by dividing the maximum 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
## Hazard Index By Target Organ System Endpoint, TAA 307
## Marine Corps Air Station, El Toro

| Detected Chemical | Maximum TAA 307 Soil Concentration (mg/kg) | MCAS El Toro Background Concentration (mg/kg) | Residential PRG[B] (mg/kg) | TAA 307 Maximum Ratio[C] | Target Organ[C] Hazard Index[D] | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Soft Tissue | Central Nervous System | Respiratory Tract | Repro-ductive System |
| **METAL CONTRIBUTORS** | | | | | | | | |
| Aluminum | 17,300 | 14,800 | 7.6E+04 | 2.3E-01 | | 2.28E-01 | 2.28E-01 | |
| Iron | 19,800 | 18,400 | 2.3E+04 | 8.6E-01 | 8.61E-01 | | | |
| Manganese | 300 | 291 | 1.8E+03 | 1.7E-01 | | 1.67E-01 | 1.67E-01 | 1.67E-01 |
| Subtotal sum of ratios | | | | 1.26E+00 | 8.61E-01 | 3.94E-01 | 3.94E-01 | 1.67E-01 |
| | | | **NON-CANCER HAZARD INDEX** | **1.3** | **0.9** | **0.4** | **0.4** | **0.2** |

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

[B] Residential soil PRGs for non-cancer from the EPA Region 9, November 22, 2000 list.

[C] The primary target organs were identified from toxicity profiles available on the Risk Assessment Information System website or IRIS.

[D] The Ratio is determined by dividing the maximum concentration by the respective PRG.

mg/kg - Milligrams per kilogram.

PRG - Preliminary remediation goal.

# Final

# Marine Corps Air Station El Toro Hazardous Material/Hazardous Waste Management Plan

August 1994

## Appendices A - G

Prepared for:

Southwest Division Naval Facilities Engineering Command
1220 Pacific Highway
San Diego, CA 92132-5190

Prepared by:

Science Applications International Corporation
Engineering Sciences Division
10260 Campus Point Drive
San Diego, CA 92121

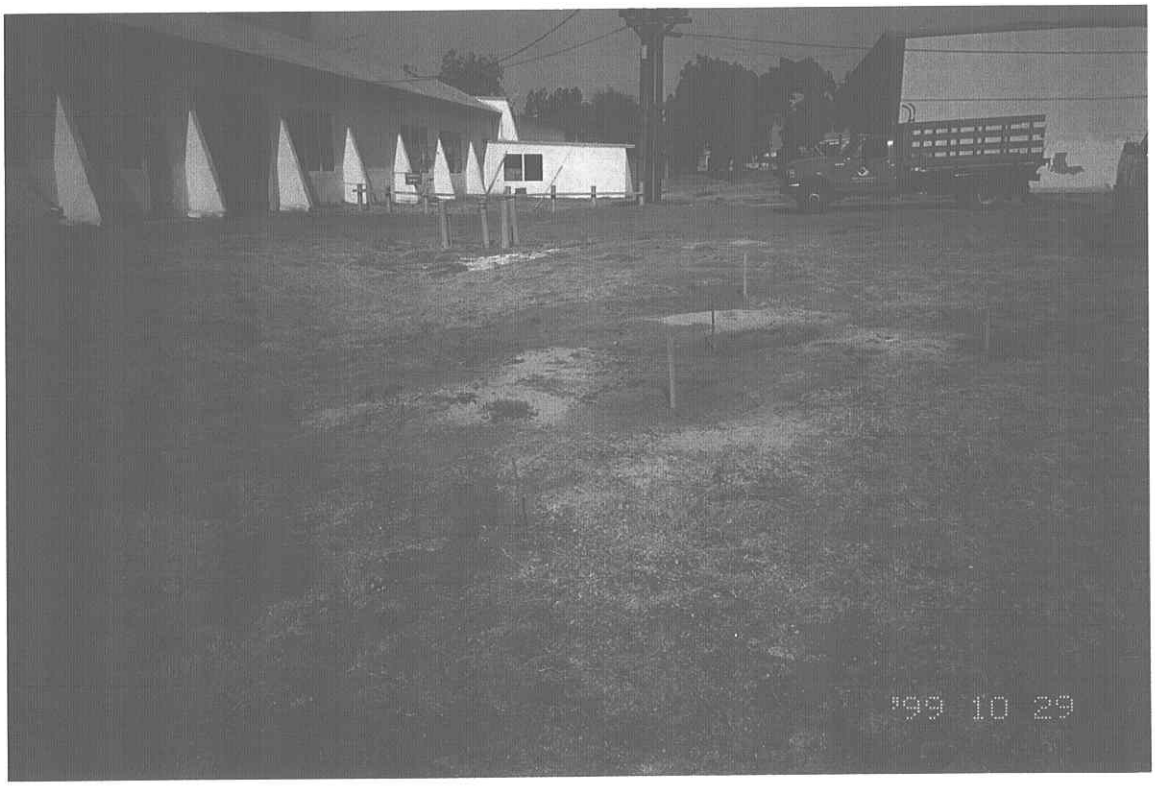
Contract No. N68711-92-D-4658
Delivery Order No. 0004

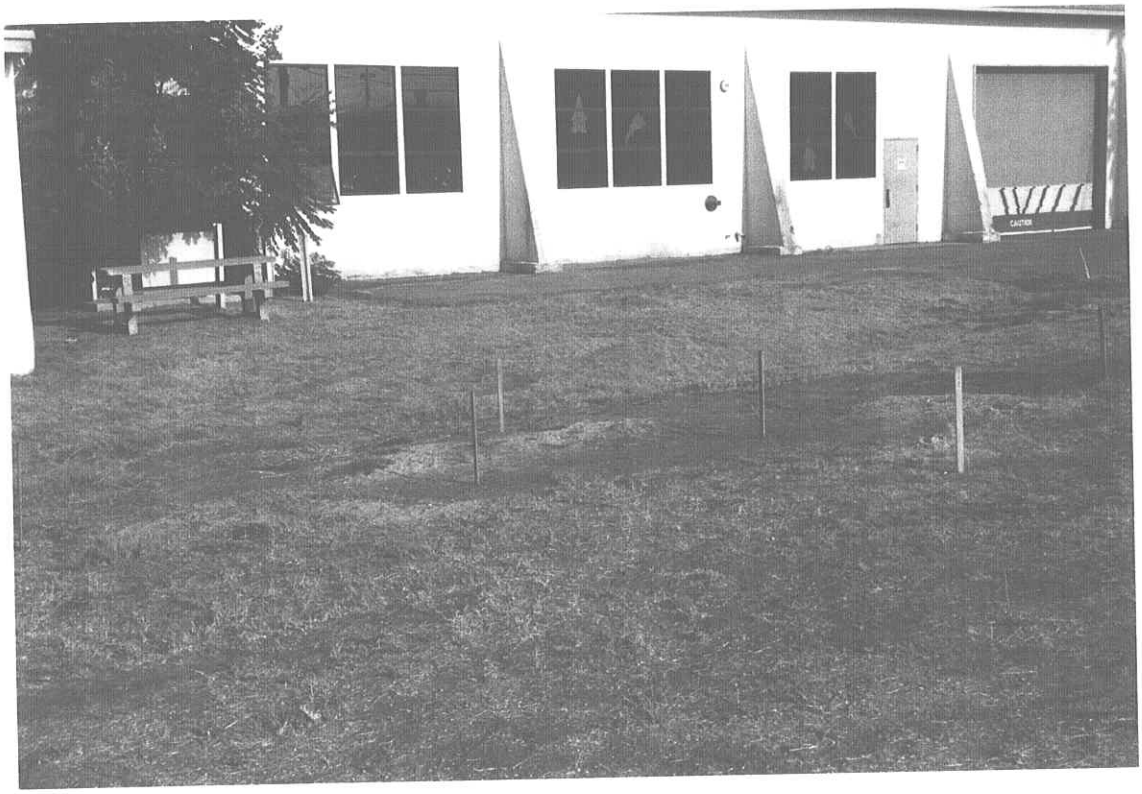
# *Appendix A*
# *Background Information*

Marine Aviation Logistics Squadron 11 ( MALS 11), GSE North Bldg 392

Squadron Operations & Maintenance Squadron (SOMS), Recovery Bldg 307

# *Appendix B*
# *Site Photographs*



1. Location of TAA 307.

# *Appendix C*
# *Site Assessment Log*

# SITE ASSESSMENT LOG

**MCAS EL TORO**

***TEMPORARY ACCUMULATION AREA & RFA SITE***

**18609, D.O. 70**

TAA SITE: 307 RFA SITE: N/A SWMU NO. N/A

**Field Observations by:** D. Rawal **Date:** 10/15/97

**TAA area**: Paved or (Unpaved) Former TAA 307 was a temporary Sandbag bermed Plastic Sheet type TAA to store waste drums near Building 307.

**Paved:** Concrete or Asphalt, Condition of the Concrete/Asphalt: Minor Cracks, Stains, etc.

Unpaved area no sign of TAA, at the time of field visit TAA was used

**Unpaved**: Open on the Ground or Inside the Building temporarily from Appx. 1992 to 1993.

Is there any Drums or any types of Waste Stored: Yes/No, If Yes, Describe:

NO TAA, Drums or any kind of waste observed.

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

Temporary Sandbag, Plastic Sheet TAA.

Describe other Structural details:

No TAA was present, TAA was temporary for storage of drums.

TAA Decontamination and/or Demolition Possible: Yes/No N/A, Unpaved area TAA was dismantled & Removed.

Site Setup Constrains: Equipment Operation, movement of Excavator or Backhoe

— NONE —

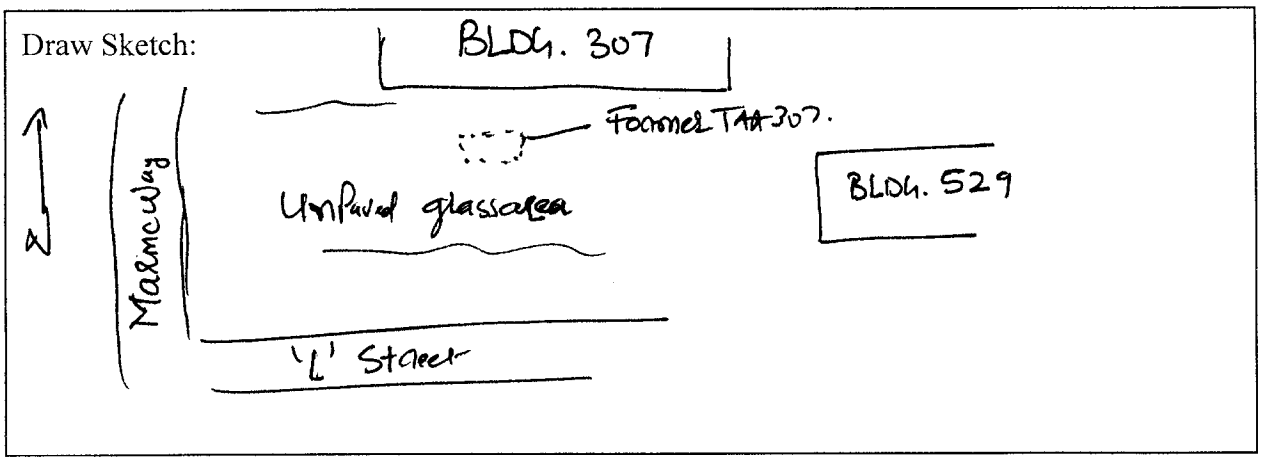
Nearest Building or Structure Distance: Bldg. 307, Appx. 25 feet South,

Any Underground Piping/Lines, or Transformer Observed: None

Overhead Utility Lines/Poles: NONE

Photograph Roll No. 56 Please attach all the Photographs to this sheet.

Draw Sketch:



# *Appendix D*
# *Land Survey Data*

# MCAS, EL TORO

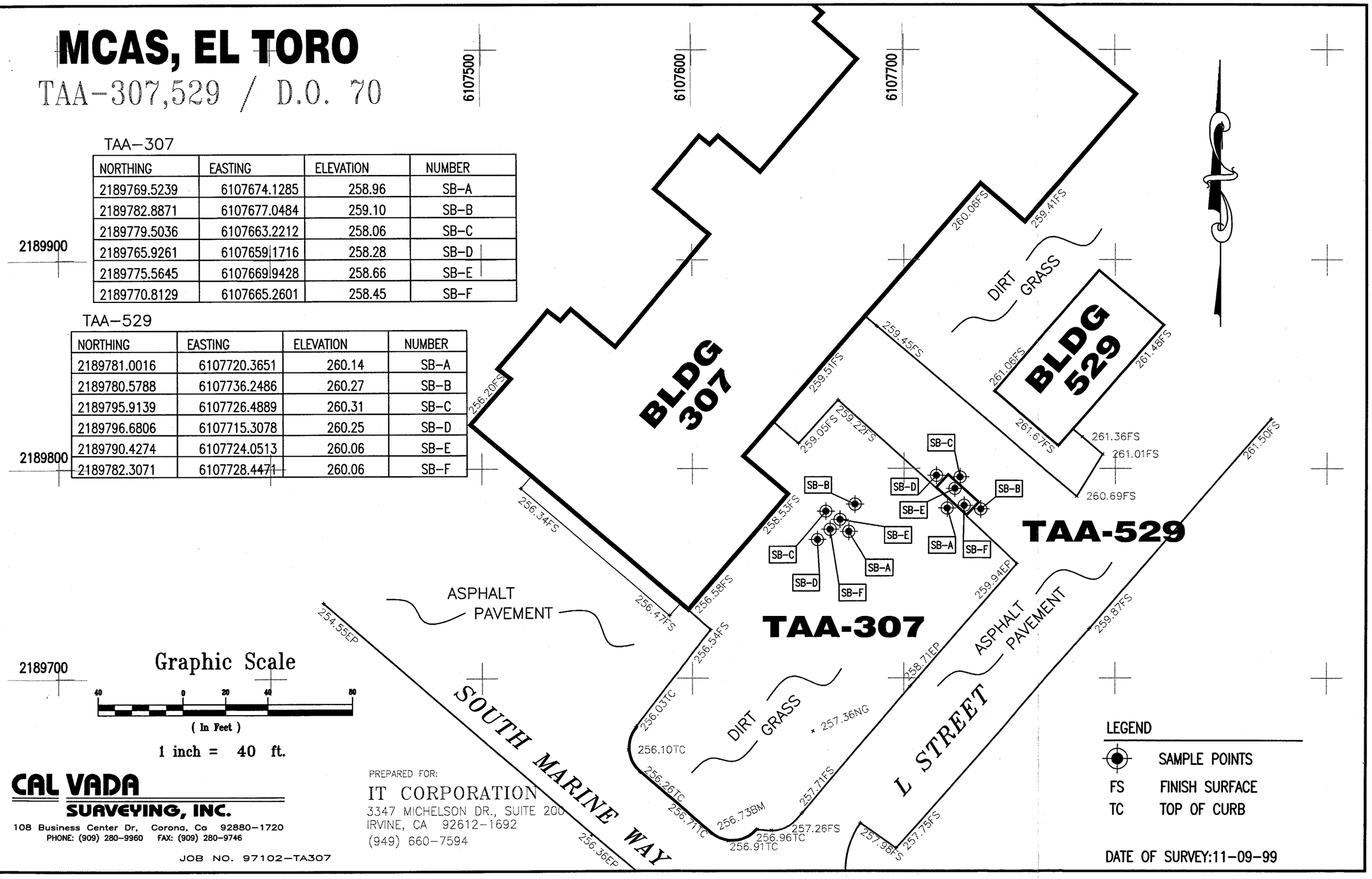
## TAA-307,529 / D.O. 70

TAA-307

| NORTHING | EASTING | ELEVATION | NUMBER |
|---|---|---|---|
| 2189769.5239 | 6107674.1285 | 258.96 | SB-A |
| 2189782.8871 | 6107677.0484 | 259.10 | SB-B |
| 2189779.5036 | 6107663.2212 | 258.06 | SB-C |
| 2189765.9261 | 6107659.1716 | 258.28 | SB-D |
| 2189775.5645 | 6107669.9428 | 258.66 | SB-E |
| 2189770.8129 | 6107665.2601 | 258.45 | SB-F |

TAA-529

| NORTHING | EASTING | ELEVATION | NUMBER |
|---|---|---|---|
| 2189781.0016 | 6107720.3651 | 260.14 | SB-A |
| 2189780.5788 | 6107736.2486 | 260.27 | SB-B |
| 2189795.9139 | 6107726.4889 | 260.31 | SB-C |
| 2189796.6806 | 6107715.3078 | 260.25 | SB-D |
| 2189790.4274 | 6107724.0513 | 260.06 | SB-E |
| 2189782.3071 | 6107728.4471 | 260.06 | SB-F |




Graphic Scale

40 0 20 40 80

( In Feet )

1 inch = 40 ft.

LEGEND

| | |
|---|---|
| ⊕ | SAMPLE POINTS |
| FS | FINISH SURFACE |
| TC | TOP OF CURB |


CAL VADA SURVEYING, INC.

108 Business Center Dr, Corona, Ca 92880-1720

PHONE: (909) 280-9960 FAX: (909) 280-9746


JOB NO. 97102-TA307

PREPARED FOR:

IT CORPORATION

3347 MICHELSON DR., SUITE 200

IRVINE, CA 92612-1692

(949) 660-7594

DATE OF SURVEY:11-09-99

# *Appendix E*
# *Laboratory Analytical Reports*

the IT group

IT Corporation
2790 Mosside Blvd.
Monroeville, PA 15146-2792
(412)372-7701

# CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

A 10008

99J137 TAA307

FORM 0019 REV. 9-99

| | | | | | |
|---|---|---|---|---|---|
| IT'S LAB COORDINATOR: L. Bienkowski | LAB COORDINATOR'S PHONE: 949-660-7537 | LAB COORDINATOR'S FAX: 949-475-5433 | LABORATORY SERVICE ID: 99J142 | LABORATORY CONTACT: EMAX | MAIL REPORT (COMPANY NAME): IT Corp. |
| PROJECT NAME: MCAS El Toro | PROJECT LOCATION: El Toro, CA DO#70 | PROJECT NUMBER: 186009 | LABORATORY PHONE: 310-618-8889 | LABORATORY FAX: — | RECIPIENT NAME: Duane Ishida |
| PROJECT CONTACT: L. Bienkowski | PROJECT PHONE NUMBER: 949-660-7537 | PROJECT FAX: — | LABORATORY ADDRESS: 630 Maple | | ADDRESS: 3347 Michelson Suite 200 |
| PROJECT ADDRESS: — | CITY, STATE AND ZIP CODE: — | CLIENT: SWDIV | CITY, STATE AND ZIP CODE: Torrance, CA | | CITY, STATE AND ZIP CODE: Irvine, CA |
| PROJECT MANAGER: B. Brian Sedlak | PROJECT MANAGER'S PHONE: 949-660-5446 | PROJECT MANAGER'S FAX: — | | | |

| Item | Sample Identifier | Matrix | Date (1999) | Time | Preserved | # of Cont. | QC Level | T.A.T. | EPA 8260 | EPA 8270+SIM | EPA 8081 | 8015-GAS | 8015-JP-5 | 8015-Diesel | EPA 6010/7000 | EPA 9010 CYS | EPA 9045 (pH) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 186009-2347 | Soil | 10-26 | 1400 | 4°C | 1 | 3 | 5day | X | X | X | X | X | X | X | X | X | For EPA 6010/7000 Please run total metals |
| 2 | 186009-2348 | Soil | 10-26 | 1415 | 4°C | 1 | 3 | 5day | X | X | X | X | X | X | X | X | X | |
| 3 | 186009-2349 | ~~Soil~~ Water | 10-26 | 1430 | 4°C | 2 | 3 | 5day | X | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |

W) 10/26/99

SAMPLES COLLECTED BY: W. Jefferson

COURIER AND AIR BILL NUMBER: COURIER

COOLER TEMPERATURE UPON RECEIPT:

| RELINQUISHED BY | RECEIVED BY | DATE | TIME | SAMPLE'S CONDITION UPON RECEIPT |
|---|---|---|---|---|
| [illegible] | [illegible] | 10/27/99 | 3:20 | |

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

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

TAA307

| Sample Point Location | Sample Type G | C | F | QC |
|---|---|---|---|---|
| 1. TAA307-SB~~A~~B 1.5'-2.0' bgs | X | | | |
| 2. TAA307-SB~~A~~B 3.0'-3.5' bgs | X | | | |
| ~~3.~~ Trip Blank | X | | | |
| ~~4.~~ | | | | |

Comments

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

0004441-IN

4359C

EMAX
LABORATORIES, INC.
630 Maple Ave.
Torrance, CA 90503
Telephone: (310) 618-8889
Fax: (310) 618-0818

Date: 12-10-1999
EMAX Batch No.: 99J137

Attn: Mr. Dwayne Ishida

IT Corporation
3347 Michelson Dr. # 200
Irvine CA 92612

Subject: Laboratory Report
Project: MCAS El Toro/18609/D.O. 70

---

Enclosed is the Laboratory report for samples received on 10/27/99. The data reported include :

| Sample ID | Control # | Col Date | Matrix | Analysis |
|---|---|---|---|---|
| 18609-2347 | J137-01 | 10/26/99 | Soil | EPA 8260 |
| | | | | EPA 8270-SIM |
| | | | | EPA 8081 |
| | | | | EPA 5030/M8015 |
| | | | | EPA M8015 |
| | | | | Metals |
| | | | | Mercury |
| | | | | Cyanide |
| | | | | pH |
| | | | | EPA M8015 (JP-5) |
| | | | | EPA 8270 |
| 18609-2348 | J137-02 | 10/26/99 | Soil | EPA 8260 |
| | | | | EPA 8270-SIM |
| | | | | EPA 8081 |
| | | | | EPA 5030/M8015 |
| | | | | EPA M8015 |
| | | | | Mercury |
| | | | | Metals |
| | | | | Cyanide |

| Sample ID | Control # | Col Date | Matrix | Analysis |
|---|---|---|---|---|
| | | | | pH |
| | | | | EPA M8015 (JP-5) |
| | | | | EPA 8270 |
| 18609-2349 | J137-03 | 10/26/99 | Water | EPA 8260 |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director



EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION
(DIESEL)

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 99J137

Matrix : SOIL
Instrument ID : GCT043

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | SUR1 (%) | SUR2 (%) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Receive DATETIM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | DSJ038SB | ND | 83 | 82 | 1 | NA | 10 | 6 | 10/29/9918:02 | 10/28/9916:00 | DJ14-4 | DJ14-3 | DSJ038S | NA | 10/28/9 |
| LCS1S | DSJ038SL | 369 | 88 | 85 | 1 | NA | 10 | 6 | 10/29/9918:42 | 10/28/9916:00 | DJ14-5 | DJ14-3 | DSJ038S | NA | 10/28/9 |
| LCD1S | DSJ038SC | 355 | 90 | 87 | 1 | NA | 10 | 6 | 10/29/9920:01 | 10/28/9916:00 | DJ14-7 | DJ14-3 | DSJ038S | NA | 10/28/9 |
| 18609-2347 | J137-01 | ND | 83 | 85 | 1 | 9.8 | 11 | 6.7 | 11/01/9923:33 | 10/28/9916:00 | DK01-20 | DK01-16 | DSJ039S | 10/26/99 | 10/27/9 |
| 18609-2348 | J137-02 | ND | 82 | 84 | 1 | 8.2 | 11 | 6.5 | 11/02/9900:12 | 10/28/9916:00 | DK01-21 | DK01-16 | DSJ039S | 10/26/99 | 10/27/9 |

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
H-C RANGE: C7-C18 = JP-5
C6-C12 = Gas
C10-C24 = Diesel
C18-C34 = Motor Oil
E : Value exceed the upper level of the initial calibration
D : Value from dilution

5006

THOD M8015

TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

(JP5)

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 99J137

Matrix : SOIL
Instrument ID : GCT043

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | SUR1 (%) | SUR2 (%) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Receive DATETIM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | DSJ038SB | ND | 83 | 82 | 1 | NA | 10 | 6 | 10/29/9918:02 | 10/28/9916:00 | DJ14-4 | DJ14-3 | DSJ038S | NA | 10/28/9 |
| LCS3S | DSJ039SL | 430 | 89 | 77 | 1 | NA | 10 | 6 | 11/01/9922:14 | 10/28/9916:00 | DK01-18 | DK01-16 | DSJ039S | NA | 10/28/9 |
| LCD3S | DSJ039SC | 378 | 81 | 69 | 1 | NA | 10 | 6 | 11/01/9922:54 | 10/28/9916:00 | DK01-19 | DK01-16 | DSJ039S | NA | 10/28/9 |
| 18609-2347 | J137-01 | ND | 83 | 85 | 1 | 9.8 | 11 | 6.7 | 11/01/9923:33 | 10/28/9916:00 | DK01-20 | DK01-16 | DSJ039S | 10/26/99 | 10/27/9 |
| 18609-2348 | J137-02 | ND | 82 | 84 | 1 | 8.2 | 11 | 6.5 | 11/02/9900:12 | 10/28/9916:00 | DK01-21 | DK01-16 | DSJ039S | 10/26/99 | 10/27/9 |

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
H-C RANGE: C7-C18 = JP-5
C6-C12 = Gas
C10-C24 = Diesel
C18-C34 = Motor Oil
E : Value exceed the upper level of the initial calibration
D : Value from dilution

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J137
METHOD: METHOD M8015

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSJ038SB | DSJ038SL | DSJ038SC | | |
| LAB FILE ID: | DJ14-4 | DJ14-5 | DJ14-7 | | |
| DATE EXTRACTED: | 10/28/9916:00 | 10/28/9916:00 | 10/28/9916:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 10/29/9918:02 | 10/29/9918:42 | 10/29/9920:01 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | DSJ038S | DSJ038S | DSJ038S | | |
| CALIB. REF: | DJ14-3 | DJ14-3 | DJ14-3 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | ND | 500 | 369 | 74 | 500 | 355 | 71 | 4 | 51-153 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 100 | 87.7 | 88 | 100 | 90.3 | 90 | 60-140 |
| Hexacosane | 100 | 84.9 | 85 | 100 | 87.3 | 87 | 55-150 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: 99J137
ETHOD: METHOD M8015

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| ILUTION FACTOR: | 1 | 1 | 1 | | |
| AMPLE ID: | MBLK1S | | | | |
| AB SAMP ID: | DSJ038SB | DSJ039SL | DSJ039SC | | |
| LAB FILE ID: | DJ14-4 | DK01-18 | DK01-19 | | |
| DATE EXTRACTED: | 10/28/9916:00 | 10/28/9916:00 | 10/28/9916:00 | DATE COLLECTED: | NA |
| ATE ANALYZED: | 10/29/9918:02 | 11/01/9922:14 | 11/01/9922:54 | DATE RECEIVED: | 10/27/99 |
| REP. BATCH: | DSJ038S | DSJ038S | DSJ038S | | |
| ALIB. REF: | DJ14-3 | DK01-16 | DK01-16 | | |

ACCESSION:

| ARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| JP5 | ND | 500 | 430 | 86 | 500 | 378 | 76 | 12 | 61-143 | 30 |

| URROGATE PARAMETER | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| omobenzene | 100 | 88.5 | 89 | 100 | 80.8 | 81 | 65-135 |
| exacosane | 100 | 77.1 | 77 | 100 | 69.2 | 69 | 60-145 |

METHOD 5030A/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 99J137

Matrix : SOIL
Instrument ID : GCT039

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | SURR (%) | DLF | MOIST | PRL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | VAJ4339B | ND | 80 | 1 | NA | 1 | .09 | 11/01/9900:17 | 11/01/9900:17 | EJ18-4 | EJ18-3 | VAJ4339 | NA | NA |
| LCS1S | VAJ4339L | 5.29 | 91 | 1 | NA | 1 | .09 | 11/01/9900:53 | 11/01/9900:53 | EJ18-5 | EJ18-3 | VAJ4339 | NA | NA |
| LCD1S | VAJ4339C | 4.93 | 90 | 1 | NA | 1 | .09 | 11/01/9901:28 | 11/01/9901:28 | EJ18-6 | EJ18-3 | VAJ4339 | NA | NA |
| 18609-2347 | J137-01 | ND | 80 | 1 | 9.8 | 1.1 | .098 | 11/01/9902:03 | 11/01/9902:03 | EJ18-7 | EJ18-3 | VAJ4339 | 10/26/99 | 10/27/99 |
| 18609-2348 | J137-02 | ND | 73 | 1 | 8.2 | 1.1 | .098 | 11/01/9902:39 | 11/01/9902:39 | EJ18-8 | EJ18-3 | VAJ4339 | 10/26/99 | 10/27/99 |
| 18609-2348MS | J137-02M | 5.48 | 87 | 1 | 8.2 | 1.09 | .098 | 11/01/9903:14 | 11/01/9903:14 | EJ18-9 | EJ18-3 | VAJ4339 | 10/26/99 | 10/27/99 |
| 18609-2348MSD | J137-02S | 5.29 | 86 | 1 | 8.2 | 1.09 | .098 | 11/01/9903:49 | 11/01/9903:49 | EJ18-10 | EJ18-3 | VAJ4339 | 10/26/99 | 10/27/99 |

SURR : Bromofluorobenzene
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: 99J137
D: METHOD 5030A/M8015

| | | | | | |
|---|---|---|---|---|---|
| ATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| B SAMP ID: | VAJ4339B | VAJ4339L | VAJ4339C | | |
| B FILE ID: | EJ18-4 | EJ18-5 | EJ18-6 | | |
| DATE EXTRACTED: | 11/01/9900:17 | 11/01/9900:53 | 11/01/9901:28 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 11/01/9900:17 | 11/01/9900:53 | 11/01/9901:28 | DATE RECEIVED: | |
| EP. BATCH: | VAJ4339 | VAJ4339 | VAJ4339 | | |
| LIB. REF: | EJ18-3 | EJ18-3 | EJ18-3 | | |

ACCESSION:

| RAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| asoline | ND | 5.5 | 5.29 | 96 | 5.5 | 4.93 | 90 | 7 | 57-146 | 50 |

| RROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromofluorobenzene | .25 | .227 | 91 | .25 | .224 | 90 | 60-140 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J137
METHOD: METHOD 5030A/M8015

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 8.2 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | 18609-2348 | | | | |
| LAB SAMP ID: | J137-02 | J137-02M | J137-02S | | |
| LAB FILE ID: | EJ18-8 | EJ18-9 | EJ18-10 | | |
| DATE EXTRACTED: | 11/01/9902:39 | 11/01/9903:14 | 11/01/9903:49 | DATE COLLECTED: | 10/26/99 |
| DATE ANALYZED: | 11/01/9902:39 | 11/01/9903:14 | 11/01/9903:49 | DATE RECEIVED: | 10/27/99 |
| PREP. BATCH: | VAJ4339 | VAJ4339 | VAJ4339 | | |
| CALIB. REF: | EJ18-3 | EJ18-3 | EJ18-3 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline | ND | 5.99 | 5.48 | 91 | 5.99 | 5.29 | 88 | 4 | 57-146 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromofluorobenzene | .272 | .236 | 87 | .272 | .235 | 86 | 60-140 |

SW3550A/8081
PESTICIDES/PCBS

| | | | |
|---|---|---|---|
| ient | : IT CORPORATION | Date Collected: | 10/26/99 |
| F ct | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/27/99 |
| Batch No. | : 99J137 | Date Extracted: | 10/28/99 12:00 |
| mple ID: | 18609-2347 | Date Analyzed: | 10/29/99 04:25 |
| b Samp ID: | J137-01 | Dilution Factor: | 1 |
| Lab File ID: | WJ28020A | Matrix : | SOIL |
| t Btch ID: | CPJ023S | % Moisture : | 9.8 |
| lib. Ref.: | WJ28003A | Instrument ID : | GCT016 |

| RAMETERS | RESULTS (mg/kg) | PQL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| PHA-BHC | (ND)\|ND | .0021 | .00045\|.00038 |
| MMA-BHC (LINDANE) | (ND)\|ND | .022 | .00035\|.00045 |
| BETA-BHC | (ND)\|ND | .037 | .00028\|.00019 |
| HEPTACHLOR | .0019J\|(ND) | .022 | .0004\|.00043 |
| TA-BHC | (ND)\|.0018J | .012 | .00025\|.00023 |
| RIN | (ND)\|ND | .017 | .00026\|.00021 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | .023 | .00033\|.00033 |
| MMA-CHLORDANE | (ND)\|ND | .017 | .00046\|.00082 |
| HA-CHLORDANE | (ND)\|ND | .017 | .00067\|.00043 |
| ENDOSULFAN I | (ND)\|ND | .023 | .00053\|.00047 |
| 4,4'-DDE | (ND)\|ND | .047 | .0005\|.00051 |
| LDRIN | (ND)\|ND | .039 | .00032\|.00024 |
| RIN | (ND)\|ND | .04 | .00026\|.00024 |
| 4,4'-DDD | (ND)\|ND | .0033 | .00036\|.00038 |
| ENDOSULFAN II | (ND)\|ND | .027 | .00049\|.00047 |
| 4 DT | (ND)\|ND | .0033 | .00025\|.00025 |
| ENDRIN ALDEHYDE | (ND)\|ND | .018 | .00022\|.00014 |
| ENDOSULFAN SULFATE | (ND)\|ND | .04 | .00044\|.00038 |
| M HOXYCHLOR | (ND)\|ND | .063 | .00025\|.00022 |
| T APHENE | (ND)\|ND | .78 | .0013\|.0023 |
| PCB-1016 | (ND)\|ND | .78 | .013\|.012 |
| PCB-1221 | (ND)\|ND | .78 | .0089\|.008 |
| P -1232 | (ND)\|ND | .78 | .037\|.041 |
| P -1242 | (ND)\|ND | .78 | .015\|.015 |
| PCB-1248 | (ND)\|ND | .78 | .03\|.035 |
| P -1254 | (ND)\|ND | .78 | .039\|.043 |
| P -1260 | (ND)\|ND | .78 | .0063\|.0067 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| RACHLORO-M-XYLENE | (79)\|77 | 35-135 |
| DECACHLOROBIPHENYL | (84)\|82 | 25-143 |

P : Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550A/8081
PESTICIDES/PCBS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/26/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/27/99 |
| Batch No. | : 99J137 | Date Extracted: | 10/28/99 12:00 |
| Sample ID: | 18609-2348 | Date Analyzed: | 10/29/99 04:57 |
| Lab Samp ID: | J137-02 | Dilution Factor: | 1 |
| Lab File ID: | WJ28021A | Matrix : | SOIL |
| Ext Btch ID: | CPJ023S | % Moisture : | 8.2 |
| Calib. Ref.: | WJ28003A | Instrument ID : | GCT016 |

| PARAMETERS | RESULTS (mg/kg) | PQL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | .0021 | .00044\|.00037 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | .022 | .00034\|.00044 |
| BETA-BHC | (ND)\|ND | .036 | .00028\|.00019 |
| HEPTACHLOR | (ND)\|ND | .022 | .0004\|.00042 |
| DELTA-BHC | (ND)\|ND | .012 | .00024\|.00023 |
| ALDRIN | (ND)\|ND | .016 | .00026\|.00021 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | .023 | .00032\|.00032 |
| GAMMA-CHLORDANE | (ND)\|ND | .016 | .00045\|.00081 |
| ALPHA-CHLORDANE | (ND)\|ND | .016 | .00066\|.00042 |
| ENDOSULFAN I | (ND)\|ND | .023 | .00052\|.00046 |
| 4,4'-DDE | (ND)\|ND | .046 | .00049\|.0005 |
| DIELDRIN | (ND)\|ND | .038 | .00031\|.00024 |
| ENDRIN | (ND)\|ND | .039 | .00026\|.00023 |
| 4,4'-DDD | (ND)\|ND | .0033 | .00036\|.00038 |
| ENDOSULFAN II | (ND)\|ND | .026 | .00048\|.00046 |
| 4,4'-DDT | (ND)\|ND | .0033 | .00025\|.00024 |
| ENDRIN ALDEHYDE | (ND)\|ND | .017 | .00022\|.00014 |
| ENDOSULFAN SULFATE | (ND)\|ND | .039 | .00043\|.00037 |
| METHOXYCHLOR | (ND)\|ND | .062 | .00024\|.00021 |
| TOXAPHENE | (ND)\|ND | .76 | .0013\|.0023 |
| PCB-1016 | (ND)\|ND | .76 | .013\|.012 |
| PCB-1221 | (ND)\|ND | .76 | .0088\|.0078 |
| PCB-1232 | (ND)\|ND | .76 | .036\|.04 |
| PCB-1242 | (ND)\|ND | .76 | .015\|.014 |
| PCB-1248 | (ND)\|ND | .76 | .03\|.035 |
| PCB-1254 | (ND)\|ND | .76 | .038\|.042 |
| PCB-1260 | (ND)\|ND | .76 | .0062\|.0066 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| TETRACHLORO-M-XYLENE | 82\|(88) | 35-135 |
| DECACHLOROBIPHENYL | (89)\|87 | 25-143 |

PQL: Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550A/8081
PESTICIDES/PCBS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | NA |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J137 | Date Extracted: | 10/28/99 12:00 |
| Sample ID: | MBLK1S | Date Analyzed: | 10/28/99 21:41 |
| Lab Samp ID: | CPJ023SB | Dilution Factor: | 1 |
| Lab File ID: | WJ28007A | Matrix : | SOIL |
| Batch ID: | CPJ023S | % Moisture : | NA |
| Calib. Ref.: | WJ28003A | Instrument ID : | GCT016 |

| PARAMETERS | RESULTS (mg/kg) | PQL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | .0019 | .0004\|.00034 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | .02 | .00032\|.00041 |
| BETA-BHC | (ND)\|ND | .033 | .00026\|.00017 |
| HEPTACHLOR | (ND)\|ND | .02 | .00036\|.00039 |
| DELTA-BHC | (ND)\|ND | .011 | .00022\|.00021 |
| ALDRIN | (ND)\|ND | .015 | .00024\|.00019 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | .021 | .00029\|.0003 |
| GAMMA-CHLORDANE | (ND)\|ND | .015 | .00041\|.00074 |
| ALPHA-CHLORDANE | (ND)\|ND | .015 | .0006\|.00039 |
| ENDOSULFAN I | (ND)\|ND | .021 | .00047\|.00042 |
| 4,4'-DDE | (ND)\|ND | .042 | .00045\|.00046 |
| DIELDRIN | (ND)\|ND | .035 | .00029\|.00022 |
| ENDRIN | (ND)\|ND | .036 | .00024\|.00021 |
| 4,4'-DDD | (ND)\|ND | .003 | .00033\|.00035 |
| ENDOSULFAN II | (ND)\|ND | .024 | .00045\|.00042 |
| 4,4'-DDT | (ND)\|ND | .003 | .00023\|.00022 |
| ENDRIN ALDEHYDE | (ND)\|ND | .016 | .0002\|.00013 |
| ENDOSULFAN SULFATE | (ND)\|ND | .036 | .00039\|.00034 |
| METHOXYCHLOR | (ND)\|ND | .057 | .00022\|.0002 |
| TOXAPHENE | (ND)\|ND | .7 | .0012\|.0021 |
| PCB-1016 | (ND)\|ND | .7 | .012\|.011 |
| PCB-1221 | (ND)\|ND | .7 | .0081\|.0072 |
| PCB-1232 | (ND)\|ND | .7 | .033\|.037 |
| PCB-1242 | (ND)\|ND | .7 | .014\|.013 |
| PCB-1248 | (ND)\|ND | .7 | .027\|.032 |
| PCB-1254 | (ND)\|ND | .7 | .035\|.039 |
| PCB-1260 | (ND)\|ND | .7 | .0057\|.006 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| TETRACHLORO-M-XYLENE | 90\|(90) | 35-135 |
| DECACHLOROBIPHENYL | (92)\|91 | 25-143 |

PQL Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J137
METHOD: SW3550A/8081

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | CPJ023SB | CPJ023SL | CPJ023SC | | |
| LAB FILE ID: | WJ28007A | WJ28008A | WJ28009A | | |
| DATE EXTRACTED: | 10/28/9912:00 | 10/28/9912:00 | 10/28/9912:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 10/28/9921:41 | 10/28/9922:12 | 10/28/9922:43 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | CPJ023S | CPJ023S | CPJ023S | | |
| CALIB. REF: | WJ28003A | WJ28003A | WJ28003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| gamma-BHC (Lindane) | (ND)\|ND | .0167 | (.0145J)\|.0144J | (87)\|86 | .0167 | (.0135J)\|.0132J | (81)\|79 | (7)\|9 | 33-130 | 50 |
| Heptachlor | (ND)\|ND | .0167 | .0132J\|(.0135J) | 79\|(81) | .0167 | .0123J\|(.0125J) | 74\|(75) | 7\|(8) | 35-138 | 50 |
| Aldrin | (ND)\|ND | .0167 | .014J\|(.015) | 84\|(90) | .0167 | .0128J\|(.0137J) | 77\|(82) | 9\|(9) | 37-126 | 50 |
| Dieldrin | (ND)\|ND | .0333 | .031J\|(.0319J) | 93\|(96) | .0333 | .0301J\|(.0312J) | 90\|(94) | 3\|(2) | 32-142 | 50 |
| Endrin | (ND)\|ND | .0333 | .0302J\|(.0304J) | 91\|(91) | .0333 | (.0294J)\|.0294J | (88)\|88 | (3)\|3 | 33-144 | 50 |
| 4,4'-DDT | (ND)\|ND | .0333 | (.0312)\|.029 | (94)\|87 | .0333 | (.0306)\|.0278 | (92)\|83 | (2)\|4 | 25-153 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | .0133 | (.0116)\|.0116 | 87\|(87) | .0133 | (.0108)\|.0108 | 81\|(81) | 35-133 |
| Decachlorobiphenyl | .0133 | .0119\|(.012) | 89\|(90) | .0133 | .0118\|(.0119) | 89\|(90) | 25-143 |

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| lient | : IT CORPORATION | Date Collected: | 10/26/99 |
| roject | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/27/99 |
| ) No. | : 99J137 | Date Extracted: | 11/05/99 14:25 |
| e ID: | 18609-2347 | Date Analyzed: | 11/05/99 14:25 |
| ab Samp ID: | J137-01 | Dilution Factor: | 1 |
| ab File ID: | RKH106 | Matrix : | SOIL |
| xt Btch ID: | VOK0704 | % Moisture : | 9.8 |
| Calib. Ref.: | RKH101 | Instrument ID : | T-041 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1-TRICHLOROETHANE | ND | 5.5 | .37 |
| 1,2,2-TETRACHLOROETHANE | ND | 5.5 | .37 |
| 1,1,2-TRICHLOROETHANE | ND | 5.5 | .26 |
| 1,1-DICHLOROETHANE | ND | 5.5 | .34 |
| 1-DICHLOROETHENE | ND | 5.5 | .6 |
| 2-DICHLOROETHANE | ND | 5.5 | .36 |
| 2-DICHLOROPROPANE | ND | 5.5 | .42 |
| 2-BUTANONE | ND | 55 | 5.7 |
| 2-CHLOROETHYLVINYLETHER | ND | 55 | .19 |
| HEXANONE | ND | 55 | 1.4 |
| METHYL-2-PENTANONE | ND | 55 | 1.3 |
| ACETONE | ND | 55 | 4.5 |
| BENZENE | ND | 5.5 | .27 |
| OMODICHLOROMETHANE | ND | 5.5 | .29 |
| OMOFORM | ND | 5.5 | .31 |
| BROMOMETHANE | ND | 5.5 | .71 |
| CARBON DISULFIDE | ND | 5.5 | .14 |
| RBON TETRACHLORIDE | ND | 5.5 | .88 |
| LOROBENZENE | ND | 5.5 | .22 |
| LOROETHANE | ND | 5.5 | 2 |
| CHLOROFORM | ND | 5.5 | .47 |
| LOROMETHANE | ND | 5.5 | 2.3 |
| ,2-DICHLOROETHENE | ND | 5.5 | .32 |
| ,3-DICHLOROPROPENE | ND | 5.5 | .25 |
| DIBROMOCHLOROMETHANE | ND | 5.5 | .088 |
| ETHYLBENZENE | ND | 5.5 | .43 |
| BE | ND | 11 | .41 |
| THYLENE CHLORIDE | ND | 5.5 | .45 |
| STYRENE | ND | 5.5 | .49 |
| TETRACHLOROETHENE | ND | 5.5 | .27 |
| LUENE | ND | 5.5 | .35 |
| ANS-1,2-DICHLOROETHENE | ND | 5.5 | .32 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.5 | .74 |
| TRICHLOROETHENE | ND | 5.5 | .28 |
| NYL ACETATE | ND | 55 | .79 |
| NYL CHLORIDE | ND | 5.5 | 1.1 |
| ENES | ND | 5.5 | 1.2 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-DICHLOROETHANE-D4 | 107 | 52-149 |
| TOLUENE-D8 | 102 | 65-135 |
| BROMOFLUOROBENZENE | 87 | 65-135 |

.: Project Reporting Limit
: Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/26/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/27/99 |
| Batch No. | : 99J137 | Date Extracted: | 11/05/99 00:28 |
| Sample ID: | 18609-2348 | Date Analyzed: | 11/05/99 00:28 |
| Lab Samp ID: | J137-02 | Dilution Factor: | 1 |
| Lab File ID: | RKH090 | Matrix : | SOIL |
| Ext Btch ID: | VOK0604 | % Moisture : | 8.2 |
| Calib. Ref.: | RKH082 | Instrument ID : | T-041 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1-TRICHLOROETHANE | ND | 5.4 | .36 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5.4 | .36 |
| 1,1,2-TRICHLOROETHANE | ND | 5.4 | .25 |
| 1,1-DICHLOROETHANE | ND | 5.4 | .33 |
| 1,1-DICHLOROETHENE | ND | 5.4 | .59 |
| 1,2-DICHLOROETHANE | ND | 5.4 | .36 |
| 1,2-DICHLOROPROPANE | ND | 5.4 | .41 |
| 2-BUTANONE | ND | 54 | 5.6 |
| 2-CHLOROETHYLVINYLETHER | ND | 54 | .19 |
| 2-HEXANONE | ND | 54 | 1.4 |
| 4-METHYL-2-PENTANONE | ND | 54 | 1.2 |
| ACETONE | ND | 54 | 4.5 |
| BENZENE | ND | 5.4 | .27 |
| BROMODICHLOROMETHANE | ND | 5.4 | .28 |
| BROMOFORM | ND | 5.4 | .3 |
| BROMOMETHANE | ND | 5.4 | .7 |
| CARBON DISULFIDE | ND | 5.4 | .14 |
| CARBON TETRACHLORIDE | ND | 5.4 | .86 |
| CHLOROBENZENE | ND | 5.4 | .21 |
| CHLOROETHANE | ND | 5.4 | 1.9 |
| CHLOROFORM | ND | 5.4 | .46 |
| CHLOROMETHANE | ND | 5.4 | 2.2 |
| CIS-1,2-DICHLOROETHENE | ND | 5.4 | .32 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.4 | .24 |
| DIBROMOCHLOROMETHANE | ND | 5.4 | .086 |
| ETHYLBENZENE | ND | 5.4 | .43 |
| MTBE | ND | 11 | .4 |
| METHYLENE CHLORIDE | ND | 5.4 | .45 |
| STYRENE | ND | 5.4 | .48 |
| TETRACHLOROETHENE | ND | 5.4 | .26 |
| TOLUENE | ND | 5.4 | .34 |
| TRANS-1,2-DICHLOROETHENE | ND | 5.4 | .31 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.4 | .73 |
| TRICHLOROETHENE | ND | 5.4 | .28 |
| VINYL ACETATE | ND | 54 | .78 |
| VINYL CHLORIDE | ND | 5.4 | 1.1 |
| XYLENES | ND | 5.4 | 1.2 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 98 | 52-149 |
| TOLUENE-D8 | 97 | 65-135 |
| BROMOFLUOROBENZENE | 80 | 65-135 |

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| lient | : IT CORPORATION | Date Collected: | 10/26/99 |
| oject | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/27/99 |
| No. | : 99J137 | Date Extracted: | 11/04/99 22:38 |
| e ID: | 18609-2349 | Date Analyzed: | 11/04/99 22:38 |
| b Samp ID: | J137-03 | Dilution Factor: | 1 |
| b File ID: | RKH087 | Matrix : | WATER |
| xt Btch ID: | VOK0604 | % Moisture : | NA |
| Calib. Ref.: | RKH082 | Instrument ID : | T-041 |

| PARAMETERS | RESULTS (ug/L) | PRL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,1-TRICHLOROETHANE | ND | 5 | 1.1 |
| 1,2,2-TETRACHLOROETHANE | ND | 5 | .49 |
| 1,1,2-TRICHLOROETHANE | ND | 5 | .52 |
| 1-DICHLOROETHANE | ND | 5 | 1.2 |
| 1-DICHLOROETHENE | ND | 5 | 2 |
| 2-DICHLOROETHANE | ND | 5 | .58 |
| 1,2-DICHLOROPROPANE | ND | 5 | .53 |
| 2-BUTANONE | ND | 50 | 7.9 |
| CHLOROETHYLVINYLETHER | ND | 50 | .83 |
| HEXANONE | ND | 50 | 1 |
| 4-METHYL-2-PENTANONE | ND | 50 | 1 |
| ACETONE | ND | 50 | 10 |
| ZENE | ND | 5 | .85 |
| OMODICHLOROMETHANE | ND | 5 | .33 |
| BROMOFORM | ND | 5 | .29 |
| BROMOMETHANE | ND | 5 | 1.5 |
| BON DISULFIDE | ND | 5 | 1.3 |
| BON TETRACHLORIDE | ND | 5 | 1.3 |
| CHLOROBENZENE | ND | 5 | .68 |
| CHLOROETHANE | ND | 5 | 2.9 |
| OROFORM | ND | 5 | .85 |
| METHANE | ND | 5 | 1.7 |
| 1,2-DICHLOROETHENE | ND | 5 | .97 |
| CIS-1,3-DICHLOROPROPENE | ND | 5 | .47 |
| ROMOCHLOROMETHANE | ND | 5 | .29 |
| YLBENZENE | ND | 5 | .72 |
| E | ND | 10 | .96 |
| METHYLENE CHLORIDE | ND | 5 | 1.8 |
| RENE | ND | 5 | .58 |
| RACHLOROETHENE | ND | 5 | 1.2 |
| UENE | ND | 5 | .92 |
| TRANS-1,2-DICHLOROETHENE | ND | 5 | 1.5 |
| NS-1,3-DICHLOROPROPENE | ND | 5 | .45 |
| CHLOROETHENE | ND | 5 | .9 |
| YL ACETATE | ND | 50 | 6.2 |
| VINYL CHLORIDE | ND | 5 | 1.7 |
| XYLENES | ND | 5 | 2.4 |

| ROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 97 | 62-139 |
| JENE-D8 | 98 | 75-125 |
| MOFLUOROBENZENE | 85 | 75-125 |

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | NA |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 11/04/99 |
| Batch No. | : 99J137 | Date Extracted: | 11/04/99 22:01 |
| Sample ID: | MBLK1S | Date Analyzed: | 11/04/99 22:01 |
| Lab Samp ID: | VOK0604B | Dilution Factor: | 1 |
| Lab File ID: | RKH086 | Matrix : | SOIL |
| Ext Btch ID: | VOK0604 | % Moisture : | NA |
| Calib. Ref.: | RKH082 | Instrument ID : | T-041 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1-TRICHLOROETHANE | ND | 5 | .33 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5 | .33 |
| 1,1,2-TRICHLOROETHANE | ND | 5 | .23 |
| 1,1-DICHLOROETHANE | ND | 5 | .3 |
| 1,1-DICHLOROETHENE | ND | 5 | .54 |
| 1,2-DICHLOROETHANE | ND | 5 | .33 |
| 1,2-DICHLOROPROPANE | ND | 5 | .38 |
| 2-BUTANONE | ND | 50 | 5.1 |
| 2-CHLOROETHYLVINYLETHER | ND | 50 | .17 |
| 2-HEXANONE | ND | 50 | 1.2 |
| 4-METHYL-2-PENTANONE | ND | 50 | 1.1 |
| ACETONE | ND | 50 | 4.1 |
| BENZENE | ND | 5 | .25 |
| BROMODICHLOROMETHANE | ND | 5 | .26 |
| BROMOFORM | ND | 5 | .28 |
| BROMOMETHANE | ND | 5 | .64 |
| CARBON DISULFIDE | ND | 5 | .13 |
| CARBON TETRACHLORIDE | ND | 5 | .79 |
| CHLOROBENZENE | ND | 5 | .2 |
| CHLOROETHANE | ND | 5 | 1.8 |
| CHLOROFORM | ND | 5 | .42 |
| CHLOROMETHANE | ND | 5 | 2.1 |
| CIS-1,2-DICHLOROETHENE | ND | 5 | .29 |
| CIS-1,3-DICHLOROPROPENE | ND | 5 | .22 |
| DIBROMOCHLOROMETHANE | ND | 5 | .079 |
| ETHYLBENZENE | ND | 5 | .39 |
| MTBE | ND | 10 | .37 |
| METHYLENE CHLORIDE | ND | 5 | .41 |
| STYRENE | ND | 5 | .44 |
| TETRACHLOROETHENE | ND | 5 | .24 |
| TOLUENE | ND | 5 | .31 |
| TRANS-1,2-DICHLOROETHENE | ND | 5 | .29 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5 | .67 |
| TRICHLOROETHENE | ND | 5 | .25 |
| VINYL ACETATE | ND | 50 | .72 |
| VINYL CHLORIDE | ND | 5 | 1 |
| XYLENES | ND | 5 | 1.1 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 96 | 52-149 |
| TOLUENE-D8 | 97 | 65-135 |
| BROMOFLUOROBENZENE | 93 | 65-135 |

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

2006

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| ient | : IT CORPORATION | Date Collected: | NA |
| oiect | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 11/04/99 |
| B No. | : 99J137 | Date Extracted: | 11/04/99 22:01 |
| Sa e ID | : MBLK1W | Date Analyzed: | 11/04/99 22:01 |
| b Samp ID | : VOK0604B | Dilution Factor: | 1 |
| b File ID | : RKH086 | Matrix : | WATER |
| Ext Btch ID | : VOK0604 | % Moisture : | NA |
| Calib. Ref. | : RKH082 | Instrument ID : | T-041 |

| PARAMETERS | RESULTS (ug/L) | PRL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,1-TRICHLOROETHANE | ND | 5 | 1.1 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5 | .49 |
| 1,1,2-TRICHLOROETHANE | ND | 5 | .52 |
| 1 1-DICHLOROETHANE | ND | 5 | 1.2 |
| i-DICHLOROETHENE | ND | 5 | 2 |
| 2-DICHLOROETHANE | ND | 5 | .58 |
| 1,2-DICHLOROPROPANE | ND | 5 | .53 |
| 2-BUTANONE | ND | 50 | 7.9 |
| CHLOROETHYLVINYLETHER | ND | 50 | .83 |
| EXANONE | ND | 50 | 1 |
| 4-METHYL-2-PENTANONE | ND | 50 | 1 |
| ACETONE | ND | 50 | 10 |
| ZENE | ND | 5 | .85 |
| MODICHLOROMETHANE | ND | 5 | .33 |
| BROMOFORM | ND | 5 | .29 |
| BROMOMETHANE | ND | 5 | 1.5 |
| BON DISULFIDE | ND | 5 | 1.3 |
| BON TETRACHLORIDE | ND | 5 | 1.3 |
| CHLOROBENZENE | ND | 5 | .68 |
| CHLOROETHANE | ND | 5 | 2.9 |
| OFORM | ND | 5 | .85 |
| METHANE | ND | 5 | 1.7 |
| CIS-1,2-DICHLOROETHENE | ND | 5 | .97 |
| CIS-1,3-DICHLOROPROPENE | ND | 5 | .47 |
| ROMOCHLOROMETHANE | ND | 5 | .29 |
| YLBENZENE | ND | 5 | .72 |
| MTBE | ND | 10 | .96 |
| METHYLENE CHLORIDE | ND | 5 | 1.8 |
| RENE | ND | 5 | .58 |
| RACHLOROETHENE | ND | 5 | 1.2 |
| UENE | ND | 5 | .92 |
| TRANS-1,2-DICHLOROETHENE | ND | 5 | 1.5 |
| NS-1,3-DICHLOROPROPENE | ND | 5 | .45 |
| CHLOROETHENE | ND | 5 | .9 |
| YL ACETATE | ND | 50 | 6.2 |
| VINYL CHLORIDE | ND | 5 | 1.7 |
| ENES | ND | 5 | 2.4 |

| OGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 96 | 62-139 |
| ENE-D8 | 97 | 75-125 |
| OFLUOROBENZENE | 93 | 75-125 |

PRL: Project Reporting Limit
Out side of QC Limit
An estimated value between PRL and MDL
: Value exceed the upper level of the initial calibration
: Found in the associated blank
Value from dilution analysis

2000

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J137
METHOD: METHOD 5030A/8260A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | VOK0604B | VOK0604L | VOK0604C | | |
| LAB FILE ID: | RKH086 | RKH083 | RKH084 | | |
| DATE EXTRACTED: | 11/04/9922:01 | 11/04/9920:09 | 11/04/9920:46 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 11/04/9922:01 | 11/04/9920:09 | 11/04/9920:46 | DATE RECEIVED: | 11/04/99 |
| PREP. BATCH: | VOK0604 | VOK0604 | VOK0604 | | |
| CALIB. REF: | RKH082 | RKH082 | RKH082 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 20 | 20.1 | 100 | 20 | 21.1 | 105 | 5 | 65-135 | 30 |
| Benzene | ND | 20 | 19.4 | 97 | 20 | 20.1 | 101 | 4 | 65-135 | 30 |
| Chlorobenzene | ND | 20 | 19.5 | 98 | 20 | 20 | 100 | 2 | 65-135 | 30 |
| Toluene | ND | 20 | 19.8 | 99 | 20 | 20.1 | 100 | 1 | 64-135 | 30 |
| Trichloroethene | ND | 20 | 21 | 105 | 20 | 21.9 | 109 | 4 | 61-135 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichlorethane-d4 | 50 | 47.8 | 96 | 50 | 50.1 | 100 | 52-149 |
| Toluene-d8 | 50 | 48.1 | 96 | 50 | 49.2 | 98 | 65-135 |
| Bromofluorobenzene | 50 | 46.9 | 94 | 50 | 46.6 | 93 | 65-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: 99J137
D: METHOD 5030A/8260A

| | | | | | |
|---|---|---|---|---|---|
| ATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| B SAMP ID: | VOK0604B | VOK0604L | VOK0604C | | |
| B FILE ID: | RKH086 | RKH083 | RKH084 | | |
| ATE EXTRACTED: | 11/04/9922:01 | 11/04/9920:09 | 11/04/9920:46 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 11/04/9922:01 | 11/04/9920:09 | 11/04/9920:46 | DATE RECEIVED: | 11/04/99 |
| REP. BATCH: | VOK0604 | VOK0604 | VOK0604 | | |
| LIB. REF: | RKH082 | RKH082 | RKH082 | | |

ACCESSION:

| RAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 1-Dichloroethene | ND | 20 | 20.1 | 100 | 20 | 21.1 | 105 | 5 | 75-125 | 20 |
| nzene | ND | 20 | 19.4 | 97 | 20 | 20.1 | 101 | 4 | 75-125 | 20 |
| lorobenzene | ND | 20 | 19.5 | 98 | 20 | 20 | 100 | 2 | 75-125 | 20 |
| Toluene | ND | 20 | 19.8 | 99 | 20 | 20.1 | 100 | 1 | 74-125 | 20 |
| Trichloroethene | ND | 20 | 21 | 105 | 20 | 21.9 | 109 | 4 | 71-125 | 20 |

| RROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichlorethane-d4 | 50 | 47.8 | 96 | 50 | 50.1 | 100 | 62-139 |
| ene-d8 | 50 | 48.1 | 96 | 50 | 49.2 | 98 | 75-125 |
| fluorobenzene | 50 | 46.9 | 94 | 50 | 46.6 | 93 | 75-125 |

2012

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | NA |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 11/05/99 |
| Batch No. | : 99J137 | Date Extracted: | 11/05/99 13:48 |
| Sample ID: | MBLK2S | Date Analyzed: | 11/05/99 13:48 |
| Lab Samp ID: | VOK0704B | Dilution Factor: | 1 |
| Lab File ID: | RKH105 | Matrix : | SOIL |
| Ext Btch ID: | VOK0704 | % Moisture : | NA |
| Calib. Ref.: | RKH101 | Instrument ID : | T-041 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1-TRICHLOROETHANE | ND | 5 | .33 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5 | .33 |
| 1,1,2-TRICHLOROETHANE | ND | 5 | .23 |
| 1,1-DICHLOROETHANE | ND | 5 | .3 |
| 1,1-DICHLOROETHENE | ND | 5 | .54 |
| 1,2-DICHLOROETHANE | ND | 5 | .33 |
| 1,2-DICHLOROPROPANE | ND | 5 | .38 |
| 2-BUTANONE | ND | 50 | 5.1 |
| 2-CHLOROETHYLVINYLETHER | ND | 50 | .17 |
| 2-HEXANONE | ND | 50 | 1.2 |
| 4-METHYL-2-PENTANONE | ND | 50 | 1.1 |
| ACETONE | ND | 50 | 4.1 |
| BENZENE | ND | 5 | .25 |
| BROMODICHLOROMETHANE | ND | 5 | .26 |
| BROMOFORM | ND | 5 | .28 |
| BROMOMETHANE | ND | 5 | .64 |
| CARBON DISULFIDE | ND | 5 | .13 |
| CARBON TETRACHLORIDE | ND | 5 | .79 |
| CHLOROBENZENE | ND | 5 | .2 |
| CHLOROETHANE | ND | 5 | 1.8 |
| CHLOROFORM | ND | 5 | .42 |
| CHLOROMETHANE | ND | 5 | 2.1 |
| CIS-1,2-DICHLOROETHENE | ND | 5 | .29 |
| CIS-1,3-DICHLOROPROPENE | ND | 5 | .22 |
| DIBROMOCHLOROMETHANE | ND | 5 | .079 |
| ETHYLBENZENE | ND | 5 | .39 |
| MTBE | ND | 10 | .37 |
| METHYLENE CHLORIDE | ND | 5 | .41 |
| STYRENE | ND | 5 | .44 |
| TETRACHLOROETHENE | ND | 5 | .24 |
| TOLUENE | ND | 5 | .31 |
| TRANS-1,2-DICHLOROETHENE | ND | 5 | .29 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5 | .67 |
| TRICHLOROETHENE | ND | 5 | .25 |
| VINYL ACETATE | ND | 50 | .72 |
| VINYL CHLORIDE | ND | 5 | 1 |
| XYLENES | ND | 5 | 1.1 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 98 | 52-149 |
| TOLUENE-D8 | 97 | 65-135 |
| BROMOFLUOROBENZENE | 82 | 65-135 |

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

2013

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J137
METHOD: METHOD 5030A/8260A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK2S | | | | |
| LAB SAMP ID: | VOK0704B | VOK0704L | VOK0704C | | |
| LAB FILE ID: | RKH105 | RKH102 | RKH103 | | |
| DATE EXTRACTED: | 11/05/9913:48 | 11/05/9911:56 | 11/05/9912:33 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 11/05/9913:48 | 11/05/9911:56 | 11/05/9912:33 | DATE RECEIVED: | 11/05/99 |
| PREP. BATCH: | VOK0704 | VOK0704 | VOK0704 | | |
| CALIB. REF: | RKH101 | RKH101 | RKH101 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 20 | 21.9 | 109 | 20 | 19.8 | 99 | 10 | 65-135 | 30 |
| Benzene | ND | 20 | 19.6 | 98 | 20 | 19.4 | 97 | 1 | 65-135 | 30 |
| Chlorobenzene | ND | 20 | 19.9 | 100 | 20 | 19.7 | 99 | 1 | 65-135 | 30 |
| Toluene | ND | 20 | 20.4 | 102 | 20 | 19.7 | 99 | 3 | 64-135 | 30 |
| Trichloroethene | ND | 20 | 21.5 | 108 | 20 | 21.3 | 107 | 1 | 61-135 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichlorethane-d4 | 50 | 49.3 | 99 | 50 | 48.3 | 97 | 52-149 |
| Toluene-d8 | 50 | 49.4 | 99 | 50 | 49 | 98 | 65-135 |
| Bromofluorobenzene | 50 | 47.4 | 95 | 50 | 45.5 | 91 | 65-135 |

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/26/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/27/99 |
| Batch No. | : 99J137 | Date Extracted: | 10/28/99 12:00 |
| Sample ID: | 18609-2347 | Date Analyzed: | 11/03/99 23:28 |
| Lab Samp ID: | J137-01 | Dilution Factor: | 1 |
| Lab File ID: | RKB034 | Matrix | : SOIL |
| Ext Btch ID: | SVJ020S | % Moisture | : 9.8 |
| Calib. Ref.: | RKB029 | Instrument ID | : T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 370 | 150 |
| 1,2-DICHLOROBENZENE | ND | 370 | 140 |
| 1,3-DICHLOROBENZENE | ND | 370 | 140 |
| 1,4-DICHLOROBENZENE | ND | 370 | 130 |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | ND | 370 | 170 |
| 2,4,5-TRICHLOROPHENOL | ND | 920 | 90 |
| 2,4,6-TRICHLOROPHENOL | ND | 370 | 130 |
| 2,4-DICHLOROPHENOL | ND | 370 | 170 |
| 2,4-DIMETHYLPHENOL | ND | 370 | 130 |
| 2,4-DINITROPHENOL | ND | 920 | 180 |
| 2,4-DINITROTOLUENE | ND | 370 | 66 |
| 2,6-DINITROTOLUENE | ND | 370 | 82 |
| 2-CHLORONAPHTHALENE | ND | 370 | 150 |
| 2-CHLOROPHENOL | ND | 370 | 130 |
| 2-METHYLNAPHTHALENE | ND | 370 | 160 |
| 2-METHYLPHENOL | ND | 370 | 150 |
| 2-NITROANILINE | ND | 920 | 98 |
| 2-NITROPHENOL | ND | 370 | 170 |
| 3,3'-DICHLOROBENZIDINE | ND | 370 | 81 |
| 3-NITROANILINE | ND | 920 | 97 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 920 | 120 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 370 | 86 |
| 4-CHLORO-3-METHYLPHENOL | ND | 370 | 120 |
| 4-CHLOROANILINE | ND | 370 | 130 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 370 | 91 |
| 4-METHYLPHENOL (2) | ND | 370 | 150 |
| 4-NITROANILINE | ND | 920 | 78 |
| 4-NITROPHENOL | ND | 920 | 170 |
| ACENAPHTHENE | ND | 370 | 110 |
| ACENAPHTHYLENE | ND | 370 | 110 |
| ANTHRACENE | ND | 370 | 74 |
| BENZO(A)ANTHRACENE | ND | 370 | 76 |
| BENZO(A)PYRENE | ND | 280 | 41 |
| BENZO(B)FLUORANTHENE | ND | 370 | 71 |
| BENZO(G,H,I)PERYLENE | ND | 370 | 46 |
| BENZO(K)FLUORANTHENE | ND | 370 | 76 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 370 | 170 |
| BIS(2-CHLOROETHYL)ETHER | ND | 370 | 150 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 370 | 95 |
| BUTYLBENZYLPHTHALATE | ND | 370 | 84 |
| CHRYSENE | ND | 370 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 370 | 88 |
| DI-N-OCTYLPHTHALATE | ND | 370 | 55 |
| DIBENZO(A,H)ANTHRACENE | ND | 280 | 35 |
| DIBENZOFURAN | ND | 370 | 110 |
| DIETHYLPHTHALATE | ND | 370 | 60 |
| DIMETHYLPHTHALATE | ND | 370 | 66 |
| FLUORANTHENE | ND | 370 | 86 |
| FLUORENE | ND | 370 | 82 |
| HEXACHLOROBENZENE | ND | 370 | 100 |
| HEXACHLOROBUTADIENE | ND | 370 | 160 |
| HEXACHLOROCYCLOPENTADIENE | ND | 370 | 200 |
| HEXACHLOROETHANE | ND | 370 | 140 |
| INDENO(1,2,3-CD)PYRENE | ND | 370 | 46 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 280 | 160 |
| N-NITROSODIPHENYLAMINE (1) | ND | 370 | 80 |
| NAPHTHALENE | ND | 370 | 150 |
| NITROBENZENE | ND | 370 | 150 |
| PENTACHLOROPHENOL | ND | 370 | 89 |
| PHENANTHRENE | ND | 370 | 74 |
| PHENOL | ND | 370 | 180 |
| PYRENE | ND | 370 | 100 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-FLUOROPHENOL | 76 | 25-135 |
| PHENOL-D5 | 86 | 25-135 |
| NITROBENZENE-D5 | 88 | 25-135 |
| 2-FLUOROBIPHENYL | 85 | 34-135 |
| 2,4,6-TRIBROMOPHENOL | 83 | 25-144 |
| TERPHENYL-D14 | 78 | 32-136 |

PRL : Project Reporting Limit
(1) : Cannot be separated from Diphenylamine
(2) : Cannot be separated from 3-Methylphenol

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/26/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/27/99 |
| Batch No. | : 99J137 | Date Extracted: | 10/28/99 12:00 |
| Sample ID: | 18609-2348 | Date Analyzed: | 11/04/99 00:05 |
| Lab Sample ID: | J137-02 | Dilution Factor: | 1 |
| Lab File ID: | RKB035 | Matrix | : SOIL |
| Extract Batch ID: | SVJ020S | % Moisture | : 8.2 |
| Calib. Ref.: | RKB029 | Instrument ID | : T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 4-TRICHLOROBENZENE | ND | 360 | 150 |
| DICHLOROBENZENE | ND | 360 | 140 |
| DICHLOROBENZENE | ND | 360 | 140 |
| 4-DICHLOROBENZENE | ND | 360 | 130 |
| 2'-OXYBIS(1-CHLOROPROPANE) | ND | 360 | 160 |
| 5-TRICHLOROPHENOL | ND | 900 | 88 |
| 6-TRICHLOROPHENOL | ND | 360 | 130 |
| DICHLOROPHENOL | ND | 360 | 170 |
| DIMETHYLPHENOL | ND | 360 | 120 |
| 4-DINITROPHENOL | ND | 900 | 180 |
| 4-DINITROTOLUENE | ND | 360 | 65 |
| DINITROTOLUENE | ND | 360 | 81 |
| LORONAPHTHALENE | ND | 360 | 140 |
| LOROPHENOL | ND | 360 | 130 |
| METHYLNAPHTHALENE | ND | 360 | 160 |
| -METHYLPHENOL | ND | 360 | 150 |
| -NITROANILINE | ND | 900 | 97 |
| TROPHENOL | ND | 360 | 160 |
| -DICHLOROBENZIDINE | ND | 360 | 80 |
| TROANILINE | ND | 900 | 95 |
| 6-DINITRO-2-METHYLPHENOL | ND | 900 | 120 |
| -BROMOPHENYL-PHENYLETHER | ND | 360 | 85 |
| -CHLORO-3-METHYLPHENOL | ND | 360 | 120 |
| LOROANILINE | ND | 360 | 130 |
| LOROPHENYL-PHENYLETHER | ND | 360 | 89 |
| THYLPHENOL (2) | ND | 360 | 150 |
| -NITROANILINE | ND | 900 | 76 |
| -NITROPHENOL | ND | 900 | 170 |
| APHTHENE | ND | 360 | 110 |
| APHTHYLENE | ND | 360 | 110 |
| RACENE | ND | 360 | 73 |
| O(A)ANTHRACENE | ND | 360 | 75 |
| ENZO(A)PYRENE | ND | 270 | 40 |
| ENZO(B)FLUORANTHENE | ND | 360 | 69 |
| O(G,H,I)PERYLENE | ND | 360 | 45 |
| )FLUORANTHENE | ND | 360 | 74 |
| HLOROETHOXY)METHANE | ND | 360 | 160 |
| CHLOROETHYL)ETHER | ND | 360 | 150 |
| IS(2-ETHYLHEXYL)PHTHALATE | ND | 360 | 93 |
| TYLBENZYLPHTHALATE | ND | 360 | 82 |
| SENE | ND | 360 | 98 |
| -BUTYLPHTHALATE | ND | 360 | 87 |
| -OCTYLPHTHALATE | ND | 360 | 54 |
| IBENZO(A,H)ANTHRACENE | ND | 270 | 34 |
| IBENZOFURAN | ND | 360 | 110 |
| IETHYLPHTHALATE | ND | 360 | 59 |
| THYLPHTHALATE | ND | 360 | 65 |
| RANTHENE | ND | 360 | 84 |
| RENE | ND | 360 | 81 |
| EXACHLOROBENZENE | ND | 360 | 99 |
| EXACHLOROBUTADIENE | ND | 360 | 150 |
| EXACHLOROCYCLOPENTADIENE | ND | 360 | 190 |
| CHLOROETHANE | ND | 360 | 140 |
| NO(1,2,3-CD)PYRENE | ND | 360 | 45 |
| TROSO-DI-N-PROPYLAMINE | ND | 270 | 150 |
| -NITROSODIPHENYLAMINE (1) | ND | 360 | 78 |
| APHTHALENE | ND | 360 | 150 |
| OBENZENE | ND | 360 | 150 |
| ACHLOROPHENOL | ND | 360 | 88 |
| ANTHRENE | ND | 360 | 72 |
| HENOL | ND | 360 | 170 |
| YRENE | ND | 360 | 98 |

| J OGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| UOROPHENOL | 72 | 25-135 |
| HENOL-D5 | 83 | 25-135 |
| ITROBENZENE-D5 | 82 | 25-135 |
| -FLUOROBIPHENYL | 83 | 34-135 |
| 6-TRIBROMOPHENOL | 80 | 25-144 |
| HENYL-D14 | 73 | 32-136 |

RL : Project Reporting Limit
1) : Cannot be separated from Diphenylamine
2) : Cannot be separated from 3-Methylphenol

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | NA |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J137 | Date Extracted: | 10/28/99 12:00 |
| Sample ID: | MBLK1S | Date Analyzed: | 11/03/99 21:38 |
| Lab Samp ID: | SVJ020SB | Dilution Factor: | 1 |
| Lab File ID: | RKB031 | Matrix : | SOIL |
| Ext Btch ID: | SVJ020S | % Moisture : | NA |
| Calib. Ref.: | RKB029 | Instrument ID : | T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 330 | 140 |
| 1,2-DICHLOROBENZENE | ND | 330 | 130 |
| 1,3-DICHLOROBENZENE | ND | 330 | 120 |
| 1,4-DICHLOROBENZENE | ND | 330 | 120 |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | ND | 330 | 150 |
| 2,4,5-TRICHLOROPHENOL | ND | 830 | 81 |
| 2,4,6-TRICHLOROPHENOL | ND | 330 | 120 |
| 2,4-DICHLOROPHENOL | ND | 330 | 150 |
| 2,4-DIMETHYLPHENOL | ND | 330 | 110 |
| 2,4-DINITROPHENOL | ND | 830 | 160 |
| 2,4-DINITROTOLUENE | ND | 330 | 60 |
| 2,6-DINITROTOLUENE | ND | 330 | 74 |
| 2-CHLORONAPHTHALENE | ND | 330 | 130 |
| 2-CHLOROPHENOL | ND | 330 | 120 |
| 2-METHYLNAPHTHALENE | ND | 330 | 140 |
| 2-METHYLPHENOL | ND | 330 | 140 |
| 2-NITROANILINE | ND | 830 | 89 |
| 2-NITROPHENOL | ND | 330 | 150 |
| 3,3'-DICHLOROBENZIDINE | ND | 330 | 73 |
| 3-NITROANILINE | ND | 830 | 87 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 830 | 110 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 330 | 78 |
| 4-CHLORO-3-METHYLPHENOL | ND | 330 | 110 |
| 4-CHLOROANILINE | ND | 330 | 120 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 330 | 82 |
| 4-METHYLPHENOL (2) | ND | 330 | 140 |
| 4-NITROANILINE | ND | 830 | 70 |
| 4-NITROPHENOL | ND | 830 | 150 |
| ACENAPHTHENE | ND | 330 | 100 |
| ACENAPHTHYLENE | ND | 330 | 100 |
| ANTHRACENE | ND | 330 | 67 |
| BENZO(A)ANTHRACENE | ND | 330 | 69 |
| BENZO(A)PYRENE | ND | 250 | 37 |
| BENZO(B)FLUORANTHENE | ND | 330 | 64 |
| BENZO(G,H,I)PERYLENE | ND | 330 | 41 |
| BENZO(K)FLUORANTHENE | ND | 330 | 68 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 330 | 150 |
| BIS(2-CHLOROETHYL)ETHER | ND | 330 | 140 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 330 | 85 |
| BUTYLBENZYLPHTHALATE | ND | 330 | 76 |
| CHRYSENE | ND | 330 | 90 |
| DI-N-BUTYLPHTHALATE | ND | 330 | 80 |
| DI-N-OCTYLPHTHALATE | ND | 330 | 50 |
| DIBENZO(A,H)ANTHRACENE | ND | 250 | 32 |
| DIBENZOFURAN | ND | 330 | 100 |
| DIETHYLPHTHALATE | ND | 330 | 54 |
| DIMETHYLPHTHALATE | ND | 330 | 60 |
| FLUORANTHENE | ND | 330 | 77 |
| FLUORENE | ND | 330 | 74 |
| HEXACHLOROBENZENE | ND | 330 | 91 |
| HEXACHLOROBUTADIENE | ND | 330 | 140 |
| HEXACHLOROCYCLOPENTADIENE | ND | 330 | 180 |
| HEXACHLOROETHANE | ND | 330 | 130 |
| INDENO(1,2,3-CD)PYRENE | ND | 330 | 41 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 250 | 140 |
| N-NITROSODIPHENYLAMINE (1) | ND | 330 | 72 |
| NAPHTHALENE | ND | 330 | 130 |
| NITROBENZENE | ND | 330 | 130 |
| PENTACHLOROPHENOL | ND | 330 | 80 |
| PHENANTHRENE | ND | 330 | 66 |
| PHENOL | ND | 330 | 160 |
| PYRENE | ND | 330 | 90 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-FLUOROPHENOL | 86 | 25-135 |
| PHENOL-D5 | 96 | 25-135 |
| NITROBENZENE-D5 | 100 | 25-135 |
| 2-FLUOROBIPHENYL | 93 | 34-135 |
| 2,4,6-TRIBROMOPHENOL | 83 | 25-144 |
| TERPHENYL-D14 | 83 | 32-136 |

PRL : Project Reporting Limit
(1) : Cannot be separated from Diphenylamine
(2) : Cannot be separated from 3-Methylphenol

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J137
METHOD: METHOD 3550A/8270B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVJ020SB | SVJ020SL | SVJ020SC | | |
| LAB FILE ID: | RKB031 | RKB032 | RKB033 | | |
| DATE EXTRACTED: | 10/28/9912:00 | 10/28/9912:00 | 10/28/9912:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 11/03/9921:38 | 11/03/9922:14 | 11/03/9922:51 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | SVJ020S | SVJ020S | SVJ020S | | |
| CALIB. REF: | RKB029 | RKB029 | RKB029 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 3330 | 2160 | 65 | 3330 | 2270 | 68 | 5 | 34-152 | 30 |
| 1,4-Dichlorobenzene | ND | 3330 | 2050 | 61 | 3330 | 2170 | 65 | 6 | 25-135 | 30 |
| 2,4-Dinitrotoluene | ND | 3330 | 2420 | 73 | 3330 | 2530 | 76 | 4 | 29-149 | 30 |
| 2-Chlorophenol | ND | 5000 | 2870 | 57 | 5000 | 3030 | 61 | 6 | 31-135 | 30 |
| 4-Chloro-3-Methylphenol | ND | 5000 | 2810 | 56 | 5000 | 2860 | 57 | 2 | 34-135 | 30 |
| 4-Nitrophenol | ND | 5000 | 2940 | 59 | 5000 | 3230 | 65 | 10 | 25-141 | 30 |
| Acenaphthene | ND | 3330 | 2280 | 69 | 3330 | 2280 | 68 | 0 | 39-135 | 30 |
| N-Nitroso-di-n-propyl. | ND | 3330 | 2220 | 67 | 3330 | 2370 | 71 | 7 | 27-135 | 30 |
| Pentachlorophenol | ND | 5000 | 3080 | 62 | 5000 | 3280 | 66 | 6 | 38-146 | 30 |
| Phenol | ND | 5000 | 2870 | 57 | 5000 | 2990 | 60 | 4 | 25-135 | 30 |
| Pyrene | ND | 3330 | 1720 | 52 | 3330 | 1790 | 54 | 4 | 37-146 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | 5000 | 3190 | 64 | 5000 | 3300 | 66 | 25-135 |
| Phenol-d5 | 5000 | 3310 | 66 | 5000 | 3370 | 67 | 25-135 |
| Nitrobenzene-d5 | 3330 | 2420 | 73 | 3330 | 2470 | 74 | 25-135 |
| 2-Fluorobiphenyl | 3330 | 2360 | 71 | 3330 | 2340 | 70 | 34-125 |
| 2,4,6-Tribromophenol | 5000 | 3500 | 70 | 5000 | 3540 | 71 | 25-144 |
| Terphenyl-d14 | 3330 | 2020 | 61 | 3330 | 2090 | 63 | 32-136 |

METHOD 3550A/8270B SIM
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/26/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/27/99 |
| Batch No. | : 99J137 | Date Extracted: | 11/04/99 05:05 |
| Sample ID: | 18609-2347 | Date Analyzed: | 11/04/99 05:05 |
| Lab Samp ID: | J137-01 | Dilution Factor: | 1 |
| Lab File ID: | RKB043 | Matrix : | SOIL |
| Ext Btch ID: | SVJ020S | % Moisture : | 9.8 |
| Calib. Ref.: | RKB022 | Instrument ID : | T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| BENZO(A)PYRENE | ND | 37 | 16 |
| BIS(2-CHLOROETHYL)ETHER | ND | 37 | 4.7 |
| DIBENZO(A,H)ANTHRACENE | ND | 37 | 9.6 |
| HEXACHLOROBENZENE | ND | 37 | 7.1 |
| INDENO(1,2,3-CD)PYRENE | ND | 37 | 7.2 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 37 | 7.5 |
| PENTACHLOROPHENOL | ND | 180 | 10 |

PRL: Project Reporting Limit

METHOD 3550A/8270B SIM
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| ient : IT CORPORATION | Date Collected: 10/26/99 |
| oject : MCAS EL TORO/18609/D.O. 70 | Date Received: 10/27/99 |
| B No. : 99J137 | Date Extracted: 11/04/99 05:44 |
| Sa e ID: 18609-2348 | Date Analyzed: 11/04/99 05:44 |
| Samp ID: J137-02 | Dilution Factor: 1 |
| File ID: RKB044 | Matrix : SOIL |
| Ext Btch ID: SVJ020S | % Moisture : 8.2 |
| Calib. Ref.: RKB022 | Instrument ID : T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| B ZO(A)PYRENE | ND | 36 | 15 |
| B (2-CHLOROETHYL)ETHER | ND | 36 | 4.6 |
| DIBENZO(A,H)ANTHRACENE | ND | 36 | 9.4 |
| HEXACHLOROBENZENE | ND | 36 | 7 |
| I ENO(1,2,3-CD)PYRENE | ND | 36 | 7.1 |
| N ITROSO-DI-N-PROPYLAMINE | ND | 36 | 7.4 |
| PENTACHLOROPHENOL | ND | 180 | 10 |

P : Project Reporting Limit

METHOD 3550A/8270B SIM
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | NA |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 11/04/99 |
| Batch No. | : 99J137 | Date Extracted: | 11/04/99 03:08 |
| Sample ID: | MBLK1S | Date Analyzed: | 11/04/99 03:08 |
| Lab Samp ID: | SVJ020SB | Dilution Factor: | 1 |
| Lab File ID: | RKB040 | Matrix : | SOIL |
| Ext Btch ID: | SVJ020S | % Moisture : | NA |
| Calib. Ref.: | RKB022 | Instrument ID : | T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| BENZO(A)PYRENE | ND | 33 | 14 |
| BIS(2-CHLOROETHYL)ETHER | ND | 33 | 4.2 |
| DIBENZO(A,H)ANTHRACENE | ND | 33 | 8.7 |
| HEXACHLOROBENZENE | ND | 33 | 6.4 |
| INDENO(1,2,3-CD)PYRENE | ND | 33 | 6.5 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 33 | 6.7 |
| PENTACHLOROPHENOL | ND | 170 | 9.3 |

PRL: Project Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J137
METHOD: METHOD 3550A/8270B SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVJ020SB | SVJ020SL | SVJ020SC | | |
| LAB FILE ID: | RKB040 | RKB041 | RKB042 | | |
| DATE EXTRACTED: | 10/28/9912:00 | 10/28/9912:00 | 10/28/9912:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 11/04/9903:08 | 11/04/9903:47 | 11/04/9904:26 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | SVJ020S | SVJ020S | SVJ020S | | |
| CALIB. REF: | RKB030 | RKB030 | RKB030 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| n-Nitrosodipropylamine | ND | 3330 | 2450 | 73 | 3330 | 2590 | 78 | 6 | 27-135 | 30 |
| Pentachlorophenol | ND | 5000 | 3980 | 80 | 5000 | 4230 | 85 | 6 | 38-146 | 30 |

METHOD 3050A/6010A
METALS BY ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/26/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/27/99 |
| SDG NO. | : 99J137 | Date Extracted: | 10/28/99 13:55 |
| Sample ID: | 18609-2347 | Date Analyzed: | 10/30/99 05:27 |
| Lab Samp ID: | J137-01 | Dilution Factor: | 1 |
| Lab File ID: | I07J105030 | Matrix : | SOIL |
| Ext Btch ID: | IPJ039S | % Moisture : | 9.8 |
| Calib. Ref.: | I07J105023 | Instrument ID : | EMAXTI07 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 16400 | 55.4 | 6.92 |
| Antimony | ND | 11.1 | 3.97 |
| Barium | 171 | 1.11 | .144 |
| Beryllium | .529 | .222 | .0222 |
| Cadmium | ND | 1.11 | .0776 |
| Calcium | 4280 | 554 | 2.21 |
| Chromium | 14.9 | 1.11 | .665 |
| Cobalt | 5.16 | 1.11 | .676 |
| Copper | 32.9 | 1.11 | .82 |
| Iron | 16800 | 22.2 | .793 |
| Magnesium | 6930 | 554 | 5.83 |
| Manganese | 278 | 2.22 | .133 |
| Molybdenum | ND | 2.22 | .721 |
| Nickel | 8.41 | 2.22 | .51 |
| Potassium | 5500 | 554 | 215 |
| Silver | ND | 1.11 | 1.56 |
| Sodium | ND | 554 | 7.08 |
| Vanadium | 36.9 | 1.11 | .92 |
| Zinc | 62.6 | 1.11 | .288 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY TRACE-ICP

| | | | |
|---|---|---|---|
| ient | : IT CORPORATION | Date Collected: | 10/26/99 |
| oiect | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/27/99 |
| S ). | : 99J137 | Date Extracted: | 10/28/99 13:55 |
| Sa e | ID: 18609-2347 | Date Analyzed: | 10/29/99 19:01 |
| b Samp | ID: J137-01 | Dilution Factor: | 1 |
| b File | ID: I31J074033 | Matrix : | SOIL |
| Ext Btch | ID: IPJ039S | % Moisture : | 9.8 |
| Calib. Ref.: | I31J074026 | Instrument ID : | EMAXTI31 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| senic | 3.37 | 1.11 | .569 |
| Lead | 3.65 | 1.11 | .293 |
| Selenium | ND | 1.11 | .502 |
| T llium | ND | 1.11 | .517 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/26/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/27/99 |
| SDG NO. | : 99J137 | Date Extracted: | 10/28/99 13:55 |
| Sample ID: | 18609-2348 | Date Analyzed: | 10/30/99 05:33 |
| Lab Samp ID: | J137-02 | Dilution Factor: | 1 |
| Lab File ID: | I07J105031 | Matrix : | SOIL |
| Ext Btch ID: | IPJ039S | % Moisture : | 8.2 |
| Calib. Ref.: | I07J105023 | Instrument ID : | EMAXTI07 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 14200 | 54.5 | 6.8 |
| Antimony | ND | 10.9 | 3.9 |
| Barium | 155 | 1.09 | .142 |
| Beryllium | .46 | .218 | .0218 |
| Cadmium | ND | 1.09 | .0763 |
| Calcium | 3380 | 545 | 2.17 |
| Chromium | 13.5 | 1.09 | .654 |
| Cobalt | 5.02 | 1.09 | .664 |
| Copper | 49.1 | 1.09 | .806 |
| Iron | 15700 | 21.8 | .779 |
| Magnesium | 6190 | 545 | 5.73 |
| Manganese | 234 | 2.18 | .131 |
| Molybdenum | ND | 2.18 | .708 |
| Nickel | 6.4 | 2.18 | .501 |
| Potassium | 4330 | 545 | 211 |
| Silver | ND | 1.09 | 1.54 |
| Sodium | 569 | 545 | 6.96 |
| Vanadium | 35.9 | 1.09 | .904 |
| Zinc | 66.6 | 1.09 | .283 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY TRACE-ICP

| | | | |
|---|---|---|---|
| C ent | : IT CORPORATION | Date Collected: | 10/26/99 |
| P iect | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/27/99 |
| SD . | : 99J137 | Date Extracted: | 10/28/99 13:55 |
| Sa ID | : 18609-2348 | Date Analyzed: | 10/29/99 19:07 |
| L Samp ID | : J137-02 | Dilution Factor: | 1 |
| L File ID | : I31J074034 | Matrix | : SOIL |
| Ext Btch ID | : IPJ039S | % Moisture | : 8.2 |
| Calib. Ref. | : I31J074026 | Instrument ID | : EMAXTI31 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| A enic | 3.3 | 1.09 | .559 |
| Lead | 3.3 | 1.09 | .288 |
| Selenium | ND | 1.09 | .493 |
| Tl llium | ND | 1.09 | .508 |

RL Reporting Limit

METHOD 3050A/6010A
METALS BY ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | NA |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SDG NO. | : 99J137 | Date Extracted: | 10/28/99 13:55 |
| Sample ID: | MBLK1S | Date Analyzed: | 10/30/99 03:44 |
| Lab Samp ID: | IPJ039SB | Dilution Factor: | 1 |
| Lab File ID: | I07J105013 | Matrix : | SOIL |
| Ext Btch ID: | IPJ039S | % Moisture : | NA |
| Calib. Ref.: | I07J105011 | Instrument ID : | EMAXTI07 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 50 | 6.24 |
| Antimony | ND | 10 | 3.58 |
| Barium | ND | 1 | .13 |
| Beryllium | ND | .2 | .02 |
| Cadmium | ND | 1 | .07 |
| Calcium | ND | 500 | 1.99 |
| Chromium | ND | 1 | .6 |
| Cobalt | ND | 1 | .61 |
| Copper | ND | 1 | .74 |
| Iron | ND | 20 | .715 |
| Magnesium | ND | 500 | 5.26 |
| Manganese | ND | 2 | .12 |
| Molybdenum | ND | 2 | .65 |
| Nickel | ND | 2 | .46 |
| Potassium | ND | 500 | 194 |
| Silver | ND | 1 | 1.41 |
| Sodium | ND | 500 | 6.39 |
| Vanadium | ND | 1 | .83 |
| Zinc | 2.36 | 1 | .26 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY TRACE-ICP

| | | | |
|---|---|---|---|
| ient | : IT CORPORATION | Date Collected: | NA |
| ɔiect | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| S ). | : 99J137 | Date Extracted: | 10/28/99 13:55 |
| Sa e ID: | MBLK1S | Date Analyzed: | 10/29/99 17:20 |
| ɔ Samp ID: | IPJ039SB | Dilution Factor: | 1 |
| ɔ File ID: | I31J074016 | Matrix : | SOIL |
| Ext Btch ID: | IPJ039S | % Moisture : | NA |
| Calib. Ref.: | I31J074014 | Instrument ID : | EMAXTI31 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| ienic | ND | 1 | .513 |
| Lead | ND | 1 | .264 |
| Selenium | ND | 1 | .453 |
| ıllium | ND | 1 | .466 |

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 99J137
METHOD: METHOD 3050A/6010A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IPJ039SB | IPJ039SL | IPJ039SC | | |
| LAB FILE ID: | I07J105013 | I07J105014 | I07J105015 | | |
| DATIME EXTRCTD: | 10/28/9913:55 | 10/28/9913:55 | 10/28/9913:55 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 10/30/9903:44 | 10/30/9903:50 | 10/30/9903:56 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | IPJ039S | IPJ039S | IPJ039S | | |
| CALIB. REF: | I07J105011 | I07J105011 | I07J105011 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 1000 | 887 | 89 | 1000 | 895 | 89 | 0 | 80-120 | 20 |
| Antimony | ND | 500 | 435 | 87 | 500 | 440 | 88 | 1 | 80-120 | 20 |
| Barium | ND | 100 | 95.1 | 95 | 100 | 97.1 | 97 | 2 | 80-120 | 20 |
| Beryllium | ND | 100 | 88.6 | 89 | 100 | 89.1 | 89 | 0 | 80-120 | 20 |
| Cadmium | ND | 100 | 86.4 | 86 | 100 | 86.7 | 87 | 0 | 80-120 | 20 |
| Calcium | ND | 5000 | 4180 | 84 | 5000 | 4030 | 81 | 4 | 80-120 | 20 |
| Chromium | ND | 100 | 88 | 88 | 100 | 87.5 | 88 | 1 | 80-120 | 20 |
| Cobalt | ND | 100 | 86.2 | 86 | 100 | 86 | 86 | 0 | 80-120 | 20 |
| Copper | ND | 100 | 92.6 | 93 | 100 | 96 | 96 | 4 | 80-120 | 20 |
| Iron | ND | 1000 | 898 | 90 | 1000 | 900 | 90 | 0 | 80-120 | 20 |
| Magnesium | ND | 5000 | 4440 | 89 | 5000 | 4410 | 88 | 1 | 80-120 | 20 |
| Manganese | ND | 100 | 85.3 | 85 | 100 | 84.8 | 85 | 1 | 80-120 | 20 |
| Molybdenum | ND | 100 | 90.8 | 91 | 100 | 88.5 | 88 | 3 | 80-120 | 20 |
| Nickel | ND | 100 | 85.4 | 85 | 100 | 85.4 | 85 | 0 | 80-120 | 20 |
| Potassium | ND | 5000 | 4510 | 90 | 5000 | 4560 | 91 | 1 | 80-120 | 20 |
| Silver | ND | 100 | 85.8 | 86 | 100 | 85.8 | 86 | 0 | 80-120 | 20 |
| Sodium | ND | 5000 | 4690 | 94 | 5000 | 4810 | 96 | 2 | 80-120 | 20 |
| Vanadium | ND | 100 | 88.9 | 89 | 100 | 88.7 | 89 | 0 | 80-120 | 20 |
| Zinc | 2.36 | 100 | 90.5 | 88 | 100 | 90.6 | 88 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
LAB NO.: 99J137
METHOD: METHOD 3050A/6010A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IPJ039SB | IPJ039SL | IPJ039SC | | |
| LAB FILE ID: | I31J074016 | I31J074017 | I31J074018 | | |
| DATIME EXTRCTD: | 10/28/9913:55 | 10/28/9913:55 | 10/28/9913:55 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 10/29/9917:20 | 10/29/9917:26 | 10/29/9917:31 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | IPJ039S | IPJ039S | IPJ039S | | |
| CALIB. REF: | I31J074014 | I31J074014 | I31J074014 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 100 | 88 | 88 | 100 | 89 | 89 | 1 | 80-120 | 20 |
| Cd | ND | 100 | 87.6 | 88 | 100 | 89 | 89 | 2 | 80-120 | 20 |
| Selenium | ND | 100 | 87.7 | 88 | 100 | 88.9 | 89 | 1 | 80-120 | 20 |
| Thallium | ND | 100 | 94.3 | 94 | 100 | 96.2 | 96 | 2 | 80-120 | 20 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 99J137

Matrix : SOIL
Instrument ID : TI023

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGBSKSB | ND | 1 | NA | .1 | .028 | 11/01/9917:24 | 11/01/9909:00 | M99K002008 | M99K002006 | HGBSKS | NA | 11/01/99 |
| LCS1S | HGBSKSL | .768 | 1 | NA | .1 | .028 | 11/01/9917:27 | 11/01/9909:00 | M99K002009 | M99K002006 | HGBSKS | NA | 11/01/99 |
| LCD1S | HGBSKSC | .772 | 1 | NA | .1 | .028 | 11/01/9917:31 | 11/01/9909:00 | M99K002010 | M99K002006 | HGBSKS | NA | 11/01/99 |
| 18609-2347 | J137-01 | ND | 1 | 9.8 | .111 | .031 | 11/01/9918:41 | 11/01/9909:00 | M99K002033 | M99K002030 | HGBSKS | 10/26/99 | 10/27/99 |
| 18609-2348 | J137-02 | ND | 1 | 8.2 | .109 | .0305 | 11/01/9918:44 | 11/01/9909:00 | M99K002034 | M99K002030 | HGBSKS | 10/26/99 | 10/27/99 |

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS TUSTIN/20253/D.O. 113
SDG NO.: 99J137
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGBSKSB | HGBSKSL | HGBSKSC | | |
| LAB FILE ID: | M99K002008 | M99K002009 | M99K002010 | | |
| DATIME EXTRCTD: | 11/01/9909:00 | 11/01/9909:00 | 11/01/9909:00 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 11/01/9917:24 | 11/01/9917:27 | 11/01/9917:31 | DATE RECEIVED: | 11/01/99 |
| PREP. BATCH: | HGBSK_02 | HGBSK_02 | HGBSK_02 | | |
| CALIB. REF: | M99K002006 | M99K002006 | M99K002006 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .769 | .768 | 100 | .769 | .772 | 100 | 0 | 77-120 | 25 |

METHOD 9010A
TOTAL CYANIDE

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 99J137

Matrix : SOIL
Instrument ID :

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18609-2347 | J137-01 | ND | 1 | 9.8 | .554 | .122 | 11/01/9918:33 | 10/29/9915:30 | CNJ023S-14 | CNJ023S-8 | CNJ023S | 10/26/99 | 10/27/99 |
| 18609-2348 | J137-02 | ND | 1 | 8.2 | .545 | .12 | 11/01/9918:34 | 10/29/9915:30 | CNJ023S-15 | CNJ023S-8 | CNJ023S | 10/26/99 | 10/27/99 |
| MBLK1S | CNJ023SB | ND | 1 | NA | .5 | .11 | 11/01/9918:30 | 10/29/9915:30 | CNJ023S-11 | CNJ023S-8 | CNJ023S | NA | 10/29/99 |
| LCS1S | CNJ023SL | 4.90 | 1 | NA | .5 | .11 | 11/01/9918:31 | 10/29/9915:30 | CNJ023S-12 | CNJ023S-8 | CNJ023S | NA | 10/29/99 |
| LCD1S | CNJ023SC | 4.93 | 1 | NA | .5 | .11 | 11/01/9918:32 | 10/29/9915:30 | CNJ023S-13 | CNJ023S-8 | CNJ023S | NA | 10/29/99 |

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 9010A
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 99J137
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CNJ023SL/C

DATE RECEIVED: 10/29/99
DATE EXTRACTED: 10/29/99 15:30
DATE ANALYZED: 11/01/99 18:31/18:32

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 5.00 | 4.90 | 98 | 5.00 | 4.93 | 99 | 1 | 75-125 | 20 |

the IT group

IT Corporation
2790 Mosside Blvd.
Monroeville, PA 15146-2792
(412)372-7701

# CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

A 10013

TAA 307

FORM 0019 REV. 9-99

| IT'S LAB COORDINATOR | LAB COORDINATOR'S PHONE | LAB COORDINATOR'S FAX | LABORATORY SERVICE ID | LABORATORY CONTACT | MAIL REPORT (COMPANY NAME) |
|---|---|---|---|---|---|
| L. Bienkowski | 949-660-1537 | 949-475-5433 | 99J741 | EMAX | IT Group |
| **PROJECT NAME:** | **PROJECT LOCATION** | **PROJECT NUMBER** | **LABORATORY PHONE** | **LABORATORY FAX** | **RECIPIENT NAME** |
| El Toro, CA | MCAS-El Toro-D070 | 18609 | 310-618-8889 | — | Dwayne Ishida |
| **PROJECT CONTACT** | **PROJECT PHONE NUMBER** | **PROJECT FAX** | **LABORATORY ADDRESS** | | **ADDRESS** |
| L. Bienkowski | 949-451-1551 | — | 630 Maple | | 3347 Michelson |
| **PROJECT ADDRESS** | **CITY, STATE AND ZIP CODE** | **CLIENT** | **CITY, STATE AND ZIP CODE** | | **CITY, STATE AND ZIP CODE** |
| — | — | SWDIV | Torrance, CA | | Irvine, CA |
| **PROJECT MANAGER** | **PROJECT MANAGER'S PHONE** | **PROJECT MANAGER'S FAX** | | | |
| B. Sedlak | 949-660-5446 | — | | | |

| Item | Sample Identifier | Matrix | 1999 Date | Time | Preserved | # of Cont. | QC Level | T.A.T. | EPA 8260 | EPA 8270 DESIM | EPA 8081 | 8015-Gas | 8015-Ie-5 | 8015-Diesel | Total Metals | EPA 8040 (CLP) | EPA 1045 (PH) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 18609-2350 | Soil | 10-28 | 0900 | 4°C | 1 | 3 | 5day | X | X | X | X | X | X | X | X | X | |
| 2 | 18609-2351 | Soil | 10-28 | 0920 | 4°C | 1 | 3 | 5day | X | X | X | X | X | X | X | X | X | |
| 3 | 18609-2352 | Soil | 10-28 | 0945 | 4°C | 1 | 3 | 5day | X | X | X | X | X | X | X | X | X | |
| 4 | 18609-2353 | Soil | 10-28 | 1000 | 4°C | 1 | 3 | 5day | X | X | X | X | X | X | X | X | X | |
| 5 | 18609-2354 | Soil | 10-28 | 1020 | 4°C | 1 | 3 | 5day | X | X | X | X | X | X | X | X | X | |
| 6 | 18609-2355 | Soil | 10-28 | 1045 | 4°C | 1 | 3 | 5day | X | X | X | X | X | X | X | X | X | |
| 7 | 18609-2356 | Soil | 10-28 | 1105 | 4°C | 1 | 3 | 5day | X | X | X | X | X | X | X | X | X | |
| 8 | 18609-2357 | Soil | 10-28 | 1110 | 4°C | 1 | 3 | 5day | X | X | X | X | X | X | X | X | X | |
| 9 | 18609-2358 | Soil | 10-28 | 1125 | 4°C | 1 | 3 | 5day | X | X | X | X | X | X | X | X | X | |
| 10 | 18609-2359 | Soil | 10-28 | 1140 | 4°C | 1 | 3 | 5day | X | X | X | X | X | X | X | X | X | |

SAMPLES COLLECTED BY: M. Jefferson

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

| RELINQUISHED BY | RECEIVED BY | DATE | TIME | SAMPLE'S CONDITION UPON RECEIPT |
|---|---|---|---|---|
| [illegible signature] | [illegible signature] | 10-28-99 | 3:45 | |

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

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

TAA 307

| Sample Point Location | Sample Type G | C | F | QC |
|---|---|---|---|---|
| 1. TAA 307-SBA 1.5'-2.0' bgs | X | | | |
| 2. TAA 307-SBA 3.0'-3.5' bgs | X | | | |
| 3. TAA 307-SBC 1.5'-2.0' bgs | X | | | |
| 4. TAA 307-SBC 3.0'-3.5' bgs | X | | | |
| 5. TAA 307-SBD 2.0'-2.5' bgs | X | | | |
| 6. TAA 307-SBD 3.0'-3.5' bgs | X | | | |
| 7. TAA 307-SBE 1.5'-2.0' bgs | X | | | |
| 8. TAA 307-SBE 3.0'-3.5' bgs | X | | | |
| 9. TAA 307-SBF 1.5'-2.0' bgs | X | | | |
| 10. TAA 307-SBF 3.0'-3.5' bgs | X | | | |

Comments

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

0006483

the i group

IT Corporation
2790 Mosside Blvd.
Monroeville, PA 15146-2792
(412)372-7701

# CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

A 10014

FORM 0019 REV. 9-99

TAA 307

| | | | | | |
|---|---|---|---|---|---|
| IT'S LAB COORDINATOR: L. Brentkowski | LAB COORDINATOR'S PHONE: 949-660-7537 | LAB COORDINATOR'S FAX: 949-475-5433 | LABORATORY SERVICE ID: 99J141 | LABORATORY CONTACT: EMAX | MAIL REPORT (COMPANY NAME): IT Group |
| PROJECT NAME: El Toro, CA | PROJECT LOCATION: MCAS El Toro - D070 | PROJECT NUMBER: 18609 | LABORATORY PHONE: 316-618-8881 | LABORATORY FAX: — | RECIPIENT NAME: Dwayne Islicta |
| PROJECT CONTACT: L. Brentkowski | PROJECT PHONE NUMBER: 949-451-1551 | PROJECT FAX: — | LABORATORY ADDRESS: 630 Maple | | ADDRESS: 3347 Michelson |
| PROJECT ADDRESS: — | CITY, STATE AND ZIP CODE: — | CLIENT: SWDIV | CITY, STATE AND ZIP CODE: Torrance, CA | | CITY, STATE AND ZIP CODE: Irvine, CA |
| PROJECT MANAGER: B. Sellak | PROJECT MANAGER'S PHONE: 949-660-5446 | PROJECT MANAGER'S FAX: — | | | |

| Item | Sample Identifier | Matrix | Date 1999 | Time | Preserved | # of Cont. | QC Level | T.A.T. | EPA 8260 | EPA 8270 + SIM | EPA 8081 | 8015 - Gas | 8015 - Diesel | Total Metals | EPA 7196 (Cr) | 8015 - 12-5 | EPA 9045 (pH) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 18609-23160 | S | 10-28 | 1145 | 4°C | 1 | 4 | 5 day | X | X | X | X | X | X | X | X | X | |
| 2 | 18609-23161 | W | 10-28 | 1147 | 4°C | 10 | 3 | 5 day | X | X | X | X | X | X | X | X | X | |
| 3 | 18609-23162 | W | 10-28 | 1150 | 4°C | 2 | 3 | 5 day | X | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |

SAMPLES COLLECTED BY: W. Sellak

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

| RELINQUISHED BY | RECEIVED BY | DATE | TIME | SAMPLE'S CONDITION UPON RECEIPT |
|---|---|---|---|---|
| [illegible signature] | [illegible signature] | 10-28-99 | 3:45 | |

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

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

TAA 307

| Sample Point Location | Sample Type G | C | F | QC |
|---|---|---|---|---|
| 1. TAA 307 ~~SB~~ (Dup) 3.5-4.0' bgs | X | | | X |
| 2. TAA 307 Equipment Rinsate | | | | X |
| 3. Trip Blank | X | | | |

Comments

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

0004833

EMAX
LABORATORIES, INC.
630 Maple Ave.
Torrance, CA 90503
Telephone: (310) 618-8889
Fax: (310) 618-0818

Date: 12-07-1999
EMAX Batch No.: 99J141

Attn: Mr. Dwayne Ishida

IT Corporation
3347 Michelson Dr. # 200
Irvine CA 92612

Subject: Laboratory Report
Project: MCAS El Toro/18609/D.O. 70

---

Enclosed is the Laboratory report for samples received on 10/28/99. The data reported include :

| Sample ID | Control # | Col Date | Matrix | Analysis |
|---|---|---|---|---|
| 18609-2350 | J141-01 | 10/28/99 | Soil | EPA 8260 |
| | | | | EPA 8270 |
| | | | | EPA 8270-SIM |
| | | | | EPA 8081 |
| | | | | EPA 5030/M8015 |
| | | | | EPA M8015 (JP-5) |
| | | | | EPA M8015 |
| | | | | Metals |
| | | | | Mercury |
| | | | | Cyanide |
| | | | | pH |
| 18609-2351 | J141-02 | 10/28/99 | Soil | EPA 8260 |
| | | | | EPA 8270 |
| | | | | EPA 8270-SIM |
| | | | | EPA 8081 |
| | | | | EPA 5030/M8015 |
| | | | | EPA M8015 (JP-5) |
| | | | | EPA M8015 |
| | | | | Metals |

| Sample ID | Control # | Col Date | Matrix | Analysis |
|---|---|---|---|---|
| | | | | Mercury |
| | | | | Cyanide |
| | | | | pH |
| 18609-2352 | J141-03 | 10/28/99 | Soil | EPA 8260 |
| | | | | EPA 8270 |
| | | | | EPA 8270-SIM |
| | | | | EPA 8081 |
| | | | | EPA 5030/M8015 |
| | | | | EPA M8015 (JP-5) |
| | | | | EPA M8015 |
| | | | | Metals |
| | | | | Mercury |
| | | | | Cyanide |
| | | | | pH |
| 18609-2353 | J141-04 | 10/28/99 | Soil | EPA 8260 |
| | | | | EPA 8270 |
| | | | | EPA 8270-SIM |
| | | | | EPA 8081 |
| | | | | EPA 5030/M8015 |
| | | | | EPA M8015 (JP-5) |
| | | | | EPA M8015 |
| | | | | Metals |
| | | | | Mercury |
| | | | | Cyanide |
| | | | | pH |
| 18609-2354 | J141-05 | 10/28/99 | Soil | EPA 8260 |
| | | | | EPA 8270 |
| | | | | EPA 8270-SIM |
| | | | | EPA 8081 |
| | | | | EPA 5030/M8015 |
| | | | | EPA M8015 (JP-5) |
| | | | | EPA M8015 |
| | | | | Metals |
| | | | | Mercury |
| | | | | Cyanide |
| | | | | pH |
| 18609-2355 | J141-06 | 10/28/99 | Soil | EPA 8260 |
| | | | | EPA 8270 |
| | | | | EPA 8270-SIM |
| | | | | EPA 8081 |
| | | | | EPA 5030/M8015 |



EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-08'8

| Sample ID | Control # | Col Date | Matrix | Analysis |
|---|---|---|---|---|
| | | | | EPA M8015 (JP-5) |
| | | | | EPA M8015 |
| | | | | Metals |
| | | | | Mercury |
| | | | | Cyanide |
| | | | | pH |
| 18609-2356 | J141-07 | 10/28/99 | Soil | EPA 8260 |
| | | | | EPA 8270 |
| | | | | EPA 8270-SIM |
| | | | | EPA 8081 |
| | | | | EPA 5030/M8015 |
| | | | | EPA M8015 (JP-5) |
| | | | | EPA M8015 |
| | | | | Metals |
| | | | | Mercury |
| | | | | Cyanide |
| | | | | pH |
| 18609-2357 | J141-08 | 10/28/99 | Soil | EPA 8260 |
| | | | | EPA 8270 |
| | | | | EPA 8270-SIM |
| | | | | EPA 8081 |
| | | | | EPA 5030/M8015 |
| | | | | EPA M8015 (JP-5) |
| | | | | EPA M8015 |
| | | | | Metals |
| | | | | Mercury |
| | | | | Cyanide |
| | | | | pH |
| 18609-2358 | J141-09 | 10/28/99 | Soil | EPA 8260 |
| | | | | EPA 8270 |
| | | | | EPA 8270-SIM |
| | | | | Metals |
| | | | | Mercury |
| | | | | EPA 8081 |
| | | | | EPA 5030/M8015 |
| | | | | EPA M8015 (JP-5) |
| | | | | EPA M8015 |
| | | | | Cyanide |
| | | | | pH |
| 18609-2359 | J141-10 | 10/28/99 | Soil | EPA 8260 |
| | | | | EPA 8270 |



EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

| Sample ID | Control # | Col Date | Matrix | Analysis |
|---|---|---|---|---|
| | | | | EPA 8270-SIM<br>EPA 8081<br>EPA 5030/M8015<br>EPA M8015 (JP-5)<br>EPA M8015<br>Metals<br>Mercury<br>Cyanide<br>pH |
| 18609-2360 | J141-11 | 10/28/99 | Soil | EPA 8260<br>EPA 8270<br>EPA 8270-SIM<br>EPA 8081<br>EPA 5030/M8015<br>EPA M8015<br>Metals<br>Mercury<br>Cyanide<br>EPA M8015 (JP-5)<br>pH |
| 18609-2361 | J141-12 | 10/28/99 | Water | EPA 8260<br>EPA 8270<br>EPA 8270-SIM<br>EPA 8081<br>EPA 5030/M8015<br>EPA M8015<br>Metals<br>Mercury<br>Cyanide<br>EPA M8015 (JP-5)<br>pH |
| 18609-2362 | J141-13 | 10/28/99 | Water | EPA 8260 |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director



EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

..HOD M8015

TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

DIESEL

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 99J141

Matrix : SOIL
Instrument ID : GCT043

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | SUR1 (%) | SUR2 (%) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Receive DATETIM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | DSJ041SB | ND | 64 | 63 | 1 | NA | 10 | 6 | 11/02/9900:51 | 10/29/9913:30 | DK01-22 | DK01-16 | DSJ041S | NA | 10/29/9 |
| LCS1S | DSJ041SL | 303 | 66 | 65 | 1 | NA | 10 | 6 | 11/02/9901:30 | 10/29/9913:30 | DK01-23 | DK01-16 | DSJ041S | NA | 10/29/9 |
| 18609-2350 | J141-01 | ND | 78 | 79 | 1 | 9.6 | 11 | 6.6 | 11/02/9902:49 | 10/29/9913:30 | DK01-25 | DK01-16 | DSJ041S | 10/28/99 | 10/28/9 |
| 18609-2350MS | J141-01M | 528 | 98 | 101 | 1 | 9.6 | 11.1 | 6.64 | 11/02/9903:29 | 10/29/9913:30 | DK01-26 | DK01-16 | DSJ041S | 10/28/99 | 10/28/9 |
| 18609-2350MSD | J141-01S | 412 | 79 | 80 | 1 | 9.6 | 11.1 | 6.64 | 11/02/9905:27 | 10/29/9913:30 | DK01-29 | DK01-28 | DSJ041S | 10/28/99 | 10/28/9 |
| 18609-2351 | J141-02 | ND | 77 | 78 | 1 | 8.5 | 11 | 6.6 | 11/02/9907:25 | 10/29/9913:30 | DK01-32 | DK01-28 | DSJ041S | 10/28/99 | 10/28/9 |
| 18609-2352 | J141-03 | ND | 78 | 80 | 1 | 10.8 | 11 | 6.7 | 11/02/9908:04 | 10/29/9913:30 | DK01-33 | DK01-28 | DSJ041S | 10/28/99 | 10/28/9 |
| 18609-2353 | J141-04 | ND | 77 | 79 | 1 | 10.6 | 11 | 6.7 | 11/02/9908:43 | 10/29/9913:30 | DK01-34 | DK01-28 | DSJ041S | 10/28/99 | 10/28/9 |
| 18609-2354 | J141-05 | ND | 76 | 78 | 1 | 7.9 | 11 | 6.5 | 11/02/9909:22 | 10/29/9913:30 | DK01-35 | DK01-28 | DSJ041S | 10/28/99 | 10/28/9 |
| 18609-2355 | J141-06 | ND | 79 | 82 | 1 | 8.2 | 11 | 6.5 | 11/02/9910:02 | 10/29/9913:30 | DK01-36 | DK01-28 | DSJ041S | 10/28/99 | 10/28/9 |
| 18609-2356 | J141-07 | ND | 78 | 80 | 1 | 11.7 | 11 | 6.8 | 11/02/9910:41 | 10/29/9913:30 | DK01-37 | DK01-28 | DSJ041S | 10/28/99 | 10/28/9 |
| 18609-2357 | J141-08 | ND | 75 | 75 | 1 | 10.3 | 11 | 6.7 | 11/02/9912:39 | 10/29/9913:30 | DK01-40 | DK01-39 | DSJ041S | 10/28/99 | 10/28/9 |
| 18609-2358 | J141-09 | ND | 79 | 80 | 1 | 11.8 | 11 | 6.8 | 11/02/9913:19 | 10/29/9913:30 | DK01-41 | DK01-39 | DSJ041S | 10/28/99 | 10/28/9 |
| 18609-2359 | J141-10 | ND | 78 | 79 | 1 | 11.4 | 11 | 6.8 | 11/02/9913:58 | 10/29/9913:30 | DK01-42 | DK01-39 | DSJ041S | 10/28/99 | 10/28/9 |
| 18609-2360 | J141-11 | ND | 78 | 79 | 1 | 11.8 | 11 | 6.8 | 11/02/9914:38 | 10/29/9913:30 | DK01-43 | DK01-39 | DSJ041S | 10/28/99 | 10/28/9 |

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
H-C RANGE: C7-C18 = JP-5
C6-C12 = Gas
C10-C24 = Diesel
C18-C34 = Motor Oil
E : Value exceed the upper level of the initial calibration
D : Value from dilution

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION
DIESEL

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 99J141

Matrix : WATER
Instrument ID : GCT043

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | SUR1 (%) | SUR2 (%) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Receive DATETIM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | DSJ044WB | ND | 67 | 80 | 1 | NA | .1 | 82.1 | 11/01/9913:40 | 10/30/9916:00 | DK01-5 | DK01-4 | DSJ044W | NA | 10/30/9 |
| LCS1W | DSJ044WL | 5.06 | 96 | 113 | 1 | NA | .1 | 82.1 | 11/01/9914:59 | 10/30/9916:00 | DK01-7 | DK01-4 | DSJ044W | NA | 10/30/9 |
| LCD1W | DSJ044WC | 3.78 | 77 | 87 | 1 | NA | .1 | 82.1 | 11/01/9915:39 | 10/30/9916:00 | DK01-8 | DK01-4 | DSJ044W | NA | 10/30/9 |
| 18609-2361 | J141-12 | ND | 89 | 106 | .97 | NA | .097 | 80 | 11/01/9919:37 | 10/30/9916:00 | DK01-14 | DK01-4 | DSJ044W | 10/28/99 | 10/28/9 |

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
H-C RANGE: C7-C18 = JP-5
C6-C12 = Gas
C10-C24 = Diesel
C18-C34 = Motor Oil
E : Value exceed the upper level of the initial calibration
D : Value from dilution

IOD M8015

TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

(JP5)

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 99J141

Matrix : SOIL
Instrument ID : GCT043

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | SUR1 (%) | SUR2 (%) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Receivec DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | DSJ041SB | ND | 64 | 63 | 1 | NA | 10 | 6 | 11/02/9900:51 | 10/29/9913:30 | DK01-22 | DK01-16 | DSJ041S | NA | 10/29/99 |
| LCS2S | DSJ042SL | 467 | 94 | 75 | 1 | NA | 10 | 6 | 11/02/9902:10 | 10/29/9913:30 | DK01-24 | DK01-16 | DSJ042S | NA | 10/29/99 |
| 18609-2350 | J141-01 | ND | 78 | 79 | 1 | 9.6 | 11 | 6.6 | 11/02/9902:49 | 10/29/9913:30 | DK01-25 | DK01-16 | DSJ042S | 10/28/99 | 10/28/99 |
| 18609-2350MS | J141-01M | 538 | 127 | 91 | 1 | 9.6 | 11.1 | 6.64 | 11/02/9906:06 | 10/29/9913:30 | DK01-30 | DK01-28 | DSJ042S | 10/28/99 | 10/28/99 |
| 18609-2350MSD | J141-01S | 439 | 108 | 74 | 1 | 9.6 | 11.1 | 6.64 | 11/02/9906:46 | 10/29/9913:30 | DK01-31 | DK01-28 | DSJ042S | 10/28/99 | 10/28/99 |
| 18609-2351 | J141-02 | ND | 77 | 78 | 1 | 8.5 | 11 | 6.6 | 11/02/9907:25 | 10/29/9913:30 | DK01-32 | DK01-28 | DSJ042S | 10/28/99 | 10/28/99 |
| 18609-2352 | J141-03 | ND | 78 | 80 | 1 | 10.8 | 11 | 6.7 | 11/02/9908:04 | 10/29/9913:30 | DK01-33 | DK01-28 | DSJ042S | 10/28/99 | 10/28/99 |
| 18609-2353 | J141-04 | ND | 77 | 79 | 1 | 10.6 | 11 | 6.7 | 11/02/9908:43 | 10/29/9913:30 | DK01-34 | DK01-28 | DSJ042S | 10/28/99 | 10/28/99 |
| 18609-2354 | J141-05 | ND | 76 | 78 | 1 | 7.9 | 11 | 6.5 | 11/02/9909:22 | 10/29/9913:30 | DK01-35 | DK01-28 | DSJ042S | 10/28/99 | 10/28/99 |
| 18609-2355 | J141-06 | ND | 79 | 82 | 1 | 8.2 | 11 | 6.5 | 11/02/9910:02 | 10/29/9913:30 | DK01-36 | DK01-28 | DSJ042S | 10/28/99 | 10/28/99 |
| 18609-2356 | J141-07 | ND | 78 | 80 | 1 | 11.7 | 11 | 6.8 | 11/02/9910:41 | 10/29/9913:30 | DK01-37 | DK01-28 | DSJ042S | 10/28/99 | 10/28/99 |
| 18609-2357 | J141-08 | ND | 75 | 75 | 1 | 10.3 | 11 | 6.7 | 11/02/9912:39 | 10/29/9913:30 | DK01-40 | DK01-39 | DSJ042S | 10/28/99 | 10/28/99 |
| 18609-2358 | J141-09 | ND | 79 | 80 | 1 | 11.8 | 11 | 6.8 | 11/02/9913:19 | 10/29/9913:30 | DK01-41 | DK01-39 | DSJ042S | 10/28/99 | 10/28/99 |
| 18609-2359 | J141-10 | ND | 78 | 79 | 1 | 11.4 | 11 | 6.8 | 11/02/9913:58 | 10/29/9913:30 | DK01-42 | DK01-39 | DSJ042S | 10/28/99 | 10/28/99 |
| 18609-2360 | J141-11 | ND | 78 | 79 | 1 | 11.8 | 11 | 6.8 | 11/02/9914:38 | 10/29/9913:30 | DK01-43 | DK01-39 | DSJ042S | 10/28/99 | 10/28/99 |

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
H-C RANGE: C7-C18 = JP-5
C6-C12 = Gas
C10-C24 = Diesel
C18-C34 = Motor Oil
E : Value exceed the upper level of the initial calibration
D : Value from dilution

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION
(JP5)

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 99J141

Matrix : WATER
Instrument ID : GCT043

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | SUR1 (%) | SUR2 (%) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Receive DATETIM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | DSJ044WB | ND | 67 | 80 | 1 | NA | .1 | 82.1 | 11/01/9913:40 | 10/30/9916:00 | DK01-5 | DK01-4 | DSJ044W | NA | 10/30/9 |
| LCS2W | DSJ045WL | 4.26 | 102 | 83 | 1 | NA | .1 | 82.1 | 11/01/9916:58 | 10/30/9916:00 | DK01-10 | DK01-4 | DSJ045W | NA | 10/30/9 |
| LCD2W | DSJ045WC | 4.54 | 109 | 88 | 1 | NA | .1 | 82.1 | 11/01/9917:38 | 10/30/9916:00 | DK01-11 | DK01-4 | DSJ045W | NA | 10/30/9 |
| 18609-2362 | J141-12 | ND | 89 | 106 | .97 | NA | .097 | 82.5 | 11/01/9919:37 | 10/30/9916:00 | DK01-14 | DK01-4 | DSJ045W | 10/28/99 | 10/28/9 |

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
H-C RANGE: C7-C18 = JP-5
C6-C12 = Gas
C10-C24 = Diesel
C18-C34 = Motor Oil
E : Value exceed the upper level of the initial calibration
D : Value from dilution

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J141
METHOD: METHOD M8015

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LCS SAMP ID: | DSJ044WB | DSJ044WL | DSJ044WC | | |
| LCS FILE ID: | DK01-5 | DK01-7 | DK01-8 | | |
| DATE EXTRACTED: | 10/30/9916:00 | 10/30/9916:00 | 10/30/9916:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 11/01/9913:40 | 11/01/9914:59 | 11/01/9915:39 | DATE RECEIVED: | 10/30/99 |
| PREP. BATCH: | DSJ044W | DSJ044W | DSJ044W | | |
| CALIB. REF: | DK01-4 | DK01-4 | DK01-4 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | ND | 5 | 5.06 | 101 | 5 | 3.78 | 76 | 0 | 61-143 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 1 | .96 | 96 | 1 | .771 | 77 | 65-135 |
| Hexacosane | 1 | 1.13 | 113 | 1 | .872 | 87 | 60-145 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J141
METHOD: METHOD M8015

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MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: DSJ041SB DSJ041SL
LAB FILE ID: DK01-22 DK01-23
DATE EXTRACTED: 10/29/9913:30 10/29/9913:30 DATE COLLECTED: NA
DATE ANALYZED: 11/02/9900:51 11/02/9901:30 DATE RECEIVED: 10/29/99
PREP. BATCH: DSJ041S DSJ041S
CALIB. REF: DK01-16 DK01-16

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Diesel | ND | 500 | 303 | 61 | 51-153 |

==========

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|
| Bromobenzene | 100 | 66.4 | 66 | 60-140 |
| Hexacosane | 100 | 64.7 | 65 | 55-150 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J141
METHOD: METHOD M8015

MATRIX: SOIL % MOISTURE: 9.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | 18609-2350 | | | | |
| LAB SAMP ID: | J141-01 | J141-01M | J141-01S | | |
| LAB FILE ID: | DK01-25 | DK01-30 | DK01-31 | | |
| DATE EXTRACTED: | 10/29/9913:30 | 10/29/9913:30 | 10/29/9913:30 | DATE COLLECTED: | 10/28/99 |
| DATE ANALYZED: | 11/02/9902:49 | 11/02/9906:06 | 11/02/9906:46 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | DSJ041S | DSJ041S | DSJ041S | | |
| CALIB. REF: | DK01-16 | DK01-28 | DK01-28 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | ND | 553 | 528 | 95 | 553 | 412 | 75 | 24 | 51-153 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 111 | 108.8 | 98 | 111 | 87.3 | 79 | 60-140 |
| Tetracosane | 111 | 111.7 | 101 | 111 | 90.2 | 82 | 55-150 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J141
METHOD: METHOD M8015

==========

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: DSJ041SB DSJ042SL
LAB FILE ID: DK01-22 DK01-24
DATE EXTRACTED: 10/29/9913:30 10/29/9913:30 DATE COLLECTED: NA
DATE ANALYZED: 11/02/9900:51 11/02/9902:10 DATE RECEIVED: 10/29/99
PREP. BATCH: DSJ041S DSJ041S
CALIB. REF: DK01-16 DK01-16

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| JP5 | ND | 500 | 467 | 93 | 51-153 |

==========

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|
| Bromobenzene | 100 | 93.6 | 94 | 60-140 |
| Hexacosane | 100 | 75.4 | 75 | 55-150 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
LAB TCH NO.: 99J141
METHOD: METHOD M8015

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| GC/MS SAMP ID: | DSJ044WB | DSJ045WL | DSJ045WC | | |
| GC/MS FILE ID: | DK01-5 | DK01-10 | DK01-11 | | |
| DATE EXTRACTED: | 10/30/9916:00 | 10/30/9916:00 | 10/30/9916:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 11/01/9913:40 | 11/01/9916:58 | 11/01/9917:38 | DATE RECEIVED: | 10/29/99 |
| PREP. BATCH: | DSJ044W | DSJ044W | DSJ044W | | |
| CALIB. REF: | DK01-4 | DK01-4 | DK01-4 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| [illegible] | ND | 5 | 4.26 | 85 | 5 | 4.54 | 91 | 7 | 61-143 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 1 | 1.02 | 102 | 1 | 1.09 | 109 | 65-135 |
| Hexacosane | 1 | .83 | 83 | 1 | .879 | 88 | 60-145 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J141
METHOD: METHOD M8015

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 9.6 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | 18609-2350 | | | | |
| LAB SAMP ID: | J141-01 | J141-01M | J141-01S | | |
| LAB FILE ID: | DK01-25 | DK01-30 | DK01-31 | | |
| DATE EXTRACTED: | 10/29/9913:30 | 10/29/9913:30 | 10/29/9913:30 | DATE COLLECTED: | 10/28/99 |
| DATE ANALYZED: | 11/02/9902:49 | 11/02/9906:06 | 11/02/9906:46 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | DSJ041S | DSJ041S | DSJ041S | | |
| CALIB. REF: | DK01-16 | DK01-28 | DK01-28 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| JP5 | ND | 553 | 538 | 97 | 553 | 439 | 79 | 20 | 51-153 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 111 | 140.3 | 127 | 111 | 118.9 | 108 | 60-140 |
| Hexacosane | 111 | 100.3 | 91 | 111 | 81.5 | 74 | 55-150 |

METHOD 5030A/M8015

TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 99J141

Matrix : SOIL
Instrument ID : GCT039

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | SURR (%) | DLF | MOIST | PRL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | VAJ4339B | ND | 80 | 1 | NA | 1 | .09 | 11/01/9900:17 | 11/01/9900:17 | EJ18-4 | EJ18-3 | VAJ4339 | NA | NA |
| LCS1S | VAJ4339L | 5.29 | 91 | 1 | NA | 1 | .09 | 11/01/9900:53 | 11/01/9900:53 | EJ18-5 | EJ18-3 | VAJ4339 | NA | NA |
| LCD1S | VAJ4339C | 4.93 | 90 | 1 | NA | 1 | .09 | 11/01/9901:28 | 11/01/9901:28 | EJ18-6 | EJ18-3 | VAJ4339 | NA | NA |
| MBLK2S | VAK0239B | ND | 90 | 1 | NA | 1 | .09 | 11/02/9903:55 | 11/02/9903:55 | EK01-16 | EK01-15 | VAK0239 | NA | NA |
| LCS2S | VAK0239L | 5.48 | 95 | 1 | NA | 1 | .09 | 11/02/9904:30 | 11/02/9904:30 | EK01-17 | EK01-15 | VAK0239 | NA | NA |
| LCD2S | VAK0239C | 5.56 | 96 | 1 | NA | 1 | .09 | 11/02/9905:05 | 11/02/9905:05 | EK01-18 | EK01-15 | VAK0239 | NA | NA |
| 18609-2350 | J141-01 | ND | 87 | 1 | 9.6 | 1.1 | .10 | 11/01/9910:53 | 11/01/9910:53 | EJ18-22 | EJ18-15 | VAJ4339 | 10/28/99 | 10/28/99 |
| 18609-2351 | J141-02 | ND | 77 | 1 | 8.5 | 1.1 | .098 | 11/01/9911:28 | 11/01/9911:28 | EJ18-23 | EJ18-15 | VAJ4339 | 10/28/99 | 10/28/99 |
| 18609-2352 | J141-03 | ND | 89 | 1 | 10.8 | 1.1 | .1 | 11/01/9912:32 | 11/01/9912:32 | EJ18-24 | EJ18-15 | VAJ4339 | 10/28/99 | 10/28/99 |
| 18609-2353 | J141-04 | ND | 86 | 1 | 10.6 | 1.1 | .1 | 11/01/9913:08 | 11/01/9913:08 | EJ18-25 | EJ18-15 | VAJ4339 | 10/28/99 | 10/28/99 |
| 18609-2354 | J141-05 | ND | 85 | 1 | 7.9 | 1.1 | .098 | 11/01/9914:55 | 11/01/9914:55 | EJ18-28 | EJ18-27 | VAJ4339 | 10/28/99 | 10/28/99 |
| 18609-2355 | J141-06 | ND | 89 | 1 | 8.2 | 1.1 | .098 | 11/01/9915:30 | 11/01/9915:30 | EJ18-29 | EJ18-27 | VAJ4339 | 10/28/99 | 10/28/99 |
| 18609-2356 | J141-07 | ND | 84 | 1 | 11.7 | 1.1 | .1 | 11/01/9916:06 | 11/01/9916:06 | EJ18-30 | EJ18-27 | VAJ4339 | 10/28/99 | 10/28/99 |
| 18609-2357 | J141-08 | ND | 68 | 1 | 10.3 | 1.1 | .1 | 11/01/9916:41 | 11/01/9916:41 | EJ18-31 | EJ18-27 | VAJ4339 | 10/28/99 | 10/28/99 |
| 18609-2358 | J141-09 | ND | 78 | 1 | 11.8 | 1.1 | .1 | 11/01/9917:16 | 11/01/9917:16 | EJ18-32 | EJ18-27 | VAJ4339 | 10/28/99 | 10/28/99 |
| 18609-2359 | J141-10 | ND | 85 | 1 | 11.4 | 1.1 | .1 | 11/02/9905:40 | 11/02/9905:40 | EK01-19 | EK01-15 | VAK0239 | 10/28/99 | 10/28/99 |
| 18609-2360 | J141-11 | ND | 82 | 1 | 11.8 | 1.1 | .1 | 11/02/9906:15 | 11/02/9906:15 | EK01-20 | EK01-15 | VAK0239 | 10/28/99 | 10/28/99 |

SURR : Bromofluorobenzene
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution

METHOD 5030A/M8015

TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 99J141

Matrix : WATER
Instrument ID : GCT039

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | SURR (%) | DLF | MOIST | PRL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | VAK0139B | ND | 88 | 1 | NA | .1 | .018 | 11/01/9920:56 | 11/01/9920:56 | EK01-4 | EK01-3 | VAK0139 | NA | NA |
| LCS1W | VAK0139L | 1.15 | 104 | 1 | NA | .1 | .018 | 11/01/9921:31 | 11/01/9921:31 | EK01-5 | EK01-3 | VAK0139 | NA | NA |
| LCD1W | VAK0139C | 1.17 | 98 | 1 | NA | .1 | .018 | 11/01/9922:06 | 11/01/9922:06 | EK01-6 | EK01-3 | VAK0139 | NA | NA |
| 18609-2361 | J141-12 | ND | 88 | 1 | NA | .1 | .018 | 11/02/9900:23 | 11/02/9900:23 | EK01-10 | EK01-3 | VAK0139 | 10/28/99 | 10/28/99 |
| 18609-2361MS | J141-12M | 1.1 | 94 | 1 | NA | .1 | .018 | 11/02/9900:58 | 11/02/9900:58 | EK01-11 | EK01-3 | VAK0139 | 10/28/99 | 10/28/99 |
| 18609-2361MSD | J141-12S | 1.12 | 96 | 1 | NA | .1 | .018 | 11/02/9901:33 | 11/02/9901:33 | EK01-12 | EK01-3 | VAK0139 | 10/28/99 | 10/28/99 |

SURR : Bromofluorobenzene
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
OJECT: MCAS EL TORO/18609/D.O. 70
TCH NO.: 99J141
D: METHOD 5030A/M8015

| | | | | | |
|---|---|---|---|---|---|
| TRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| B SAMP ID: | VAJ4339B | VAJ4339L | VAJ4339C | | |
| B FILE ID: | EJ18-4 | EJ18-5 | EJ18-6 | | |
| DATE EXTRACTED: | 11/01/9900:17 | 11/01/9900:53 | 11/01/9901:28 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 11/01/9900:17 | 11/01/9900:53 | 11/01/9901:28 | DATE RECEIVED: | |
| EP. BATCH: | VAJ4339 | VAJ4339 | VAJ4339 | | |
| LIB. REF: | EJ18-3 | EJ18-3 | EJ18-3 | | |

ACCESSION:

| RAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline | ND | 5.5 | 5.29 | 96 | 5.5 | 4.93 | 90 | 7 | 57-146 | 50 |

| ROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromofluorobenzene | .25 | .227 | 91 | .25 | .224 | 90 | 60-140 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J141
METHOD: METHOD 5030A/M8015

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK2S | | | | |
| LAB SAMP ID: | VAK0239B | VAK0239L | VAK0239C | | |
| LAB FILE ID: | EK01-16 | EK01-17 | EK01-18 | | |
| DATE EXTRACTED: | 11/02/9903:55 | 11/02/9904:30 | 11/02/9905:05 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 11/02/9903:55 | 11/02/9904:30 | 11/02/9905:05 | DATE RECEIVED: | |
| PREP. BATCH: | VAK0239 | VAK0239 | VAK0239 | | |
| CALIB. REF: | EK01-15 | EK01-15 | EK01-15 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline | ND | 5.5 | 5.48 | 100 | 5.5 | 5.56 | 101 | 2 | 57-146 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromofluorobenzene | .25 | .237 | 95 | .25 | .241 | 96 | 60-140 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
LAB NO.: 99J141
METHOD: METHOD 5030A/M8015

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VAK0139B | VAK0139L | VAK0139C | | |
| LAB FILE ID: | EK01-4 | EK01-5 | EK01-6 | | |
| DATE EXTRACTED: | 11/01/9920:56 | 11/01/9921:31 | 11/01/9922:06 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 11/01/9920:56 | 11/01/9921:31 | 11/01/9922:06 | DATE RECEIVED: | |
| PREP. BATCH: | VAK0139 | VAK0139 | VAK0139 | | |
| CALIB. REF: | EK01-3 | EK01-3 | EK01-3 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline | ND | 1.1 | 1.15 | 105 | 1.1 | 1.17 | 106 | 1 | 67-136 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromofluorobenzene | .05 | .0518 | 104 | .05 | .0491 | 98 | 65-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J141
METHOD: METHOD 5030A/M8015

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | 18609-2361 | | | | |
| LAB SAMP ID: | J141-12 | J141-12M | J141-12S | | |
| LAB FILE ID: | EK01-10 | EK01-11 | EK01-12 | | |
| DATE EXTRACTED: | 11/02/9900:23 | 11/02/9900:58 | 11/02/9901:33 | DATE COLLECTED: | 10/28/99 |
| DATE ANALYZED: | 11/02/9900:23 | 11/02/9900:58 | 11/02/9901:33 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | VAK0139 | VAK0139 | VAK0139 | | |
| CALIB. REF: | EK01-3 | EK01-3 | EK01-3 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/L) | SPIKE AMT (mg/L) | MS RSLT (mg/L) | MS % REC | SPIKE AMT (mg/L) | MSD RSLT (mg/L) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline | ND | 1.1 | 1.1 | 100 | 1.1 | 1.12 | 101 | 2 | 67-136 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (mg/L) | MS RSLT (mg/L) | MS % REC | SPIKE AMT (mg/L) | MSD RSLT (mg/L) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromofluorobenzene | .05 | .047 | 94 | .05 | .0478 | 96 | 65-135 |

SW3550A/8081
PESTICIDES/PCBS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 10:30 |
| Sample ID: | 18609-2350 | Date Analyzed: | 10/30/99 11:40 |
| Lab Samp ID: | J141-01 | Dilution Factor: | 1 |
| Lab File ID: | WJ28069A | Matrix : | SOIL |
| Ext Btch ID: | CPJ027S | % Moisture : | 9.6 |
| Calib. Ref.: | WJ28056A | Instrument ID : | GCT016 |

| PARAMETERS | RESULTS (mg/kg) | PQL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | .0021 | .00044\|.00038 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | .022 | .00035\|.00045 |
| BETA-BHC | (ND)\|ND | .037 | .00028\|.00019 |
| HEPTACHLOR | (ND)\|.0021J | .022 | .0004\|.00043 |
| DELTA-BHC | (ND)\|ND | .012 | .00025\|.00023 |
| ALDRIN | (ND)\|ND | .017 | .00026\|.00021 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | .023 | .00033\|.00033 |
| GAMMA-CHLORDANE | (ND)\|ND | .017 | .00046\|.00082 |
| ALPHA-CHLORDANE | (ND)\|ND | .017 | .00067\|.00043 |
| ENDOSULFAN I | (ND)\|ND | .023 | .00052\|.00047 |
| 4,4'-DDE | (ND)\|ND | .046 | .0005\|.00051 |
| DIELDRIN | (ND)\|ND | .039 | .00032\|.00024 |
| ENDRIN | (ND)\|ND | .04 | .00026\|.00024 |
| 4,4'-DDD | (ND)\|ND | .0033 | .00036\|.00038 |
| ENDOSULFAN II | (ND)\|ND | .027 | .00049\|.00047 |
| 4,4'-DDT | (ND)\|ND | .0033 | .00025\|.00025 |
| ENDRIN ALDEHYDE | (ND)\|ND | .018 | .00022\|.00014 |
| ENDOSULFAN SULFATE | (ND)\|ND | .04 | .00044\|.00038 |
| METHOXYCHLOR | (ND)\|ND | .063 | .00025\|.00022 |
| TOXAPHENE | (ND)\|ND | .77 | .0013\|.0023 |
| PCB-1016 | (ND)\|ND | .77 | .013\|.012 |
| PCB-1221 | (ND)\|ND | .77 | .0089\|.0079 |
| PCB-1232 | (ND)\|ND | .77 | .037\|.041 |
| PCB-1242 | (ND)\|ND | .77 | .015\|.015 |
| PCB-1248 | (ND)\|ND | .77 | .03\|.035 |
| PCB-1254 | (ND)\|ND | .77 | .039\|.043 |
| PCB-1260 | (ND)\|ND | .77 | .0063\|.0067 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| TETRACHLORO-M-XYLENE | (81)\|80 | 35-135 |
| DECACHLOROBIPHENYL | (90)\|88 | 25-143 |

PQL : Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550A/8081
PESTICIDES/PCBS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 10:30 |
| Sample ID: | 18609-2351 | Date Analyzed: | 10/30/99 15:37 |
| Lab Samp ID: | J141-02 | Dilution Factor: | 1 |
| Lab File ID: | WJ28076A | Matrix : | SOIL |
| Ext Btch ID: | CPJ027S | % Moisture : | 8.5 |
| Calib. Ref.: | WJ28072A | Instrument ID : | GCT016 |

| PARAMETERS | RESULTS (mg/kg) | PQL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | .0021 | .00044\|.00037 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | .022 | .00034\|.00044 |
| BETA-BHC | (ND)\|ND | .036 | .00028\|.00019 |
| HEPTACHLOR | (ND)\|.0017J | .022 | .0004\|.00043 |
| DELTA-BHC | (ND)\|ND | .012 | .00024\|.00023 |
| ALDRIN | (ND)\|ND | .016 | .00026\|.00021 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | .023 | .00032\|.00032 |
| GAMMA-CHLORDANE | (ND)\|ND | .016 | .00045\|.00081 |
| ALPHA-CHLORDANE | (ND)\|ND | .016 | .00066\|.00042 |
| ENDOSULFAN I | (ND)\|ND | .023 | .00052\|.00046 |
| 4,4'-DDE | (ND)\|.0012J | .046 | .00049\|.0005 |
| DIELDRIN | (ND)\|ND | .038 | .00031\|.00024 |
| ENDRIN | (ND)\|ND | .039 | .00026\|.00023 |
| 4,4'-DDD | (ND)\|ND | .0033 | .00036\|.00038 |
| ENDOSULFAN II | (ND)\|ND | .026 | .00049\|.00046 |
| 4,4'-DDT | .0038\|(ND) | .0033 | .00025\|.00024 |
| ENDRIN ALDEHYDE | (ND)\|ND | .017 | .00022\|.00014 |
| ENDOSULFAN SULFATE | (ND)\|ND | .039 | .00043\|.00037 |
| METHOXYCHLOR | (ND)\|ND | .062 | .00024\|.00021 |
| TOXAPHENE | (ND)\|ND | .77 | .0013\|.0023 |
| PCB-1016 | (ND)\|ND | .77 | .013\|.012 |
| PCB-1221 | (ND)\|ND | .77 | .0088\|.0078 |
| PCB-1232 | (ND)\|ND | .77 | .036\|.04 |
| PCB-1242 | (ND)\|ND | .77 | .015\|.014 |
| PCB-1248 | (ND)\|ND | .77 | .03\|.035 |
| PCB-1254 | (ND)\|ND | .77 | .038\|.042 |
| PCB-1260 | (ND)\|ND | .77 | .0062\|.0066 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| TETRACHLORO-M-XYLENE | 85\|(88) | 35-135 |
| DECACHLOROBIPHENYL | (92)\|90 | 25-143 |

PQL: Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550A/8081
PESTICIDES/PCBS

| | | | |
|---|---|---|---|
| ient | : IT CORPORATION | Date Collected: | 10/28/99 |
| oject | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| 1 No. | : 99J141 | Date Extracted: | 10/29/99 10:30 |
| mple ID: | 18609-2352 | Date Analyzed: | 10/31/99 03:32 |
| b Samp ID: | J141-03 | Dilution Factor: | 1 |
| b File ID: | WJ28099A | Matrix : | SOIL |
| Ext Btch ID: | CPJ027S | % Moisture : | 10.8 |
| lib. Ref.: | WJ28095A | Instrument ID : | GCT016 |

| RAMETERS | RESULTS (mg/kg) | PQL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | .0021 | .00045\|.00038 |
| MMA-BHC (LINDANE) | (ND)\|ND | .022 | .00035\|.00046 |
| A-BHC | (ND)\|ND | .037 | .00029\|.00019 |
| HEPTACHLOR | (ND)\|ND | .022 | .00041\|.00044 |
| DELTA-BHC | (ND)\|ND | .012 | .00025\|.00023 |
| RIN | (ND)\|ND | .017 | .00027\|.00022 |
| TACHLOR EPOXIDE | (ND)\|ND | .024 | .00033\|.00033 |
| GAMMA-CHLORDANE | (ND)\|ND | .017 | .00046\|.00083 |
| HA-CHLORDANE | (ND)\|ND | .017 | .00067\|.00043 |
| OSULFAN I | (ND)\|ND | .024 | .00053\|.00048 |
| 4,4'-DDE | .015J\|(.016J) | .047 | .0005\|.00052 |
| DIELDRIN | (.002J)\|.0016J | .039 | .00032\|.00025 |
| RIN | (ND)\|ND | .04 | .00026\|.00024 |
| 4 -DDD | (ND)\|ND | .0034 | .00037\|.00039 |
| ENDOSULFAN II | .0013J\|(ND) | .027 | .0005\|.00048 |
| 4,4'-DDT | (.011)\|.02 | .0034 | .00025\|.00025 |
| ALDEHYDE | (.0021J)\|.0042J | .018 | .00022\|.00015 |
| ENDOSULFAN SULFATE | (ND)\|ND | .04 | .00044\|.00038 |
| METHOXYCHLOR | (ND)\|ND | .064 | .00025\|.00022 |
| APHENE | (ND)\|ND | .78 | .0013\|.0023 |
| -1016 | (ND)\|ND | .78 | .013\|.012 |
| PCB-1221 | (ND)\|ND | .78 | .009\|.008 |
| PCB-1232 | (ND)\|ND | .78 | .037\|.042 |
| -1242 | (ND)\|ND | .78 | .015\|.015 |
| -1248 | (ND)\|ND | .78 | .03\|.036 |
| PCB-1254 | (ND)\|ND | .78 | .039\|.044 |
| -1260 | (ND)\|ND | .78 | .0064\|.0067 |

| URROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| RACHLORO-M-XYLENE | 92\|(99) | 35-135 |
| ACHLOROBIPHENYL | (94)\|90 | 25-143 |

Q : Practical Quantitation Limit
( : of | is related to first column ; Right of | related to second column
) included the reported column

SW3550A/8081
PESTICIDES/PCBS

| | |
|---|---|
| Client : IT CORPORATION | Date Collected: 10/28/99 |
| Project : MCAS EL TORO/18609/D.O. 70 | Date Received: 10/28/99 |
| Batch No. : 99J141 | Date Extracted: 10/29/99 10:30 |
| Sample ID: 18609-2353 | Date Analyzed: 10/30/99 16:10 |
| Lab Samp ID: J141-04 | Dilution Factor: 1 |
| Lab File ID: WJ28077A | Matrix : SOIL |
| Ext Btch ID: CPJ027S | % Moisture : 10.6 |
| Calib. Ref.: WJ28072A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (mg/kg) | PQL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | .0021 | .00045\|.00038 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | .022 | .00035\|.00046 |
| BETA-BHC | (ND)\|ND | .037 | .00029\|.00019 |
| HEPTACHLOR | (ND)\|.0012J | .022 | .00041\|.00044 |
| DELTA-BHC | (ND)\|ND | .012 | .00025\|.00023 |
| ALDRIN | (ND)\|ND | .017 | .00027\|.00021 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | .023 | .00033\|.00033 |
| GAMMA-CHLORDANE | (ND)\|ND | .017 | .00046\|.00083 |
| ALPHA-CHLORDANE | (ND)\|ND | .017 | .00067\|.00043 |
| ENDOSULFAN I | (ND)\|ND | .023 | .00053\|.00047 |
| 4,4'-DDE | (ND)\|ND | .047 | .0005\|.00052 |
| DIELDRIN | (ND)\|ND | .039 | .00032\|.00024 |
| ENDRIN | (ND)\|ND | .04 | .00026\|.00024 |
| 4,4'-DDD | (ND)\|ND | .0034 | .00036\|.00039 |
| ENDOSULFAN II | (ND)\|ND | .027 | .0005\|.00048 |
| 4,4'-DDT | (ND)\|ND | .0034 | .00025\|.00025 |
| ENDRIN ALDEHYDE | (ND)\|ND | .018 | .00022\|.00015 |
| ENDOSULFAN SULFATE | (ND)\|ND | .04 | .00044\|.00038 |
| METHOXYCHLOR | (ND)\|ND | .064 | .00025\|.00022 |
| TOXAPHENE | (ND)\|ND | .78 | .0013\|.0023 |
| PCB-1016 | (ND)\|ND | .78 | .013\|.012 |
| PCB-1221 | (ND)\|ND | .78 | .009\|.008 |
| PCB-1232 | (ND)\|ND | .78 | .037\|.041 |
| PCB-1242 | (ND)\|ND | .78 | .015\|.015 |
| PCB-1248 | (ND)\|ND | .78 | .03\|.036 |
| PCB-1254 | (ND)\|ND | .78 | .039\|.043 |
| PCB-1260 | (ND)\|ND | .78 | .0064\|.0067 |

| URROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| ETRACHLORO-M-XYLENE | 88\|(94) | 35-135 |
| ECACHLOROBIPHENYL | (93)\|91 | 25-143 |

QL: Practical Quantitation Limit
eft of | is related to first column ; Right of | related to second column
) included the reported column

SW3550A/8081
PESTICIDES/PCBS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 10:30 |
| Sample ID: | 18609-2354 | Date Analyzed: | 10/30/99 16:44 |
| Lab Samp ID: | J141-05 | Dilution Factor: | 1 |
| Lab File ID: | WJ28078A | Matrix | : SOIL |
| Ext Btch ID: | CPJ027S | % Moisture | : 7.9 |
| Calib. Ref.: | WJ28072A | Instrument ID | : GCT016 |

| PARAMETERS | RESULTS (mg/kg) | PQL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | .0021 | .00044\|.00037 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | .022 | .00034\|.00044 |
| BETA-BHC | (ND)\|ND | .036 | .00028\|.00019 |
| HEPTACHLOR | (ND)\|.0018J | .022 | .0004\|.00042 |
| DELTA-BHC | (ND)\|ND | .012 | .00024\|.00023 |
| ALDRIN | (ND)\|ND | .016 | .00026\|.00021 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | .023 | .00032\|.00032 |
| GAMMA-CHLORDANE | (ND)\|ND | .016 | .00045\|.0008 |
| ALPHA-CHLORDANE | (ND)\|ND | .016 | .00065\|.00042 |
| ENDOSULFAN I | (ND)\|ND | .023 | .00051\|.00046 |
| 4,4'-DDE | .0039J\|(.0049J) | .046 | .00049\|.0005 |
| DIELDRIN | .0017J\|(ND) | .038 | .00031\|.00024 |
| ENDRIN | (ND)\|ND | .039 | .00026\|.00023 |
| 4,4'-DDD | (ND)\|ND | .0033 | .00035\|.00037 |
| ENDOSULFAN II | (ND)\|ND | .026 | .00048\|.00046 |
| 4,4'-DDT | .0054\|(.0061) | .0033 | .00025\|.00024 |
| ENDRIN ALDEHYDE | (ND)\|ND | .017 | .00022\|.00014 |
| ENDOSULFAN SULFATE | (ND)\|ND | .039 | .00043\|.00037 |
| METHOXYCHLOR | (ND)\|ND | .062 | .00024\|.00021 |
| TOXAPHENE | (ND)\|ND | .76 | .0013\|.0023 |
| PCB-1016 | (ND)\|ND | .76 | .013\|.011 |
| PCB-1221 | (ND)\|ND | .76 | .0088\|.0078 |
| PCB-1232 | (ND)\|ND | .76 | .036\|.04 |
| PCB-1242 | (ND)\|ND | .76 | .015\|.014 |
| PCB-1248 | (ND)\|ND | .76 | .03\|.034 |
| PCB-1254 | (ND)\|ND | .76 | .038\|.042 |
| PCB-1260 | (ND)\|ND | .76 | .0062\|.0065 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| TETRACHLORO-M-XYLENE | (97)\|111 | 35-135 |
| DECACHLOROBIPHENYL | (98)\|97 | 25-143 |

PQL: Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
(ND) included the reported column

SW3550A/8081
PESTICIDES/PCBS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 10:30 |
| Sample ID: | 18609-2355 | Date Analyzed: | 10/30/99 17:18 |
| Lab Samp ID: | J141-06 | Dilution Factor: | 1 |
| Lab File ID: | WJ28079A | Matrix : | SOIL |
| Ext Btch ID: | CPJ027S | % Moisture : | 8.2 |
| Calib. Ref.: | WJ28072A | Instrument ID : | GCT016 |

| PARAMETERS | RESULTS (mg/kg) | PQL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| ALPHA-BHC | (.00091J)\|.00087J | .0021 | .00044\|.00037 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | .022 | .00034\|.00044 |
| BETA-BHC | (ND)\|ND | .036 | .00028\|.00019 |
| HEPTACHLOR | (ND)\|.0013J | .022 | .0004\|.00042 |
| DELTA-BHC | (ND)\|ND | .012 | .00024\|.00023 |
| ALDRIN | (ND)\|ND | .016 | .00026\|.00021 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | .023 | .00032\|.00032 |
| GAMMA-CHLORDANE | (ND)\|ND | .016 | .00045\|.00081 |
| ALPHA-CHLORDANE | (ND)\|ND | .016 | .00066\|.00042 |
| ENDOSULFAN I | (ND)\|ND | .023 | .00052\|.00046 |
| 4,4'-DDE | (ND)\|ND | .046 | .00049\|.0005 |
| DIELDRIN | (ND)\|ND | .038 | .00031\|.00024 |
| ENDRIN | (ND)\|ND | .039 | .00026\|.00023 |
| 4,4'-DDD | (ND)\|ND | .0033 | .00036\|.00038 |
| ENDOSULFAN II | (ND)\|ND | .026 | .00048\|.00046 |
| 4,4'-DDT | (ND)\|ND | .0033 | .00025\|.00024 |
| ENDRIN ALDEHYDE | (ND)\|ND | .017 | .00022\|.00014 |
| ENDOSULFAN SULFATE | (ND)\|ND | .039 | .00043\|.00037 |
| METHOXYCHLOR | (ND)\|ND | .062 | .00024\|.00021 |
| TOXAPHENE | (ND)\|ND | .76 | .0013\|.0023 |
| PCB-1016 | (ND)\|ND | .76 | .013\|.012 |
| PCB-1221 | (ND)\|ND | .76 | .0088\|.0078 |
| PCB-1232 | (ND)\|ND | .76 | .036\|.04 |
| PCB-1242 | (ND)\|ND | .76 | .015\|.014 |
| PCB-1248 | (ND)\|ND | .76 | .03\|.035 |
| PCB-1254 | (ND)\|ND | .76 | .038\|.042 |
| PCB-1260 | (ND)\|ND | .76 | .0062\|.0066 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| TETRACHLORO-M-XYLENE | 84\|(87) | 35-135 |
| DECACHLOROBIPHENYL | (92)\|90 | 25-143 |

PQL: Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550A/8081
PESTICIDES/PCBS

| | | | |
|---|---|---|---|
| ient | : IT CORPORATION | Date Collected: | 10/28/99 |
| oiect | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| B No. | : 99J141 | Date Extracted: | 10/29/99 10:30 |
| Sample ID | : 18609-2356 | Date Analyzed: | 10/30/99 17:52 |
| Lab Samp ID | : J141-07 | Dilution Factor: | 1 |
| Lab File ID | : WJ28080A | Matrix | : SOIL |
| Ext Btch ID | : CPJ027S | % Moisture | : 11.7 |
| Calib. Ref. | : WJ28072A | Instrument ID | : GCT016 |

| PARAMETERS | RESULTS (mg/kg) | PQL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| ALPHA-BHC | .00086J \| (ND) | .0022 | .00046 \| .00039 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | .023 | .00036 \| .00046 |
| BETA-BHC | (ND) \| ND | .037 | .00029 \| .0002 |
| HEPTACHLOR | (ND) \| .0016J | .023 | .00041 \| .00044 |
| DELTA-BHC | (ND) \| ND | .012 | .00025 \| .00024 |
| ALDRIN | (ND) \| ND | .017 | .00027 \| .00022 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | .024 | .00033 \| .00034 |
| GAMMA-CHLORDANE | (ND) \| ND | .017 | .00047 \| .00084 |
| ALPHA-CHLORDANE | (ND) \| ND | .017 | .00068 \| .00044 |
| ENDOSULFAN I | (ND) \| ND | .024 | .00054 \| .00048 |
| 4,4'-DDE | .0014J \| (.0015J) | .048 | .00051 \| .00052 |
| DIELDRIN | (ND) \| .0016J | .04 | .00033 \| .00025 |
| ENDRIN | (ND) \| ND | .041 | .00027 \| .00024 |
| 4,4'-DDD | (ND) \| ND | .0034 | .00037 \| .00039 |
| ENDOSULFAN II | (ND) \| ND | .027 | .0005 \| .00048 |
| 4,4'-DDT | .0032J \| (.0044) | .0034 | .00026 \| .00025 |
| ENDRIN ALDEHYDE | (ND) \| ND | .018 | .00023 \| .00015 |
| ENDOSULFAN SULFATE | (ND) \| ND | .041 | .00045 \| .00039 |
| METHOXYCHLOR | (ND) \| ND | .065 | .00025 \| .00022 |
| TOXAPHENE | (ND) \| ND | .79 | .0014 \| .0024 |
| PCB-1016 | (ND) \| ND | .79 | .013 \| .012 |
| PCB-1221 | (ND) \| ND | .79 | .0091 \| .0081 |
| PCB-1232 | (ND) \| ND | .79 | .037 \| .042 |
| PCB-1242 | (ND) \| ND | .79 | .016 \| .015 |
| PCB-1248 | (ND) \| ND | .79 | .031 \| .036 |
| PCB-1254 | (ND) \| ND | .79 | .04 \| .044 |
| PCB-1260 | (ND) \| ND | .79 | .0065 \| .0068 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| TETRACHLORO-M-XYLENE | 91 \| (93) | 35-135 |
| DECACHLOROBIPHENYL | (90) \| 88 | 25-143 |

PQL: Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550A/8081
PESTICIDES/PCBS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 10:30 |
| Sample ID: | 18609-2357 | Date Analyzed: | 10/30/99 18:25 |
| Lab Samp ID: | J141-08 | Dilution Factor: | 1 |
| Lab File ID: | WJ28081A | Matrix : | SOIL |
| Ext Btch ID: | CPJ027S | % Moisture : | 10.3 |
| Calib. Ref.: | WJ28072A | Instrument ID : | GCT016 |

| PARAMETERS | RESULTS (mg/kg) | PQL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | .0021 | .00045\|.00038 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | .022 | .00035\|.00045 |
| BETA-BHC | (ND)\|ND | .037 | .00029\|.00019 |
| HEPTACHLOR | (ND)\|.0017J | .022 | .00041\|.00043 |
| DELTA-BHC | (ND)\|ND | .012 | .00025\|.00023 |
| ALDRIN | (ND)\|ND | .017 | .00027\|.00021 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | .023 | .00033\|.00033 |
| GAMMA-CHLORDANE | (ND)\|ND | .017 | .00046\|.00082 |
| ALPHA-CHLORDANE | (ND)\|ND | .017 | .00067\|.00043 |
| ENDOSULFAN I | (ND)\|ND | .023 | .00053\|.00047 |
| 4,4'-DDE | (ND)\|ND | .047 | .0005\|.00052 |
| DIELDRIN | (ND)\|ND | .039 | .00032\|.00024 |
| ENDRIN | (ND)\|ND | .04 | .00026\|.00024 |
| 4,4'-DDD | (ND)\|ND | .0033 | .00036\|.00038 |
| ENDOSULFAN II | (ND)\|ND | .027 | .0005\|.00047 |
| 4,4'-DDT | (ND)\|ND | .0033 | .00025\|.00025 |
| ENDRIN ALDEHYDE | (ND)\|ND | .018 | .00022\|.00014 |
| ENDOSULFAN SULFATE | (ND)\|ND | .04 | .00044\|.00038 |
| METHOXYCHLOR | (ND)\|ND | .064 | .00025\|.00022 |
| TOXAPHENE | (ND)\|ND | .78 | .0013\|.0023 |
| PCB-1016 | (ND)\|ND | .78 | .013\|.012 |
| PCB-1221 | (ND)\|ND | .78 | .009\|.008 |
| PCB-1232 | (ND)\|ND | .78 | .037\|.041 |
| PCB-1242 | (ND)\|ND | .78 | .015\|.015 |
| PCB-1248 | (ND)\|ND | .78 | .03\|.035 |
| PCB-1254 | (ND)\|ND | .78 | .039\|.043 |
| PCB-1260 | (ND)\|ND | .78 | .0064\|.0067 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| TETRACHLORO-M-XYLENE | 96\|(99) | 35-135 |
| DECACHLOROBIPHENYL | (98)\|96 | 25-143 |

QL: Practical Quantitation Limit
eft of | is related to first column ; Right of | related to second column
) included the reported column

SW3550A/8081
PESTICIDES/PCBS

| | | | |
|---|---|---|---|
| ( ient | : IT CORPORATION | Date Collected: | 10/28/99 |
| L ›iect | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| B No. | : 99J141 | Date Extracted: | 10/29/99 10:30 |
| S ıple ID: | 18609-2358 | Date Analyzed: | 10/30/99 18:59 |
| I › Samp ID: | J141-09 | Dilution Factor: | 1 |
| Lab File ID: | WJ28082A | Matrix : | SOIL |
| Ext Btch ID: | CPJ027S | % Moisture : | 11.8 |
| C ib. Ref.: | WJ28072A | Instrument ID : | GCT016 |

| P AMETERS | RESULTS (mg/kg) | PQL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | .0022 | .00046\|.00039 |
| G MA-BHC (LINDANE) | (ND)\|ND | .023 | .00036\|.00046 |
| B A-BHC | (ND)\|ND | .037 | .00029\|.0002 |
| HEPTACHLOR | (ND)\|ND | .023 | .00041\|.00044 |
| DELTA-BHC | (ND)\|ND | .012 | .00025\|.00024 |
| A RIN | (ND)\|ND | .017 | .00027\|.00022 |
| H TACHLOR EPOXIDE | (ND)\|ND | .024 | .00033\|.00034 |
| GAMMA-CHLORDANE | (ND)\|ND | .017 | .00047\|.00084 |
| A HA-CHLORDANE | (ND)\|ND | .017 | .00068\|.00044 |
| E DSULFAN I | (ND)\|ND | .024 | .00054\|.00048 |
| 4,4'-DDE | (ND)\|ND | .048 | .00051\|.00052 |
| DIELDRIN | (ND)\|ND | .04 | .00033\|.00025 |
| E RIN | (ND)\|ND | .041 | .00027\|.00024 |
| -DDD | (ND)\|ND | .0034 | .00037\|.00039 |
| ENDOSULFAN II | (ND)\|ND | .027 | .0005\|.00048 |
| ,'-DDT | (ND)\|ND | .0034 | .00026\|.00025 |
| E ALDEHYDE | (ND)\|ND | .018 | .00023\|.00015 |
| ENDOSULFAN SULFATE | (ND)\|ND | .041 | .00045\|.00039 |
| METHOXYCHLOR | (ND)\|ND | .065 | .00025\|.00022 |
| C PHENE | (ND)\|ND | .79 | .0014\|.0024 |
| C 1016 | (ND)\|ND | .79 | .013\|.012 |
| CB-1221 | (ND)\|ND | .79 | .0091\|.0081 |
| CB-1232 | (ND)\|ND | .79 | .038\|.042 |
| C 1242 | (ND)\|ND | .79 | .016\|.015 |
| CB-1248 | (ND)\|ND | .79 | .031\|.036 |
| CB-1254 | (ND)\|ND | .79 | .04\|.044 |
| C 1260 | (ND)\|ND | .79 | .0065\|.0068 |

| URROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| E ACHLORO-M-XYLENE | 86\|(89) | 35-135 |
| E CHLOROBIPHENYL | (95)\|93 | 25-143 |

Q Practical Quantitation Limit
e of | is related to first column ; Right of | related to second column
) included the reported column

SW3550A/8081
PESTICIDES/PCBS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 10:30 |
| Sample ID: | 18609-2359 | Date Analyzed: | 10/31/99 04:05 |
| Lab Samp ID: | J141-10 | Dilution Factor: | 1 |
| Lab File ID: | WJ28100A | Matrix : | SOIL |
| Ext Btch ID: | CPJ027S | % Moisture : | 11.4 |
| Calib. Ref.: | WJ28095A | Instrument ID : | GCT016 |

| PARAMETERS | RESULTS (mg/kg) | PQL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | .0021 | .00045\|.00038 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | .023 | .00036\|.00046 |
| BETA-BHC | (ND)\|ND | .037 | .00029\|.0002 |
| HEPTACHLOR | (ND)\|.0018J | .023 | .00041\|.00044 |
| DELTA-BHC | (ND)\|ND | .012 | .00025\|.00024 |
| ALDRIN | (ND)\|ND | .017 | .00027\|.00022 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | .024 | .00033\|.00034 |
| GAMMA-CHLORDANE | (ND)\|ND | .017 | .00047\|.00084 |
| ALPHA-CHLORDANE | (ND)\|ND | .017 | .00068\|.00044 |
| ENDOSULFAN I | (ND)\|ND | .024 | .00053\|.00048 |
| 4,4'-DDE | .0095J\|(.01J) | .047 | .00051\|.00052 |
| DIELDRIN | .0032J\|(.0016J) | .04 | .00032\|.00025 |
| ENDRIN | (ND)\|ND | .041 | .00027\|.00024 |
| 4,4'-DDD | (ND)\|ND | .0034 | .00037\|.00039 |
| ENDOSULFAN II | (ND)\|ND | .027 | .0005\|.00048 |
| 4,4'-DDT | .011\|(.016) | .0034 | .00026\|.00025 |
| ENDRIN ALDEHYDE | .002J\|(.0029J) | .018 | .00022\|.00015 |
| ENDOSULFAN SULFATE | (ND)\|ND | .041 | .00044\|.00039 |
| METHOXYCHLOR | (ND)\|ND | .064 | .00025\|.00022 |
| TOXAPHENE | (ND)\|ND | .79 | .0014\|.0023 |
| PCB-1016 | (ND)\|ND | .79 | .013\|.012 |
| PCB-1221 | (ND)\|ND | .79 | .0091\|.0081 |
| PCB-1232 | (ND)\|ND | .79 | .037\|.042 |
| PCB-1242 | (ND)\|ND | .79 | .016\|.015 |
| PCB-1248 | (ND)\|ND | .79 | .031\|.036 |
| PCB-1254 | (ND)\|ND | .79 | .04\|.044 |
| PCB-1260 | (ND)\|ND | .79 | .0064\|.0068 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| TETRACHLORO-M-XYLENE | 90\|(92) | 35-135 |
| DECACHLOROBIPHENYL | (93)\|85 | 25-143 |

PQL: Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550A/8081
PESTICIDES/PCBS

| | | | |
|---|---|---|---|
| ient | : IT CORPORATION | Date Collected: | 10/28/99 |
| oject | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| B No. | : 99J141 | Date Extracted: | 10/29/99 10:30 |
| Sa pe ID: | 18609-2360 | Date Analyzed: | 10/30/99 19:33 |
| ) Samp ID: | J141-11 | Dilution Factor: | 1 |
| ) File ID: | WJ28083A | Matrix : | SOIL |
| Ext Btch ID: | CPJ027S | % Moisture : | 11.8 |
| ib. Ref.: | WJ28072A | Instrument ID : | GCT016 |

| P AMETERS | RESULTS (mg/kg) | PQL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | .0022 | .00046\|.00039 |
| G^MMA-BHC (LINDANE) | (ND)\|ND | .023 | .00036\|.00046 |
| B A-BHC | (ND)\|ND | .037 | .00029\|.0002 |
| HEPTACHLOR | (ND)\|.0022J | .023 | .00041\|.00044 |
| DELTA-BHC | (ND)\|ND | .012 | .00025\|.00024 |
| RIN | (ND)\|ND | .017 | .00027\|.00022 |
| TACHLOR EPOXIDE | (ND)\|ND | .024 | .00033\|.00034 |
| GAMMA-CHLORDANE | (ND)\|ND | .017 | .00047\|.00084 |
| PHA-CHLORDANE | (ND)\|ND | .017 | .00068\|.00044 |
| OSULFAN I | (ND)\|ND | .024 | .00054\|.00048 |
| -DDE | (ND)\|ND | .048 | .00051\|.00052 |
| DIELDRIN | (ND)\|ND | .04 | .00033\|.00025 |
| RIN | (ND)\|ND | .041 | .00027\|.00024 |
| -DDD | (ND)\|ND | .0034 | .00037\|.00039 |
| NDOSULFAN II | (ND)\|ND | .027 | .0005\|.00048 |
| ,4'-DDT | .0022J\|(ND) | .0034 | .00026\|.00025 |
| ALDEHYDE | (ND)\|ND | .018 | .00023\|.00015 |
| ULFAN SULFATE | (ND)\|ND | .041 | .00045\|.00039 |
| ETHOXYCHLOR | (ND)\|ND | .065 | .00025\|.00022 |
| PHENE | (ND)\|ND | .79 | .0014\|.0024 |
| 1016 | (ND)\|ND | .79 | .013\|.012 |
| CB-1221 | (ND)\|ND | .79 | .0091\|.0081 |
| CB-1232 | (ND)\|ND | .79 | .038\|.042 |
| 1242 | (ND)\|ND | .79 | .016\|.015 |
| 1248 | (ND)\|ND | .79 | .031\|.036 |
| CB-1254 | (ND)\|ND | .79 | .04\|.044 |
| 1260 | (ND)\|ND | .79 | .0065\|.0068 |

| JRROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| ACHLORO-M-XYLENE | 86\|(95) | 35-135 |
| CHLOROBIPHENYL | (97)\|95 | 25-143 |

Q Practical Quantitation Limit
e of | is related to first column ; Right of | related to second column
) included the reported column

SW3520B/8081
PESTICIDES/PCBS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/28/99 18:00 |
| Sample ID: | 18609-2361 | Date Analyzed: | 10/30/99 09:59 |
| Lab Samp ID: | J141-12 | Dilution Factor: | .98 |
| Lab File ID: | WJ28066A | Matrix : | WATER |
| Ext Btch ID: | CPJ025W | % Moisture : | NA |
| Calib. Ref.: | WJ28056A | Instrument ID : | GCT016 |

| PARAMETERS | RESULTS (ug/L) | PQL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | .34 | .015\|.02 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | .25 | .013\|.021 |
| BETA-BHC | (ND)\|ND | .23 | .018\|.025 |
| HEPTACHLOR | (ND)\|ND | .39 | .015\|.031 |
| DELTA-BHC | (ND)\|ND | .24 | .013\|.012 |
| ALDRIN | (ND)\|ND | .029 | .012\|.011 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | .31 | .02\|.046 |
| GAMMA-CHLORDANE | (ND)\|ND | .36 | .022\|.02 |
| ALPHA-CHLORDANE | (ND)\|ND | .78 | .025\|.026 |
| ENDOSULFAN I | (ND)\|ND | .29 | .03\|.018 |
| 4,4'-DDE | (ND)\|ND | .49 | .022\|.021 |
| DIELDRIN | (ND)\|ND | .43 | .011\|.012 |
| ENDRIN | (ND)\|ND | .38 | .016\|.11 |
| 4,4'-DDD | (ND)\|ND | .49 | .032\|.02 |
| ENDOSULFAN II | (ND)\|ND | .39 | .021\|.025 |
| 4,4'-DDT | (ND)\|ND | .098 | .018\|.023 |
| ENDRIN ALDEHYDE | (ND)\|ND | .49 | .024\|.024 |
| ENDOSULFAN SULFATE | (ND)\|ND | .34 | .019\|.02 |
| METHOXYCHLOR | (ND)\|ND | .84 | .012\|.013 |
| TOXAPHENE | (ND)\|ND | 2 | .12\|.11 |
| PCB-1016 | (ND)\|ND | 2 | .58\|.56 |
| PCB-1221 | (ND)\|ND | 2 | .82\|.59 |
| PCB-1232 | (ND)\|ND | .98 | 1.1\|.81 |
| PCB-1242 | (ND)\|ND | .98 | .38\|.56 |
| PCB-1248 | (ND)\|ND | .98 | .46\|.24 |
| PCB-1254 | (ND)\|ND | .98 | .42\|.35 |
| PCB-1260 | (ND)\|ND | .98 | .29\|.49 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| TETRACHLORO-M-XYLENE | (93)\|88 | 45-125 |
| DECACHLOROBIPHENYL | 109\|(102) | 34-133 |

PQL: Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3520B/8081
PESTICIDES/PCBS

| | | | |
|---|---|---|---|
| ient | : IT CORPORATION | Date Collected: | NA |
| niect | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| B No. | : 99J141 | Date Extracted: | 10/28/99 18:00 |
| sample ID: | MBLK1W | Date Analyzed: | 10/30/99 02:41 |
| b Samp ID: | CPJ025WB | Dilution Factor: | 1 |
| Lab File ID: | WJ28053A | Matrix : | WATER |
| Ext Btch ID: | CPJ025W | % Moisture : | NA |
| ( lib. Ref.: | WJ28040A | Instrument ID : | GCT016 |

| PARAMETERS | RESULTS (ug/L) | PQL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | .35 | .015\|.02 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | .25 | .013\|.021 |
| BETA-BHC | (ND)\|ND | .23 | .018\|.025 |
| HEPTACHLOR | (ND)\|.062J | .4 | .015\|.032 |
| DELTA-BHC | (ND)\|.044J | .24 | .013\|.012 |
| ARIN | (ND)\|ND | .03 | .012\|.011 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | .32 | .02\|.047 |
| GAMMA-CHLORDANE | (ND)\|ND | .37 | .022\|.02 |
| ALPHA-CHLORDANE | (ND)\|ND | .8 | .025\|.027 |
| ENDOSULFAN I | (ND)\|ND | .3 | .031\|.018 |
| 4,4'-DDE | (ND)\|ND | .5 | .022\|.021 |
| DIELDRIN | (ND)\|ND | .44 | .011\|.012 |
| ENDRIN | (ND)\|ND | .39 | .016\|.12 |
| 4,4'-DDD | (ND)\|ND | .5 | .033\|.02 |
| ENDOSULFAN II | (ND)\|ND | .4 | .021\|.025 |
| 4,4'-DDT | (ND)\|ND | .1 | .018\|.023 |
| ENDRIN ALDEHYDE | (ND)\|ND | .5 | .024\|.024 |
| ENDOSULFAN SULFATE | (ND)\|ND | .35 | .019\|.02 |
| METHOXYCHLOR | (ND)\|ND | .86 | .012\|.013 |
| TOXAPHENE | (ND)\|ND | 2 | .12\|.12 |
| PCB-1016 | (ND)\|ND | 2 | .59\|.57 |
| PCB-1221 | (ND)\|ND | 2 | .83\|.6 |
| PCB-1232 | (ND)\|ND | 1 | 1.1\|.83 |
| PCB-1242 | (ND)\|ND | 1 | .39\|.57 |
| PCB-1248 | (ND)\|ND | 1 | .47\|.25 |
| PCB-1254 | (ND)\|ND | 1 | .43\|.35 |
| PCB-1260 | (ND)\|ND | 1 | .3\|.5 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| TETRACHLORO-M-XYLENE | (98)\|95 | 45-125 |
| DECACHLOROBIPHENYL | (102)\|96 | 34-133 |

PQL Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J141
METHOD: SW3520B/8081

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | CPJ025WB | CPJ025WL | CPJ025WC | | |
| LAB FILE ID: | WJ28053A | WJ28060A | WJ28061A | | |
| DATE EXTRACTED: | 10/28/9918:00 | 10/28/9918:00 | 10/28/9918:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 10/30/9902:41 | 10/30/9906:37 | 10/30/9907:11 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | CPJ025W | CPJ025W | CPJ025W | | |
| CALIB. REF: | WJ28040A | WJ28056A | WJ28056A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| gamma-BHC (Lindane) | (ND)\|ND | .2 | .205J\|(.207J) | 102\|(104) | .2 | (.203J)\|.203J | (101)\|101 | (1)\|2 | 43-125 | 30 |
| Heptachlor | (ND)\|.062J | .2 | .204J\|(.226J) | 102\|(82) | .2 | .204J\|(.259J) | 102\|(98) | 0\|(14) | 45-128 | 30 |
| Aldrin | (ND)\|ND | .2 | (.204)\|.23 | (102)\|115 | .2 | (.204)\|.263 | (102)\|132* | (0)\|1 | 47-125 | 30 |
| Dieldrin | (ND)\|ND | .4 | .4J\|(.405J) | 100\|(101) | .4 | .401J\|(.406J) | 100\|(101) | 0\|(0) | 42-132 | 30 |
| Endrin | (ND)\|ND | .4 | (.42)\|.39J | (105)\|97 | .4 | (.42)\|.388J | (105)\|97 | (0)\|1 | 43-134 | 30 |
| 4,4'-DDT | (ND)\|ND | .4 | (.377)\|.361 | (94)\|90 | .4 | (.376)\|.358 | (94)\|90 | (0)\|1 | 34-143 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | .4 | (.553)\|.563 | (138*)\|141* | .4 | (.554)\|.568 | (138*)\|142* | 45-125 |
| Decachlorobiphenyl | .8 | (.845)\|.863 | (106)\|108 | .8 | (.844)\|.863 | (106)\|108 | 34-133 |

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 11/07/99 03:45 |
| Sample ID: | 18609-2350 | Date Analyzed: | 11/07/99 03:45 |
| Lab Samp ID: | J141-01 | Dilution Factor: | 1 |
| Lab File ID: | RKQ105 | Matrix : | SOIL |
| Ext Btch ID: | VOK0805 | % Moisture : | 9.6 |
| Calib. Ref.: | RKQ100 | Instrument ID : | T-005 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ,1,1-TRICHLOROETHANE | ND | 5.5 | .37 |
| ,1,2,2-TETRACHLOROETHANE | ND | 5.5 | .37 |
| 1,1,2-TRICHLOROETHANE | ND | 5.5 | .26 |
| 1,1-DICHLOROETHANE | ND | 5.5 | .34 |
| ,1-DICHLOROETHENE | ND | 5.5 | .6 |
| ,2-DICHLOROETHANE | ND | 5.5 | .36 |
| 1,2-DICHLOROPROPANE | ND | 5.5 | .42 |
| 2-BUTANONE | ND | 55 | 5.7 |
| CHLOROETHYLVINYLETHER | ND | 55 | .19 |
| HEXANONE | ND | 55 | 1.4 |
| METHYL-2-PENTANONE | ND | 55 | 1.3 |
| ACETONE | ND | 55 | 4.5 |
| NZENE | ND | 5.5 | .27 |
| OMODICHLOROMETHANE | ND | 5.5 | .29 |
| OMOFORM | ND | 5.5 | .31 |
| BROMOMETHANE | ND | 5.5 | .71 |
| CARBON DISULFIDE | ND | 5.5 | .14 |
| RBON TETRACHLORIDE | ND | 5.5 | .88 |
| LOROBENZENE | ND | 5.5 | .22 |
| CHLOROETHANE | ND | 5.5 | 2 |
| CHLOROFORM | ND | 5.5 | .47 |
| ROMETHANE | ND | 5.5 | 2.3 |
| ,2-DICHLOROETHENE | ND | 5.5 | .32 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.5 | .25 |
| DIBROMOCHLOROMETHANE | ND | 5.5 | .087 |
| HYLBENZENE | ND | 5.5 | .43 |
| BE | ND | 11 | .41 |
| THYLENE CHLORIDE | ND | 5.5 | .45 |
| STYRENE | ND | 5.5 | .48 |
| TETRACHLOROETHENE | ND | 5.5 | .27 |
| LUENE | ND | 5.5 | .35 |
| ANS-1,2-DICHLOROETHENE | ND | 5.5 | .32 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.5 | .74 |
| TRICHLOROETHENE | ND | 5.5 | .28 |
| NYL ACETATE | ND | 55 | .79 |
| NYL CHLORIDE | ND | 5.5 | 1.1 |
| XYLENES | ND | 5.5 | 1.2 |

| RROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-DICHLOROETHANE-D4 | 97 | 52-149 |
| TOLUENE-D8 | 101 | 65-135 |
| BROMOFLUOROBENZENE | 88 | 65-135 |

: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 11/07/99 04:22 |
| Sample ID: | 18609-2351 | Date Analyzed: | 11/07/99 04:22 |
| Lab Samp ID: | J141-02 | Dilution Factor: | 1 |
| Lab File ID: | RKQ106 | Matrix : | SOIL |
| Ext Btch ID: | VOK0805 | % Moisture : | 8.5 |
| Calib. Ref.: | RKQ100 | Instrument ID : | T-005 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1-TRICHLOROETHANE | ND | 5.5 | .36 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5.5 | .36 |
| 1,1,2-TRICHLOROETHANE | ND | 5.5 | .25 |
| 1,1-DICHLOROETHANE | ND | 5.5 | .33 |
| 1,1-DICHLOROETHENE | ND | 5.5 | .59 |
| 1,2-DICHLOROETHANE | ND | 5.5 | .36 |
| 1,2-DICHLOROPROPANE | ND | 5.5 | .41 |
| 2-BUTANONE | ND | 55 | 5.6 |
| 2-CHLOROETHYLVINYLETHER | ND | 55 | .19 |
| 2-HEXANONE | ND | 55 | 1.4 |
| 4-METHYL-2-PENTANONE | ND | 55 | 1.2 |
| ACETONE | ND | 55 | 4.5 |
| BENZENE | ND | 5.5 | .27 |
| BROMODICHLOROMETHANE | ND | 5.5 | .28 |
| BROMOFORM | ND | 5.5 | .3 |
| BROMOMETHANE | ND | 5.5 | .7 |
| CARBON DISULFIDE | ND | 5.5 | .14 |
| CARBON TETRACHLORIDE | ND | 5.5 | .86 |
| CHLOROBENZENE | ND | 5.5 | .22 |
| CHLOROETHANE | ND | 5.5 | 1.9 |
| CHLOROFORM | ND | 5.5 | .46 |
| CHLOROMETHANE | ND | 5.5 | 2.2 |
| CIS-1,2-DICHLOROETHENE | ND | 5.5 | .32 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.5 | .24 |
| DIBROMOCHLOROMETHANE | ND | 5.5 | .086 |
| ETHYLBENZENE | ND | 5.5 | .43 |
| MTBE | ND | 11 | .41 |
| METHYLENE CHLORIDE | ND | 5.5 | .45 |
| STYRENE | ND | 5.5 | .48 |
| TETRACHLOROETHENE | ND | 5.5 | .27 |
| TOLUENE | ND | 5.5 | .34 |
| TRANS-1,2-DICHLOROETHENE | ND | 5.5 | .31 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.5 | .73 |
| TRICHLOROETHENE | ND | 5.5 | .28 |
| VINYL ACETATE | ND | 55 | .78 |
| VINYL CHLORIDE | ND | 5.5 | 1.1 |
| XYLENES | ND | 5.5 | 1.2 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 96 | 52-149 |
| TOLUENE-D8 | 99 | 65-135 |
| BROMOFLUOROBENZENE | 83 | 65-135 |

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 11/07/99 04:59 |
| Sample ID: | 18609-2352 | Date Analyzed: | 11/07/99 04:59 |
| Lab Samp ID: | J141-03 | Dilution Factor: | 1 |
| Lab File ID: | RKQ107 | Matrix : | SOIL |
| Ext Btch ID: | VOK0805 | % Moisture : | 10.8 |
| Calib. Ref.: | RKQ100 | Instrument ID : | T-005 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1-TRICHLOROETHANE | ND | 5.6 | .37 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5.6 | .37 |
| 1,1,2-TRICHLOROETHANE | ND | 5.6 | .26 |
| 1,1-DICHLOROETHANE | ND | 5.6 | .34 |
| 1,1-DICHLOROETHENE | ND | 5.6 | .6 |
| 1,2-DICHLOROETHANE | ND | 5.6 | .37 |
| 1,2-DICHLOROPROPANE | ND | 5.6 | .42 |
| 2-BUTANONE | ND | 56 | 5.7 |
| 2-CHLOROETHYLVINYLETHER | ND | 56 | .19 |
| 2-HEXANONE | ND | 56 | 1.4 |
| 4-METHYL-2-PENTANONE | ND | 56 | 1.3 |
| ACETONE | ND | 56 | 4.6 |
| BENZENE | ND | 5.6 | .28 |
| BROMODICHLOROMETHANE | ND | 5.6 | .29 |
| BROMOFORM | ND | 5.6 | .31 |
| BROMOMETHANE | ND | 5.6 | .72 |
| CARBON DISULFIDE | ND | 5.6 | .14 |
| CARBON TETRACHLORIDE | ND | 5.6 | .89 |
| CHLOROBENZENE | ND | 5.6 | .22 |
| CHLOROETHANE | ND | 5.6 | 2 |
| CHLOROFORM | ND | 5.6 | .48 |
| CHLOROMETHANE | ND | 5.6 | 2.3 |
| CIS-1,2-DICHLOROETHENE | ND | 5.6 | .33 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.6 | .25 |
| DIBROMOCHLOROMETHANE | ND | 5.6 | .089 |
| ETHYLBENZENE | ND | 5.6 | .44 |
| MTBE | ND | 11 | .42 |
| METHYLENE CHLORIDE | ND | 5.6 | .46 |
| STYRENE | ND | 5.6 | .49 |
| TETRACHLOROETHENE | ND | 5.6 | .27 |
| TOLUENE | ND | 5.6 | .35 |
| TRANS-1,2-DICHLOROETHENE | ND | 5.6 | .32 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.6 | .75 |
| TRICHLOROETHENE | ND | 5.6 | .29 |
| VINYL ACETATE | ND | 56 | .8 |
| VINYL CHLORIDE | ND | 5.6 | 1.1 |
| XYLENES | ND | 5.6 | 1.2 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 94 | 52-149 |
| TOLUENE-D8 | 97 | 65-135 |
| BROMOFLUOROBENZENE | 83 | 65-135 |

PRL : Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 11/07/99 05:37 |
| Sample ID: | 18609-2353 | Date Analyzed: | 11/07/99 05:37 |
| Lab Samp ID: | J141-04 | Dilution Factor: | 1 |
| Lab File ID: | RKQ108 | Matrix : | SOIL |
| Ext Btch ID: | VOK0805 | % Moisture : | 10.6 |
| Calib. Ref.: | RKQ100 | Instrument ID : | T-005 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1-TRICHLOROETHANE | ND | 5.6 | .37 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5.6 | .37 |
| 1,1,2-TRICHLOROETHANE | ND | 5.6 | .26 |
| 1,1-DICHLOROETHANE | ND | 5.6 | .34 |
| 1,1-DICHLOROETHENE | ND | 5.6 | .6 |
| 1,2-DICHLOROETHANE | ND | 5.6 | .36 |
| 1,2-DICHLOROPROPANE | ND | 5.6 | .42 |
| 2-BUTANONE | ND | 56 | 5.7 |
| 2-CHLOROETHYLVINYLETHER | ND | 56 | .19 |
| 2-HEXANONE | ND | 56 | 1.4 |
| 4-METHYL-2-PENTANONE | ND | 56 | 1.3 |
| ACETONE | ND | 56 | 4.6 |
| BENZENE | ND | 5.6 | .28 |
| BROMODICHLOROMETHANE | ND | 5.6 | .29 |
| BROMOFORM | ND | 5.6 | .31 |
| BROMOMETHANE | ND | 5.6 | .71 |
| CARBON DISULFIDE | ND | 5.6 | .14 |
| CARBON TETRACHLORIDE | ND | 5.6 | .88 |
| CHLOROBENZENE | ND | 5.6 | .22 |
| CHLOROETHANE | ND | 5.6 | 2 |
| CHLOROFORM | ND | 5.6 | .47 |
| CHLOROMETHANE | ND | 5.6 | 2.3 |
| CIS-1,2-DICHLOROETHENE | ND | 5.6 | .33 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.6 | .25 |
| DIBROMOCHLOROMETHANE | ND | 5.6 | .088 |
| ETHYLBENZENE | ND | 5.6 | .44 |
| MTBE | ND | 11 | .41 |
| METHYLENE CHLORIDE | ND | 5.6 | .46 |
| STYRENE | ND | 5.6 | .49 |
| TETRACHLOROETHENE | ND | 5.6 | .27 |
| TOLUENE | ND | 5.6 | .35 |
| TRANS-1,2-DICHLOROETHENE | ND | 5.6 | .32 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.6 | .74 |
| TRICHLOROETHENE | ND | 5.6 | .29 |
| VINYL ACETATE | ND | 56 | .8 |
| VINYL CHLORIDE | ND | 5.6 | 1.1 |
| XYLENES | ND | 5.6 | 1.2 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 97 | 52-149 |
| TOLUENE-D8 | 99 | 65-135 |
| BROMOFLUOROBENZENE | 90 | 65-135 |

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| ject | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| ch No. | : 99J141 | Date Extracted: | 11/07/99 06:15 |
| Sample ID: | 18609-2354 | Date Analyzed: | 11/07/99 06:15 |
| .ab Samp ID: | J141-05 | Dilution Factor: | 1 |
| Lab File ID: | RKQ109 | Matrix : | SOIL |
| Ext Btch ID: | VOK0805 | % Moisture : | 7.9 |
| Calib. Ref.: | RKQ100 | Instrument ID : | T-005 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ,1,1-TRICHLOROETHANE | ND | 5.4 | .36 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5.4 | .36 |
| 1,1,2-TRICHLOROETHANE | ND | 5.4 | .25 |
| ,1-DICHLOROETHANE | ND | 5.4 | .33 |
| ,1-DICHLOROETHENE | ND | 5.4 | .58 |
| ,2-DICHLOROETHANE | ND | 5.4 | .35 |
| 1,2-DICHLOROPROPANE | ND | 5.4 | .41 |
| 2-BUTANONE | ND | 54 | 5.6 |
| -CHLOROETHYLVINYLETHER | ND | 54 | .18 |
| -HEXANONE | ND | 54 | 1.4 |
| 4-METHYL-2-PENTANONE | ND | 54 | 1.2 |
| ACETONE | ND | 54 | 4.4 |
| ENZENE | ND | 5.4 | .27 |
| ROMODICHLOROMETHANE | ND | 5.4 | .28 |
| BROMOFORM | ND | 5.4 | .3 |
| BROMOMETHANE | ND | 5.4 | .69 |
| ARBON DISULFIDE | ND | 5.4 | .14 |
| ARBON TETRACHLORIDE | ND | 5.4 | .86 |
| HLOROBENZENE | ND | 5.4 | .21 |
| CHLOROETHANE | ND | 5.4 | 1.9 |
| CHLOROFORM | ND | 5.4 | .46 |
| ROMETHANE | ND | 5.4 | 2.2 |
| 1,2-DICHLOROETHENE | ND | 5.4 | .32 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.4 | .24 |
| DIBROMOCHLOROMETHANE | ND | 5.4 | .086 |
| THYLBENZENE | ND | 5.4 | .43 |
| TBE | ND | 11 | .4 |
| METHYLENE CHLORIDE | ND | 5.4 | .44 |
| STYRENE | ND | 5.4 | .48 |
| TRACHLOROETHENE | ND | 5.4 | .26 |
| OLUENE | ND | 5.4 | .34 |
| RANS-1,2-DICHLOROETHENE | ND | 5.4 | .31 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.4 | .72 |
| TRICHLOROETHENE | ND | 5.4 | .28 |
| NYL ACETATE | ND | 54 | .78 |
| NYL CHLORIDE | ND | 5.4 | 1.1 |
| XYLENES | ND | 5.4 | 1.2 |

| IRROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| T,2-DICHLOROETHANE-D4 | 96 | 52-149 |
| TOLUENE-D8 | 97 | 65-135 |
| OMOFLUOROBENZENE | 79 | 65-135 |

RL: Project Reporting Limit
* : Out side of QC Limit
' : An estimated value between PRL and MDL
: Value exceed the upper level of the initial calibration
: Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 11/07/99 06:52 |
| Sample ID: | 18609-2355 | Date Analyzed: | 11/07/99 06:52 |
| Lab Samp ID: | J141-06 | Dilution Factor: | 1 |
| Lab File ID: | RKQ110 | Matrix : | SOIL |
| Ext Btch ID: | VOK0805 | % Moisture : | 8.2 |
| Calib. Ref.: | RKQ100 | Instrument ID : | T-005 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1-TRICHLOROETHANE | ND | 5.4 | .36 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5.4 | .36 |
| 1,1,2-TRICHLOROETHANE | ND | 5.4 | .25 |
| 1,1-DICHLOROETHANE | ND | 5.4 | .33 |
| 1,1-DICHLOROETHENE | ND | 5.4 | .59 |
| 1,2-DICHLOROETHANE | ND | 5.4 | .36 |
| 1,2-DICHLOROPROPANE | ND | 5.4 | .41 |
| 2-BUTANONE | ND | 54 | 5.6 |
| 2-CHLOROETHYLVINYLETHER | ND | 54 | .19 |
| 2-HEXANONE | ND | 54 | 1.4 |
| 4-METHYL-2-PENTANONE | ND | 54 | 1.2 |
| ACETONE | ND | 54 | 4.5 |
| BENZENE | ND | 5.4 | .27 |
| BROMODICHLOROMETHANE | ND | 5.4 | .28 |
| BROMOFORM | ND | 5.4 | .3 |
| BROMOMETHANE | ND | 5.4 | .7 |
| CARBON DISULFIDE | ND | 5.4 | .14 |
| CARBON TETRACHLORIDE | ND | 5.4 | .86 |
| CHLOROBENZENE | ND | 5.4 | .21 |
| CHLOROETHANE | ND | 5.4 | 1.9 |
| CHLOROFORM | ND | 5.4 | .46 |
| CHLOROMETHANE | ND | 5.4 | 2.2 |
| CIS-1,2-DICHLOROETHENE | ND | 5.4 | .32 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.4 | .24 |
| DIBROMOCHLOROMETHANE | ND | 5.4 | .086 |
| ETHYLBENZENE | ND | 5.4 | .43 |
| MTBE | ND | 11 | .4 |
| METHYLENE CHLORIDE | ND | 5.4 | .45 |
| STYRENE | ND | 5.4 | .48 |
| TETRACHLOROETHENE | ND | 5.4 | .26 |
| TOLUENE | ND | 5.4 | .34 |
| TRANS-1,2-DICHLOROETHENE | ND | 5.4 | .31 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.4 | .73 |
| TRICHLOROETHENE | ND | 5.4 | .28 |
| VINYL ACETATE | ND | 54 | .78 |
| VINYL CHLORIDE | ND | 5.4 | 1.1 |
| XYLENES | ND | 5.4 | 1.2 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 93 | 52-149 |
| TOLUENE-D8 | 95 | 65-135 |
| BROMOFLUOROBENZENE | 78 | 65-135 |

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : IT CORPORATION | Date Collected: 10/28/99 |
| Project : MCAS EL TORO/18609/D.O. 70 | Date Received: 10/28/99 |
| Batch No. : 99J141 | Date Extracted: 11/07/99 07:30 |
| Sample ID: 18609-2356 | Date Analyzed: 11/07/99 07:30 |
| Lab Samp ID: J141-07 | Dilution Factor: 1 |
| Lab File ID: RKQ111 | Matrix : SOIL |
| Ext Btch ID: VOK0805 | % Moisture : 11.7 |
| Calib. Ref.: RKQ100 | Instrument ID : T-005 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1-TRICHLOROETHANE | ND | 5.7 | .37 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5.7 | .37 |
| 1,1,2-TRICHLOROETHANE | ND | 5.7 | .26 |
| 1,1-DICHLOROETHANE | ND | 5.7 | .34 |
| 1-DICHLOROETHENE | ND | 5.7 | .61 |
| 2-DICHLOROETHANE | ND | 5.7 | .37 |
| 1,2-DICHLOROPROPANE | ND | 5.7 | .43 |
| 2-BUTANONE | ND | 57 | 5.8 |
| CHLOROETHYLVINYLETHER | ND | 57 | .19 |
| HEXANONE | ND | 57 | 1.4 |
| METHYL-2-PENTANONE | ND | 57 | 1.3 |
| ACETONE | ND | 57 | 4.6 |
| BENZENE | ND | 5.7 | .28 |
| BROMODICHLOROMETHANE | ND | 5.7 | .29 |
| BROMOFORM | ND | 5.7 | .32 |
| BROMOMETHANE | ND | 5.7 | .72 |
| CARBON DISULFIDE | ND | 5.7 | .14 |
| CARBON TETRACHLORIDE | ND | 5.7 | .9 |
| CHLOROBENZENE | ND | 5.7 | .22 |
| CHLOROETHANE | ND | 5.7 | 2 |
| CHLOROFORM | ND | 5.7 | .48 |
| CHLOROMETHANE | ND | 5.7 | 2.3 |
| 1,2-DICHLOROETHENE | ND | 5.7 | .33 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.7 | .25 |
| DIBROMOCHLOROMETHANE | ND | 5.7 | .089 |
| ETHYLBENZENE | ND | 5.7 | .44 |
| MTBE | ND | 11 | .42 |
| METHYLENE CHLORIDE | ND | 5.7 | .46 |
| STYRENE | ND | 5.7 | .5 |
| TETRACHLOROETHENE | ND | 5.7 | .28 |
| TOLUENE | ND | 5.7 | .36 |
| TRANS-1,2-DICHLOROETHENE | ND | 5.7 | .33 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.7 | .75 |
| TRICHLOROETHENE | ND | 5.7 | .29 |
| VINYL ACETATE | ND | 57 | .81 |
| VINYL CHLORIDE | ND | 5.7 | 1.1 |
| XYLENES | ND | 5.7 | 1.2 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 100 | 52-149 |
| TOLUENE-D8 | 96 | 65-135 |
| BROMOFLUOROBENZENE | 76 | 65-135 |

PRL : Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 11/07/99 08:07 |
| Sample ID: | 18609-2357 | Date Analyzed: | 11/07/99 08:07 |
| Lab Samp ID: | J141-08 | Dilution Factor: | 1 |
| Lab File ID: | RKQ112 | Matrix : | SOIL |
| Ext Btch ID: | VOK0805 | % Moisture : | 10.3 |
| Calib. Ref.: | RKQ100 | Instrument ID : | T-005 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1-TRICHLOROETHANE | ND | 5.6 | .37 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5.6 | .37 |
| 1,1,2-TRICHLOROETHANE | ND | 5.6 | .26 |
| 1,1-DICHLOROETHANE | ND | 5.6 | .34 |
| 1,1-DICHLOROETHENE | ND | 5.6 | .6 |
| 1,2-DICHLOROETHANE | ND | 5.6 | .36 |
| 1,2-DICHLOROPROPANE | ND | 5.6 | .42 |
| 2-BUTANONE | ND | 56 | 5.7 |
| 2-CHLOROETHYLVINYLETHER | ND | 56 | .19 |
| 2-HEXANONE | ND | 56 | 1.4 |
| 4-METHYL-2-PENTANONE | ND | 56 | 1.3 |
| ACETONE | ND | 56 | 4.6 |
| BENZENE | ND | 5.6 | .28 |
| BROMODICHLOROMETHANE | ND | 5.6 | .29 |
| BROMOFORM | ND | 5.6 | .31 |
| BROMOMETHANE | ND | 5.6 | .71 |
| CARBON DISULFIDE | ND | 5.6 | .14 |
| CARBON TETRACHLORIDE | ND | 5.6 | .88 |
| CHLOROBENZENE | ND | 5.6 | .22 |
| CHLOROETHANE | ND | 5.6 | 2 |
| CHLOROFORM | ND | 5.6 | .47 |
| CHLOROMETHANE | ND | 5.6 | 2.3 |
| CIS-1,2-DICHLOROETHENE | ND | 5.6 | .32 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.6 | .25 |
| DIBROMOCHLOROMETHANE | ND | 5.6 | .088 |
| ETHYLBENZENE | ND | 5.6 | .44 |
| MTBE | ND | 11 | .41 |
| METHYLENE CHLORIDE | ND | 5.6 | .46 |
| STYRENE | ND | 5.6 | .49 |
| TETRACHLOROETHENE | ND | 5.6 | .27 |
| TOLUENE | ND | 5.6 | .35 |
| TRANS-1,2-DICHLOROETHENE | ND | 5.6 | .32 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.6 | .74 |
| TRICHLOROETHENE | ND | 5.6 | .28 |
| VINYL ACETATE | ND | 56 | .8 |
| VINYL CHLORIDE | ND | 5.6 | 1.1 |
| XYLENES | ND | 5.6 | 1.2 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 97 | 52-149 |
| TOLUENE-D8 | 94 | 65-135 |
| BROMOFLUOROBENZENE | 80 | 65-135 |

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| lient | : IT CORPORATION | Date Collected: | 10/28/99 |
| roject | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| h No. | : 99J141 | Date Extracted: | 11/07/99 08:45 |
| S le ID: | 18609-2358 | Date Analyzed: | 11/07/99 08:45 |
| ab Samp ID: | J141-09 | Dilution Factor: | 1 |
| ab File ID: | RKQ113 | Matrix : | SOIL |
| Ext Btch ID: | VOK0805 | % Moisture : | 11.8 |
| Calib. Ref.: | RKQ100 | Instrument ID : | T-005 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1-TRICHLOROETHANE | ND | 5.7 | .38 |
| 1,2,2-TETRACHLOROETHANE | ND | 5.7 | .38 |
| 1,1,2-TRICHLOROETHANE | ND | 5.7 | .26 |
| 1,1-DICHLOROETHANE | ND | 5.7 | .34 |
| 1-DICHLOROETHENE | ND | 5.7 | .61 |
| 2-DICHLOROETHANE | ND | 5.7 | .37 |
| T,2-DICHLOROPROPANE | ND | 5.7 | .43 |
| 2-BUTANONE | ND | 57 | 5.8 |
| CHLOROETHYLVINYLETHER | ND | 57 | .19 |
| HEXANONE | ND | 57 | 1.4 |
| METHYL-2-PENTANONE | ND | 57 | 1.3 |
| ACETONE | ND | 57 | 4.6 |
| BENZENE | ND | 5.7 | .28 |
| OMODICHLOROMETHANE | ND | 5.7 | .29 |
| OMOFORM | ND | 5.7 | .32 |
| BROMOMETHANE | ND | 5.7 | .72 |
| CARBON DISULFIDE | ND | 5.7 | .14 |
| RBON TETRACHLORIDE | ND | 5.7 | .9 |
| LOROBENZENE | ND | 5.7 | .22 |
| CHLOROETHANE | ND | 5.7 | 2 |
| CHLOROFORM | ND | 5.7 | .48 |
| ROMETHANE | ND | 5.7 | 2.3 |
| ,2-DICHLOROETHENE | ND | 5.7 | .33 |
| 1,3-DICHLOROPROPENE | ND | 5.7 | .25 |
| DIBROMOCHLOROMETHANE | ND | 5.7 | .09 |
| ETHYLBENZENE | ND | 5.7 | .44 |
| BE | ND | 11 | .42 |
| THYLENE CHLORIDE | ND | 5.7 | .46 |
| STYRENE | ND | 5.7 | .5 |
| TETRACHLOROETHENE | ND | 5.7 | .28 |
| LUENE | ND | 5.7 | .36 |
| ANS-1,2-DICHLOROETHENE | ND | 5.7 | .33 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.7 | .76 |
| TRICHLOROETHENE | ND | 5.7 | .29 |
| NYL ACETATE | ND | 57 | .81 |
| NYL CHLORIDE | ND | 5.7 | 1.1 |
| XYLENES | ND | 5.7 | 1.2 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-DICHLOROETHANE-D4 | 96 | 52-149 |
| TOLUENE-D8 | 98 | 65-135 |
| BROMOFLUOROBENZENE | 78 | 65-135 |

L : Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 11/07/99 09:22 |
| Sample ID: | 18609-2359 | Date Analyzed: | 11/07/99 09:22 |
| Lab Samp ID: | J141-10 | Dilution Factor: | 1 |
| Lab File ID: | RKQ114 | Matrix : | SOIL |
| Ext Btch ID: | VOK0805 | % Moisture : | 11.4 |
| Calib. Ref.: | RKQ100 | Instrument ID : | T-005 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1-TRICHLOROETHANE | ND | 5.6 | .37 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5.6 | .37 |
| 1,1,2-TRICHLOROETHANE | ND | 5.6 | .26 |
| 1,1-DICHLOROETHANE | ND | 5.6 | .34 |
| 1,1-DICHLOROETHENE | ND | 5.6 | .61 |
| 1,2-DICHLOROETHANE | ND | 5.6 | .37 |
| 1,2-DICHLOROPROPANE | ND | 5.6 | .42 |
| 2-BUTANONE | ND | 56 | 5.8 |
| 2-CHLOROETHYLVINYLETHER | ND | 56 | .19 |
| 2-HEXANONE | ND | 56 | 1.4 |
| 4-METHYL-2-PENTANONE | ND | 56 | 1.3 |
| ACETONE | ND | 56 | 4.6 |
| BENZENE | ND | 5.6 | .28 |
| BROMODICHLOROMETHANE | ND | 5.6 | .29 |
| BROMOFORM | ND | 5.6 | .31 |
| BROMOMETHANE | ND | 5.6 | .72 |
| CARBON DISULFIDE | ND | 5.6 | .14 |
| CARBON TETRACHLORIDE | ND | 5.6 | .89 |
| CHLOROBENZENE | ND | 5.6 | .22 |
| CHLOROETHANE | ND | 5.6 | 2 |
| CHLOROFORM | ND | 5.6 | .48 |
| CHLOROMETHANE | ND | 5.6 | 2.3 |
| CIS-1,2-DICHLOROETHENE | ND | 5.6 | .33 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.6 | .25 |
| DIBROMOCHLOROMETHANE | ND | 5.6 | .089 |
| ETHYLBENZENE | ND | 5.6 | .44 |
| MTBE | ND | 11 | .42 |
| METHYLENE CHLORIDE | ND | 5.6 | .46 |
| STYRENE | ND | 5.6 | .49 |
| TETRACHLOROETHENE | ND | 5.6 | .27 |
| TOLUENE | ND | 5.6 | .35 |
| TRANS-1,2-DICHLOROETHENE | ND | 5.6 | .33 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.6 | .75 |
| TRICHLOROETHENE | ND | 5.6 | .29 |
| VINYL ACETATE | ND | 56 | .81 |
| VINYL CHLORIDE | ND | 5.6 | 1.1 |
| XYLENES | ND | 5.6 | 1.2 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 95 | 52-149 |
| TOLUENE-D8 | 98 | 65-135 |
| BROMOFLUOROBENZENE | 85 | 65-135 |

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 11/07/99 10:00 |
| Sample ID: | 18609-2360 | Date Analyzed: | 11/07/99 10:00 |
| Lab Samp ID: | J141-11 | Dilution Factor: | 1 |
| Lab File ID: | RKQ115 | Matrix : | SOIL |
| Ext Btch ID: | VOK0805 | % Moisture : | 11.8 |
| Calib. Ref.: | RKQ100 | Instrument ID : | T-005 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ,1,1-TRICHLOROETHANE | ND | 5.7 | .38 |
| ,1,2,2-TETRACHLOROETHANE | ND | 5.7 | .38 |
| 1,1,2-TRICHLOROETHANE | ND | 5.7 | .26 |
| 1,1-DICHLOROETHANE | ND | 5.7 | .34 |
| ,1-DICHLOROETHENE | ND | 5.7 | .61 |
| ,2-DICHLOROETHANE | ND | 5.7 | .37 |
| 1,2-DICHLOROPROPANE | ND | 5.7 | .43 |
| 2-BUTANONE | ND | 57 | 5.8 |
| CHLOROETHYLVINYLETHER | ND | 57 | .19 |
| HEXANONE | ND | 57 | 1.4 |
| -METHYL-2-PENTANONE | ND | 57 | 1.3 |
| ACETONE | ND | 57 | 4.6 |
| ENZENE | ND | 5.7 | .28 |
| ROMODICHLOROMETHANE | ND | 5.7 | .29 |
| ROMOFORM | ND | 5.7 | .32 |
| BROMOMETHANE | ND | 5.7 | .72 |
| CARBON DISULFIDE | ND | 5.7 | .14 |
| RBON TETRACHLORIDE | ND | 5.7 | .9 |
| LOROBENZENE | ND | 5.7 | .22 |
| CHLOROETHANE | ND | 5.7 | 2 |
| CHLOROFORM | ND | 5.7 | .48 |
| ROMETHANE | ND | 5.7 | 2.3 |
| ,2-DICHLOROETHENE | ND | 5.7 | .33 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.7 | .25 |
| DIBROMOCHLOROMETHANE | ND | 5.7 | .09 |
| THYLBENZENE | ND | 5.7 | .44 |
| BE | ND | 11 | .42 |
| THYLENE CHLORIDE | ND | 5.7 | .46 |
| STYRENE | ND | 5.7 | .5 |
| TETRACHLOROETHENE | ND | 5.7 | .28 |
| LUENE | ND | 5.7 | .36 |
| ANS-1,2-DICHLOROETHENE | ND | 5.7 | .33 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.7 | .76 |
| TRICHLOROETHENE | ND | 5.7 | .29 |
| NYL ACETATE | ND | 57 | .81 |
| NYL CHLORIDE | ND | 5.7 | 1.1 |
| XYLENES | ND | 5.7 | 1.2 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-DICHLOROETHANE-D4 | 95 | 52-149 |
| TOLUENE-D8 | 96 | 65-135 |
| BROMOFLUOROBENZENE | 82 | 65-135 |

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
: Value exceed the upper level of the initial calibration
: Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 11/07/99 16:30 |
| Sample ID: | 18609-2361 | Date Analyzed: | 11/07/99 16:30 |
| Lab Samp ID: | J141-12 | Dilution Factor: | 1 |
| Lab File ID: | RKQ125 | Matrix : | WATER |
| Ext Btch ID: | VOK0905 | % Moisture : | NA |
| Calib. Ref.: | RKQ119 | Instrument ID : | T-005 |

| PARAMETERS | RESULTS (ug/L) | PRL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,1,1-TRICHLOROETHANE | ND | 5 | 1.1 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5 | .49 |
| 1,1,2-TRICHLOROETHANE | ND | 5 | .52 |
| 1,1-DICHLOROETHANE | ND | 5 | 1.2 |
| 1,1-DICHLOROETHENE | ND | 5 | 2 |
| 1,2-DICHLOROETHANE | ND | 5 | .58 |
| 1,2-DICHLOROPROPANE | ND | 5 | .53 |
| 2-BUTANONE | ND | 50 | 7.9 |
| 2-CHLOROETHYLVINYLETHER | ND | 50 | .83 |
| 2-HEXANONE | ND | 50 | 1 |
| 4-METHYL-2-PENTANONE | ND | 50 | 1 |
| ACETONE | ND | 50 | 10 |
| BENZENE | ND | 5 | .85 |
| BROMODICHLOROMETHANE | ND | 5 | .33 |
| BROMOFORM | ND | 5 | .29 |
| BROMOMETHANE | ND | 5 | 1.5 |
| CARBON DISULFIDE | ND | 5 | 1.3 |
| CARBON TETRACHLORIDE | ND | 5 | 1.3 |
| CHLOROBENZENE | ND | 5 | .68 |
| CHLOROETHANE | ND | 5 | 2.9 |
| CHLOROFORM | ND | 5 | .85 |
| CHLOROMETHANE | ND | 5 | 1.7 |
| CIS-1,2-DICHLOROETHENE | ND | 5 | .97 |
| CIS-1,3-DICHLOROPROPENE | ND | 5 | .47 |
| DIBROMOCHLOROMETHANE | ND | 5 | .29 |
| ETHYLBENZENE | ND | 5 | .72 |
| MTBE | ND | 10 | .96 |
| METHYLENE CHLORIDE | ND | 5 | 1.8 |
| STYRENE | ND | 5 | .58 |
| TETRACHLOROETHENE | ND | 5 | 1.2 |
| TOLUENE | ND | 5 | .92 |
| TRANS-1,2-DICHLOROETHENE | ND | 5 | 1.5 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5 | .45 |
| TRICHLOROETHENE | ND | 5 | .9 |
| VINYL ACETATE | ND | 50 | 6.2 |
| VINYL CHLORIDE | ND | 5 | 1.7 |
| XYLENES | ND | 5 | 2.4 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 100 | 62-139 |
| TOLUENE-D8 | 98 | 75-125 |
| BROMOFLUOROBENZENE | 93 | 75-125 |

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| tch No. | : 99J141 | Date Extracted: | 11/07/99 17:08 |
| mple ID: | 18609-2362 | Date Analyzed: | 11/07/99 17:08 |
| Lab Samp ID: | J141-13 | Dilution Factor: | 1 |
| Lab File ID: | RKQ126 | Matrix | : WATER |
| Ext Btch ID: | VOK0905 | % Moisture | : NA |
| Calib. Ref.: | RKQ119 | Instrument ID | : T-005 |

| PARAMETERS | RESULTS (ug/L) | PRL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,1,1-TRICHLOROETHANE | ND | 5 | 1.1 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5 | .49 |
| 1,1,2-TRICHLOROETHANE | ND | 5 | .52 |
| 1,1-DICHLOROETHANE | ND | 5 | 1.2 |
| 1,1-DICHLOROETHENE | ND | 5 | 2 |
| ,2-DICHLOROETHANE | ND | 5 | .58 |
| 1,2-DICHLOROPROPANE | ND | 5 | .53 |
| 2-BUTANONE | ND | 50 | 7.9 |
| 2-CHLOROETHYLVINYLETHER | ND | 50 | .83 |
| -HEXANONE | ND | 50 | 1 |
| -METHYL-2-PENTANONE | ND | 50 | 1 |
| ACETONE | ND | 50 | 10 |
| BENZENE | ND | 5 | .85 |
| ROMODICHLOROMETHANE | ND | 5 | .33 |
| ROMOFORM | ND | 5 | .29 |
| BROMOMETHANE | ND | 5 | 1.5 |
| CARBON DISULFIDE | ND | 5 | 1.3 |
| ARBON TETRACHLORIDE | ND | 5 | 1.3 |
| HLOROBENZENE | ND | 5 | .68 |
| CHLOROETHANE | ND | 5 | 2.9 |
| CHLOROFORM | ND | 5 | .85 |
| ROMOMETHANE | ND | 5 | 1.7 |
| 1,2-DICHLOROETHENE | ND | 5 | .97 |
| -1,3-DICHLOROPROPENE | ND | 5 | .47 |
| DIBROMOCHLOROMETHANE | ND | 5 | .29 |
| THYLBENZENE | ND | 5 | .72 |
| BE | ND | 10 | .96 |
| THYLENE CHLORIDE | ND | 5 | 1.8 |
| STYRENE | ND | 5 | .58 |
| TETRACHLOROETHENE | ND | 5 | 1.2 |
| LUENE | ND | 5 | .92 |
| ANS-1,2-DICHLOROETHENE | ND | 5 | 1.5 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5 | .45 |
| TRICHLOROETHENE | ND | 5 | .9 |
| NYL ACETATE | ND | 50 | 6.2 |
| NYL CHLORIDE | ND | 5 | 1.7 |
| LENES | ND | 5 | 2.4 |

| RROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-DICHLOROETHANE-D4 | 101 | 62-139 |
| TOLUENE-D8 | 97 | 75-125 |
| BROMOFLUOROBENZENE | 91 | 75-125 |

: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
: Value exceed the upper level of the initial calibration
: Found in the associated blank
: Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | NA |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 11/07/99 |
| Batch No. | : 99J141 | Date Extracted: | 11/07/99 03:07 |
| Sample ID: | MBLK1S | Date Analyzed: | 11/07/99 03:07 |
| Lab Samp ID: | VOK0805B | Dilution Factor: | 1 |
| Lab File ID: | RKQ104 | Matrix : | SOIL |
| Ext Btch ID: | VOK0805 | % Moisture : | NA |
| Calib. Ref.: | RKQ100 | Instrument ID : | T-005 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1-TRICHLOROETHANE | ND | 5 | .33 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5 | .33 |
| 1,1,2-TRICHLOROETHANE | ND | 5 | .23 |
| 1,1-DICHLOROETHANE | ND | 5 | .3 |
| 1,1-DICHLOROETHENE | ND | 5 | .54 |
| 1,2-DICHLOROETHANE | ND | 5 | .33 |
| 1,2-DICHLOROPROPANE | ND | 5 | .38 |
| 2-BUTANONE | ND | 50 | 5.1 |
| 2-CHLOROETHYLVINYLETHER | ND | 50 | .17 |
| 2-HEXANONE | ND | 50 | 1.2 |
| 4-METHYL-2-PENTANONE | ND | 50 | 1.1 |
| ACETONE | ND | 50 | 4.1 |
| BENZENE | ND | 5 | .25 |
| BROMODICHLOROMETHANE | ND | 5 | .26 |
| BROMOFORM | ND | 5 | .28 |
| BROMOMETHANE | ND | 5 | .64 |
| CARBON DISULFIDE | ND | 5 | .13 |
| CARBON TETRACHLORIDE | ND | 5 | .79 |
| CHLOROBENZENE | ND | 5 | .2 |
| CHLOROETHANE | ND | 5 | 1.8 |
| CHLOROFORM | ND | 5 | .42 |
| CHLOROMETHANE | ND | 5 | 2.1 |
| CIS-1,2-DICHLOROETHENE | ND | 5 | .29 |
| CIS-1,3-DICHLOROPROPENE | ND | 5 | .22 |
| DIBROMOCHLOROMETHANE | ND | 5 | .079 |
| ETHYLBENZENE | ND | 5 | .39 |
| MTBE | ND | 10 | .37 |
| METHYLENE CHLORIDE | ND | 5 | .41 |
| STYRENE | ND | 5 | .44 |
| TETRACHLOROETHENE | ND | 5 | .24 |
| TOLUENE | ND | 5 | .31 |
| TRANS-1,2-DICHLOROETHENE | ND | 5 | .29 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5 | .67 |
| TRICHLOROETHENE | ND | 5 | .25 |
| VINYL ACETATE | ND | 50 | .72 |
| VINYL CHLORIDE | ND | 5 | 1 |
| XYLENES | ND | 5 | 1.1 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 95 | 52-149 |
| TOLUENE-D8 | 98 | 65-135 |
| BROMOFLUOROBENZENE | 91 | 65-135 |

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J141
METHOD: METHOD 5030A/8260A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | VOK0805B | VOK0805L | VOK0805C | | |
| LAB FILE ID: | RKQ104 | RKQ101 | RKQ102 | | |
| DATE EXTRACTED: | 11/07/9903:07 | 11/07/9901:14 | 11/07/9901:52 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 11/07/9903:07 | 11/07/9901:14 | 11/07/9901:52 | DATE RECEIVED: | 11/07/99 |
| PREP. BATCH: | VOK0805 | VOK0805 | VOK0805 | | |
| CALIB. REF: | RKQ100 | RKQ100 | RKQ100 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 20 | 19.2 | 96 | 20 | 19.6 | 98 | 2 | 65-135 | 30 |
| Benzene | ND | 20 | 19.4 | 97 | 20 | 19.4 | 97 | 0 | 65-135 | 30 |
| Chlorobenzene | ND | 20 | 19.7 | 99 | 20 | 19.8 | 99 | 0 | 65-135 | 30 |
| Toluene | ND | 20 | 18.9 | 94 | 20 | 18.7 | 93 | 1 | 64-135 | 30 |
| Trichloroethene | ND | 20 | 19.1 | 95 | 20 | 19.9 | 99 | 4 | 61-135 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichlorethane-d4 | 50 | 50.9 | 102 | 50 | 48.1 | 96 | 52-149 |
| Toluene-d8 | 50 | 49 | 98 | 50 | 48.8 | 98 | 65-135 |
| Bromofluorobenzene | 50 | 47.6 | 95 | 50 | 45.6 | 91 | 65-135 |

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | NA |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 11/07/99 |
| Batch No. | : 99J141 | Date Extracted: | 11/07/99 15:15 |
| Sample ID: | MBLK1W | Date Analyzed: | 11/07/99 15:15 |
| Lab Samp ID: | VOK0905B | Dilution Factor: | 1 |
| Lab File ID: | RKQ123 | Matrix : | WATER |
| Ext Btch ID: | VOK0905 | % Moisture : | NA |
| Calib. Ref.: | RKQ119 | Instrument ID : | T-005 |

| PARAMETERS | RESULTS (ug/L) | PRL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,1,1-TRICHLOROETHANE | ND | 5 | 1.1 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5 | .49 |
| 1,1,2-TRICHLOROETHANE | ND | 5 | .52 |
| 1,1-DICHLOROETHANE | ND | 5 | 1.2 |
| 1,1-DICHLOROETHENE | ND | 5 | 2 |
| 1,2-DICHLOROETHANE | ND | 5 | .58 |
| 1,2-DICHLOROPROPANE | ND | 5 | .53 |
| 2-BUTANONE | ND | 50 | 7.9 |
| 2-CHLOROETHYLVINYLETHER | ND | 50 | .83 |
| 2-HEXANONE | ND | 50 | 1 |
| 4-METHYL-2-PENTANONE | ND | 50 | 1 |
| ACETONE | ND | 50 | 10 |
| BENZENE | ND | 5 | .85 |
| BROMODICHLOROMETHANE | ND | 5 | .33 |
| BROMOFORM | ND | 5 | .29 |
| BROMOMETHANE | ND | 5 | 1.5 |
| CARBON DISULFIDE | ND | 5 | 1.3 |
| CARBON TETRACHLORIDE | ND | 5 | 1.3 |
| CHLOROBENZENE | ND | 5 | .68 |
| CHLOROETHANE | ND | 5 | 2.9 |
| CHLOROFORM | ND | 5 | .85 |
| CHLOROMETHANE | ND | 5 | 1.7 |
| CIS-1,2-DICHLOROETHENE | ND | 5 | .97 |
| CIS-1,3-DICHLOROPROPENE | ND | 5 | .47 |
| DIBROMOCHLOROMETHANE | ND | 5 | .29 |
| ETHYLBENZENE | ND | 5 | .72 |
| MTBE | ND | 10 | .96 |
| METHYLENE CHLORIDE | ND | 5 | 1.8 |
| STYRENE | ND | 5 | .58 |
| TETRACHLOROETHENE | ND | 5 | 1.2 |
| TOLUENE | ND | 5 | .92 |
| TRANS-1,2-DICHLOROETHENE | ND | 5 | 1.5 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5 | .45 |
| TRICHLOROETHENE | ND | 5 | .9 |
| VINYL ACETATE | ND | 50 | 6.2 |
| VINYL CHLORIDE | ND | 5 | 1.7 |
| XYLENES | ND | 5 | 2.4 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 98 | 62-139 |
| TOLUENE-D8 | 99 | 75-125 |
| BROMOFLUOROBENZENE | 92 | 75-125 |

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

.IENT: IT CORPORATION
:OJECT: MCAS EL TORO/18609/D.O. 70
H NO.: 99J141
D: METHOD 5030A/8260A

TRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| .B SAMP ID: | VOK0905B | VOK0905L | VOK0905C | | |
| B FILE ID: | RKQ123 | RKQ120 | RKQ121 | | |
| DATE EXTRACTED: | 11/07/9915:15 | 11/07/9913:29 | 11/07/9914:07 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 11/07/9915:15 | 11/07/9913:29 | 11/07/9914:07 | DATE RECEIVED: | 11/07/99 |
| EP. BATCH: | VOK0905 | VOK0905 | VOK0905 | | |
| LIB. REF: | RKQ119 | RKQ119 | RKQ119 | | |

ACCESSION:

| RAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.1-Dichloroethene | ND | 20 | 19.6 | 98 | 20 | 19.8 | 99 | 1 | 75-125 | 20 |
| nzene | ND | 20 | 19.5 | 98 | 20 | 19.7 | 99 | 1 | 75-125 | 20 |
| lorobenzene | ND | 20 | 19.7 | 99 | 20 | 19 | 95 | 4 | 75-125 | 20 |
| Toluene | ND | 20 | 18.8 | 94 | 20 | 19.2 | 96 | 2 | 74-125 | 20 |
| Trichloroethene | ND | 20 | 19.8 | 99 | 20 | 20.3 | 101 | 2 | 71-125 | 20 |

| RROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichlorethane-d4 | 50 | 48.6 | 97 | 50 | 52 | 104 | 62-139 |
| Toluene-d8 | 50 | 48.2 | 96 | 50 | 49.8 | 100 | 75-125 |
| fluorobenzene | 50 | 44.4 | 89 | 50 | 46.4 | 93 | 75-125 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J141
METHOD: METHOD 5030A/8260A

MATRIX: SOIL % MOISTURE: 11.8

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | 18609-2360 | | | | |
| LAB SAMP ID: | J141-11 | J141-11M | J141-11S | | |
| LAB FILE ID: | RKQ115 | RKQ116 | RKQ117 | | |
| DATE EXTRACTED: | 11/07/9910:00 | 11/07/9910:37 | 11/07/9911:15 | DATE COLLECTED: | 10/28/99 |
| DATE ANALYZED: | 11/07/9910:00 | 11/07/9910:37 | 11/07/9911:15 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | VOK0805 | VOK0805 | VOK0805 | | |
| CALIB. REF: | RKQ100 | RKQ100 | RKQ100 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 56.7 | 57.7 | 102 | 56.7 | 60.3 | 106 | 4 | 65-135 | 30 |
| Benzene | ND | 56.7 | 54.4 | 96 | 56.7 | 55.1 | 97 | 1 | 65-135 | 30 |
| Chlorobenzene | ND | 56.7 | 54.9 | 97 | 56.7 | 55.5 | 98 | 1 | 65-135 | 30 |
| Toluene | ND | 56.7 | 50.9 | 90 | 56.7 | 52.4 | 92 | 3 | 64-135 | 30 |
| Trichloroethene | ND | 56.7 | 55 | 97 | 56.7 | 56.7 | 100 | 3 | 61-135 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichlorethane-d4 | 56.7 | 55.1 | 97 | 56.7 | 56.8 | 100 | 52-149 |
| Toluene-d8 | 56.7 | 53.5 | 94 | 56.7 | 54.2 | 96 | 65-135 |
| Bromofluorobenzene | 56.7 | 47.1 | 83 | 56.7 | 46.1 | 81 | 65-135 |

* : Out side of QC Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| lient | : IT CORPORATION | Date Collected: | 10/28/99 |
| roject | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| ch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| ple ID: | 18609-2350 | Date Analyzed: | 11/04/99 17:04 |
| Samp ID: | J141-01 | Dilution Factor: | 1 |
| ab File ID: | RKB055 | Matrix : | SOIL |
| xt Btch ID: | SVJ023S | % Moisture : | 9.6 |
| alib. Ref.: | RKB050 | Instrument ID : | T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ,2,4-TRICHLOROBENZENE | ND | 370 | 150 |
| 2-DICHLOROBENZENE | ND | 370 | 140 |
| 1,3-DICHLOROBENZENE | ND | 370 | 140 |
| 1,4-DICHLOROBENZENE | ND | 370 | 130 |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | ND | 370 | 170 |
| ,4,5-TRICHLOROPHENOL | ND | 920 | 90 |
| ,4,6-TRICHLOROPHENOL | ND | 370 | 130 |
| 4-DICHLOROPHENOL | ND | 370 | 170 |
| 2,4-DIMETHYLPHENOL | ND | 370 | 130 |
| 2,4-DINITROPHENOL | ND | 920 | 180 |
| 2,4-DINITROTOLUENE | ND | 370 | 66 |
| 6-DINITROTOLUENE | ND | 370 | 82 |
| CHLORONAPHTHALENE | ND | 370 | 150 |
| CHLOROPHENOL | ND | 370 | 130 |
| METHYLNAPHTHALENE | ND | 370 | 160 |
| 2-METHYLPHENOL | ND | 370 | 150 |
| 2-NITROANILINE | ND | 920 | 98 |
| NITROPHENOL | ND | 370 | 170 |
| 3'-DICHLOROBENZIDINE | ND | 370 | 81 |
| NITROANILINE | ND | 920 | 96 |
| 6-DINITRO-2-METHYLPHENOL | ND | 920 | 120 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 370 | 86 |
| 4-CHLORO-3-METHYLPHENOL | ND | 370 | 120 |
| CHLOROANILINE | ND | 370 | 130 |
| CHLOROPHENYL-PHENYLETHER | ND | 370 | 91 |
| METHYLPHENOL (2) | ND | 370 | 150 |
| NITROANILINE | ND | 920 | 78 |
| 4-NITROPHENOL | ND | 920 | 170 |
| ACENAPHTHENE | ND | 370 | 110 |
| ENAPHTHYLENE | ND | 370 | 110 |
| THRACENE | ND | 370 | 74 |
| NZO(A)ANTHRACENE | ND | 370 | 76 |
| NZO(A)PYRENE | ND | 280 | 41 |
| BENZO(B)FLUORANTHENE | ND | 370 | 71 |
| BENZO(G,H,I)PERYLENE | ND | 370 | 46 |
| NZO(K)FLUORANTHENE | ND | 370 | 76 |
| -CHLOROETHOXY)METHANE | ND | 370 | 170 |
| -CHLOROETHYL)ETHER | ND | 370 | 150 |
| -ETHYLHEXYL)PHTHALATE | ND | 370 | 95 |
| BUTYLBENZYLPHTHALATE | ND | 370 | 84 |
| CHRYSENE | ND | 370 | 100 |
| -N-BUTYLPHTHALATE | ND | 370 | 88 |
| -N-OCTYLPHTHALATE | ND | 370 | 55 |
| BENZO(A,H)ANTHRACENE | ND | 280 | 35 |
| BENZOFURAN | ND | 370 | 110 |
| DIETHYLPHTHALATE | ND | 370 | 60 |
| DIMETHYLPHTHALATE | ND | 370 | 66 |
| FLUORANTHENE | ND | 370 | 86 |
| JORENE | ND | 370 | 82 |
| XACHLOROBENZENE | ND | 370 | 100 |
| XACHLOROBUTADIENE | ND | 370 | 160 |
| HEXACHLOROCYCLOPENTADIENE | ND | 370 | 200 |
| HEXACHLOROETHANE | ND | 370 | 140 |
| INDENO(1,2,3-CD)PYRENE | ND | 370 | 46 |
| NITROSO-DI-N-PROPYLAMINE | ND | 280 | 160 |
| NITROSODIPHENYLAMINE (1) | ND | 370 | 80 |
| PHTHALENE | ND | 370 | 150 |
| NITROBENZENE | ND | 370 | 150 |
| PENTACHLOROPHENOL | ND | 370 | 89 |
| PHENANTHRENE | ND | 370 | 74 |
| NOL | ND | 370 | 180 |
| ENE | ND | 370 | 100 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-FLUOROPHENOL | 67 | 25-135 |
| NOL-D5 | 82 | 25-135 |
| ROBENZENE-D5 | 82 | 25-135 |
| LUOROBIPHENYL | 76 | 34-135 |
| 4,6-TRIBROMOPHENOL | 72 | 25-144 |
| TERPHENYL-D14 | 75 | 32-136 |

P : Project Reporting Limit
( : Cannot be separated from Diphenylamine
( : Cannot be separated from 3-Methylphenol

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| Sample ID: | 18609-2351 | Date Analyzed: | 11/04/99 17:41 |
| Lab Samp ID: | J141-02 | Dilution Factor: | 1 |
| Lab File ID: | RKB056 | Matrix | : SOIL |
| Ext Btch ID: | SVJ023S | % Moisture | : 8.5 |
| Calib. Ref.: | RKB050 | Instrument ID | : T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 360 | 150 |
| 1,2-DICHLOROBENZENE | ND | 360 | 140 |
| 1,3-DICHLOROBENZENE | ND | 360 | 140 |
| 1,4-DICHLOROBENZENE | ND | 360 | 130 |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | ND | 360 | 160 |
| 2,4,5-TRICHLOROPHENOL | ND | 910 | 89 |
| 2,4,6-TRICHLOROPHENOL | ND | 360 | 130 |
| 2,4-DICHLOROPHENOL | ND | 360 | 170 |
| 2,4-DIMETHYLPHENOL | ND | 360 | 130 |
| 2,4-DINITROPHENOL | ND | 910 | 180 |
| 2,4-DINITROTOLUENE | ND | 360 | 65 |
| 2,6-DINITROTOLUENE | ND | 360 | 81 |
| 2-CHLORONAPHTHALENE | ND | 360 | 150 |
| 2-CHLOROPHENOL | ND | 360 | 130 |
| 2-METHYLNAPHTHALENE | ND | 360 | 160 |
| 2-METHYLPHENOL | ND | 360 | 150 |
| 2-NITROANILINE | ND | 910 | 97 |
| 2-NITROPHENOL | ND | 360 | 160 |
| 3,3'-DICHLOROBENZIDINE | ND | 360 | 80 |
| 3-NITROANILINE | ND | 910 | 95 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 910 | 120 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 360 | 85 |
| 4-CHLORO-3-METHYLPHENOL | ND | 360 | 120 |
| 4-CHLOROANILINE | ND | 360 | 130 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 360 | 90 |
| 4-METHYLPHENOL (2) | ND | 360 | 150 |
| 4-NITROANILINE | ND | 910 | 77 |
| 4-NITROPHENOL | ND | 910 | 170 |
| ACENAPHTHENE | ND | 360 | 110 |
| ACENAPHTHYLENE | ND | 360 | 110 |
| ANTHRACENE | ND | 360 | 73 |
| BENZO(A)ANTHRACENE | ND | 360 | 75 |
| BENZO(A)PYRENE | ND | 270 | 40 |
| BENZO(B)FLUORANTHENE | ND | 360 | 70 |
| BENZO(G,H,I)PERYLENE | ND | 360 | 45 |
| BENZO(K)FLUORANTHENE | ND | 360 | 75 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 360 | 160 |
| BIS(2-CHLOROETHYL)ETHER | ND | 360 | 150 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 360 | 93 |
| BUTYLBENZYLPHTHALATE | ND | 360 | 83 |
| CHRYSENE | ND | 360 | 98 |
| DI-N-BUTYLPHTHALATE | ND | 360 | 87 |
| DI-N-OCTYLPHTHALATE | ND | 360 | 55 |
| DIBENZO(A,H)ANTHRACENE | ND | 270 | 34 |
| DIBENZOFURAN | ND | 360 | 110 |
| DIETHYLPHTHALATE | ND | 360 | 60 |
| DIMETHYLPHTHALATE | ND | 360 | 65 |
| FLUORANTHENE | ND | 360 | 85 |
| FLUORENE | ND | 360 | 81 |
| HEXACHLOROBENZENE | ND | 360 | 99 |
| HEXACHLOROBUTADIENE | ND | 360 | 150 |
| HEXACHLOROCYCLOPENTADIENE | ND | 360 | 190 |
| HEXACHLOROETHANE | ND | 360 | 140 |
| INDENO(1,2,3-CD)PYRENE | ND | 360 | 45 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 270 | 150 |
| N-NITROSODIPHENYLAMINE (1) | ND | 360 | 79 |
| NAPHTHALENE | ND | 360 | 150 |
| NITROBENZENE | ND | 360 | 150 |
| PENTACHLOROPHENOL | ND | 360 | 88 |
| PHENANTHRENE | ND | 360 | 73 |
| PHENOL | ND | 360 | 170 |
| PYRENE | ND | 360 | 98 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-FLUOROPHENOL | 53 | 25-135 |
| PHENOL-D5 | 61 | 25-135 |
| NITROBENZENE-D5 | 63 | 25-135 |
| 2-FLUOROBIPHENYL | 66 | 34-135 |
| 2,4,6-TRIBROMOPHENOL | 69 | 25-144 |
| TERPHENYL-D14 | 69 | 32-136 |

PRL : Project Reporting Limit
(1) : Cannot be separated from Diphenylamine
(2) : Cannot be separated from 3-Methylphenol

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| lient | : IT CORPORATION | Date Collected: | 10/28/99 |
| roject | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| ch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| le ID | : 18609-2352 | Date Analyzed: | 11/04/99 18:18 |
| amp ID | : J141-03 | Dilution Factor: | 1 |
| File ID | : RKB057 | Matrix | : SOIL |
| t Btch ID | : SVJ023S | % Moisture | : 10.8 |
| alib. Ref. | : RKB050 | Instrument ID | : T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-TRICHLOROBENZENE | ND | 370 | 150 |
| 2-DICHLOROBENZENE | ND | 370 | 140 |
| 3-DICHLOROBENZENE | ND | 370 | 140 |
| 1,4-DICHLOROBENZENE | ND | 370 | 130 |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | ND | 370 | 170 |
| 4,5-TRICHLOROPHENOL | ND | 930 | 91 |
| 4,6-TRICHLOROPHENOL | ND | 370 | 130 |
| 4-DICHLOROPHENOL | ND | 370 | 170 |
| 2,4-DIMETHYLPHENOL | ND | 370 | 130 |
| 2,4-DINITROPHENOL | ND | 930 | 180 |
| 2,4-DINITROTOLUENE | ND | 370 | 67 |
| 6-DINITROTOLUENE | ND | 370 | 83 |
| CHLORONAPHTHALENE | ND | 370 | 150 |
| CHLOROPHENOL | ND | 370 | 140 |
| 2-METHYLNAPHTHALENE | ND | 370 | 160 |
| 2-METHYLPHENOL | ND | 370 | 150 |
| 2-NITROANILINE | ND | 930 | 100 |
| NITROPHENOL | ND | 370 | 170 |
| 3'-DICHLOROBENZIDINE | ND | 370 | 82 |
| NITROANILINE | ND | 930 | 98 |
| 6-DINITRO-2-METHYLPHENOL | ND | 930 | 130 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 370 | 87 |
| 4-CHLORO-3-METHYLPHENOL | ND | 370 | 120 |
| CHLOROANILINE | ND | 370 | 130 |
| CHLOROPHENYL-PHENYLETHER | ND | 370 | 92 |
| METHYLPHENOL (2) | ND | 370 | 160 |
| NITROANILINE | ND | 930 | 79 |
| 4-NITROPHENOL | ND | 930 | 170 |
| ACENAPHTHENE | ND | 370 | 120 |
| ENAPHTHYLENE | ND | 370 | 120 |
| THRACENE | ND | 370 | 75 |
| NZO(A)ANTHRACENE | ND | 370 | 77 |
| NZO(A)PYRENE | ND | 280 | 41 |
| BENZO(B)FLUORANTHENE | ND | 370 | 72 |
| BENZO(G,H,I)PERYLENE | ND | 370 | 47 |
| BENZO(K)FLUORANTHENE | ND | 370 | 77 |
| -CHLOROETHOXY)METHANE | ND | 370 | 170 |
| CHLOROETHYL)ETHER | ND | 370 | 150 |
| -ETHYLHEXYL)PHTHALATE | ND | 370 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 370 | 85 |
| CHRYSENE | ND | 370 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 370 | 89 |
| -N-OCTYLPHTHALATE | ND | 370 | 56 |
| BENZO(A,H)ANTHRACENE | ND | 280 | 35 |
| BENZOFURAN | ND | 370 | 120 |
| DIETHYLPHTHALATE | ND | 370 | 61 |
| DIMETHYLPHTHALATE | ND | 370 | 67 |
| FLUORANTHENE | ND | 370 | 87 |
| JORENE | ND | 370 | 83 |
| XACHLOROBENZENE | ND | 370 | 100 |
| XACHLOROBUTADIENE | ND | 370 | 160 |
| HEXACHLOROCYCLOPENTADIENE | ND | 370 | 200 |
| HEXACHLOROETHANE | ND | 370 | 140 |
| INDENO(1,2,3-CD)PYRENE | ND | 370 | 47 |
| NITROSO-DI-N-PROPYLAMINE | ND | 280 | 160 |
| NITROSODIPHENYLAMINE (1) | ND | 370 | 81 |
| PHTHALENE | ND | 370 | 150 |
| NITROBENZENE | ND | 370 | 150 |
| PENTACHLOROPHENOL | ND | 370 | 90 |
| PHENANTHRENE | ND | 370 | 75 |
| NOL | ND | 370 | 180 |
| RENE | ND | 370 | 100 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-FLUOROPHENOL | 71 | 25-135 |
| NOL-D5 | 83 | 25-135 |
| ROBENZENE-D5 | 81 | 25-135 |
| LUOROBIPHENYL | 81 | 34-135 |
| 2,4,6-TRIBROMOPHENOL | 75 | 25-144 |
| TERPHENYL-D14 | 76 | 32-136 |

: Project Reporting Limit
: Cannot be separated from Diphenylamine
: Cannot be separated from 3-Methylphenol

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| Sample ID: | 18609-2353 | Date Analyzed: | 11/04/99 18:55 |
| Lab Samp ID: | J141-04 | Dilution Factor: | 1 |
| Lab File ID: | RKB058 | Matrix : | SOIL |
| Ext Btch ID: | SVJ023S | % Moisture : | 10.6 |
| Calib. Ref.: | RKB050 | Instrument ID : | T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 370 | 150 |
| 1,2-DICHLOROBENZENE | ND | 370 | 140 |
| 1,3-DICHLOROBENZENE | ND | 370 | 140 |
| 1,4-DICHLOROBENZENE | ND | 370 | 130 |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | ND | 370 | 170 |
| 2,4,5-TRICHLOROPHENOL | ND | 930 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 370 | 130 |
| 2,4-DICHLOROPHENOL | ND | 370 | 170 |
| 2,4-DIMETHYLPHENOL | ND | 370 | 130 |
| 2,4-DINITROPHENOL | ND | 930 | 180 |
| 2,4-DINITROTOLUENE | ND | 370 | 67 |
| 2,6-DINITROTOLUENE | ND | 370 | 83 |
| 2-CHLORONAPHTHALENE | ND | 370 | 150 |
| 2-CHLOROPHENOL | ND | 370 | 140 |
| 2-METHYLNAPHTHALENE | ND | 370 | 160 |
| 2-METHYLPHENOL | ND | 370 | 150 |
| 2-NITROANILINE | ND | 930 | 99 |
| 2-NITROPHENOL | ND | 370 | 170 |
| 3,3'-DICHLOROBENZIDINE | ND | 370 | 82 |
| 3-NITROANILINE | ND | 930 | 97 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 930 | 130 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 370 | 87 |
| 4-CHLORO-3-METHYLPHENOL | ND | 370 | 120 |
| 4-CHLOROANILINE | ND | 370 | 130 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 370 | 92 |
| 4-METHYLPHENOL (2) | ND | 370 | 160 |
| 4-NITROANILINE | ND | 930 | 78 |
| 4-NITROPHENOL | ND | 930 | 170 |
| ACENAPHTHENE | ND | 370 | 120 |
| ACENAPHTHYLENE | ND | 370 | 110 |
| ANTHRACENE | ND | 370 | 75 |
| BENZO(A)ANTHRACENE | ND | 370 | 77 |
| BENZO(A)PYRENE | ND | 280 | 41 |
| BENZO(B)FLUORANTHENE | ND | 370 | 71 |
| BENZO(G,H,I)PERYLENE | ND | 370 | 46 |
| BENZO(K)FLUORANTHENE | ND | 370 | 76 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 370 | 170 |
| BIS(2-CHLOROETHYL)ETHER | ND | 370 | 150 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 370 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 370 | 85 |
| CHRYSENE | ND | 370 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 370 | 89 |
| DI-N-OCTYLPHTHALATE | ND | 370 | 56 |
| DIBENZO(A,H)ANTHRACENE | ND | 280 | 35 |
| DIBENZOFURAN | ND | 370 | 120 |
| DIETHYLPHTHALATE | ND | 370 | 61 |
| DIMETHYLPHTHALATE | ND | 370 | 67 |
| FLUORANTHENE | ND | 370 | 87 |
| FLUORENE | ND | 370 | 83 |
| HEXACHLOROBENZENE | ND | 370 | 100 |
| HEXACHLOROBUTADIENE | ND | 370 | 160 |
| HEXACHLOROCYCLOPENTADIENE | ND | 370 | 200 |
| HEXACHLOROETHANE | ND | 370 | 140 |
| INDENO(1,2,3-CD)PYRENE | ND | 370 | 46 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 280 | 160 |
| N-NITROSODIPHENYLAMINE (1) | ND | 370 | 80 |
| NAPHTHALENE | ND | 370 | 150 |
| NITROBENZENE | ND | 370 | 150 |
| PENTACHLOROPHENOL | ND | 370 | 90 |
| PHENANTHRENE | ND | 370 | 74 |
| PHENOL | ND | 370 | 180 |
| PYRENE | ND | 370 | 100 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-FLUOROPHENOL | 60 | 25-135 |
| PHENOL-D5 | 70 | 25-135 |
| NITROBENZENE-D5 | 72 | 25-135 |
| 2-FLUOROBIPHENYL | 69 | 34-135 |
| 2,4,6-TRIBROMOPHENOL | 64 | 25-144 |
| TERPHENYL-D14 | 64 | 32-136 |

PRL : Project Reporting Limit
(1) : Cannot be separated from Diphenylamine
(2) : Cannot be separated from 3-Methylphenol

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| Sample ID: | 18609-2354 | Date Analyzed: | 11/04/99 19:32 |
| Samp ID: | J141-05 | Dilution Factor: | 1 |
| Lab File ID: | RKB059 | Matrix | : SOIL |
| Ext Btch ID: | SVJ023S | % Moisture | : 7.9 |
| Calib. Ref.: | RKB050 | Instrument ID | : T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ,2,4-TRICHLOROBENZENE | ND | 360 | 150 |
| ,2-DICHLOROBENZENE | ND | 360 | 140 |
| 1,3-DICHLOROBENZENE | ND | 360 | 140 |
| 1,4-DICHLOROBENZENE | ND | 360 | 130 |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | ND | 360 | 160 |
| ,4,5-TRICHLOROPHENOL | ND | 900 | 88 |
| ,4,6-TRICHLOROPHENOL | ND | 360 | 130 |
| ,4-DICHLOROPHENOL | ND | 360 | 170 |
| 2,4-DIMETHYLPHENOL | ND | 360 | 120 |
| 2,4-DINITROPHENOL | ND | 900 | 180 |
| 2,4-DINITROTOLUENE | ND | 360 | 65 |
| ,6-DINITROTOLUENE | ND | 360 | 80 |
| -CHLORONAPHTHALENE | ND | 360 | 140 |
| -CHLOROPHENOL | ND | 360 | 130 |
| 2-METHYLNAPHTHALENE | ND | 360 | 160 |
| 2-METHYLPHENOL | ND | 360 | 150 |
| 2-NITROANILINE | ND | 900 | 96 |
| -NITROPHENOL | ND | 360 | 160 |
| ,3'-DICHLOROBENZIDINE | ND | 360 | 80 |
| -NITROANILINE | ND | 900 | 95 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 900 | 120 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 360 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 360 | 120 |
| CHLOROANILINE | ND | 360 | 130 |
| CHLOROPHENYL-PHENYLETHER | ND | 360 | 89 |
| METHYLPHENOL (2) | ND | 360 | 150 |
| NITROANILINE | ND | 900 | 76 |
| 4-NITROPHENOL | ND | 900 | 170 |
| ACENAPHTHENE | ND | 360 | 110 |
| ENAPHTHYLENE | ND | 360 | 110 |
| THRACENE | ND | 360 | 73 |
| NZO(A)ANTHRACENE | ND | 360 | 74 |
| ENZO(A)PYRENE | ND | 270 | 40 |
| BENZO(B)FLUORANTHENE | ND | 360 | 69 |
| BENZO(G,H,I)PERYLENE | ND | 360 | 45 |
| NZO(K)FLUORANTHENE | ND | 360 | 74 |
| -CHLOROETHOXY)METHANE | ND | 360 | 160 |
| -CHLOROETHYL)ETHER | ND | 360 | 150 |
| 2-ETHYLHEXYL)PHTHALATE | ND | 360 | 93 |
| BUTYLBENZYLPHTHALATE | ND | 360 | 82 |
| CHRYSENE | ND | 360 | 98 |
| -N-BUTYLPHTHALATE | ND | 360 | 87 |
| -N-OCTYLPHTHALATE | ND | 360 | 54 |
| BENZO(A,H)ANTHRACENE | ND | 270 | 34 |
| BENZOFURAN | ND | 360 | 110 |
| DIETHYLPHTHALATE | ND | 360 | 59 |
| DIMETHYLPHTHALATE | ND | 360 | 65 |
| UORANTHENE | ND | 360 | 84 |
| UORENE | ND | 360 | 80 |
| XACHLOROBENZENE | ND | 360 | 98 |
| XACHLOROBUTADIENE | ND | 360 | 150 |
| HEXACHLOROCYCLOPENTADIENE | ND | 360 | 190 |
| HEXACHLOROETHANE | ND | 360 | 140 |
| DENO(1,2,3-CD)PYRENE | ND | 360 | 45 |
| NITROSO-DI-N-PROPYLAMINE | ND | 270 | 150 |
| NITROSODIPHENYLAMINE (1) | ND | 360 | 78 |
| PHTHALENE | ND | 360 | 150 |
| NITROBENZENE | ND | 360 | 150 |
| PENTACHLOROPHENOL | ND | 360 | 87 |
| PHENANTHRENE | ND | 360 | 72 |
| ENOL | ND | 360 | 170 |
| RENE | ND | 360 | 98 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-FLUOROPHENOL | 59 | 25-135 |
| NOL-D5 | 69 | 25-135 |
| ROBENZENE-D5 | 73 | 25-135 |
| LUOROBIPHENYL | 70 | 34-135 |
| 2,4,6-TRIBROMOPHENOL | 74 | 25-144 |
| TERPHENYL-D14 | 73 | 32-136 |

P : Project Reporting Limit
( : Cannot be separated from Diphenylamine
( : Cannot be separated from 3-Methylphenol

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| Sample ID: | 18609-2355 | Date Analyzed: | 11/04/99 20:08 |
| Lab Samp ID: | J141-06 | Dilution Factor: | 1 |
| Lab File ID: | RKB060 | Matrix | : SOIL |
| Ext Btch ID: | SVJ023S | % Moisture | : 8.2 |
| Calib. Ref.: | RKB050 | Instrument ID | : T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 360 | 150 |
| 1,2-DICHLOROBENZENE | ND | 360 | 140 |
| 1,3-DICHLOROBENZENE | ND | 360 | 140 |
| 1,4-DICHLOROBENZENE | ND | 360 | 130 |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | ND | 360 | 160 |
| 2,4,5-TRICHLOROPHENOL | ND | 900 | 88 |
| 2,4,6-TRICHLOROPHENOL | ND | 360 | 130 |
| 2,4-DICHLOROPHENOL | ND | 360 | 170 |
| 2,4-DIMETHYLPHENOL | ND | 360 | 120 |
| 2,4-DINITROPHENOL | ND | 900 | 180 |
| 2,4-DINITROTOLUENE | ND | 360 | 65 |
| 2,6-DINITROTOLUENE | ND | 360 | 81 |
| 2-CHLORONAPHTHALENE | ND | 360 | 140 |
| 2-CHLOROPHENOL | ND | 360 | 130 |
| 2-METHYLNAPHTHALENE | ND | 360 | 160 |
| 2-METHYLPHENOL | ND | 360 | 150 |
| 2-NITROANILINE | ND | 900 | 97 |
| 2-NITROPHENOL | ND | 360 | 160 |
| 3,3'-DICHLOROBENZIDINE | ND | 360 | 80 |
| 3-NITROANILINE | ND | 900 | 95 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 900 | 120 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 360 | 85 |
| 4-CHLORO-3-METHYLPHENOL | ND | 360 | 120 |
| 4-CHLOROANILINE | ND | 360 | 130 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 360 | 89 |
| 4-METHYLPHENOL (2) | ND | 360 | 150 |
| 4-NITROANILINE | ND | 900 | 76 |
| 4-NITROPHENOL | ND | 900 | 170 |
| ACENAPHTHENE | ND | 360 | 110 |
| ACENAPHTHYLENE | ND | 360 | 110 |
| ANTHRACENE | ND | 360 | 73 |
| BENZO(A)ANTHRACENE | ND | 360 | 75 |
| BENZO(A)PYRENE | ND | 270 | 40 |
| BENZO(B)FLUORANTHENE | ND | 360 | 69 |
| BENZO(G,H,I)PERYLENE | ND | 360 | 45 |
| BENZO(K)FLUORANTHENE | ND | 360 | 74 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 360 | 160 |
| BIS(2-CHLOROETHYL)ETHER | ND | 360 | 150 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 360 | 93 |
| BUTYLBENZYLPHTHALATE | ND | 360 | 82 |
| CHRYSENE | ND | 360 | 98 |
| DI-N-BUTYLPHTHALATE | ND | 360 | 87 |
| DI-N-OCTYLPHTHALATE | ND | 360 | 54 |
| DIBENZO(A,H)ANTHRACENE | ND | 270 | 34 |
| DIBENZOFURAN | ND | 360 | 110 |
| DIETHYLPHTHALATE | ND | 360 | 59 |
| DIMETHYLPHTHALATE | ND | 360 | 65 |
| FLUORANTHENE | ND | 360 | 84 |
| FLUORENE | ND | 360 | 81 |
| HEXACHLOROBENZENE | ND | 360 | 99 |
| HEXACHLOROBUTADIENE | ND | 360 | 150 |
| HEXACHLOROCYCLOPENTADIENE | ND | 360 | 190 |
| HEXACHLOROETHANE | ND | 360 | 140 |
| INDENO(1,2,3-CD)PYRENE | ND | 360 | 45 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 270 | 150 |
| N-NITROSODIPHENYLAMINE (1) | ND | 360 | 78 |
| NAPHTHALENE | ND | 360 | 150 |
| NITROBENZENE | ND | 360 | 150 |
| PENTACHLOROPHENOL | ND | 360 | 88 |
| PHENANTHRENE | ND | 360 | 72 |
| PHENOL | ND | 360 | 170 |
| PYRENE | ND | 360 | 98 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-FLUOROPHENOL | 64 | 25-135 |
| PHENOL-D5 | 77 | 25-135 |
| NITROBENZENE-D5 | 79 | 25-135 |
| 2-FLUOROBIPHENYL | 73 | 34-135 |
| 2,4,6-TRIBROMOPHENOL | 70 | 25-144 |
| TERPHENYL-D14 | 71 | 32-136 |

PRL : Project Reporting Limit
(1) : Cannot be separated from Diphenylamine
(2) : Cannot be separated from 3-Methylphenol

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| ient | : IT CORPORATION | Date Collected: | 10/28/99 |
| oject | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| h No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| le ID | : 18609-2356 | Date Analyzed: | 11/05/99 15:41 |
| amp ID | : J141-07 | Dilution Factor: | 1 |
| ab File ID | : RKB072 | Matrix | : SOIL |
| ct Btch ID | : SVJ023S | % Moisture | : 11.7 |
| alib. Ref. | : RKB070 | Instrument ID | : T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-TRICHLOROBENZENE | ND | 370 | 150 |
| 2-DICHLOROBENZENE | ND | 370 | 150 |
| 1,3-DICHLOROBENZENE | ND | 370 | 140 |
| 1,4-DICHLOROBENZENE | ND | 370 | 130 |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | ND | 370 | 170 |
| 4,5-TRICHLOROPHENOL | ND | 940 | 92 |
| 4,6-TRICHLOROPHENOL | ND | 370 | 130 |
| 4-DICHLOROPHENOL | ND | 370 | 170 |
| 2,4-DIMETHYLPHENOL | ND | 370 | 130 |
| 2,4-DINITROPHENOL | ND | 940 | 180 |
| 2,4-DINITROTOLUENE | ND | 370 | 68 |
| 6-DINITROTOLUENE | ND | 370 | 84 |
| CHLORONAPHTHALENE | ND | 370 | 150 |
| CHLOROPHENOL | ND | 370 | 140 |
| 2-METHYLNAPHTHALENE | ND | 370 | 160 |
| 2-METHYLPHENOL | ND | 370 | 160 |
| 2-NITROANILINE | ND | 940 | 100 |
| NITROPHENOL | ND | 370 | 170 |
| 3'-DICHLOROBENZIDINE | ND | 370 | 83 |
| NITROANILINE | ND | 940 | 99 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 940 | 130 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 370 | 88 |
| 4-CHLORO-3-METHYLPHENOL | ND | 370 | 120 |
| CHLOROANILINE | ND | 370 | 140 |
| CHLOROPHENYL-PHENYLETHER | ND | 370 | 93 |
| METHYLPHENOL (2) | ND | 370 | 160 |
| NITROANILINE | ND | 940 | 79 |
| 4-NITROPHENOL | ND | 940 | 170 |
| ACENAPHTHENE | ND | 370 | 120 |
| ENAPHTHYLENE | ND | 370 | 120 |
| THRACENE | ND | 370 | 76 |
| NZO(A)ANTHRACENE | ND | 370 | 78 |
| NZO(A)PYRENE | ND | 280 | 42 |
| BENZO(B)FLUORANTHENE | ND | 370 | 72 |
| BENZO(G,H,I)PERYLENE | ND | 370 | 47 |
| NZO(K)FLUORANTHENE | ND | 370 | 77 |
| -CHLOROETHOXY)METHANE | ND | 370 | 170 |
| -CHLOROETHYL)ETHER | ND | 370 | 150 |
| -ETHYLHEXYL)PHTHALATE | ND | 370 | 97 |
| BUTYLBENZYLPHTHALATE | ND | 370 | 86 |
| CHRYSENE | ND | 370 | 100 |
| -N-BUTYLPHTHALATE | ND | 370 | 90 |
| -N-OCTYLPHTHALATE | ND | 370 | 57 |
| BENZO(A,H)ANTHRACENE | ND | 280 | 36 |
| BENZOFURAN | ND | 370 | 120 |
| DIETHYLPHTHALATE | ND | 370 | 62 |
| DIMETHYLPHTHALATE | ND | 370 | 68 |
| UORANTHENE | ND | 370 | 88 |
| ORENE | ND | 370 | 84 |
| CACHLOROBENZENE | ND | 370 | 100 |
| XACHLOROBUTADIENE | ND | 370 | 160 |
| HEXACHLOROCYCLOPENTADIENE | ND | 370 | 200 |
| HEXACHLOROETHANE | ND | 370 | 140 |
| NDENO(1,2,3-CD)PYRENE | ND | 370 | 47 |
| NITROSO-DI-N-PROPYLAMINE | ND | 280 | 160 |
| NITROSODIPHENYLAMINE (1) | ND | 370 | 81 |
| PHTHALENE | ND | 370 | 150 |
| NITROBENZENE | ND | 370 | 150 |
| PENTACHLOROPHENOL | ND | 370 | 91 |
| PHENANTHRENE | ND | 370 | 75 |
| ENOL | ND | 370 | 180 |
| RENE | ND | 370 | 100 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-FLUOROPHENOL | 60 | 25-135 |
| ENOL-D5 | 71 | 25-135 |
| TROBENZENE-D5 | 73 | 25-135 |
| LUOROBIPHENYL | 69 | 34-135 |
| 2,4,6-TRIBROMOPHENOL | 58 | 25-144 |
| TERPHENYL-D14 | 70 | 32-136 |

. : Project Reporting Limit
) : Cannot be separated from Diphenylamine
) : Cannot be separated from 3-Methylphenol

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| Sample ID: | 18609-2357 | Date Analyzed: | 11/05/99 16:18 |
| Lab Samp ID: | J141-08 | Dilution Factor: | 1 |
| Lab File ID: | RKB073 | Matrix : | SOIL |
| Ext Btch ID: | SVJ023S | % Moisture : | 10.3 |
| Calib. Ref.: | RKB070 | Instrument ID : | T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 370 | 150 |
| 1,2-DICHLOROBENZENE | ND | 370 | 140 |
| 1,3-DICHLOROBENZENE | ND | 370 | 140 |
| 1,4-DICHLOROBENZENE | ND | 370 | 130 |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | ND | 370 | 170 |
| 2,4,5-TRICHLOROPHENOL | ND | 930 | 90 |
| 2,4,6-TRICHLOROPHENOL | ND | 370 | 130 |
| 2,4-DICHLOROPHENOL | ND | 370 | 170 |
| 2,4-DIMETHYLPHENOL | ND | 370 | 130 |
| 2,4-DINITROPHENOL | ND | 930 | 180 |
| 2,4-DINITROTOLUENE | ND | 370 | 67 |
| 2,6-DINITROTOLUENE | ND | 370 | 82 |
| 2-CHLORONAPHTHALENE | ND | 370 | 150 |
| 2-CHLOROPHENOL | ND | 370 | 140 |
| 2-METHYLNAPHTHALENE | ND | 370 | 160 |
| 2-METHYLPHENOL | ND | 370 | 150 |
| 2-NITROANILINE | ND | 930 | 99 |
| 2-NITROPHENOL | ND | 370 | 170 |
| 3,3'-DICHLOROBENZIDINE | ND | 370 | 82 |
| 3-NITROANILINE | ND | 930 | 97 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 930 | 130 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 370 | 87 |
| 4-CHLORO-3-METHYLPHENOL | ND | 370 | 120 |
| 4-CHLOROANILINE | ND | 370 | 130 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 370 | 91 |
| 4-METHYLPHENOL (2) | ND | 370 | 160 |
| 4-NITROANILINE | ND | 930 | 78 |
| 4-NITROPHENOL | ND | 930 | 170 |
| ACENAPHTHENE | ND | 370 | 120 |
| ACENAPHTHYLENE | ND | 370 | 110 |
| ANTHRACENE | ND | 370 | 75 |
| BENZO(A)ANTHRACENE | ND | 370 | 76 |
| BENZO(A)PYRENE | ND | 280 | 41 |
| BENZO(B)FLUORANTHENE | ND | 370 | 71 |
| BENZO(G,H,I)PERYLENE | ND | 370 | 46 |
| BENZO(K)FLUORANTHENE | ND | 370 | 76 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 370 | 170 |
| BIS(2-CHLOROETHYL)ETHER | ND | 370 | 150 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 370 | 95 |
| BUTYLBENZYLPHTHALATE | ND | 370 | 84 |
| CHRYSENE | ND | 370 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 370 | 89 |
| DI-N-OCTYLPHTHALATE | ND | 370 | 56 |
| DIBENZO(A,H)ANTHRACENE | ND | 280 | 35 |
| DIBENZOFURAN | ND | 370 | 120 |
| DIETHYLPHTHALATE | ND | 370 | 61 |
| DIMETHYLPHTHALATE | ND | 370 | 67 |
| FLUORANTHENE | ND | 370 | 86 |
| FLUORENE | ND | 370 | 82 |
| HEXACHLOROBENZENE | ND | 370 | 100 |
| HEXACHLOROBUTADIENE | ND | 370 | 160 |
| HEXACHLOROCYCLOPENTADIENE | ND | 370 | 200 |
| HEXACHLOROETHANE | ND | 370 | 140 |
| INDENO(1,2,3-CD)PYRENE | ND | 370 | 46 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 280 | 160 |
| N-NITROSODIPHENYLAMINE (1) | ND | 370 | 80 |
| NAPHTHALENE | ND | 370 | 150 |
| NITROBENZENE | ND | 370 | 150 |
| PENTACHLOROPHENOL | ND | 370 | 90 |
| PHENANTHRENE | ND | 370 | 74 |
| PHENOL | ND | 370 | 180 |
| PYRENE | ND | 370 | 100 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-FLUOROPHENOL | 68 | 25-135 |
| PHENOL-D5 | 79 | 25-135 |
| NITROBENZENE-D5 | 82 | 25-135 |
| 2-FLUOROBIPHENYL | 76 | 34-135 |
| 2,4,6-TRIBROMOPHENOL | 60 | 25-144 |
| TERPHENYL-D14 | 70 | 32-136 |

PRL : Project Reporting Limit
(1) : Cannot be separated from Diphenylamine
(2) : Cannot be separated from 3-Methylphenol

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| ient | : IT CORPORATION | Date Collected: | 10/28/99 |
| oject | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| e ID | : 18609-2358 | Date Analyzed: | 11/05/99 16:55 |
| amp ID | : J141-09 | Dilution Factor: | 1 |
| b File ID | : RKB074 | Matrix | : SOIL |
| t Btch ID | : SVJ023S | % Moisture | : 11.8 |
| lib. Ref. | : RKB070 | Instrument ID | : T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-TRICHLOROBENZENE | ND | 370 | 150 |
| 2-DICHLOROBENZENE | ND | 370 | 150 |
| 1,3-DICHLOROBENZENE | ND | 370 | 140 |
| 1,4-DICHLOROBENZENE | ND | 370 | 130 |
| 2'2'-OXYBIS(1-CHLOROPROPANE) | ND | 370 | 170 |
| 4,5-TRICHLOROPHENOL | ND | 940 | 92 |
| ,6-TRICHLOROPHENOL | ND | 370 | 130 |
| -DICHLOROPHENOL | ND | 370 | 170 |
| 2,4-DIMETHYLPHENOL | ND | 370 | 130 |
| 2,4-DINITROPHENOL | ND | 940 | 180 |
| 2,4-DINITROTOLUENE | ND | 370 | 68 |
| -DINITROTOLUENE | ND | 370 | 84 |
| HLORONAPHTHALENE | ND | 370 | 150 |
| HLOROPHENOL | ND | 370 | 140 |
| 2-METHYLNAPHTHALENE | ND | 370 | 160 |
| 2-METHYLPHENOL | ND | 370 | 160 |
| 2-NITROANILINE | ND | 940 | 100 |
| ITROPHENOL | ND | 370 | 170 |
| '-DICHLOROBENZIDINE | ND | 370 | 83 |
| ITROANILINE | ND | 940 | 99 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 940 | 130 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 370 | 88 |
| 4-CHLORO-3-METHYLPHENOL | ND | 370 | 120 |
| HLOROANILINE | ND | 370 | 140 |
| HLOROPHENYL-PHENYLETHER | ND | 370 | 93 |
| ETHYLPHENOL (2) | ND | 370 | 160 |
| 4-NITROANILINE | ND | 940 | 79 |
| 4-NITROPHENOL | ND | 940 | 170 |
| ACENAPHTHENE | ND | 370 | 120 |
| NAPHTHYLENE | ND | 370 | 120 |
| HRACENE | ND | 370 | 76 |
| ZO(A)ANTHRACENE | ND | 370 | 78 |
| BENZO(A)PYRENE | ND | 280 | 42 |
| BENZO(B)FLUORANTHENE | ND | 370 | 72 |
| BENZO(G,H,I)PERYLENE | ND | 370 | 47 |
| (K)FLUORANTHENE | ND | 370 | 77 |
| CHLOROETHOXY)METHANE | ND | 370 | 170 |
| CHLOROETHYL)ETHER | ND | 370 | 150 |
| -ETHYLHEXYL)PHTHALATE | ND | 370 | 97 |
| BUTYLBENZYLPHTHALATE | ND | 370 | 86 |
| CHRYSENE | ND | 370 | 100 |
| N-BUTYLPHTHALATE | ND | 370 | 90 |
| N-OCTYLPHTHALATE | ND | 370 | 57 |
| ENZO(A,H)ANTHRACENE | ND | 280 | 36 |
| BENZOFURAN | ND | 370 | 120 |
| DIETHYLPHTHALATE | ND | 370 | 62 |
| DIMETHYLPHTHALATE | ND | 370 | 68 |
| ORANTHENE | ND | 370 | 88 |
| ORENE | ND | 370 | 84 |
| ACHLOROBENZENE | ND | 370 | 100 |
| ACHLOROBUTADIENE | ND | 370 | 160 |
| HEXACHLOROCYCLOPENTADIENE | ND | 370 | 200 |
| HEXACHLOROETHANE | ND | 370 | 140 |
| ENO(1,2,3-CD)PYRENE | ND | 370 | 47 |
| ITROSO-DI-N-PROPYLAMINE | ND | 280 | 160 |
| ITROSODIPHENYLAMINE (1) | ND | 370 | 82 |
| THALENE | ND | 370 | 150 |
| NITROBENZENE | ND | 370 | 150 |
| PENTACHLOROPHENOL | ND | 370 | 91 |
| PHENANTHRENE | ND | 370 | 75 |
| IOL | ND | 370 | 180 |
| NE | ND | 370 | 100 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-FLUOROPHENOL | 66 | 25-135 |
| IOL-D5 | 75 | 25-135 |
| OBENZENE-D5 | 77 | 25-135 |
| UOROBIPHENYL | 71 | 34-135 |
| 2,4,6-TRIBROMOPHENOL | 56 | 25-144 |
| TERPHENYL-D14 | 68 | 32-136 |

PR : Project Reporting Limit
(1 : Cannot be separated from Diphenylamine
(2 : Cannot be separated from 3-Methylphenol

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| Sample ID: | 18609-2359 | Date Analyzed: | 11/05/99 17:32 |
| Lab Samp ID: | J141-10 | Dilution Factor: | 1 |
| Lab File ID: | RKB075 | Matrix | : SOIL |
| Ext Btch ID: | SVJ023S | % Moisture | : 11.4 |
| Calib. Ref.: | RKB070 | Instrument ID | : T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 370 | 150 |
| 1,2-DICHLOROBENZENE | ND | 370 | 150 |
| 1,3-DICHLOROBENZENE | ND | 370 | 140 |
| 1,4-DICHLOROBENZENE | ND | 370 | 130 |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | ND | 370 | 170 |
| 2,4,5-TRICHLOROPHENOL | ND | 940 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 370 | 130 |
| 2,4-DICHLOROPHENOL | ND | 370 | 170 |
| 2,4-DIMETHYLPHENOL | ND | 370 | 130 |
| 2,4-DINITROPHENOL | ND | 940 | 180 |
| 2,4-DINITROTOLUENE | ND | 370 | 67 |
| 2,6-DINITROTOLUENE | ND | 370 | 84 |
| 2-CHLORONAPHTHALENE | ND | 370 | 150 |
| 2-CHLOROPHENOL | ND | 370 | 140 |
| 2-METHYLNAPHTHALENE | ND | 370 | 160 |
| 2-METHYLPHENOL | ND | 370 | 160 |
| 2-NITROANILINE | ND | 940 | 100 |
| 2-NITROPHENOL | ND | 370 | 170 |
| 3,3'-DICHLOROBENZIDINE | ND | 370 | 83 |
| 3-NITROANILINE | ND | 940 | 98 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 940 | 130 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 370 | 88 |
| 4-CHLORO-3-METHYLPHENOL | ND | 370 | 120 |
| 4-CHLOROANILINE | ND | 370 | 140 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 370 | 92 |
| 4-METHYLPHENOL (2) | ND | 370 | 160 |
| 4-NITROANILINE | ND | 940 | 79 |
| 4-NITROPHENOL | ND | 940 | 170 |
| ACENAPHTHENE | ND | 370 | 120 |
| ACENAPHTHYLENE | ND | 370 | 120 |
| ANTHRACENE | ND | 370 | 76 |
| BENZO(A)ANTHRACENE | ND | 370 | 77 |
| BENZO(A)PYRENE | ND | 280 | 42 |
| BENZO(B)FLUORANTHENE | ND | 370 | 72 |
| BENZO(G,H,I)PERYLENE | ND | 370 | 47 |
| BENZO(K)FLUORANTHENE | ND | 370 | 77 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 370 | 170 |
| BIS(2-CHLOROETHYL)ETHER | ND | 370 | 150 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 370 | 97 |
| BUTYLBENZYLPHTHALATE | ND | 370 | 85 |
| CHRYSENE | ND | 370 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 370 | 90 |
| DI-N-OCTYLPHTHALATE | ND | 370 | 56 |
| DIBENZO(A,H)ANTHRACENE | ND | 280 | 36 |
| DIBENZOFURAN | ND | 370 | 120 |
| DIETHYLPHTHALATE | ND | 370 | 62 |
| DIMETHYLPHTHALATE | ND | 370 | 68 |
| FLUORANTHENE | ND | 370 | 87 |
| FLUORENE | ND | 370 | 84 |
| HEXACHLOROBENZENE | ND | 370 | 100 |
| HEXACHLOROBUTADIENE | ND | 370 | 160 |
| HEXACHLOROCYCLOPENTADIENE | ND | 370 | 200 |
| HEXACHLOROETHANE | ND | 370 | 140 |
| INDENO(1,2,3-CD)PYRENE | ND | 370 | 47 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 280 | 160 |
| N-NITROSODIPHENYLAMINE (1) | ND | 370 | 81 |
| NAPHTHALENE | ND | 370 | 150 |
| NITROBENZENE | ND | 370 | 150 |
| PENTACHLOROPHENOL | ND | 370 | 91 |
| PHENANTHRENE | ND | 370 | 75 |
| PHENOL | ND | 370 | 180 |
| PYRENE | ND | 370 | 100 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-FLUOROPHENOL | 63 | 25-135 |
| PHENOL-D5 | 72 | 25-135 |
| NITROBENZENE-D5 | 75 | 25-135 |
| 2-FLUOROBIPHENYL | 72 | 34-135 |
| 2,4,6-TRIBROMOPHENOL | 60 | 25-144 |
| TERPHENYL-D14 | 69 | 32-136 |

PRL : Project Reporting Limit
(1) : Cannot be separated from Diphenylamine
(2) : Cannot be separated from 3-Methylphenol

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| Sample ID: | 18609-2360 | Date Analyzed: | 11/05/99 18:09 |
| Lab Samp ID: | J141-11 | Dilution Factor: | 1 |
| Lab File ID: | RKB076 | Matrix | : SOIL |
| Qct Btch ID: | SVJ023S | % Moisture | : 11.8 |
| Calib. Ref.: | RKB070 | Instrument ID | : T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 370 | 150 |
| 1,2-DICHLOROBENZENE | ND | 370 | 150 |
| 1,3-DICHLOROBENZENE | ND | 370 | 140 |
| 1,4-DICHLOROBENZENE | ND | 370 | 130 |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | ND | 370 | 170 |
| 2,4,5-TRICHLOROPHENOL | ND | 940 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 370 | 130 |
| 2,4-DICHLOROPHENOL | ND | 370 | 170 |
| 2,4-DIMETHYLPHENOL | ND | 370 | 130 |
| 2,4-DINITROPHENOL | ND | 940 | 180 |
| 2,4-DINITROTOLUENE | ND | 370 | 68 |
| 2,6-DINITROTOLUENE | ND | 370 | 84 |
| 2-CHLORONAPHTHALENE | ND | 370 | 150 |
| 2-CHLOROPHENOL | ND | 370 | 140 |
| 2-METHYLNAPHTHALENE | ND | 370 | 160 |
| 2-METHYLPHENOL | ND | 370 | 160 |
| 2-NITROANILINE | ND | 940 | 100 |
| 2-NITROPHENOL | ND | 370 | 170 |
| 3,3'-DICHLOROBENZIDINE | ND | 370 | 83 |
| 3-NITROANILINE | ND | 940 | 99 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 940 | 130 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 370 | 88 |
| 4-CHLORO-3-METHYLPHENOL | ND | 370 | 120 |
| 4-CHLOROANILINE | ND | 370 | 140 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 370 | 93 |
| 4-METHYLPHENOL (2) | ND | 370 | 160 |
| 4-NITROANILINE | ND | 940 | 79 |
| 4-NITROPHENOL | ND | 940 | 170 |
| ACENAPHTHENE | ND | 370 | 120 |
| ACENAPHTHYLENE | ND | 370 | 120 |
| ANTHRACENE | ND | 370 | 76 |
| BENZO(A)ANTHRACENE | ND | 370 | 78 |
| BENZO(A)PYRENE | ND | 280 | 42 |
| BENZO(B)FLUORANTHENE | ND | 370 | 72 |
| BENZO(G,H,I)PERYLENE | ND | 370 | 47 |
| BENZO(K)FLUORANTHENE | ND | 370 | 77 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 370 | 170 |
| BIS(2-CHLOROETHYL)ETHER | ND | 370 | 150 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 370 | 97 |
| BUTYLBENZYLPHTHALATE | ND | 370 | 86 |
| CHRYSENE | ND | 370 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 370 | 90 |
| DI-N-OCTYLPHTHALATE | ND | 370 | 57 |
| DIBENZO(A,H)ANTHRACENE | ND | 280 | 36 |
| DIBENZOFURAN | ND | 370 | 120 |
| DIETHYLPHTHALATE | ND | 370 | 62 |
| DIMETHYLPHTHALATE | ND | 370 | 68 |
| FLUORANTHENE | ND | 370 | 88 |
| FLUORENE | ND | 370 | 84 |
| HEXACHLOROBENZENE | ND | 370 | 100 |
| HEXACHLOROBUTADIENE | ND | 370 | 160 |
| HEXACHLOROCYCLOPENTADIENE | ND | 370 | 200 |
| HEXACHLOROETHANE | ND | 370 | 140 |
| INDENO(1,2,3-CD)PYRENE | ND | 370 | 47 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 280 | 160 |
| N-NITROSODIPHENYLAMINE (1) | ND | 370 | 82 |
| NAPHTHALENE | ND | 370 | 150 |
| NITROBENZENE | ND | 370 | 150 |
| PENTACHLOROPHENOL | ND | 370 | 91 |
| PHENANTHRENE | ND | 370 | 75 |
| PHENOL | ND | 370 | 180 |
| PYRENE | ND | 370 | 100 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-FLUOROPHENOL | 63 | 25-135 |
| PHENOL-D5 | 74 | 25-135 |
| NITROBENZENE-D5 | 76 | 25-135 |
| 2-FLUOROBIPHENYL | 73 | 34-135 |
| 2,4,6-TRIBROMOPHENOL | 64 | 25-144 |
| TERPHENYL-D14 | 68 | 32-136 |

PRL : Project Reporting Limit
(1) : Cannot be separated from Diphenylamine
(2) : Cannot be separated from 3-Methylphenol

METHOD 3520B/8270B
SEMIVOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/28/99 18:30 |
| Sample ID: | 18609-2361 | Date Analyzed: | 11/05/99 18:46 |
| Lab Samp ID: | J141-12 | Dilution Factor: | .96 |
| Lab File ID: | RKB077 | Matrix : | WATER |
| Ext Btch ID: | SVJ021W | % Moisture : | NA |
| Calib. Ref.: | RKB070 | Instrument ID : | T-003 |

| PARAMETERS | RESULTS (ug/L) | PRL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 9.6 | .83 |
| 1,2-DICHLOROBENZENE | ND | 9.6 | .49 |
| 1,3-DICHLOROBENZENE | ND | 9.6 | .77 |
| 1,4-DICHLOROBENZENE | ND | 9.6 | 1.1 |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | ND | 9.6 | 4.6 |
| 2,4,5-TRICHLOROPHENOL | ND | 24 | 2.6 |
| 2,4,6-TRICHLOROPHENOL | ND | 9.6 | 2.5 |
| 2,4-DICHLOROPHENOL | ND | 9.6 | 2.3 |
| 2,4-DIMETHYLPHENOL | ND | 9.6 | 1.3 |
| 2,4-DINITROPHENOL | ND | 24 | 4.7 |
| 2,4-DINITROTOLUENE | ND | 9.6 | 2.4 |
| 2,6-DINITROTOLUENE | ND | 9.6 | 1.6 |
| 2-CHLORONAPHTHALENE | ND | 9.6 | .84 |
| 2-CHLOROPHENOL | ND | 9.6 | 2.1 |
| 2-METHYLNAPHTHALENE | ND | 9.6 | .99 |
| 2-METHYLPHENOL | ND | 9.6 | 1.5 |
| 2-NITROANILINE | ND | 24 | 3 |
| 2-NITROPHENOL | ND | 9.6 | 2.9 |
| 3,3'-DICHLOROBENZIDINE | ND | 9.6 | 4.2 |
| 3-NITROANILINE | ND | 24 | 1.6 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 24 | 3 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 9.6 | .54 |
| 4-CHLORO-3-METHYLPHENOL | ND | 9.6 | 3 |
| 4-CHLOROANILINE | ND | 9.6 | 2.8 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 9.6 | 1.9 |
| 4-METHYLPHENOL (2) | ND | 9.6 | 2.1 |
| 4-NITROANILINE | ND | 24 | 3.4 |
| 4-NITROPHENOL | ND | 24 | 5.8 |
| ACENAPHTHENE | ND | 9.6 | 1.0 |
| ACENAPHTHYLENE | ND | 9.6 | .74 |
| ANTHRACENE | ND | 9.6 | 1 |
| BENZO(A)ANTHRACENE | ND | 9.6 | 1.0 |
| BENZO(A)PYRENE | ND | 9.6 | 1.2 |
| BENZO(B)FLUORANTHENE | ND | 9.6 | 3 |
| BENZO(G,H,I)PERYLENE | ND | 9.6 | .5 |
| BENZO(K)FLUORANTHENE | ND | 9.6 | 3.5 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 9.6 | 2.1 |
| BIS(2-CHLOROETHYL)ETHER | ND | 9.6 | 2.5 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 9.6 | 1.4 |
| BUTYLBENZYLPHTHALATE | ND | 9.6 | 1.6 |
| CHRYSENE | ND | 9.6 | 1.4 |
| DI-N-BUTYLPHTHALATE | ND | 9.6 | 2.2 |
| DI-N-OCTYLPHTHALATE | ND | 9.6 | .85 |
| DIBENZO(A,H)ANTHRACENE | ND | 9.6 | 1.3 |
| DIBENZOFURAN | ND | 9.6 | .88 |
| DIETHYLPHTHALATE | ND | 9.6 | .94 |
| DIMETHYLPHTHALATE | ND | 9.6 | 1 |
| FLUORANTHENE | ND | 9.6 | 1.1 |
| FLUORENE | ND | 9.6 | 2.3 |
| HEXACHLOROBENZENE | ND | 9.6 | 1.2 |
| HEXACHLOROBUTADIENE | ND | 9.6 | .81 |
| HEXACHLOROCYCLOPENTADIENE | ND | 9.6 | 8.5 |
| HEXACHLOROETHANE | ND | 9.6 | 1.9 |
| INDENO(1,2,3-CD)PYRENE | ND | 9.6 | 1.1 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 9.6 | 1.3 |
| N-NITROSODIPHENYLAMINE (1) | ND | 9.6 | 1.5 |
| NAPHTHALENE | ND | 9.6 | 1.2 |
| NITROBENZENE | ND | 9.6 | 1.3 |
| PENTACHLOROPHENOL | ND | 9.6 | 2.8 |
| PHENANTHRENE | ND | 9.6 | .63 |
| PHENOL | ND | 9.6 | 2.3 |
| PYRENE | ND | 9.6 | .37 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| 2-FLUOROPHENOL | 75 | 25-125 |
| PHENOL-D5 | 82 | 25-125 |
| NITROBENZENE-D5 | 84 | 32-125 |
| 2-FLUOROBIPHENYL | 80 | 43-125 |
| 2,4,6-TRIBROMOPHENOL | 61 | 25-134 |
| TERPHENYL-D14 | 71 | 42-126 |

PRL : Project Reporting Limit
(1) : Cannot be separated from Diphenylamine
(2) : Cannot be separated from 3-Methylphenol

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| lient | : IT CORPORATION | Date Collected: | NA |
| roject | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/29/99 |
| h No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| le ID: | MBLK1S | Date Analyzed: | 11/04/99 15:50 |
| Samp ID: | SVJ023SB | Dilution Factor: | 1 |
| ab File ID: | RKB053 | Matrix | : SOIL |
| xt Btch ID: | SVJ023S | % Moisture | : NA |
| alib. Ref.: | RKB050 | Instrument ID | : T-003 |

| ARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ,2,4-TRICHLOROBENZENE | ND | 330 | 140 |
| ,2-DICHLOROBENZENE | ND | 330 | 130 |
| 1,3-DICHLOROBENZENE | ND | 330 | 120 |
| 1,4-DICHLOROBENZENE | ND | 330 | 120 |
| ,2'-OXYBIS(1-CHLOROPROPANE) | ND | 330 | 150 |
| ,4,5-TRICHLOROPHENOL | ND | 830 | 81 |
| ,4,6-TRICHLOROPHENOL | ND | 330 | 120 |
| ,4-DICHLOROPHENOL | ND | 330 | 150 |
| 2,4-DIMETHYLPHENOL | ND | 330 | 110 |
| 2,4-DINITROPHENOL | ND | 830 | 160 |
| ,4-DINITROTOLUENE | ND | 330 | 60 |
| ,6-DINITROTOLUENE | ND | 330 | 74 |
| -CHLORONAPHTHALENE | ND | 330 | 130 |
| -CHLOROPHENOL | ND | 330 | 120 |
| 2-METHYLNAPHTHALENE | ND | 330 | 140 |
| 2-METHYLPHENOL | ND | 330 | 140 |
| -NITROANILINE | ND | 830 | 89 |
| -NITROPHENOL | ND | 330 | 150 |
| ,3'-DICHLOROBENZIDINE | ND | 330 | 73 |
| -NITROANILINE | ND | 830 | 87 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 830 | 110 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 330 | 78 |
| -CHLORO-3-METHYLPHENOL | ND | 330 | 110 |
| CHLOROANILINE | ND | 330 | 120 |
| CHLOROPHENYL-PHENYLETHER | ND | 330 | 82 |
| METHYLPHENOL (2) | ND | 330 | 140 |
| 4-NITROANILINE | ND | 830 | 70 |
| 4-NITROPHENOL | ND | 830 | 150 |
| ACENAPHTHENE | ND | 330 | 100 |
| ENAPHTHYLENE | ND | 330 | 100 |
| THRACENE | ND | 330 | 67 |
| NZO(A)ANTHRACENE | ND | 330 | 69 |
| BENZO(A)PYRENE | ND | 250 | 37 |
| BENZO(B)FLUORANTHENE | ND | 330 | 64 |
| BENZO(G,H,I)PERYLENE | ND | 330 | 41 |
| O(K)FLUORANTHENE | ND | 330 | 68 |
| -CHLOROETHOXY)METHANE | ND | 330 | 150 |
| -CHLOROETHYL)ETHER | ND | 330 | 140 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 330 | 85 |
| BUTYLBENZYLPHTHALATE | ND | 330 | 76 |
| CHRYSENE | ND | 330 | 90 |
| -N-BUTYLPHTHALATE | ND | 330 | 80 |
| -N-OCTYLPHTHALATE | ND | 330 | 50 |
| BENZO(A,H)ANTHRACENE | ND | 250 | 32 |
| DIBENZOFURAN | ND | 330 | 100 |
| DIETHYLPHTHALATE | ND | 330 | 54 |
| DIMETHYLPHTHALATE | ND | 330 | 60 |
| UORANTHENE | ND | 330 | 77 |
| UORENE | ND | 330 | 74 |
| XACHLOROBENZENE | ND | 330 | 91 |
| HEXACHLOROBUTADIENE | ND | 330 | 140 |
| HEXACHLOROCYCLOPENTADIENE | ND | 330 | 180 |
| HEXACHLOROETHANE | ND | 330 | 130 |
| DENO(1,2,3-CD)PYRENE | ND | 330 | 41 |
| NITROSO-DI-N-PROPYLAMINE | ND | 250 | 140 |
| NITROSODIPHENYLAMINE (1) | ND | 330 | 72 |
| NAPHTHALENE | ND | 330 | 130 |
| NITROBENZENE | ND | 330 | 130 |
| PENTACHLOROPHENOL | ND | 330 | 80 |
| ENANTHRENE | ND | 330 | 66 |
| ENOL | ND | 330 | 160 |
| RENE | ND | 330 | 90 |

| SURROGATE PARAMETERS | % RECOVERY | QC LIMIT |
|---|---|---|
| FLUOROPHENOL | 78 | 25-135 |
| ENOL-D5 | 93 | 25-135 |
| TROBENZENE-D5 | 94 | 25-135 |
| FLUOROBIPHENYL | 83 | 34-135 |
| 2,4,6-TRIBROMOPHENOL | 77 | 25-144 |
| TERPHENYL-D14 | 77 | 32-136 |

L : Project Reporting Limit
) : Cannot be separated from Diphenylamine
) : Cannot be separated from 3-Methylphenol

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J141
METHOD: METHOD 3520B/8270B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | SVJ021WB | SVJ021WL | SVJ021WC | | |
| LAB FILE ID: | RKB036 | RKB037 | RKB038 | | |
| DATE EXTRACTED: | 10/28/9918:30 | 10/28/9918:30 | 10/28/9918:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 11/04/9900:41 | 11/04/9901:18 | 11/04/9901:55 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | SVJ021W | SVJ021W | SVJ021W | | |
| CALIB. REF: | RKB029 | RKB029 | RKB029 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 80 | 58.4 | 73 | 80 | 62.3 | 78 | 7 | 44-142 | 20 |
| 1,4-Dichlorobenzene | ND | 80 | 52.1 | 65 | 80 | 53.1 | 66 | 2 | 30-125 | 20 |
| 2,4-Dinitrotoluene | ND | 80 | 82.7 | 103 | 80 | 82.4 | 103 | 0 | 39-139 | 20 |
| 2-Chlorophenol | ND | 80 | 65 | 81 | 80 | 64.8 | 81 | 0 | 41-125 | 20 |
| 4-Chloro-3-Methylphenol | ND | 80 | 71.2 | 89 | 80 | 75 | 94 | 5 | 44-125 | 20 |
| 4-Nitrophenol | ND | 80 | 81.1 | 101 | 80 | 79.5 | 99 | 2 | 25-131 | 20 |
| Acenaphthene | ND | 80 | 66.5 | 83 | 80 | 68.7 | 86 | 3 | 49-125 | 20 |
| N-Nitroso-di-n-propyl. | ND | 80 | 69.3 | 87 | 80 | 69.8 | 87 | 1 | 37-125 | 20 |
| Pentachlorophenol | ND | 80 | 87 | 109 | 80 | 88.2 | 110 | 1 | 28-136 | 20 |
| Phenol | ND | 80 | 60.1 | 75 | 80 | 62.1 | 78 | 3 | 25-125 | 20 |
| Pyrene | ND | 80 | 75.1 | 94 | 80 | 75.5 | 94 | 1 | 47-136 | 20 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | 150 | 106 | 70 | 150 | 109 | 73 | 25-125 |
| Phenol-d5 | 150 | 95.6 | 64 | 150 | 102 | 68 | 25-125 |
| Nitrobenzene-d5 | 100 | 81.4 | 81 | 100 | 85.5 | 86 | 32-125 |
| 2-Fluorobiphenyl | 100 | 79.2 | 79 | 100 | 80.6 | 81 | 43-125 |
| 2,4,6-Tribromophenol | 150 | 139 | 93 | 150 | 137 | 91 | 25-134 |
| Terphenyl-d14 | 100 | 94.7 | 95 | 100 | 94.3 | 94 | 42-126 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
CH NO.: 99J141
IOD: METHOD 3550A/8270B

| | | | | |
|---|---|---|---|---|
| ATRIX: | SOIL | | % MOISTURE: | NA |
| ILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | SVJ023SB | SVJ023SL | | |
| LAB FILE ID: | RKB053 | RKB054 | | |
| ATE EXTRACTED: | 10/29/9912:00 | 10/29/9912:00 | DATE COLLECTED: | NA |
| ATE ANALYZED: | 11/04/9915:50 | 11/04/9916:27 | DATE RECEIVED: | 10/29/99 |
| REP. BATCH: | SVJ023S | SVJ023S | | |
| CALIB. REF: | RKB050 | RKB050 | | |

CCESSION:

| ARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 3330 | 2760 | 83 | 34-152 |
| ,4-Dichlorobenzene | ND | 3330 | 2710 | 81 | 25-135 |
| ,4-Dinitrotoluene | ND | 3330 | 3050 | 92 | 29-149 |
| -Chlorophenol | ND | 5000 | 3770 | 75 | 31-135 |
| -Chloro-3-Methylphenol | ND | 5000 | 3600 | 72 | 34-135 |
| 4-Nitrophenol | ND | 5000 | 4080 | 82 | 25-141 |
| Acenaphthene | ND | 3330 | 2700 | 81 | 39-135 |
| -Nitroso-di-n-propyl. | ND | 3330 | 3000 | 90 | 27-135 |
| entachlorophenol | ND | 5000 | 3880 | 78 | 38-146 |
| henol | ND | 5000 | 3790 | 76 | 25-135 |
| yrene | ND | 3330 | 2200 | 66 | 37-146 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|
| 2-Fluorophenol | 5000 | 4140 | 83 | 25-135 |
| henol-d5 | 5000 | 4410 | 88 | 25-135 |
| itrobenzene-d5 | 3330 | 3200 | 96 | 25-135 |
| -Fluorobiphenyl | 3330 | 2730 | 82 | 34-125 |
| 2,4,6-Tribromophenol | 5000 | 4140 | 83 | 25-144 |
| erphenyl-d14 | 3330 | 2490 | 75 | 32-136 |

METHOD 3550A/8270B SIM
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| Sample ID: | 18609-2350 | Date Analyzed: | 11/04/99 22:03 |
| Lab Samp ID: | J141-01 | Dilution Factor: | 1 |
| Lab File ID: | RKB063 | Matrix : | SOIL |
| Ext Btch ID: | SVJ023S | % Moisture : | 9.6 |
| Calib. Ref.: | RKB051 | Instrument ID : | T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| BENZO(A)PYRENE | ND | 37 | 16 |
| BIS(2-CHLOROETHYL)ETHER | ND | 37 | 4.7 |
| DIBENZO(A,H)ANTHRACENE | ND | 37 | 9.6 |
| HEXACHLOROBENZENE | ND | 37 | 7.1 |
| INDENO(1,2,3-CD)PYRENE | ND | 37 | 7.2 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 37 | 7.5 |
| PENTACHLOROPHENOL | ND | 180 | 10 |

PRL: Project Reporting Limit

METHOD 3550A/8270B SIM
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| oject | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| tch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| S e ID: | 18609-2352 | Date Analyzed: | 11/04/99 23:21 |
| L amp ID: | J141-03 | Dilution Factor: | 1 |
| b File ID: | RKB065 | Matrix : | SOIL |
| t Btch ID: | SVJ023S | % Moisture : | 10.8 |
| Calib. Ref.: | RKB051 | Instrument ID : | T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NZO(A)PYRENE | ND | 37 | 16 |
| S(2-CHLOROETHYL)ETHER | ND | 37 | 4.7 |
| BENZO(A,H)ANTHRACENE | ND | 37 | 9.7 |
| HEXACHLOROBENZENE | ND | 37 | 7.2 |
| DENO(1,2,3-CD)PYRENE | ND | 37 | 7.3 |
| NITROSO-DI-N-PROPYLAMINE | ND | 37 | 7.6 |
| NTACHLOROPHENOL | ND | 180 | 10 |

L: Project Reporting Limit

METHOD 3550A/8270B SIM
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| Sample ID: | 18609-2353 | Date Analyzed: | 11/05/99 00:00 |
| Lab Samp ID: | J141-04 | Dilution Factor: | 1 |
| Lab File ID: | RKB066 | Matrix : | SOIL |
| Ext Btch ID: | SVJ023S | % Moisture : | 10.6 |
| Calib. Ref.: | RKB051 | Instrument ID : | T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| BENZO(A)PYRENE | ND | 37 | 16 |
| BIS(2-CHLOROETHYL)ETHER | ND | 37 | 4.7 |
| DIBENZO(A,H)ANTHRACENE | ND | 37 | 9.7 |
| HEXACHLOROBENZENE | ND | 37 | 7.1 |
| INDENO(1,2,3-CD)PYRENE | ND | 37 | 7.3 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 37 | 7.6 |
| PENTACHLOROPHENOL | ND | 180 | 10 |

PRL: Project Reporting Limit

METHOD 3550A/8270B SIM
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| Sample ID: | 18609-2354 | Date Analyzed: | 11/05/99 00:39 |
| Lab Sample ID: | J141-05 | Dilution Factor: | 1 |
| Lab File ID: | RKB067 | Matrix : | SOIL |
| Prep Btch ID: | SVJ023S | % Moisture : | 7.9 |
| Calib. Ref.: | RKB051 | Instrument ID : | T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| BENZO(A)PYRENE | ND | 36 | 15 |
| BIS(2-CHLOROETHYL)ETHER | ND | 36 | 4.6 |
| DIBENZO(A,H)ANTHRACENE | ND | 36 | 9.4 |
| HEXACHLOROBENZENE | ND | 36 | 6.9 |
| INDENO(1,2,3-CD)PYRENE | ND | 36 | 7.1 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 36 | 7.3 |
| PENTACHLOROPHENOL | ND | 180 | 10 |

PRL: Project Reporting Limit

METHOD 3550A/8270B SIM
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| Sample ID: | 18609-2355 | Date Analyzed: | 11/05/99 01:18 |
| Lab Samp ID: | J141-06 | Dilution Factor: | 1 |
| Lab File ID: | RKB068 | Matrix : | SOIL |
| Ext Btch ID: | SVJ023S | % Moisture : | 8.2 |
| Calib. Ref.: | RKB051 | Instrument ID : | T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| BENZO(A)PYRENE | ND | 36 | 15 |
| BIS(2-CHLOROETHYL)ETHER | ND | 36 | 4.6 |
| DIBENZO(A,H)ANTHRACENE | ND | 36 | 9.4 |
| HEXACHLOROBENZENE | ND | 36 | 7 |
| INDENO(1,2,3-CD)PYRENE | ND | 36 | 7.1 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 36 | 7.4 |
| PENTACHLOROPHENOL | ND | 180 | 10 |

PRL: Project Reporting Limit

METHOD 3550A/8270B SIM
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| Sample ID | : 18609-2356 | Date Analyzed: | 11/05/99 20:36 |
| Lab Sample ID | : J141-07 | Dilution Factor: | 1 |
| Lab File ID | : RKB080 | Matrix | : SOIL |
| Prep Btch ID | : SVJ023S | % Moisture | : 11.7 |
| Calib. Ref. | : RKB071 | Instrument ID | : T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| BENZO(A)PYRENE | ND | 37 | 16 |
| BIS(2-CHLOROETHYL)ETHER | ND | 37 | 4.8 |
| DIBENZO(A,H)ANTHRACENE | ND | 37 | 9.8 |
| HEXACHLOROBENZENE | ND | 37 | 7.2 |
| INDENO(1,2,3-CD)PYRENE | ND | 37 | 7.4 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 37 | 7.6 |
| PENTACHLOROPHENOL | ND | 190 | 11 |

PRL: Project Reporting Limit

METHOD 3550A/8270B SIM
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| Sample ID: | 18609-2357 | Date Analyzed: | 11/05/99 21:15 |
| Lab Samp ID: | J141-08 | Dilution Factor: | 1 |
| Lab File ID: | RKB081 | Matrix : | SOIL |
| Ext Btch ID: | SVJ023S | % Moisture : | 10.3 |
| Calib. Ref.: | RKB071 | Instrument ID : | T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| BENZO(A)PYRENE | ND | 37 | 16 |
| BIS(2-CHLOROETHYL)ETHER | ND | 37 | 4.7 |
| DIBENZO(A,H)ANTHRACENE | ND | 37 | 9.7 |
| HEXACHLOROBENZENE | ND | 37 | 7.1 |
| INDENO(1,2,3-CD)PYRENE | ND | 37 | 7.2 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 37 | 7.5 |
| PENTACHLOROPHENOL | ND | 180 | 10 |

PRL: Project Reporting Limit

METHOD 3550A/8270B SIM
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| ple ID: | 18609-2358 | Date Analyzed: | 11/05/99 21:55 |
| Samp ID: | J141-09 | Dilution Factor: | 1 |
| .ab File ID: | RKB082 | Matrix | : SOIL |
| xt Btch ID: | SVJ023S | % Moisture | : 11.8 |
| Calib. Ref.: | RKB071 | Instrument ID | : T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ENZO(A)PYRENE | ND | 37 | 16 |
| IS(2-CHLOROETHYL)ETHER | ND | 37 | 4.8 |
| IBENZO(A,H)ANTHRACENE | ND | 37 | 9.8 |
| HEXACHLOROBENZENE | ND | 37 | 7.2 |
| NDENO(1,2,3-CD)PYRENE | ND | 37 | 7.4 |
| NITROSO-DI-N-PROPYLAMINE | ND | 37 | 7.7 |
| NTACHLOROPHENOL | ND | 190 | 11 |

PRL: Project Reporting Limit

METHOD 3550A/8270B SIM
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| Sample ID: | 18609-2359 | Date Analyzed: | 11/05/99 22:34 |
| Lab Samp ID: | J141-10 | Dilution Factor: | 1 |
| Lab File ID: | RKB083 | Matrix : | SOIL |
| Ext Btch ID: | SVJ023S | % Moisture : | 11.4 |
| Calib. Ref.: | RKB071 | Instrument ID : | T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| BENZO(A)PYRENE | ND | 37 | 16 |
| BIS(2-CHLOROETHYL)ETHER | ND | 37 | 4.8 |
| DIBENZO(A,H)ANTHRACENE | ND | 37 | 9.8 |
| HEXACHLOROBENZENE | ND | 37 | 7.2 |
| INDENO(1,2,3-CD)PYRENE | ND | 37 | 7.3 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 37 | 7.6 |
| PENTACHLOROPHENOL | ND | 190 | 11 |

PRL: Project Reporting Limit

METHOD 3550A/8270B SIM
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| Sample ID | : 18609-2360 | Date Analyzed: | 11/05/99 23:13 |
| Lab Samp ID | : J141-11 | Dilution Factor: | 1 |
| Lab File ID | : RKB084 | Matrix | : SOIL |
| Ext Btch ID | : SVJ023S | % Moisture | : 11.8 |
| Calib. Ref. | : RKB071 | Instrument ID | : T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| BENZO(A)PYRENE | ND | 37 | 16 |
| BIS(2-CHLOROETHYL)ETHER | ND | 37 | 4.8 |
| DIBENZO(A,H)ANTHRACENE | ND | 37 | 9.8 |
| HEXACHLOROBENZENE | ND | 37 | 7.2 |
| INDENO(1,2,3-CD)PYRENE | ND | 37 | 7.4 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 37 | 7.7 |
| PENTACHLOROPHENOL | ND | 190 | 11 |

PRL: Project Reporting Limit

METHOD 3550A/8270B SIM
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | NA |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/29/99 |
| Batch No. | : 99J141 | Date Extracted: | 10/29/99 12:00 |
| Sample ID: | MBLK1S | Date Analyzed: | 11/04/99 20:45 |
| Lab Samp ID: | SVJ023SB | Dilution Factor: | 1 |
| Lab File ID: | RKB061 | Matrix : | SOIL |
| Ext Btch ID: | SVJ023S | % Moisture : | NA |
| Calib. Ref.: | RKB051 | Instrument ID : | T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| BENZO(A)PYRENE | ND | 33 | 14 |
| BIS(2-CHLOROETHYL)ETHER | ND | 33 | 4.2 |
| DIBENZO(A,H)ANTHRACENE | ND | 33 | 8.7 |
| HEXACHLOROBENZENE | ND | 33 | 6.4 |
| INDENO(1,2,3-CD)PYRENE | ND | 33 | 6.5 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 33 | 6.7 |
| PENTACHLOROPHENOL | ND | 170 | 9.3 |

PRL: Project Reporting Limit

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J141
ETHOD: METHOD 3550A/8270B SIM

==========

| | | | | |
|---|---|---|---|---|
| IX: | SOIL | | % MOISTURE: | NA |
| ION FACTOR: | 1 | 1 | | |
| LE ID: | MBLK1S | | | |
| AB SAMP ID: | SVJ023SB | SVJ023SL | | |
| AB FILE ID: | RKB061 | RKB062 | | |
| ATE EXTRACTED: | 10/29/9912:00 | 10/29/9912:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 11/04/9920:45 | 11/04/9921:24 | DATE RECEIVED: | 10/29/99 |
| PREP. BATCH: | SVJ023S | SVJ023S | | |
| ALIB. REF: | RKB051 | RKB051 | | |

CCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Nitrosodipropylamine | ND | 3330 | 3140 | 94 | 27-135 |
| ntachlorophenol | ND | 5000 | 4990 | 100 | 38-146 |

METHOD 3050A/6010A
METALS BY ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SDG NO. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| Sample ID: | 18609-2350 | Date Analyzed: | 11/03/99 06:42 |
| Lab Samp ID: | J141-01 | Dilution Factor: | 1 |
| Lab File ID: | I07K003022 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 9.6 |
| Calib. Ref.: | I07K003019 | Instrument ID : | EMAXTI07 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 16300 | 55.3 | 6.9 |
| Antimony | ND | 11.1 | 3.96 |
| Barium | 165 | 1.11 | .144 |
| Beryllium | .597 | .221 | .0221 |
| Cadmium | ND | 1.11 | .0774 |
| Calcium | 4300 | 553 | 2.2 |
| Chromium | 16 | 1.11 | .664 |
| Cobalt | 6.96 | 1.11 | .675 |
| Copper | 10.1 | 1.11 | .819 |
| Iron | 18300 | 22.1 | .791 |
| Magnesium | 6830 | 553 | 5.82 |
| Manganese | 276 | 2.21 | .133 |
| Molybdenum | 2.35 | 2.21 | .719 |
| Nickel | 9.96 | 2.21 | .509 |
| Potassium | 4530 | 553 | 215 |
| Silver | ND | 1.11 | 1.56 |
| Sodium | 561 | 553 | 7.07 |
| Vanadium | 43.3 | 1.11 | .918 |
| Zinc | 54.6 | 1.11 | .288 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY TRACE-ICP

| | | | |
|---|---|---|---|
| lient | : IT CORPORATION | Date Collected: | 10/28/99 |
| ect | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| NO. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| ample ID: | 18609-2350 | Date Analyzed: | 11/01/99 17:10 |
| ab Samp ID: | J141-01 | Dilution Factor: | 1 |
| Lab File ID: | I31K002014 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 9.6 |
| ilib. Ref.: | I31K002008 | Instrument ID : | EMAXTI31 |

| RAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Arsenic | 3.15 | 1.11 | .567 |
| Lead | 4.12 | 1.11 | .292 |
| lenium | ND | 1.11 | .501 |
| allium | ND | 1.11 | .515 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SDG NO. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| Sample ID: | 18609-2351 | Date Analyzed: | 11/03/99 07:12 |
| Lab Samp ID: | J141-02 | Dilution Factor: | 1 |
| Lab File ID: | I07K003027 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 8.5 |
| Calib. Ref.: | I07K003019 | Instrument ID : | EMAXT107 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12000 | 54.6 | 6.82 |
| Antimony | ND | 10.9 | 3.91 |
| Barium | 127 | 1.09 | .142 |
| Beryllium | .446 | .219 | .0219 |
| Cadmium | ND | 1.09 | .0765 |
| Calcium | 3230 | 546 | 2.17 |
| Chromium | 10.9 | 1.09 | .656 |
| Cobalt | 4.25 | 1.09 | .667 |
| Copper | 7.4 | 1.09 | .809 |
| Iron | 14000 | 21.9 | .781 |
| Magnesium | 5140 | 546 | 5.75 |
| Manganese | 237 | 2.19 | .131 |
| Molybdenum | ND | 2.19 | .71 |
| Nickel | 5.5 | 2.19 | .503 |
| Potassium | 3940 | 546 | 212 |
| Silver | ND | 1.09 | 1.54 |
| Sodium | ND | 546 | 6.98 |
| Vanadium | 30.7 | 1.09 | .907 |
| Zinc | 43.1 | 1.09 | .284 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY TRACE-ICP

| | |
|---|---|
| C ent : IT CORPORATION | Date Collected: 10/28/99 |
| P t : MCAS EL TORO/18609/D.O. 70 | Date Received: 10/28/99 |
| SD o. : 99J141 | Date Extracted: 10/29/99 12:30 |
| S ple ID: 18609-2351 | Date Analyzed: 11/01/99 17:14 |
| L Samp ID: J141-02 | Dilution Factor: 1 |
| Lab File ID: I31K002015 | Matrix : SOIL |
| Ext Btch ID: IPJ040S | % Moisture : 8.5 |
| C ib. Ref.: I31K002008 | Instrument ID : EMAXTI31 |

| P AMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Arsenic | 2.99 | 1.09 | .561 |
| Lead | 6.3 | 1.09 | .289 |
| S enium | ND | 1.09 | .495 |
| T llium | ND | 1.09 | .509 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SDG NO. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| Sample ID: | 18609-2352 | Date Analyzed: | 11/03/99 07:17 |
| Lab Samp ID: | J141-03 | Dilution Factor: | 1 |
| Lab File ID: | I07K003028 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 10.8 |
| Calib. Ref.: | I07K003019 | Instrument ID : | EMAXTI07 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 15000 | 56.1 | 7 |
| Antimony | ND | 11.2 | 4.01 |
| Barium | 150 | 1.12 | .146 |
| Beryllium | .546 | .224 | .0224 |
| Cadmium | ND | 1.12 | .0785 |
| Calcium | 4160 | 561 | 2.23 |
| Chromium | 14.3 | 1.12 | .673 |
| Cobalt | 5.76 | 1.12 | .684 |
| Copper | 9.64 | 1.12 | .83 |
| Iron | 16600 | 22.4 | .802 |
| Magnesium | 6160 | 561 | 5.9 |
| Manganese | 261 | 2.24 | .135 |
| Molybdenum | ND | 2.24 | .729 |
| Nickel | 8.57 | 2.24 | .516 |
| Potassium | 4550 | 561 | 217 |
| Silver | ND | 1.12 | 1.58 |
| Sodium | ND | 561 | 7.16 |
| Vanadium | 39.1 | 1.12 | .93 |
| Zinc | 55.8 | 1.12 | .291 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY TRACE-ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SDG NO. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| Sample ID: | 18609-2352 | Date Analyzed: | 11/01/99 17:18 |
| Lab Samp ID: | J141-03 | Dilution Factor: | 1 |
| Lab File ID: | I31K002016 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 10.8 |
| Calib. Ref.: | I31K002008 | Instrument ID : | EMAXTI31 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Arsenic | 3.01 | 1.12 | .575 |
| Lead | 12.8 | 1.12 | .296 |
| Selenium | ND | 1.12 | .508 |
| Thallium | ND | 1.12 | .522 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SDG NO. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| Sample ID: | 18609-2353 | Date Analyzed: | 11/03/99 07:23 |
| Lab Samp ID: | J141-04 | Dilution Factor: | 1 |
| Lab File ID: | I07K003029 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 10.6 |
| Calib. Ref.: | I07K003019 | Instrument ID : | EMAXTI07 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 15900 | 55.9 | 6.98 |
| Antimony | ND | 11.2 | 4 |
| Barium | 182 | 1.12 | .145 |
| Beryllium | .56 | .224 | .0224 |
| Cadmium | ND | 1.12 | .0783 |
| Calcium | 4280 | 559 | 2.23 |
| Chromium | 15.6 | 1.12 | .671 |
| Cobalt | 6.86 | 1.12 | .682 |
| Copper | 9.18 | 1.12 | .828 |
| Iron | 18700 | 22.4 | .8 |
| Magnesium | 7190 | 559 | 5.88 |
| Manganese | 279 | 2.24 | .134 |
| Molybdenum | ND | 2.24 | .727 |
| Nickel | 9.71 | 2.24 | .515 |
| Potassium | 4420 | 559 | 217 |
| Silver | ND | 1.12 | 1.58 |
| Sodium | ND | 559 | 7.15 |
| Vanadium | 44.6 | 1.12 | .928 |
| Zinc | 54.8 | 1.12 | .291 |

L: Reporting Limit

METHOD 3050A/6010A
METALS BY TRACE-ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| ›ject | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| G NO. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| Sample ID: | 18609-2353 | Date Analyzed: | 11/01/99 17:22 |
| Lab Samp ID: | J141-04 | Dilution Factor: | 1 |
| Lab File ID: | I31K002017 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 10.6 |
| Calib. Ref.: | I31K002008 | Instrument ID : | EMAXTI31 |

| ›ARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Arsenic | 3.18 | 1.12 | .574 |
| Lead | 3.92 | 1.12 | .295 |
| elenium | ND | 1.12 | .507 |
| hallium | ND | 1.12 | .521 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SDG NO. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| Sample ID: | 18609-2354 | Date Analyzed: | 11/03/99 07:29 |
| Lab Samp ID: | J141-05 | Dilution Factor: | 1 |
| Lab File ID: | I07K003030 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 7.9 |
| Calib. Ref.: | I07K003019 | Instrument ID : | EMAXTI07 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 14300 | 54.3 | 6.78 |
| Antimony | ND | 10.9 | 3.89 |
| Barium | 152 | 1.09 | .141 |
| Beryllium | .524 | .217 | .0217 |
| Cadmium | ND | 1.09 | .076 |
| Calcium | 4110 | 543 | 2.16 |
| Chromium | 13.3 | 1.09 | .651 |
| Cobalt | 5.84 | 1.09 | .662 |
| Copper | 8.71 | 1.09 | .803 |
| Iron | 16200 | 21.7 | .776 |
| Magnesium | 5960 | 543 | 5.71 |
| Manganese | 252 | 2.17 | .13 |
| Molybdenum | ND | 2.17 | .706 |
| Nickel | 7.91 | 2.17 | .499 |
| Potassium | 4280 | 543 | 211 |
| Silver | ND | 1.09 | 1.53 |
| Sodium | ND | 543 | 6.94 |
| Vanadium | 38.3 | 1.09 | .901 |
| Zinc | 49.6 | 1.09 | .282 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY TRACE-ICP

| | | | |
|---|---|---|---|
| lient | : IT CORPORATION | Date Collected: | 10/28/99 |
| ect | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| .O. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| ample ID: | 18609-2354 | Date Analyzed: | 11/01/99 17:26 |
| ab Samp ID: | J141-05 | Dilution Factor: | 1 |
| ab File ID: | I31K002018 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 7.9 |
| lib. Ref.: | I31K002008 | Instrument ID : | EMAXTI31 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| senic | 3.32 | 1.09 | .557 |
| Lead | 6.41 | 1.09 | .287 |
| Selenium | ND | 1.09 | .492 |
| allium | ND | 1.09 | .506 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SDG NO. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| Sample ID: | 18609-2355 | Date Analyzed: | 11/03/99 07:47 |
| Lab Samp ID: | J141-06 | Dilution Factor: | 1 |
| Lab File ID: | I07K003033 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 8.2 |
| Calib. Ref.: | I07K003031 | Instrument ID : | EMAXTI07 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 16800 | 54.5 | 6.8 |
| Antimony | ND | 10.9 | 3.9 |
| Barium | 216 | 1.09 | .142 |
| Beryllium | .592 | .218 | .0218 |
| Cadmium | ND | 1.09 | .0763 |
| Calcium | 4060 | 545 | 2.17 |
| Chromium | 16.3 | 1.09 | .654 |
| Cobalt | 6.28 | 1.09 | .664 |
| Copper | 9.09 | 1.09 | .806 |
| Iron | 19800 | 21.8 | .779 |
| Magnesium | 7740 | 545 | 5.73 |
| Manganese | 295 | 2.18 | .131 |
| Molybdenum | ND | 2.18 | .708 |
| Nickel | 9.26 | 2.18 | .501 |
| Potassium | 4570 | 545 | 211 |
| Silver | ND | 1.09 | 1.54 |
| Sodium | 604 | 545 | 6.96 |
| Vanadium | 46.7 | 1.09 | .904 |
| Zinc | 57.8 | 1.09 | .283 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY TRACE-ICP

| | | | |
|---|---|---|---|
| C ent | : IT CORPORATION | Date Collected: | 10/28/99 |
| Pr t | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SD . | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| S ple ID: | 18609-2355 | Date Analyzed: | 11/01/99 17:43 |
| L Samp ID: | J141-06 | Dilution Factor: | 1 |
| Lab File ID: | I31K002022 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 8.2 |
| C ib. Ref.: | I31K002020 | Instrument ID : | EMAXTI31 |

| P/ AMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Arsenic | 2.91 | 1.09 | .559 |
| Lead | 3.44 | 1.09 | .288 |
| Se enium | ND | 1.09 | .493 |
| Th lium | ND | 1.09 | .508 |

L: Reporting Limit

METHOD 3050A/6010A
METALS BY ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SDG NO. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| Sample ID: | 18609-2356 | Date Analyzed: | 11/03/99 07:53 |
| Lab Samp ID: | J141-07 | Dilution Factor: | 1 |
| Lab File ID: | I07K003034 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 11.7 |
| Calib. Ref.: | I07K003031 | Instrument ID : | EMAXTI07 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 17000 | 56.6 | 7.07 |
| Antimony | ND | 11.3 | 4.05 |
| Barium | 174 | 1.13 | .147 |
| Beryllium | .605 | .227 | .0227 |
| Cadmium | ND | 1.13 | .0793 |
| Calcium | 4450 | 566 | 2.25 |
| Chromium | 15.1 | 1.13 | .68 |
| Cobalt | 5.92 | 1.13 | .691 |
| Copper | 9.71 | 1.13 | .838 |
| Iron | 18300 | 22.7 | .81 |
| Magnesium | 6790 | 566 | 5.96 |
| Manganese | 276 | 2.27 | .136 |
| Molybdenum | ND | 2.27 | .736 |
| Nickel | 9.48 | 2.27 | .521 |
| Potassium | 4790 | 566 | 220 |
| Silver | ND | 1.13 | 1.6 |
| Sodium | ND | 566 | 7.24 |
| Vanadium | 42.8 | 1.13 | .94 |
| Zinc | 55.1 | 1.13 | .294 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY TRACE-ICP

| | | | |
|---|---|---|---|
| ient | : IT CORPORATION | Date Collected: | 10/28/99 |
| P ct | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SD O. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| mple ID: | 18609-2356 | Date Analyzed: | 11/01/99 17:47 |
| o Samp ID: | J141-07 | Dilution Factor: | 1 |
| Lab File ID: | I31K002023 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 11.7 |
| lib. Ref.: | I31K002020 | Instrument ID : | EMAXTI31 |

| RAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Arsenic | 3.51 | 1.13 | .581 |
| Lead | 4.75 | 1.13 | .299 |
| enium | ND | 1.13 | .513 |
| llium | ND | 1.13 | .528 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SDG NO. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| Sample ID: | 18609-2357 | Date Analyzed: | 11/03/99 07:59 |
| Lab Samp ID: | J141-08 | Dilution Factor: | 1 |
| Lab File ID: | I07K003035 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 10.3 |
| Calib. Ref.: | I07K003031 | Instrument ID : | EMAXTI07 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 17200 | 55.7 | 6.96 |
| Antimony | ND | 11.1 | 3.99 |
| Barium | 190 | 1.11 | .145 |
| Beryllium | .602 | .223 | .0223 |
| Cadmium | ND | 1.11 | .078 |
| Calcium | 4140 | 557 | 2.22 |
| Chromium | 16.3 | 1.11 | .669 |
| Cobalt | 6.78 | 1.11 | .68 |
| Copper | 9.84 | 1.11 | .825 |
| Iron | 19300 | 22.3 | .797 |
| Magnesium | 7320 | 557 | 5.86 |
| Manganese | 300 | 2.23 | .134 |
| Molybdenum | ND | 2.23 | .725 |
| Nickel | 10.3 | 2.23 | .513 |
| Potassium | 4660 | 557 | 216 |
| Silver | ND | 1.11 | 1.57 |
| Sodium | 578 | 557 | 7.12 |
| Vanadium | 45.6 | 1.11 | .925 |
| Zinc | 58.7 | 1.11 | .29 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY TRACE-ICP

| | | | |
|---|---|---|---|
| ient | : IT CORPORATION | Date Collected: | 10/28/99 |
| P ct | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| Sb O. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| mple ID: | 18609-2357 | Date Analyzed: | 11/01/99 17:51 |
| b Samp ID: | J141-08 | Dilution Factor: | 1 |
| Lab File ID: | I31K002024 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 10.3 |
| lib. Ref.: | I31K002020 | Instrument ID : | EMAXTI31 |

| RAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Arsenic | 3.65 | 1.11 | .572 |
| Lead | 3.86 | 1.11 | .294 |
| enium | ND | 1.11 | .505 |
| illium | ND | 1.11 | .52 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SDG NO. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| Sample ID: | 18609-2358 | Date Analyzed: | 11/03/99 08:05 |
| Lab Samp ID: | J141-09 | Dilution Factor: | 1 |
| Lab File ID: | I07K003036 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 11.8 |
| Calib. Ref.: | I07K003031 | Instrument ID : | EMAXTI07 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 16300 | 56.7 | 7.07 |
| Antimony | ND | 11.3 | 4.06 |
| Barium | 239 | 1.13 | .147 |
| Beryllium | .575 | .227 | .0227 |
| Cadmium | ND | 1.13 | .0794 |
| Calcium | 3830 | 567 | 2.26 |
| Chromium | 15.4 | 1.13 | .68 |
| Cobalt | 5.49 | 1.13 | .692 |
| Copper | 9.83 | 1.13 | .839 |
| Iron | 18000 | 22.7 | .811 |
| Magnesium | 6710 | 567 | 5.96 |
| Manganese | 264 | 2.27 | .136 |
| Molybdenum | ND | 2.27 | .737 |
| Nickel | 9.47 | 2.27 | .522 |
| Potassium | 4420 | 567 | 220 |
| Silver | ND | 1.13 | 1.6 |
| Sodium | ND | 567 | 7.24 |
| Vanadium | 44 | 1.13 | .941 |
| Zinc | 53.7 | 1.13 | .295 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY TRACE-ICP

| | |
|---|---|
| C ent : IT CORPORATION | Date Collected: 10/28/99 |
| P t : MCAS EL TORO/18609/D.O. 70 | Date Received: 10/28/99 |
| S D. : 99J141 | Date Extracted: 10/29/99 12:30 |
| S ple ID: 18609-2358 | Date Analyzed: 11/01/99 17:55 |
| L Samp ID: J141-09 | Dilution Factor: 1 |
| Lab File ID: I31K002025 | Matrix : SOIL |
| Ext Btch ID: IPJ040S | % Moisture : 11.8 |
| C ib. Ref.: I31K002020 | Instrument ID : EMAXTI31 |

| P AMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Arsenic | 3.46 | 1.13 | .582 |
| Lead | 3.65 | 1.13 | .299 |
| Selenium | ND | 1.13 | .514 |
| Thallium | ND | 1.13 | .528 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SDG NO. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| Sample ID: | 18609-2359 | Date Analyzed: | 11/03/99 08:10 |
| Lab Samp ID: | J141-10 | Dilution Factor: | 1 |
| Lab File ID: | I07K003037 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 11.4 |
| Calib. Ref.: | I07K003031 | Instrument ID : | EMAXTI07 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 16800 | 56.4 | 7.04 |
| Antimony | ND | 11.3 | 4.04 |
| Barium | 158 | 1.13 | .147 |
| Beryllium | .607 | .226 | .0226 |
| Cadmium | ND | 1.13 | .079 |
| Calcium | 4090 | 564 | 2.25 |
| Chromium | 16.1 | 1.13 | .677 |
| Cobalt | 6.63 | 1.13 | .688 |
| Copper | 10.3 | 1.13 | .835 |
| Iron | 19200 | 22.6 | .807 |
| Magnesium | 7230 | 564 | 5.94 |
| Manganese | 291 | 2.26 | .135 |
| Molybdenum | ND | 2.26 | .734 |
| Nickel | 9.19 | 2.26 | .519 |
| Potassium | 4910 | 564 | 219 |
| Silver | ND | 1.13 | 1.59 |
| Sodium | ND | 564 | 7.21 |
| Vanadium | 45.1 | 1.13 | .937 |
| Zinc | 59.1 | 1.13 | .293 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY TRACE-ICP

| | | | |
|---|---|---|---|
| ient | : IT CORPORATION | Date Collected: | 10/28/99 |
| P ct | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SD O. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| ple ID: | 18609-2359 | Date Analyzed: | 11/01/99 17:59 |
| Samp ID: | J141-10 | Dilution Factor: | 1 |
| Lab File ID: | I31K002026 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 11.4 |
| ib. Ref.: | I31K002020 | Instrument ID : | EMAXTI31 |

| RAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Arsenic | 3.37 | 1.13 | .579 |
| Lead | 6.42 | 1.13 | .298 |
| enium | ND | 1.13 | .511 |
| llium | ND | 1.13 | .526 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SDG NO. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| Sample ID: | 18609-2360 | Date Analyzed: | 11/03/99 08:16 |
| Lab Samp ID: | J141-11 | Dilution Factor: | 1 |
| Lab File ID: | I07K003038 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | 11.8 |
| Calib. Ref.: | I07K003031 | Instrument ID : | EMAXTI07 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 17300 | 56.7 | 7.07 |
| Antimony | ND | 11.3 | 4.06 |
| Barium | 167 | 1.13 | .147 |
| Beryllium | .606 | .227 | .0227 |
| Cadmium | ND | 1.13 | .0794 |
| Calcium | 4230 | 567 | 2.26 |
| Chromium | 15.9 | 1.13 | .68 |
| Cobalt | 6.56 | 1.13 | .692 |
| Copper | 10.6 | 1.13 | .839 |
| Iron | 19100 | 22.7 | .811 |
| Magnesium | 7410 | 567 | 5.96 |
| Manganese | 292 | 2.27 | .136 |
| Molybdenum | ND | 2.27 | .737 |
| Nickel | 8.32 | 2.27 | .522 |
| Potassium | 4690 | 567 | 220 |
| Silver | ND | 1.13 | 1.6 |
| Sodium | 633 | 567 | 7.24 |
| Vanadium | 44.9 | 1.13 | .941 |
| Zinc | 60.5 | 1.13 | .295 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY TRACE-ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SDG | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| Sample ID | : 18609-2360 | Date Analyzed: | 11/01/99 18:03 |
| Lab Samp ID | : J141-11 | Dilution Factor: | 1 |
| Lab File ID | : I31K002027 | Matrix | : SOIL |
| Ext Btch ID | : IPJ040S | % Moisture | : 11.8 |
| Calib. Ref. | : I31K002020 | Instrument ID | : EMAXTI31 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Arsenic | 3.21 | 1.13 | .582 |
| Lead | 7.95 | 1.13 | .299 |
| Selenium | ND | 1.13 | .514 |
| Thallium | ND | 1.13 | .528 |

RL: Reporting Limit

METHOD 3010A/6010A
METALS BY ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | 10/28/99 |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| SDG NO. | : 99J141 | Date Extracted: | 10/29/99 14:00 |
| Sample ID: | 18609-2361 | Date Analyzed: | 11/02/99 14:34 |
| Lab Samp ID: | J141-12 | Dilution Factor: | 1 |
| Lab File ID: | I07K005035 | Matrix : | WATER |
| Ext Btch ID: | IPJ042W | % Moisture : | NA |
| Calib. Ref.: | I07K005032 | Instrument ID : | EMAXTI07 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Aluminum | ND | 500 | 25.5 |
| Antimony | ND | 500 | 39.8 |
| Barium | ND | 100 | 1.41 |
| Beryllium | ND | 10 | .12 |
| Cadmium | ND | 10 | 2.06 |
| Calcium | ND | 5000 | 9.61 |
| Chromium | ND | 50 | 4.77 |
| Cobalt | ND | 50 | 6.64 |
| Copper | ND | 50 | 6.47 |
| Iron | ND | 200 | 4.96 |
| Magnesium | ND | 5000 | 28.9 |
| Manganese | ND | 20 | .64 |
| Molybdenum | ND | 100 | 9.37 |
| Nickel | ND | 150 | 3.93 |
| Potassium | ND | 5000 | 2970 |
| Silver | ND | 50 | 4.69 |
| Sodium | ND | 5000 | 38.2 |
| Vanadium | ND | 100 | 4.7 |
| Zinc | ND | 20 | 2.47 |

RL: Reporting Limit

METHOD 3010A/6010A
METALS BY TRACE-ICP

| | | | |
|---|---|---|---|
| C ent | : IT CORPORATION | Date Collected: | 10/28/99 |
| P t | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/28/99 |
| S | : 99J141 | Date Extracted: | 10/29/99 14:00 |
| S ple ID: | 18609-2361 | Date Analyzed: | 11/02/99 15:13 |
| L Samp ID: | J141-12 | Dilution Factor: | 1 |
| Lab File ID: | I31K006022 | Matrix : | WATER |
| Ext Btch ID: | IPJ042W | % Moisture : | NA |
| C ib. Ref.: | I31K006015 | Instrument ID : | EMAXTI31 |

| P METERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Arsenic | ND | 10 | 4.37 |
| Lead | ND | 10 | 1.42 |
| Selenium | ND | 10 | 4.21 |
| Thallium | ND | 400 | 3.31 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | NA |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/29/99 |
| SDG NO. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| Sample ID: | MBLK1S | Date Analyzed: | 11/03/99 05:25 |
| Lab Samp ID: | IPJ040SB | Dilution Factor: | 1 |
| Lab File ID: | I07K003009 | Matrix : | SOIL |
| Ext Btch ID: | IPJ040S | % Moisture : | NA |
| Calib. Ref.: | I07K003007 | Instrument ID : | EMAXTI07 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 50 | 6.24 |
| Antimony | ND | 10 | 3.58 |
| Barium | ND | 1 | .13 |
| Beryllium | ND | .2 | .02 |
| Cadmium | ND | 1 | .07 |
| Calcium | ND | 500 | 1.99 |
| Chromium | 2.22 | 1 | .6 |
| Cobalt | ND | 1 | .61 |
| Copper | ND | 1 | .74 |
| Iron | ND | 20 | .715 |
| Magnesium | ND | 500 | 5.26 |
| Manganese | ND | 2 | .12 |
| Molybdenum | ND | 2 | .65 |
| Nickel | ND | 2 | .46 |
| Potassium | ND | 500 | 194 |
| Silver | ND | 1 | 1.41 |
| Sodium | ND | 500 | 6.39 |
| Vanadium | ND | 1 | .83 |
| Zinc | 2.26 | 1 | .26 |

RL: Reporting Limit

METHOD 3050A/6010A
METALS BY TRACE-ICP

| | | | |
|---|---|---|---|
| ent | : IT CORPORATION | Date Collected: | NA |
| Pr t | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/29/99 |
| SD o. | : 99J141 | Date Extracted: | 10/29/99 12:30 |
| S ple ID | : MBLK1S | Date Analyzed: | 11/01/99 16:53 |
| L Samp ID | : IPJ040SB | Dilution Factor: | 1 |
| Lab File ID | : I31K002010 | Matrix | : SOIL |
| Ext Btch ID | : IPJ040S | % Moisture | : NA |
| C ib. Ref. | : I31K002008 | Instrument ID | : EMAXTI31 |

| P AMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Arsenic | ND | 1 | .513 |
| Lead | ND | 1 | .264 |
| S enium | ND | 1 | .453 |
| T llium | ND | 1 | .466 |

RL: Reporting Limit

METHOD 3010A/6010A
METALS BY ICP

| | | | |
|---|---|---|---|
| Client | : IT CORPORATION | Date Collected: | NA |
| Project | : MCAS EL TORO/18609/D.O. 70 | Date Received: | 10/29/99 |
| SDG NO. | : 99J141 | Date Extracted: | 10/29/99 14:00 |
| Sample ID: | MBLK1W | Date Analyzed: | 11/02/99 13:58 |
| Lab Samp ID: | IPJ042WB | Dilution Factor: | 1 |
| Lab File ID: | I07K005029 | Matrix : | WATER |
| Ext Btch ID: | IPJ042W | % Moisture : | NA |
| Calib. Ref.: | I07K005021 | Instrument ID : | EMAXTI07 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Aluminum | ND | 500 | 25.5 |
| Antimony | ND | 500 | 39.8 |
| Barium | ND | 100 | 1.41 |
| Beryllium | ND | 10 | .12 |
| Cadmium | ND | 10 | 2.06 |
| Calcium | ND | 5000 | 9.61 |
| Chromium | ND | 50 | 4.77 |
| Cobalt | ND | 50 | 6.64 |
| Copper | ND | 50 | 6.47 |
| Iron | ND | 200 | 4.96 |
| Magnesium | ND | 5000 | 28.9 |
| Manganese | ND | 20 | .64 |
| Molybdenum | ND | 100 | 9.37 |
| Nickel | ND | 150 | 3.93 |
| Potassium | ND | 5000 | 2970 |
| Silver | ND | 50 | 4.69 |
| Sodium | ND | 5000 | 38.2 |
| Vanadium | ND | 100 | 4.7 |
| Zinc | 40.1 | 20 | 2.47 |

RL: Reporting Limit

METHOD 3010A/6010A
METALS BY TRACE-ICP

| | |
|---|---|
| C ent : IT CORPORATION | Date Collected: NA |
| PR t : MCAS EL TORO/18609/D.O. 70 | Date Received: 10/29/99 |
| SD . : 99J141 | Date Extracted: 10/29/99 14:00 |
| S ple ID: MBLK1W | Date Analyzed: 11/02/99 14:52 |
| L Samp ID: IPJ042WB | Dilution Factor: 1 |
| Lab File ID: I31K006017 | Matrix : WATER |
| Ext Btch ID: IPJ042W | % Moisture : NA |
| C ib. Ref.: I31K006015 | Instrument ID : EMAXTI31 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Arsenic | ND | 10 | 4.37 |
| Lead | ND | 10 | 1.42 |
| Selenium | ND | 10 | 4.21 |
| Thallium | ND | 400 | 3.31 |

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 99J141
METHOD: METHOD 3050A/6010A

==========

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| CONTROL NO.: | IPJ040SB | IPJ040SL | | |
| LAB FILE ID: | I07K003009 | I07K003010 | | |
| DATIME EXTRCTD: | 10/29/9912:30 | 10/29/9912:30 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 11/03/9905:25 | 11/03/9905:31 | DATE RECEIVED: | 10/29/99 |
| PREP. BATCH: | IPJ040S | IPJ040S | | |
| CALIB. REF: | I07K003007 | I07K003007 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | ND | 1000 | 878 | 88 | 80-120 |
| Antimony | ND | 500 | 453 | 91 | 80-120 |
| Barium | ND | 100 | 96.9 | 97 | 80-120 |
| Beryllium | ND | 100 | 89.9 | 90 | 80-120 |
| Cadmium | ND | 100 | 87.5 | 88 | 80-120 |
| Calcium | ND | 5000 | 4080 | 82 | 80-120 |
| Chromium | 2.22 | 100 | 89.1 | 87 | 80-120 |
| Cobalt | ND | 100 | 89.3 | 89 | 80-120 |
| Copper | ND | 100 | 94.8 | 95 | 80-120 |
| Iron | ND | 1000 | 911 | 91 | 80-120 |
| Magnesium | ND | 5000 | 4410 | 88 | 80-120 |
| Manganese | ND | 100 | 86.3 | 86 | 80-120 |
| Molybdenum | ND | 100 | 91.5 | 91 | 80-120 |
| Nickel | ND | 100 | 87.3 | 87 | 80-120 |
| Potassium | ND | 5000 | 4520 | 90 | 80-120 |
| Silver | ND | 100 | 85.8 | 86 | 80-120 |
| Sodium | ND | 5000 | 4720 | 94 | 80-120 |
| Vanadium | ND | 100 | 89.8 | 90 | 80-120 |
| Zinc | 2.26 | 100 | 91.1 | 89 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

IENT: IT CORPORATION
OJECT: MCAS EL TORO/18609/D.O. 70
O.: 99J141
D: METHOD 3050A/6010A

==========

| | | | | |
|---|---|---|---|---|
| ATRIX: | SOIL | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | | |
| MPLE ID: | MBLK1S | | | |
| NTROL NO.: | IPJ040SB | IPJ040SL | | |
| AB FILE ID: | I31K002010 | I31K002011 | | |
| DATIME EXTRCTD: | 10/29/9912:30 | 10/29/9912:30 | DATE COLLECTED: | NA |
| TIME ANALYZD: | 11/01/9916:53 | 11/01/9916:57 | DATE RECEIVED: | 10/29/99 |
| EP. BATCH: | IPJ040S | IPJ040S | | |
| LIB. REF: | I31K002008 | I31K002008 | | |

CCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| senic | ND | 100 | 90.3 | 90 | 80-120 |
| ad | ND | 100 | 88.6 | 89 | 80-120 |
| Selenium | ND | 100 | 90.6 | 91 | 80-120 |
| Thallium | ND | 100 | 96.3 | 96 | 80-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 99J141
METHOD: METHOD 3050A/6010A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 9.6 |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | 18609-2350 | | | | |
| CONTROL NO.: | J141-01 | J141-01M | J141-01S | | |
| LAB FILE ID: | I07K003022 | I07K003023 | I07K003024 | | |
| DATIME EXTRCTD: | 10/29/9912:30 | 10/29/9912:30 | 10/29/9912:30 | DATE COLLECTED: | 10/28/99 |
| DATIME ANALYZD: | 11/03/9906:42 | 11/03/9906:48 | 11/03/9906:54 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | IPJ040S | IPJ040S | IPJ040S | | |
| CALIB. REF: | I07K003019 | I07K003019 | I07K003019 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 16300 | 1110 | 20500 | 374* | 1110 | 20300 | 364* | 1 | 80-120 | 20 |
| Antimony | ND | 553 | 296 | 53* | 553 | 308 | 56* | 4 | 80-120 | 20 |
| Barium | 165 | 111 | 264 | 90 | 111 | 261 | 87 | 1 | 80-120 | 20 |
| Beryllium | .597 | 111 | 99.2 | 89 | 111 | 100 | 90 | 1 | 80-120 | 20 |
| Cadmium | ND | 111 | 100 | 90 | 111 | 101 | 91 | 1 | 80-120 | 20 |
| Calcium | 4300 | 5530 | 8780 | 81 | 5530 | 8930 | 84 | 2 | 80-120 | 20 |
| Chromium | 16 | 111 | 117 | 92 | 111 | 118 | 92 | 1 | 80-120 | 20 |
| Cobalt | 6.96 | 111 | 105 | 89 | 111 | 107 | 90 | 2 | 80-120 | 20 |
| Copper | 10.1 | 111 | 117 | 96 | 111 | 116 | 96 | 0 | 80-120 | 20 |
| Iron | 18300 | 1110 | 20500 | 201* | 1110 | 20400 | 191* | 1 | 80-120 | 20 |
| Magnesium | 6830 | 5530 | 12300 | 98 | 5530 | 12300 | 98 | 0 | 80-120 | 20 |
| Manganese | 276 | 111 | 393 | 106 | 111 | 390 | 103 | 1 | 80-120 | 20 |
| Molybdenum | 2.35 | 111 | 96.2 | 85 | 111 | 98.2 | 87 | 2 | 80-120 | 20 |
| Nickel | 9.96 | 111 | 102 | 83 | 111 | 106 | 87 | 3 | 80-120 | 20 |
| Potassium | 4530 | 5530 | 10000 | 99 | 5530 | 9870 | 97 | 2 | 80-120 | 20 |
| Silver | ND | 111 | 100 | 90 | 111 | 101 | 92 | 1 | 80-120 | 20 |
| Sodium | 561 | 5530 | 5590 | 91 | 5530 | 5540 | 90 | 1 | 80-120 | 20 |
| Vanadium | 43.3 | 111 | 147 | 93 | 111 | 150 | 96 | 2 | 80-120 | 20 |
| Zinc | 54.6 | 111 | 159 | 94 | 111 | 159 | 94 | 0 | 80-120 | 20 |

* Out of QC limit

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 99J141
METHOD: METHOD 3050A/6010A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 9.6 |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | 18609-2350 | | | | |
| CONTROL NO.: | J141-01 | J141-01M | J141-01S | | |
| LAB FILE ID: | I31K002014 | I31K002028 | I31K002029 | | |
| DATIME EXTRCTD: | 10/29/9912:30 | 10/29/9912:30 | 10/29/9912:30 | DATE COLLECTED: | 10/28/99 |
| DATIME ANALYZD: | 11/01/9917:10 | 11/01/9918:08 | 11/01/9918:12 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | IPJ040S | IPJ040S | IPJ040S | | |
| CALIB. REF: | I31K002008 | I31K002020 | I31K002020 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 3.15 | 111 | 100 | 88 | 111 | 99.2 | 87 | 1 | 80-120 | 20 |
| Lead | 4.12 | 111 | 95.6 | 83 | 111 | 95 | 82 | 1 | 80-120 | 20 |
| Selenium | ND | 111 | 97.1 | 88 | 111 | 96 | 87 | 1 | 80-120 | 20 |
| Thallium | ND | 111 | 103 | 93 | 111 | 103 | 93 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 99J141
METHOD: METHOD 3010A/6010A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| CONTROL NO.: | IPJ042WB | IPJ042WL | IPJ042WC | | |
| LAB FILE ID: | I07K005029 | I07K005030 | I07K005031 | | |
| DATIME EXTRCTD: | 10/29/9914:00 | 10/29/9914:00 | 10/29/9914:00 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 11/02/9913:58 | 11/02/9914:04 | 11/02/9914:10 | DATE RECEIVED: | 10/29/99 |
| PREP. BATCH: | IPJ042W | IPJ042W | IPJ042W | | |
| CALIB. REF: | I07K005021 | I07K005021 | I07K005021 | | |

ACCESSION:

| PARAMETER | BLNK RSLT ug/L | SPIKE AMT ug/L | BS RSLT ug/L | BS % REC | SPIKE AMT ug/L | BSD RSLT ug/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 10000 | 11100 | 111 | 10000 | 10800 | 108 | 2 | 80-120 | 20 |
| Antimony | ND | 5000 | 5550 | 111 | 5000 | 5460 | 109 | 2 | 80-120 | 20 |
| Barium | ND | 1000 | 1120 | 112 | 1000 | 1090 | 109 | 2 | 80-120 | 20 |
| Beryllium | ND | 1000 | 1140 | 114 | 1000 | 1120 | 112 | 2 | 80-120 | 20 |
| Cadmium | ND | 1000 | 1090 | 109 | 1000 | 1070 | 107 | 1 | 80-120 | 20 |
| Calcium | ND | 50000 | 57300 | 115 | 50000 | 57100 | 114 | 0 | 80-120 | 20 |
| Chromium | ND | 1000 | 1160 | 116 | 1000 | 1150 | 115 | 1 | 80-120 | 20 |
| Cobalt | ND | 1000 | 1150 | 115 | 1000 | 1140 | 114 | 1 | 80-120 | 20 |
| Copper | ND | 1000 | 1070 | 107 | 1000 | 1040 | 104 | 3 | 80-120 | 20 |
| Iron | ND | 10000 | 11400 | 114 | 10000 | 11200 | 112 | 2 | 80-120 | 20 |
| Magnesium | ND | 50000 | 55700 | 111 | 50000 | 54700 | 109 | 2 | 80-120 | 20 |
| Manganese | ND | 1000 | 1120 | 112 | 1000 | 1110 | 111 | 1 | 80-120 | 20 |
| Molybdenum | ND | 1000 | 1160 | 116 | 1000 | 1130 | 113 | 3 | 80-120 | 20 |
| Nickel | ND | 1000 | 1100 | 110 | 1000 | 1090 | 109 | 1 | 80-120 | 20 |
| Potassium | ND | 50000 | 52700 | 105 | 50000 | 52100 | 104 | 1 | 80-120 | 20 |
| Silver | ND | 1000 | 1110 | 111 | 1000 | 1100 | 110 | 1 | 80-120 | 20 |
| Sodium | ND | 50000 | 54400 | 109 | 50000 | 52900 | 106 | 3 | 80-120 | 20 |
| Vanadium | ND | 1000 | 1140 | 114 | 1000 | 1120 | 112 | 2 | 80-120 | 20 |
| Zinc | 40.1 | 1000 | 1120 | 108 | 1000 | 1130 | 109 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

IENT: IT CORPORATION
OJECT: MCAS EL TORO/18609/D.O. 70
S D.: 99J141
ME D: METHOD 3010A/6010A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SPLE ID: | MBLK1W | | | | |
| ITROL NO.: | IPJ042WB | IPJ042WL | IPJ042WC | | |
| LAB FILE ID: | I31K006017 | I31K006018 | I31K006019 | | |
| DATIME EXTRCTD: | 10/29/9914:00 | 10/29/9914:00 | 10/29/9914:00 | DATE COLLECTED: | NA |
| D IME ANALYZD: | 11/02/9914:52 | 11/02/9914:56 | 11/02/9915:00 | DATE RECEIVED: | 10/29/99 |
| P P. BATCH: | IPJ042W | IPJ042W | IPJ042W | | |
| CALIB. REF: | I31K006015 | I31K006015 | I31K006015 | | |

ACCESSION:

| PARAMETER | BLNK RSLT ug/L | SPIKE AMT ug/L | BS RSLT ug/L | BS % REC | SPIKE AMT ug/L | BSD RSLT ug/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 1000 | 1060 | 106 | 1000 | 1030 | 103 | 3 | 80-120 | 20 |
| Lead | ND | 1000 | 1030 | 103 | 1000 | 1000 | 100 | 3 | 80-120 | 20 |
| Selenium | ND | 1000 | 1090 | 109 | 1000 | 1060 | 106 | 3 | 80-120 | 20 |
| Thallium | ND | 1000 | 1090 | 109 | 1000 | 1070 | 107 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 99J141
METHOD: METHOD 3010A/6010A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | 18609-2361 | | | | |
| CONTROL NO.: | J141-12 | J141-12M | J141-12S | | |
| LAB FILE ID: | I07K005035 | I07K005036 | I07K005037 | | |
| DATIME EXTRCTD: | 10/29/9914:00 | 10/29/9914:00 | 10/29/9914:00 | DATE COLLECTED: | 10/28/99 |
| DATIME ANALYZD: | 11/02/9914:34 | 11/02/9914:40 | 11/02/9914:45 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | IPJ042W | IPJ042W | IPJ042W | | |
| CALIB. REF: | I07K005032 | I07K005032 | I07K005032 | | |

ACCESSION:

| PARAMETER | SMPL RSLT ug/L | SPIKE AMT ug/L | MS RSLT ug/L | MS % REC | SPIKE AMT ug/L | MSD RSLT ug/L | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 10000 | 10800 | 108 | 10000 | 10400 | 104 | 4 | 80-120 | 20 |
| Antimony | ND | 5000 | 5420 | 108 | 5000 | 5230 | 105 | 4 | 80-120 | 20 |
| Barium | ND | 1000 | 1090 | 109 | 1000 | 1060 | 106 | 3 | 80-120 | 20 |
| Beryllium | ND | 1000 | 1120 | 112 | 1000 | 1100 | 110 | 1 | 80-120 | 20 |
| Cadmium | ND | 1000 | 1060 | 106 | 1000 | 1030 | 103 | 3 | 80-120 | 20 |
| Calcium | ND | 50000 | 56200 | 112 | 50000 | 55500 | 111 | 1 | 80-120 | 20 |
| Chromium | ND | 1000 | 1140 | 114 | 1000 | 1130 | 113 | 1 | 80-120 | 20 |
| Cobalt | ND | 1000 | 1130 | 113 | 1000 | 1110 | 111 | 2 | 80-120 | 20 |
| Copper | ND | 1000 | 1040 | 104 | 1000 | 998 | 100 | 4 | 80-120 | 20 |
| Iron | ND | 10000 | 11100 | 111 | 10000 | 11000 | 110 | 2 | 80-120 | 20 |
| Magnesium | ND | 50000 | 54600 | 109 | 50000 | 52600 | 105 | 4 | 80-120 | 20 |
| Manganese | ND | 1000 | 1100 | 110 | 1000 | 1090 | 109 | 1 | 80-120 | 20 |
| Molybdenum | ND | 1000 | 1130 | 113 | 1000 | 1090 | 109 | 3 | 80-120 | 20 |
| Nickel | ND | 1000 | 1080 | 108 | 1000 | 1060 | 106 | 2 | 80-120 | 20 |
| Potassium | ND | 50000 | 51000 | 102 | 50000 | 49300 | 99 | 3 | 80-120 | 20 |
| Silver | ND | 1000 | 1080 | 108 | 1000 | 1060 | 106 | 2 | 80-120 | 20 |
| Sodium | ND | 50000 | 53400 | 107 | 50000 | 50800 | 102 | 5 | 80-120 | 20 |
| Vanadium | ND | 1000 | 1110 | 111 | 1000 | 1090 | 109 | 1 | 80-120 | 20 |
| Zinc | ND | 1000 | 1100 | 110 | 1000 | 1090 | 109 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

'LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
NO.: 99J141
OD: METHOD 3010A/6010A

==========

MATRIX: WATER % MOISTURE: NA

| | | | |
|---|---|---|---|
| DILTN FACTR: | 1 | 1 | 1 |
| MPLE ID: | 18609-2361 | | |
| NTROL NO.: | J141-12 | J141-12M | J141-12S |
| AB FILE ID: | I31K006022 | I31K006025 | I31K006026 |
| DATIME EXTRCTD: | 10/29/9914:00 | 10/29/9914:00 | 10/29/9914:00 |
| TIME ANALYZD: | 11/02/9915:13 | 11/02/9915:25 | 11/02/9915:29 |
| EP. BATCH: | IPJ042W | IPJ042W | IPJ042W |
| LIB. REF: | I31K006015 | I31K006015 | I31K006015 |

DATE COLLECTED: 10/28/99
DATE RECEIVED: 10/28/99

CCESSION:

| PARAMETER | SMPL RSLT ug/L | SPIKE AMT ug/L | MS RSLT ug/L | MS % REC | SPIKE AMT ug/L | MSD RSLT ug/L | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| enic | ND | 1000 | 1040 | 104 | 1000 | 990 | 99 | 4 | 80-120 | 20 |
| d | ND | 1000 | 993 | 99 | 1000 | 958 | 96 | 4 | 80-120 | 20 |
| Selenium | ND | 1000 | 1060 | 106 | 1000 | 1020 | 102 | 4 | 80-120 | 20 |
| Thallium | ND | 1000 | 1060 | 106 | 1000 | 1020 | 102 | 4 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 99J141
METHOD: METHOD 3010A/6010A

==========

| | | | | |
|---|---|---|---|---|
| MATRIX: | WATER | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 5 | | |
| SAMPLE ID: | 18609-2361 | 18609-2361DL | | |
| EMAX SAMP ID: | J141-12 | J141-12T | | |
| LAB FILE ID: | I07K005035 | I07K005034 | | |
| DATE EXTRACTED: | 10/29/9914:00 | 10/29/9914:00 | DATE COLLECTED: | 10/28/99 |
| DATE ANALYZED: | 11/02/9914:34 | 11/02/9914:28 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | IPJ042W | IPJ042W | | |
| CALIB. REF: | I07K005032 | I07K005032 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/L) | SERIAL DIL RSLT (ug/L) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | ND | ND | 0 | 10 |
| Antimony | ND | ND | 0 | 10 |
| Barium | ND | ND | 0 | 10 |
| Beryllium | ND | ND | 0 | 10 |
| Cadmium | ND | ND | 0 | 10 |
| Calcium | ND | ND | 0 | 10 |
| Chromium | ND | ND | 0 | 10 |
| Cobalt | ND | ND | 0 | 10 |
| Copper | ND | ND | 0 | 10 |
| Iron | ND | ND | 0 | 10 |
| Magnesium | ND | ND | 0 | 10 |
| Manganese | ND | ND | 0 | 10 |
| Molybdenum | ND | ND | 0 | 10 |
| Nickel | ND | ND | 0 | 10 |
| Potassium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | ND | ND | 0 | 10 |
| Vanadium | ND | ND | 0 | 10 |
| Zinc | ND | ND | 0 | 10 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
H NO.: 99J141
OD: METHOD 3010A/6010A

==========

| | | | | |
|---|---|---|---|---|
| MATRIX: | WATER | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 5 | | |
| MPLE ID: | 18609-2361 | 18609-2361DL | | |
| AX SAMP ID: | J141-12 | J141-12T | | |
| AB FILE ID: | I31K006022 | I31K006021 | | |
| DATE EXTRACTED: | 10/29/9914:00 | 10/29/9914:00 | DATE COLLECTED: | 10/28/99 |
| TE ANALYZED: | 11/02/9915:13 | 11/02/9915:09 | DATE RECEIVED: | 10/28/99 |
| EP. BATCH: | IPJ042W | IPJ042W | | |
| ALIB. REF: | I31K006015 | I31K006015 | | |

CESSION:

| PARAMETER | SMPL RSLT (ug/L) | SERIAL DIL RSLT (ug/L) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| senic | ND | ND | 0 | 10 |
| ad | ND | ND | 0 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Thallium | ND | ND | 0 | 10 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 99J141
METHOD: METHOD 3010A/6010A

==========

| | | | | |
|---|---|---|---|---|
| MATRIX: | WATER | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | | |
| SAMPLE ID: | 18609-2361 | | | |
| CONTROL NO.: | J141-12 | J141-12A | | |
| LAB FILE ID: | I07K005035 | I07K005038 | | |
| DATIME EXTRCTD: | 10/29/9914:00 | 10/29/9914:00 | DATE COLLECTED: | 10/28/99 |
| DATIME ANALYZD: | 11/02/9914:34 | 11/02/9914:51 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | IPJ042W | IPJ042W | | |
| CALIB. REF: | I07K005032 | I07K005032 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/L) | SPIKE AMT (ug/L) | AS RSLT (ug/L) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | ND | 10000 | 10200 | 102 | 75-125 |
| Antimony | ND | 500 | 516 | 103 | 75-125 |
| Barium | ND | 1000 | 1040 | 104 | 75-125 |
| Beryllium | ND | 1000 | 1090 | 109 | 75-125 |
| Cadmium | ND | 1000 | 1020 | 102 | 75-125 |
| Calcium | ND | 50000 | 55100 | 110 | 75-125 |
| Chromium | ND | 1000 | 1110 | 111 | 75-125 |
| Cobalt | ND | 1000 | 1100 | 110 | 75-125 |
| Copper | ND | 1000 | 977 | 98 | 75-125 |
| Iron | ND | 10000 | 10800 | 108 | 75-125 |
| Magnesium | ND | 50000 | 51800 | 104 | 75-125 |
| Manganese | ND | 1000 | 1070 | 107 | 75-125 |
| Molybdenum | ND | 1000 | 1090 | 109 | 75-125 |
| Nickel | ND | 1000 | 1030 | 103 | 75-125 |
| Potassium | ND | 50000 | 47900 | 96 | 75-125 |
| Silver | ND | 1000 | 929 | 93 | 75-125 |
| Sodium | ND | 50000 | 49900 | 100 | 75-125 |
| Vanadium | ND | 1000 | 1080 | 108 | 75-125 |
| Zinc | ND | 1000 | 1060 | 106 | 75-125 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
; NO.: 99J141
HOD: METHOD 3010A/6010A

==========

| | | | | |
|---|---|---|---|---|
| MATRIX: | WATER | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | | |
| SAMPLE ID: | 18609-2361 | | | |
| CONTROL NO.: | J141-12 | J141-12A | | |
| LAB FILE ID: | I31K006022 | I31K006024 | | |
| DATIME EXTRCTD: | 10/29/9914:00 | 10/29/9914:00 | DATE COLLECTED: | 10/28/99 |
| DATIME ANALYZD: | 11/02/9915:13 | 11/02/9915:21 | DATE RECEIVED: | 10/28/99 |
| PREP. BATCH: | IPJ042W | IPJ042W | | |
| CALIB. REF: | I31K006015 | I31K006015 | | |

CCESSION:

| PARAMETER | SMPL RSLT (ug/L) | SPIKE AMT (ug/L) | AS RSLT (ug/L) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| rsenic | ND | 500 | 478 | 96 | 75-125 |
| ead | ND | 500 | 462 | 92 | 75-125 |
| Selenium | ND | 500 | 489 | 98 | 75-125 |
| Thallium | ND | 500 | 493 | 99 | 75-125 |

METHOD 9010A
TOTAL CYANIDE

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 99J141

Matrix : SOIL
Instrument ID : TI05

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CNK001SB | ND | 1 | NA | .5 | .11 | 11/03/9918:55 | 11/01/9914:45 | CNK001S-11 | CNK001S-8 | CNK001S | NA | 11/01/99 |
| LCS1S | CNK001SL | 4.52 | 1 | NA | .5 | .11 | 11/03/9918:56 | 11/01/9914:45 | CNK001S-12 | CNK001S-8 | CNK001S | NA | 11/01/99 |
| LCD1S | CNK001SC | 4.55 | 1 | NA | .5 | .11 | 11/03/9918:57 | 11/01/9914:45 | CNK001S-13 | CNK001S-8 | CNK001S | NA | 11/01/99 |
| 18609-2350 | J141-01 | ND | 1 | 9.6 | .553 | .122 | 11/03/9918:58 | 11/01/9914:45 | CNK001S-14 | CNK001S-8 | CNK001S | 10/28/99 | 10/28/99 |
| 18609-2351 | J141-02 | ND | 1 | 8.5 | .546 | .12 | 11/03/9918:59 | 11/01/9914:45 | CNK001S-15 | CNK001S-8 | CNK001S | 10/28/99 | 10/28/99 |
| 18609-2352 | J141-03 | ND | 1 | 10.8 | .561 | .123 | 11/03/9918:60 | 11/01/9914:45 | CNK001S-16 | CNK001S-8 | CNK001S | 10/28/99 | 10/28/99 |
| 18609-2353 | J141-04 | ND | 1 | 10.6 | .559 | .123 | 11/03/9919:00 | 11/01/9914:45 | CNK001S-17 | CNK001S-8 | CNK001S | 10/28/99 | 10/28/99 |
| 18609-2354 | J141-05 | ND | 1 | 7.9 | .543 | .119 | 11/03/9919:01 | 11/01/9914:45 | CNK001S-18 | CNK001S-8 | CNK001S | 10/28/99 | 10/28/99 |
| 18609-2354MS | J141-05M | 4.99 | 1 | 7.9 | .543 | .119 | 11/03/9919:02 | 11/01/9914:45 | CNK001S-19 | CNK001S-8 | CNK001S | 10/28/99 | 10/28/99 |
| 18609-2354MSD | J141-05S | 4.94 | 1 | 7.9 | .543 | .119 | 11/03/9919:03 | 11/01/9914:45 | CNK001S-20 | CNK001S-8 | CNK001S | 10/28/99 | 10/28/99 |
| 18609-2355 | J141-06 | ND | 1 | 8.2 | .545 | .12 | 11/03/9919:06 | 11/01/9914:45 | CNK001S-23 | CNK001S-21 | CNK001S | 10/28/99 | 10/28/99 |
| 18609-2356 | J141-07 | ND | 1 | 11.7 | .566 | .125 | 11/03/9919:07 | 11/01/9914:45 | CNK001S-24 | CNK001S-21 | CNK001S | 10/28/99 | 10/28/99 |
| 18609-2357 | J141-08 | ND | 1 | 10.3 | .557 | .123 | 11/03/9919:08 | 11/01/9914:45 | CNK001S-25 | CNK001S-21 | CNK001S | 10/28/99 | 10/28/99 |
| 18609-2358 | J141-09 | ND | 1 | 11.8 | .567 | .125 | 11/03/9919:09 | 11/01/9914:45 | CNK001S-26 | CNK001S-21 | CNK001S | 10/28/99 | 10/28/99 |
| 18609-2359 | J141-10 | ND | 1 | 11.4 | .564 | .124 | 11/03/9919:10 | 11/01/9914:45 | CNK001S-27 | CNK001S-21 | CNK001S | 10/28/99 | 10/28/99 |
| 18609-2360 | J141-11 | ND | 1 | 11.8 | .567 | .125 | 11/03/9919:11 | 11/01/9914:45 | CNK001S-28 | CNK001S-21 | CNK001S | 10/28/99 | 10/28/99 |

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

.IENT: IT CORPORATION
:OJECT: MCAS EL TORO/18609/D.O. 70
:THOD: METHOD 9010A
\TRIX: SOIL
MOISTURE: 7.9

\TCH NO.: 99J141
\MPLE ID: 18609-2354MS/MSD
)NTROL NO.: J141-05M/S

DATE RECEIVED: 10/28/99
DATE EXTRACTED: 11/01/99 14:45
DATE ANALYZED: 11/03/99 19:02/19:03

:CESSION:

| \RAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| /anide | ND | 5.37 | 4.99 | 93 | 5.39 | 4.94 | 92 | 1 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

:IENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
:THOD: METHOD 9010A
ATRIX: SOIL
MOISTURE: NA

ATCH NO.: 99J141
AMPLE ID: LCS1S/LCD1S
ONTROL NO.: CNK001SL/C

DATE RECEIVED: 11/01/99
DATE EXTRACTED: 11/01/99 14:45
DATE ANALYZED: 11/03/99 18:56/18:57

:CESSION:

| ARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| yanide | ND | 5 | 4.52 | 90 | 5 | 4.55 | 91 | 1 | 75-125 | 20 |

7292

METHOD 9
TOTAL CYANIDE

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 99J141

Matrix : WATER
Instrument ID : TI05

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | CNK002WB | ND | 1 | NA | .01 | .0018 | 11/03/9919:12 | 11/01/9914:45 | CNK002W-29 | CNK002W-21 | CNK002W | NA | 11/01/99 |
| LCS1W | CNK002WL | .094 | 1 | NA | .01 | .0018 | 11/03/9919:13 | 11/01/9914:45 | CNK002W-30 | CNK002W-21 | CNK002W | NA | 11/01/99 |
| LCD1W | CNK002WC | .095 | 1 | NA | .01 | .0018 | 11/03/9919:14 | 11/01/9914:45 | CNK002W-31 | CNK002W-21 | CNK002W | NA | 11/01/99 |
| 18609-2361 | J141-12 | ND | 1 | NA | .01 | .0018 | 11/03/9919:15 | 11/01/9914:45 | CNK002W-32 | CNK002W-21 | CNK002W | 10/28/99 | 10/28/99 |

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

:LIENT: IT CORPORATION
'ROJECT: MCAS EL TORO/18609/D.O. 70
1ETHOD: METHOD 9010A
1ATRIX: WATER
% MOISTURE: NA

3ATCH NO.: 99J141
SAMPLE ID: LCS1W/LCD1W
:ONTROL NO.: CNK002WL/C

DATE RECEIVED: 11/01/99
DATE EXTRACTED: 11/01/99 14:45
DATE ANALYZED: 11/03/99 19:13/19:14

\CCESSION:

| 'ARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| :yanide | ND | .10 | .094 | 94 | .10 | .095 | 95 | 1 | 80-120 | 20 |

7294

METHOD 3550A/8270B SIM
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : IT CORPORATION | Date Collected: 10/28/99 |
| oject : MCAS EL TORO/18609/D.O. 70 | Date Received: 10/28/99 |
| tch No. : 99J141 | Date Extracted: 10/29/99 12:00 |
| S e ID: 18609-2351 | Date Analyzed: 11/04/99 22:42 |
| La amp ID: J141-02 | Dilution Factor: 1 |
| p File ID: RKB064 | Matrix : SOIL |
| t Btch ID: SVJ023S | % Moisture : 8.5 |
| Calib. Ref.: RKB051 | Instrument ID : T-003 |

| PARAMETERS | RESULTS (ug/kg) | PRL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| IZO(A)PYRENE | ND | 36 | 15 |
| S(2-CHLOROETHYL)ETHER | ND | 36 | 4.6 |
| BENZO(A,H)ANTHRACENE | ND | 36 | 9.5 |
| HEXACHLOROBENZENE | ND | 36 | 7 |
| ENO(1,2,3-CD)PYRENE | ND | 36 | 7.1 |
| ITROSO-DI-N-PROPYLAMINE | ND | 36 | 7.4 |
| TACHLOROPHENOL | ND | 180 | 10 |

P .: Project Reporting Limit

# *Appendix F*
# *LDC Data Validation Report*

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** MCAS El Toro

**Collection Date:** October 26, 1999

**LDC Report Date:** January 3, 2000

**Matrix:** Soil

**Parameters:** Total Petroleum Hydrocarbons as Extractables

**Validation Level:** NFESC Level C

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 99J137

**Sample Identification**

18609-2347
18609-2348

## Introduction

This data review covers 2 soil 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 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.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

### 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

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

### 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 99J137**

No Sample Data Qualified in this SDG

**MCAS El Toro**
**Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 99J137**

No Sample Data Qualified in this SDG

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** MCAS El Toro

**Collection Date:** October 26, 1999

**LDC Report Date:** January 3, 2000

**Matrix:** Soil

**Parameters:** Total Petroleum Hydrocarbons as Gasoline

**Validation Level:** NFESC Level C

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 99J137

**Sample Identification**

18609-2347
18609-2348
18609-2348MS
18609-2348MSD

## Introduction

This data review covers 4 soil 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.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

### 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) 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 Gasoline - Data Qualification Summary - SDG 99J137**

No Sample Data Qualified in this SDG

**MCAS El Toro**
**Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 99J137**

No Sample Data Qualified in this SDG

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** MCAS El Toro

**Collection Date:** October 26, 1999

**LDC Report Date:** January 3, 2000

**Matrix:** Soil

**Parameters:** Chlorinated Pesticides & PCBs

**Validation Level:** NFESC Level C

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 99J137

**Sample Identification**

18609-2347
18609-2348

## Introduction

This data review covers 2 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8081 for Chlorinated Pesticides and PCBs.

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 flags 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 XIV.

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. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

## III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

## IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

The individual 4,4'-DDT and Endrin breakdowns were less than 15.0% .

## V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide or PCB contaminants were found in the method blanks.

## 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

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

## VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## IX. Regional Quality Assurance and Quality Control

Not applicable.

## X. Pesticide Cleanup Checks

### a. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

### b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

## XI. Target Compound Identification

Raw data were not reviewed for this SDG.

## XII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

## XIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

## XIV. Field Duplicates

No field duplicates were identified in this SDG.

## XV. Field Blanks

No field blanks were identified in this SDG.

**MCAS El Toro**
**Chlorinated Pesticides & PCBs - Data Qualification Summary - SDG 99J137**

No Sample Data Qualified in this SDG

**MCAS El Toro**
**Chlorinated Pesticides & PCBs - Laboratory Blank Data Qualification Summary - SDG 99J137**

No Sample Data Qualified in this SDG

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** MCAS El Toro

**Collection Date:** October 26, 1999

**LDC Report Date:** January 3, 2000

**Matrix:** Soil/Water

**Parameters:** Volatiles

**Validation Level:** NFESC Level C

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 99J137

**Sample Identification**

18609-2347
18609-2348
18609-2349

## Introduction

This data review covers 2 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 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.

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. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

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 |
|---|---|---|---|---|---|
| 10/28/99 | Vinyl acetate | 0.049 (≥0.05) | All samples in SDG 99J137 | J (all detects)<br>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.

All of the continuing calibration RRF values were within validation criteria.

## V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

## 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

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

## VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. 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

Raw data were not reviewed for this SDG.

## XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

## XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

## XIV. System Performance

Raw data were not reviewed for this SDG.

## 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 18609-2349 was identified as a trip blank. No volatile contaminants were found in this blank.

## MCAS El Toro
## Volatiles - Data Qualification Summary - SDG 99J137

| SDG | Sample | Compound | Flag | A or P | Reason |
|---|---|---|---|---|---|
| 99J137 | 18609-2347<br>18609-2348<br>18609-2349 | Vinyl acetate | J (all detects)<br>R (all non-detects) | A | Initial calibration (RRF) |

## MCAS El Toro
## Volatiles - Laboratory Blank Data Qualification Summary - SDG 99J137

No Sample Data Qualified in this SDG

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** MCAS El Toro

**Collection Date:** October 26, 1999

**LDC Report Date:** January 3, 2000

**Matrix:** Soil

**Parameters:** Semivolatiles

**Validation Level:** NFESC Level C

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 99J137

**Sample Identification**

18609-2347
18609-2348

## Introduction

This data review covers 2 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.

## 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

Instrument performance was checked at 12 hour intervals.

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 compounds for all calibration check compounds and less than or equal to 50.0% for all other compounds.

Average relative response factors (RRF) for all semivolatile target compounds and system monitoring compounds were greater than or equal to 0.05 as required.

## 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 20.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

All of the continuing calibration RRF values were greater than or equal to 0.05 .

## V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

## 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

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

## VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. 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

Raw data were not reviewed for this SDG.

## XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

## XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

## XIV. System Performance

Raw data were not reviewed for this SDG.

## XV. Overall Assessment

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

No field blanks were identified in this SDG.

**MCAS El Toro**
**Semivolatiles - Data Qualification Summary - SDG 99J137**

No Sample Data Qualified in this SDG

**MCAS El Toro**
**Semivolatiles - Laboratory Blank Data Qualification Summary - SDG 99J137**

No Sample Data Qualified in this SDG

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** MCAS El Toro

**Collection Date:** October 26, 1999

**LDC Report Date:** January 3, 2000

**Matrix:** Soil

**Parameters:** Semivolatiles

**Validation Level:** NFESC Level C

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 99J137

**Sample Identification**

18609-2347
18609-2348

## Introduction

This data review covers 2 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270B using Selected Ion Monitoring (SIM) 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.

## 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

Instrument performance was checked at 12 hour intervals.

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 compounds for all calibration check compounds and less than or equal to 50.0% for all other compounds.

Average relative response factors (RRF) for all semivolatile target compounds and system monitoring compounds were greater than or equal to 0.05 as required.

## 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 20.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

All of the continuing calibration RRF values were greater than or equal to 0.05 .

## V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

## VI. Surrogate Spikes

Surrogates were not reported by the laboratory and therefore were not reviewed.

## VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

## VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. 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

Raw data were not reviewed for this SDG.

## XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

## XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

## XIV. System Performance

Raw data were not reviewed for this SDG.

## XV. Overall Assessment

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

No field blanks were identified in this SDG.

**MCAS El Toro**
**Semivolatiles - Data Qualification Summary - SDG 99J137**

No Sample Data Qualified in this SDG

**MCAS El Toro**
**Semivolatiles - Laboratory Blank Data Qualification Summary - SDG 99J137**

No Sample Data Qualified in this SDG

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** MCAS El Toro

**Collection Date:** October 26, 1999

**LDC Report Date:** January 3, 2000

**Matrix:** Soil

**Parameters:** Metals

**Validation Level:** NFESC Level C

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 99J137

**Sample Identification**

18609-2347
18609-2348

## Introduction

This data review covers 2 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010 and 7000 for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the methods stated above.

A table summarizing all data qualification flags 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 specified protocols or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

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

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

## III. Blanks

Method blanks were reviewed for each matrix as applicable.

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. No contaminant concentrations were found above the reporting limit in the initial, continuing and preparation blanks with the following exceptions:

| Method Blank ID | Analyte | Maximum Concentration | Associated Samples |
|---|---|---|---|
| PB (prep blank) | Zinc | 2.36 mg/Kg | All samples in SDG 99J137 |
| ICB/CCB | Arsenic<br>Beryllium<br>Chromium<br>Molybdenum | 2.83 ug/L<br>0.36 ug/L<br>10.5 ug/L<br>9.72 ug/L | All samples in SDG 99J137 |

Sample concentrations were compared to the maximum contaminant concentrations detected in the ICB/CCB/PBs. The sample concentrations were either not detected or were significantly greater ( >5X blank contaminants) than the concentrations found in the associated method blanks.

## IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

## V. Matrix Spike Analysis

The laboratory has indicated that there were no matrix spike analyses specified for the samples in this SDG and therefore matrix spike analyses were not performed for this SDG.

## VI. Duplicate Sample Analysis

The laboratory has indicated that there were no duplicate sample analyses specified for the samples in this SDG, and therefore duplicate sample analyses were not performed for this SDG.

## VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## VIII. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

## IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

## X. ICP Serial Dilution

Not required by the method.

## XI. Sample Result Verification

Raw data were not reviewed for this SDG.

## XII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

## XIII. Field Duplicates

No field duplicates were identified in this SDG.

## XIV. Field Blanks

No field blanks were identified in this SDG.

**MCAS El Toro**
**Metals - Data Qualification Summary - SDG 99J137**

No Sample Data Qualified in this SDG

**MCAS El Toro**
**Metals - Laboratory Blank Data Qualification Summary - SDG 99J137**

No Sample Data Qualified in this SDG

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** MCAS El Toro

**Collection Date:** October 26, 1999

**LDC Report Date:** January 3, 2000

**Matrix:** Soil

**Parameters:** Wet Chemistry

**Validation Level:** NFESC Level C

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 99J137

**Sample Identification**

18609-2347
18609-2348
18609-2348DUP

## Introduction

This data review covers 3 soil samples listed on the cover sheet. The analyses were per EPA SW 846 Method 9010A for Cyanide and EPA SW 846 Method 9045 for pH.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the methods 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 VII.

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

All criteria for the initial calibration of each method were met.

### b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

## III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the method blanks.

## IV. Accuracy and Precision Data

### a. Matrix Spike/(Matrix Spike) Duplicates

The laboratory has indicated that there were no matrix spike analyses specified for the samples in this SDG and therefore matrix spike analyses were not performed for this SDG.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Relative percent differences (RPD) were within QC limits.

### b. 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. Sample Result Verification

Raw data were not reviewed for this SDG.

## VI. Overall Assessment of Data

Data flags are summarized at the end of this report.

## VII. Field Duplicates

No field duplicates were identified in this SDG.

## VIII. Field Blanks

No field blanks were identified in this SDG.

**MCAS El Toro**
**Wet Chemistry - Data Qualification Summary - SDG 99J137**

No Sample Data Qualified in this SDG

**MCAS El Toro**
**Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 99J137**

No Sample Data Qualified in this SDG

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** MCAS El Toro

**Collection Date:** October 28, 1999

**LDC Report Date:** January 3, 2000

**Matrix:** Soil/Water

**Parameters:** Total Petroleum Hydrocarbons as Extractables

**Validation Level:** NFESC Level C & D

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 99J141

**Sample Identification**

18609-2350
18609-2351
18609-2352
18609-2353
18609-2354
18609-2355
18609-2356
18609-2357
18609-2358
18609-2359
18609-2360**
18609-2361
18609-2350MS
18609-2350MSD

**Indicates sample underwent NFESC Level D review

## Introduction

This data review covers 13 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.

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. Calibration

### a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

### 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

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.

## VI. 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.

## VII. 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.

## VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

## IX. Field Duplicates

Samples 18609-2359 and 18609-2360** were identified as field duplicates. No total petroleum hydrocarbons as extractables were detected in any of the samples.

## X. Field Blanks

Sample 18609-2361 was identified as an equipment rinsate. No total petroleum hydrocarbons as extractables contaminants were found in this blank.

**MCAS El Toro**
**Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 99J141**

No Sample Data Qualified in this SDG

**MCAS El Toro**
**Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 99J141**

No Sample Data Qualified in this SDG

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** MCAS El Toro

**Collection Date:** October 28, 1999

**LDC Report Date:** January 3, 2000

**Matrix:** Soil/Water

**Parameters:** Total Petroleum Hydrocarbons as Gasoline

**Validation Level:** NFESC Level C & D

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 99J141

**Sample Identification**

18609-2350
18609-2351
18609-2352
18609-2353
18609-2354
18609-2355
18609-2356
18609-2357
18609-2358
18609-2359
18609-2360**
18609-2361
18609-2361MS
18609-2361MSD

**Indicates sample underwent NFESC Level D review

## Introduction

This data review covers 11 soil samples and 3 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.

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. Calibration

### a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

### 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) and relative percent differences (RPD) were within QC limits.

## V. Target Compound Identification

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.

## VI. 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.

## VII. 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.

## VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

## IX. Field Duplicates

Samples 18609-2359 and 18609-2360** were identified as field duplicates. No total petroleum hydrocarbons as gasoline were detected in any of the samples.

## X. Field Blanks

Sample 18609-2361 was identified as an equipment rinsate. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

**MCAS El Toro**
**Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 99J141**

No Sample Data Qualified in this SDG

**MCAS El Toro**
**Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 99J141**

No Sample Data Qualified in this SDG

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** MCAS El Toro

**Collection Date:** October 28, 1999

**LDC Report Date:** January 4, 2000

**Matrix:** Soil/Water

**Parameters:** Chlorinated Pesticides & PCBs

**Validation Level:** NFESC Level C & D

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 99J141

**Sample Identification**

18609-2350
18609-2351
18609-2352
18609-2353
18609-2354
18609-2355
18609-2356
18609-2357
18609-2358
18609-2359
18609-2360**
18609-2361

**Indicates sample underwent NFESC Level D review.

## Introduction

This data review covers 11 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 8081 for Chlorinated Pesticides and PCBs.

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 flags 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 XIV.

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 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/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

## III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were evaluated and considered technically acceptable for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples on which a Level C review was performed.

## IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits with the following exceptions:

| Date | Standard | Column | Compound | %D | Associated Samples | Flag | A or P |
|---|---|---|---|---|---|---|---|
| 10/30/99 | DCC04 MIXA/B | RTX-CLPESTII | Aldrin | 20 | 18609-2350<br>18609-2361<br>CJP027SB | J | A |

Retention times (RT) of all compounds in the calibration standards were within QC limits for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples on which a Level C review was performed.

The individual 4,4'-DDT and Endrin breakdowns were less than or equal to 15.0% .

## V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide or PCB contaminants were found in the method blanks.

## 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

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

## VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## IX. Regional Quality Assurance and Quality Control

Not applicable.

## X. Pesticide Cleanup Checks

### a. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

### b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

## XI. Target Compound Identification

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 Reported CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which an NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

## XIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

## XIV. Field Duplicates

Samples 18609-2359 and 18609-2360** were identified as field duplicates. No chlorinated pesticides or PCBs were detected in any of the samples with the following exceptions:

| Compound | Concentration (mg/Kg) | | RPD |
|---|---|---|---|
| | 18609-2359 | 18609-2360** | |
| 4,4'-DDE | 0.01 | 0.048U | 200 |
| Dieldrin | 0.016 | 0.04U | 200 |
| 4,4'-DDT | 0.016 | 0.034U | 200 |
| Endrin aldehyde | 0.0029 | 0.018U | 200 |

## XV. Field Blanks

Sample 18609-2361 was identified as an equipment rinsate. No chlorinated pesticide or PCB contaminants were found in this blank.

## MCAS El Toro
## Chlorinated Pesticides & PCBs - Data Qualification Summary - SDG 99J141

| SDG | Sample | Compound | Flag | A or P | Reason |
|---|---|---|---|---|---|
| 99J141 | 18609-2350<br>18609-2361 | Aldrin | J | A | Continuing calibration (%D) |

## MCAS El Toro
## Chlorinated Pesticides & PCBs - Laboratory Blank Data Qualification Summary - SDG 99J141

No Sample Data Qualified in this SDG

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** MCAS El Toro

**Collection Date:** October 28, 1999

**LDC Report Date:** December 30, 1999

**Matrix:** Soil/Water

**Parameters:** Volatiles

**Validation Level:** NFESC Level C & D

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 99J141

**Sample Identification**

18609-2350
18609-2351
18609-2352
18609-2353
18609-2354
18609-2355
18609-2356
18609-2357
18609-2358
18609-2359
18609-2360**
18609-2361
18609-2362
18609-2360MS
18609-2360MSD

**Indicates sample underwent NFESC Level D review

## Introduction

This data review covers 13 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

Instrument performance was checked at 12 hour intervals.

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.

## 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.

All of the continuing calibration RRF values were within validation criteria.

## V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

## 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. 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

Samples 18609-2359 and 18609-2360** were identified as field duplicates. No volatiles were detected in any of the samples.

## XVII. Field Blanks

Sample 18609-2361 was identified as an equipment rinsate. No volatile contaminants were found in this blank.

Sample 18609-2362 was identified as a trip blank. No volatile contaminants were found in this blank.

**MCAS El Toro**
**Volatiles - Data Qualification Summary - SDG 99J141**

No Sample Data Qualified in this SDG

**MCAS El Toro**
**Volatiles - Laboratory Blank Data Qualification Summary - SDG 99J141**

No Sample Data Qualified in this SDG

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** MCAS El Toro

**Collection Date:** October 28, 1999

**LDC Report Date:** December 30, 1999

**Matrix:** Soil/Water

**Parameters:** Semivolatiles

**Validation Level:** NFESC Level C & D

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 99J141

**Sample Identification**

18609-2350
18609-2351
18609-2352
18609-2353
18609-2354
18609-2355
18609-2356
18609-2357
18609-2358
18609-2359
18609-2360**
18609-2361

**Indicates sample underwent NFESC Level D review

## Introduction

This data review covers 11 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 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.

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

Instrument performance was checked at 12 hour intervals.

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 semivolatile target compounds and system monitoring compounds were greater than or equal to 0.05 as required.

## 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 20.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

All of the continuing calibration RRF values were greater than or equal to 0.05 .

## V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

## 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

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

## VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. 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

Data flags have been summarized at the end of the report.

## XVI. Field Duplicates

Samples 18609-2359 and 18609-2360** were identified as field duplicates. No semivolatiles were detected in any of the samples.

## XVII. Field Blanks

Sample 18609-2361 was identified as an equipment rinsate. No semivolatile contaminants were found in this blank.

**MCAS El Toro**
**Semivolatiles - Data Qualification Summary - SDG 99J141**

No Sample Data Qualified in this SDG

**MCAS El Toro**
**Semivolatiles - Laboratory Blank Data Qualification Summary - SDG 99J141**

No Sample Data Qualified in this SDG

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** MCAS El Toro

**Collection Date:** October 28, 1999

**LDC Report Date:** January 4, 2000

**Matrix:** Soil

**Parameters:** Semivolatiles

**Validation Level:** NFESC Level C & D

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 99J141

**Sample Identification**

18609-2350
18609-2351
18609-2352
18609-2353
18609-2354
18609-2355
18609-2356
18609-2357
18609-2358
18609-2359
18609-2360**

**Indicates sample underwent NFESC Level D review

## Introduction

This data review covers 11 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270B using Selected Ion Monitoring (SIM) 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.

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

Instrument performance was checked at 12 hour intervals.

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 semivolatile target compounds and system monitoring compounds were greater than or equal to 0.05 as required.

## 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 20.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

All of the continuing calibration RRF values were greater than or equal to 0.05 .

## V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

## VI. Surrogate Spikes

Surrogates were not reported and therefore not reviewed.

## VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

## VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) 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

Data flags have been summarized at the end of the report.

## XVI. Field Duplicates

Samples 18609-2359 and 18609-2360** were identified as field duplicates. No semivolatiles were detected in any of the samples.

## XVII. Field Blanks

No field blanks were identified in this SDG.

**MCAS El Toro**
**Semivolatiles - Data Qualification Summary - SDG 99J141**

No Sample Data Qualified in this SDG

**MCAS El Toro**
**Semivolatiles - Laboratory Blank Data Qualification Summary - SDG 99J141**

No Sample Data Qualified in this SDG

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** MCAS El Toro

**Collection Date:** October 28, 1999

**LDC Report Date:** January 3, 2000

**Matrix:** Soil/Water

**Parameters:** Metals

**Validation Level:** NFESC Level C & D

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 99J141

**Sample Identification**

18609-2350
18609-2351
18609-2352
18609-2353
18609-2354
18609-2355
18609-2356
18609-2357
18609-2358
18609-2359
18609-2360**
18609-2361
18609-2350MS
18609-2350MSD
18609-2361MS
18609-2361MSD

**Indicates sample underwent NFESC Level D review

## Introduction

This data review covers 13 soil samples and 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010 and 7000 for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the methods stated above.

A table summarizing all data qualification flags 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 specified protocols or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

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. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

## III. Blanks

Method blanks were reviewed for each matrix as applicable.

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. No contaminant concentrations were found above the reporting limit in the initial, continuing and preparation blanks with the following exceptions:

| Method Blank ID | Analyte | Maximum Concentration | Associated Samples |
|---|---|---|---|
| PB (prep blank) | Chromium<br>Zinc | 2.22 mg/Kg<br>2.26 mg/Kg | All soil samples in SDG 99J141 |
| ICB/CCB | Lead<br>Molybdenum | 1.57 ug/L<br>19.2 ug/L | All soil samples in SDG 99J141 |
| PB (prep blank) | Zinc | 40.1 ug/L | All water samples in SDG 99J141 |
| ICB/CCB | Beryllium<br>Calcium<br>Copper<br>Magnesium<br>Silver<br>Molybdenum | 0.31 ug/L<br>39.5 ug/L<br>1.73 ug/L<br>51.2 ug/L<br>6.59 ug/L<br>8.73 ug/L | All water samples in SDG 99J141 |

Sample concentrations were compared to the maximum contaminant concentrations detected in the ICB/CCB/PBs. The sample concentrations were either not detected or were significantly greater ( >5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|---|---|---|---|
| 18609-2350 | Molybdenum | 2.35 mg/Kg | 2.35U mg/Kg |
| 18609-2351 | Chromium | 10.9 mg/Kg | 10.9U mg/Kg |

## IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

## V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

| Spike ID (Associated Samples) | Analyte | MS (%R) (Limits) | MSD (%R) (Limits) | RPD (Limits) | Flag | A or P |
|---|---|---|---|---|---|---|
| 18609-2350MS/MSD (All soil samples in SDG 99J141) | Antimony | 53 (80-120) | 56 (80-120) | - | J | A |

## VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

## VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## VIII. Internal Standards

ICP-MS was not utilized in this SDG.

## IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

## X. ICP Serial Dilution

Although ICP serial dilution analysis was not required by the method, it was performed

by the laboratory. The analysis criteria were met with the following exceptions:

| Diluted Sample | Analyte | %D (Limits) | Associated Samples | Flag | A or P |
|---|---|---|---|---|---|
| 18609-2350L | Calcium<br>Iron<br>Magnesium<br>Manganese | 13 (≤10)<br>16 (≤10)<br>16 (≤10)<br>13 (≤10) | All soil samples in SDG 99J141 | J (all detects)<br>J (all detects)<br>J (all detects)<br>J (all detects) | A |

## XI. Sample Result Verification

All sample result verifications met 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. Overall Assessment of Data

Data flags have been summarized at the end of this report.

## XIII. Field Duplicates

Samples 18609-2359 and 18609-2360** were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

| Analyte | Concentration (mg/Kg) | | RPD |
|---|---|---|---|
| | 18609-2359 | 18609-2360** | |
| Aluminum | 16800 | 17300 | 3 |
| Arsenic | 3.37 | 3.21 | 5 |
| Barium | 158 | 167 | 6 |
| Beryllium | 0.607 | 0.606 | 0.2 |
| Calcium | 4090 | 4230 | 3 |
| Chromium | 16.1 | 15.9 | 1 |
| Cobalt | 6.63 | 6.56 | 1 |
| Copper | 10.3 | 10.6 | 3 |
| Iron | 19200 | 19100 | 0.5 |
| Lead | 6.42 | 7.95 | 21 |

| Analyte | Concentration (mg/Kg) | | RPD |
|---|---|---|---|
| | 18609-2359 | 18609-2360** | |
| Magnesium | 7230 | 7410 | 2 |
| Manganese | 291 | 292 | 0.3 |
| Nickel | 9.19 | 8.32 | 10 |
| Potassium | 4910 | 4690 | 5 |
| Sodium | 564U | 633 | 200 |
| Vanadium | 45.1 | 44.9 | 0.4 |
| Zinc | 59.1 | 60.5 | 2 |

## XIV. Field Blanks

Sample 18609-2361 was identified as an equipment rinsate. No metal contaminants were found in this blank.

## MCAS El Toro
## Metals - Data Qualification Summary - SDG 99J141

| SDG | Sample | Analyte | Flag | A or P | Reason |
|---|---|---|---|---|---|
| 99J141 | 18609-2350<br>18609-2351<br>18609-2352<br>18609-2353<br>18609-2354<br>18609-2355<br>18609-2356<br>18609-2357<br>18609-2358<br>18609-2359<br>18609-2360** | Antimony | J | A | Matrix spike analysis (%R) |
| 99J141 | 18609-2350<br>18609-2351<br>18609-2352<br>18609-2353<br>18609-2354<br>18609-2355<br>18609-2356<br>18609-2357<br>18609-2358<br>18609-2359<br>18609-2360** | Calcium<br>Iron<br>Magnesium<br>Manganese | J (all detects)<br>J (all detects)<br>J (all detects)<br>J (all detects) | A | ICP serial dilution (%D) |

## MCAS El Toro
## Metals - Laboratory Blank Data Qualification Summary - SDG 99J141

| SDG | Sample | Analyte | Modified Final Concentration | A or P |
|---|---|---|---|---|
| 99J141 | 18609-2350 | Molybdenum | 2.35U mg/Kg | A |
| 99J141 | 18609-2351 | Chromium | 10.9U mg/Kg | A |

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** MCAS El Toro

**Collection Date:** October 28, 1999

**LDC Report Date:** January 3, 2000

**Matrix:** Soil/Water

**Parameters:** Wet Chemistry

**Validation Level:** NFESC Level C & D

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 99J141

**Sample Identification**

18609-2350
18609-2351
18609-2352
18609-2353
18609-2354
18609-2355
18609-2356
18609-2357
18609-2358
18609-2359
18609-2360**
18609-2361
18609-2354MS
18609-2354MSD
18609-2360DUP
18609-2361DUP

**Indicates sample underwent NFESC Level D review

## Introduction

This data review covers 14 soil samples and 2 water samples listed on the cover sheet. The analyses were per EPA SW 846 Method 9010A for Cyanide and EPA SW 846 Method 9045 for pH.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the methods 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 VII.

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. Calibration

### a. Initial Calibration

All criteria for the initial calibration of each method were met.

### b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

## III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the method blanks.

## IV. Accuracy and Precision Data

### a. Matrix Spike/(Matrix Spike) Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Relative percent differences (RPD) were within QC limits.

### b. 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. Sample Result Verification

All sample result verifications 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.

## VI. Overall Assessment of Data

Data flags are summarized at the end of this report.

## VII. Field Duplicates

Samples 18609-2359 and 18609-2360** were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

| Analyte | Concentration (units) | | RPD |
|---|---|---|---|
| | 18609-2359 | 18609-2360** | |
| pH | 8.08 | 8.00 | 1 |

## VIII. Field Blanks

Sample 18609-2361 was identified as an equipment rinsate. The pH measured in the field blank is listed as follows:

| Equipment Rinsate ID | Analyte | Concentration (units) |
|---|---|---|
| 18609-2361 | pH | 6.68 |

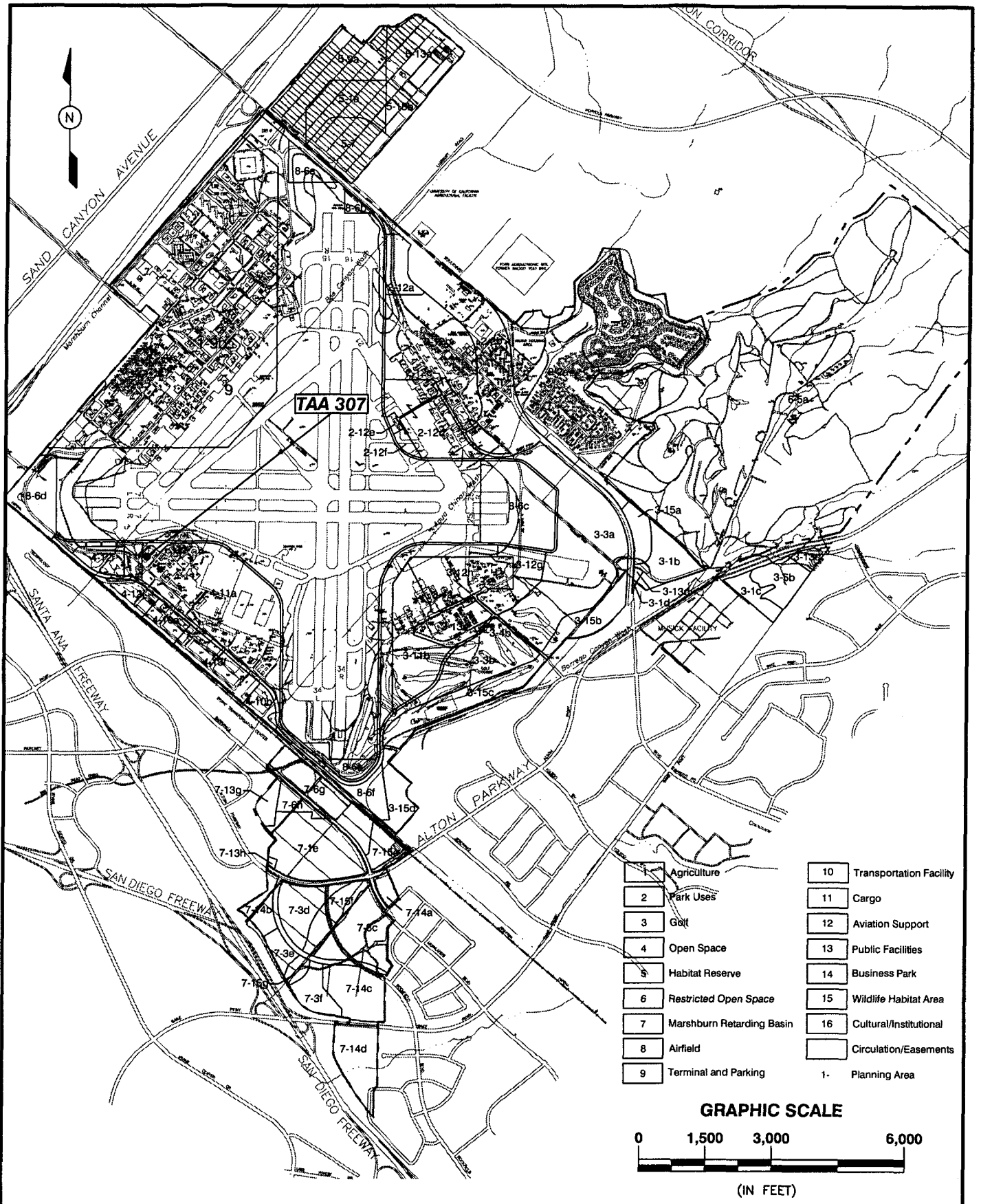
**MCAS El Toro**
**Wet Chemistry - Data Qualification Summary - SDG 99J141**

No Sample Data Qualified in this SDG

**MCAS El Toro**
**Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 99J141**

No Sample Data Qualified in this SDG

# *Appendix G*
# *Preferred Land Use Plan*




| | | | |
|---|---|---|---|
| OHM Remediation Services Corp. A Subsidiary of OHM Corporation SAN DIEGO, CA | DRAWN BY R. PIRMORADIAN | DATE 3/29/01 | PREFERRED LAND USE PLAN TAA 307 |
| | CHECKED BY | DATE 3/29/01 | |
| | APPROVED BY | DATE | |
| CONTRACT NAME SWDIV | PROJECT MANAGER | DATE | MARINE CORPS AIR STATION EL TORO, CALIFORNIA |

| AUTOCAD FILE No. | PLOT SCALE | SHEET | OF | SCALE | DOCUMENT CONTROL No. | OHM PROJECT No. | FIGURE No. | REVISION |
|---|---|---|---|---|---|---|---|---|
| 18609359E.DWG | 1=1 | 1 | 1 | 1"=3000' | SW7852 | 18609 | FIG 1 | 0 |

Mar 29, 2001 - 14:52:37 I:\OHM CORP\PROJECTS\18609\18609359E.dwg