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Marine Corps Air Station
El Toro, California

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Abbreviations and Acronyms

BNI	Bechtel National Inc.
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
CTF	central treatment facility
DO	delivery order
DTSC	Department of Toxic Substances Control
EPA	United States Environmental Protection Agency
HSP	Health and Safety Plan
JEG	Jacobs Engineering Group Inc.
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LDC	Laboratory Data Consultants
MCAS	Marine Corps Air Station
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
RPD	relative percent difference
SWDIV	Southwest Division Naval Facilities Engineering Command
SWMU	Solid Waste Management Unit
TAA	temporary accumulation area
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 results of the field remedial activities conducted at the Solid Waste Management Unit (SWMU) 88, a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) Site referred to as "Drum Storage Area near Building 306", at the Marine Corps Air Station (MCAS), El Toro (hereinafter referred to as the "Station"), California. The work was performed by OHM Remediation Services (OHM) for the Southwest Division Naval Facilities Engineering Command (SWDIV) under Remedial Action Contract (RAC) No. N68711-93-D-1459, under Delivery Order (DO) 0070.

Jacobs Engineering Group Inc. (JEG) and Bechtel National, Inc. (BNI) investigated SWMU 88 site under RFA program in 1993 and 1996 respectively.

Field remedial activities such as limited soil removal and confirmation soil sampling activities at the SWMU 88 site were conducted per recommendations provided by BNI for SWMU 88 site in the Final Addendum to the RFA report (BNI, 1996). Field work was performed in accordance with the SWDIV, the Station, and the Department of Toxic Substances 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, 1997).

Per JEG RFA report, the definition of a SWMU used by the United States Environmental Protection Agency (EPA) is "*Any discrete unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste. Such units included any area at a facility at which solid wastes have been routinely and systematically released.*" (JEG, 1993)

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 Interstates 5 (Santa Ana) and 405 (San Diego) freeways. The Station covers approximately 4,738 acres. The location of the Station is shown on Figure 1-1.

The SWMU 88 site is located in the southwest quadrant of the Station, and southeast of Bee Canyon Wash. The SWMU 88 site encompasses an unpaved area in the vicinity of Building 742, a former Electric Storage Shop, northwest of Building 306 as shown in Figure 1-2.

SWMU 88 is located within the investigation boundary of Installation Restoration Program (IRP) Site 24 - the Volatile Organic Compound (VOC) Source Area.

The depth to groundwater in the vicinity of the SWMU 88 site was based on the available water level data collected from groundwater monitoring well 24NEW1. The location of this well is shown in Figure 1-2. Based on this data, the depth to groundwater at the SWMU 88

site is approximately 280 feet below ground surface (bgs) (Camp, Dresser, & McKee, Inc. Federal Programs Corporation, 1999).

1.2 Project Objectives

The objectives of this project were; to conduct field remedial activities including limited removal of surface and near surface soils contaminated with PCBs (primarily Aroclor 1254 and 1260) in the vicinity of former RFA boring 088A2. Also, to perform confirmation soil sampling and analysis to obtain regulatory closure of the SWMU 88 site.

1.3 Regulatory Background and Cleanup Goals

The closure activities at SWMU 88 were completed in accordance with the appropriate federal and state requirements. SWMU 88 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 SWMU 88 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 SWMU 88 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 metal contaminants (Bechtel National Inc. [BNI], 1996b)

1.4 Project Scope of Work

As stated in the Final Supplemental Work Plan (OHM, 1997), the scope of work (SOW) to be performed by OHM consisted of the following:

- Excavation of contaminated soil, based upon the recommendations in the BNI Final RFA Addendum Report
- Confirmation soil sampling and laboratory analysis of soil samples collected from the excavated areas
- Characterization of excavated soil for waste disposal purposes

- Off-site disposal of contaminated soil
- Preparation of a Closure Report to describe and document the remediation of the site.

Section 2
Previous Investigations and Site Background

The following section summarizes the results of previous investigations at the SWMU 88 site and background history. Background information regarding the SWMU 88 site was obtained from the following documents:

- Final RCRA Facility Assessment Report, Marine Corps Air Station El Toro, California (JEG, 1993)
- Final Addendum RCRA Facility Assessment Report, Marine Corps Air Station El Toro, California (BNI, 1996)
- Final Base Realignment and Closure Cleanup Plan, Marine Corps Air Station El Toro, California (MCAS El Toro, 1998)
- Final Base Realignment and Closure Business Plan, Marine Corps Air Station El Toro, California (MCAS El Toro, 2000).

2.1 RCRA Facility Assessment

In 1991, JEG, as part of the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA), performed the initial Preliminary Review (PR) and a Visual Site Inspection (VSI) of the 307 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. During a field RFA visit in May 1991, JEG identified SWMU 88 as an active HWSA and potential area of concern for shallow PCB contamination.

SWMU 88 was described as an area to the east of Building 306, and included two storage areas. A small drum storage area was described in the southwestern portion of the yard, near Storage Shed 1601. It was noted that this area included 55-gallon drums of painting materials stored on an unbermed, asphalt surface. The storage area was covered with tin roofing material.

The second area was located near the northwestern corner of Storage Shed 1601 and adjacent to the southwestern facility boundary fence. This area was described as unpaved with paint stains on the ground surface. Two drums of unknown contents were described adjacent to the southwestern fence. The western storage yard was described as an unpaved area with five transformers and a pallet load of electrical insulation oil. Stains were not observed inside this storage yard. Due to limited surface staining and the nature of hazardous materials stored at SWMU 88, JEG recommended a *sampling visit* for SWMU 88.

During a sampling visit in June 1995, JEG advanced two angle soil borings (088A1 and 088A2) by hollow-stem auger to a depth of 60 feet in and around the SWMU 88 storage yard. A total of 13 soil samples (including one duplicate) were collected at 10-foot depth

intervals. Analysis of the soil samples indicated maximum concentrations of compounds detected as follows:

- Acetone at 7 μg/kg
- Methylene chloride at 41 μg/kg
- Toluene at 2 μg/kg
- Di-n-butylphthalate at 64 μg/kg
- Bis(2-ethylhexyl)phthalate at 55 μg/kg
- Diethylphthalate at 70 μg/kg
- Aroclor-1260 at 11 ug/kg
- Barium at 3,560 mg/kg
- Lead at 164 mg/kg
- Mercury at 0.38 mg/kg
- Zinc at 366 mg/kg.

Based on the detection of Aroclor-1260 at 11"J"ug/kg at 10 feet bgs in boring 88A2, JEG recommended *"further action of shallow soil borings"* for SWMU 88. A copy of the SWMU 88 site VSI evaluation form, and figure showing soil boring locations and analytical results from the JEG RFA report are included in Appendix A.

After review of the JEG RFA report, DTSC requested additional information and sampling for SWMU 88. From June 1995 to August 1995, BNI conducted a field screening effort at SWMU 88 including shallow soil sampling and screening analysis for PCBs using an immunoassay kit. Seventy-four shallow soil samples were collected from 47 locations. Screening results indicated PCBs in 24 samples and 31 samples that were sent off-site for analysis by USEPA Method 8080 also indicated detectable levels of PCBs. Temporary storage area, Temporary Accumulation Area (TAA) 306, was identified east of Building 306 within the site boundary of SWMU 88 area. The TAA 306 was identified as a concrete pad that was used as a transformer storage area. Excerpts from the BNI Final RFA Addendum report are included in Appendix A.

BNI recommended removal of approximately 200 cubic yards of shallow soils contaminated with low concentrations of PCBs and pesticides that were detected above PRGs. OHM performed field sampling and soil excavation activities at SWMU 88 based upon recommendation by BNI.

In 1997, OHM prepared a closure work plan to perform confirmation sampling and decontamination of SWMU 88 and TAA 306 as warranted. The following sections describe OHM's approach and field efforts for closure of SWMU 88.

Section 3
Field Activities

The following subsections describe activities that were performed at the SWMU 88 Site. Field activities were conducted in accordance with the approved *Final Supplemental Work Plan* (OHM, 1997).

Field activities conducted at the SWMU 88 site included: a site inspection; pre-construction meeting; soil removal activities; confirmation soil sampling; and waste management.

3.1 Preparatory Work

OHM performed a site visit at the SWMU 88 site in January 2000 and in the week of February 7, 2000, to locate former RFA borings and mark the soil removal area based on the BNI RFA report drawing and recommendations. At the time of site visit, OHM inspected the TAA 306 before performing any field activities. The TAA was observed to be inactive, consisting of a vacant non-cracked concrete pad with a sump and berm. Two minor surface stains were observed on the surface of the concrete pad. A copy of the Site Assessment Log is included in Appendix B.

3.2 Pre-Excavation Soil Borings

Initial soil sampling was performed in order to establish excavation boundaries. The areas targeted were those that exceeded the residential PRG levels for PCBs and pesticides. In February 2000, OHM hand-augered a total of ten shallow soil borings (SB-01 through SB-10) to establish the vertical and lateral extent of contamination in this area. Soil boring locations were selected based on the BNI RFA report and are shown in Figure 3-1. All soil borings were drilled with a hand auger to a maximum depth of 5.5 feet below ground surface.

On February 15, OHM field crew marked ten locations around the former RFA borings that had PCBs detected above Residential PRG levels. At the marked locations, soil borings were advanced with a hand auger. At a selected depth, soil samples were collected in a stainless steel sleeve inside a sampler. The sampler was pushed into the ground with an attached slide hammer. The sampler was retrieved from the ground, the sleeve removed from the sampler, and both ends of the sleeve covered with Teflon® sheets and capped. The sleeve was labeled and placed in an iced cooler and delivered to the analytical laboratory under chain-of-custody protocol.

A total of twenty soil samples plus one water sample (decontamination and rinsate) were collected at the site and delivered to EMAX Laboratories, a state certified laboratory. Soil samples were analyzed for pesticides (EPA Method 8081), and PCBs (EPA Method 8082). In all soil borings, if analyzed compounds were not detected in shallow samples, deeper samples were not analyzed; otherwise both were analyzed. A total of 18 soil samples and one equipment rinsate sample (18609-2841) were analyzed. Soil samples were collected in

standard stainless steel sleeves at two of three different depths: 18, 36, and 54 inches below ground surface. Sampling analytical results are discussed in Section 4.

3.3 TAA 306 Confirmation Soil Sampling

On February 28, 2000 OHM cored through the concrete at three locations in order to hand-auger three shallow soil borings (SB-11, SB-12 and SB-13) through the concrete pad at TAA 306. The hand-augered locations were at each of the stained locations and an additional boring (SB-13) was advanced under the sump. All soil borings were advanced with a hand auger to a maximum depth of three feet below ground surface.

A total of six soil samples and one duplicate sample (18609-2824) were collected from 3 borings and delivered to EMAX Laboratories, a state certified laboratory. Soil samples were analyzed for pesticides (EPA Method 8081), PCBs (EPA Method 8082) and metals (EPA Method 6010D/7471A). Details on the sampling strategy and analytical results are discussed in Section 4. The locations of the hand auger soil borings at TAA 306 are shown on Figure 3-1, Site Plan.

3.4 Excavation Activities at SWMU 88

Based on the analytical results of the pre-excavation soil sampling data, the BNI RFA recommendations, and visual inspection, OHM established the lateral and vertical extent of the soil contamination in six areas which are shown in Figure 3-1. OHM then proceeded with a field removal effort to excavate contaminated soil from the six different areas. The excavations were accomplished using a backhoe and an excavator. Approximately 128 cubic yards of PCB- and pesticide-impacted soil were removed and stored onsite in eight, 20-cubic yard closed top roll off bins.

In addition to the excavated soil, plastic and disposable personal protective equipment (PPE) such as Tyvex suits, etc., were also placed with the bins. The bins were labeled appropriately and secured at the site. The excavated soil removal area was backfilled with non-impacted or "clean" soil imported from other locations inside the Station. One composite soil sample was collected from two bins and analyzed for TPH, TRPH, lead and BTEX compounds to characterize the soil for disposal. All generated wastes were disposed of in accordance with applicable State and Federal regulations.

Excavated PCB-contaminated soil, including PPE and plastics, were disposed offsite as "Non-RCRA Hazardous Waste" to the Chemical Waste Management Facility in Kettleman City, California. Copies of the waste manifests along with certificates of disposal are provided in Appendix C. Photographs of the field activities at SWMU88 Site are included in Appendix D.

3.5 Post-Excavation Confirmation Soil Samples

After removal of the potentially PCB-impacted soil, ten confirmation soil samples were collected from the six excavation locations (sample numbers 18609-2845 through 18609-2849 and 18609-2851, 2852, 2854, 2855, 2856, and 2857). Sample number 18609-2855 was a duplicate of sample number 18609-2854. Soil samples were collected at each excavated location from the bottom of the excavation. Confirmation soil sampling was completed with the same protocol followed in the initial soil sampling. All soil samples were analyzed for pesticides and PCBs at EMAX Laboratories. Laboratory analytical results are discussed in Section 4.

3.6 Land Surveying

After completing the excavation and sampling activities at SWMU 88 site, the limits of the excavations, soil boring and post excavation soil sample locations were surveyed by Cal Vada Surveying Inc., a California –licensed land surveyor. The surveyed locations were measured to ±0.01 foot horizontally and tied to the California State Plane Coordinate Systems, North American Datum 1983. The surveyed elevations were measured to ±0.01 foot vertically and tied to mean sea level datum. The land surveying data for SWMU 88 are presented as Appendix E.

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 before and after the remedial excavation at SWMU 88. 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 Final Supplemental Work Plan (OHM, 1997a) 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). The test methods used for analyses were selected on the basis of their ability to detect the chemicals of potential concern with suitable detection limits to verify that all PCB contaminated soil is removed from the site. A list of all the analytical methods that were performed for SWMU 88 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 Quality Control

Field quality assurance/quality control (QA/QC) samples were collected at SWMU 88 as follows:

- One equipment rinsate sample (sample number 18609-2841) was collected during pre-excavation sampling effort SWMU 88.
- One duplicate sample from pre-excavation soil samples (18609-2837), one duplicate from TAA 306 soil samples (18609-2824) and one sample from post-excavation soil samples (18609-2855).

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.

4.1.2 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 SWMU 88. The following methods were performed to characterize samples collected from SWMU 88:

- Pesticides by EPA Method 8081
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082
- Metals by EPA Method 6010A and 7471A.

4.3 Laboratory Analytical Results

This section provides summary and assessment of the analytical results from the sampling performed at SWMU 88. The analytical results for the Pre-Excavation Soil Borings at SWMU 88 site with comparison to the background concentrations and PRGs are presented in Table 4-1, Summary of Analytical Results for Pre-Excavation Soil Samples – SWMU 88. The analytical results for the TAA 306 confirmation soil samples with comparison to the background concentrations and PRGs are presented in Table 4-2, Summary of Analytical Results for Confirmation Soil Samples – TAA 306. The analytical results for the Post-Excavation Confirmation Soil Samples at SWMU 88 site with comparison to the background concentrations and PRGs are presented in Table 4-3, Summary of Analytical Results for Pre-Excavation Soil Samples – SWMU 88.

QC sample analytical data for SWMU 88 are presented in Table 4-4, Summary of Analytical Results for QC Samples – SWMU 88. Copies of the analytical results with QA/QC data obtained from EMAX Analytical Laboratory are included in Appendix F, Laboratory Analytical Report.

4.3.1 Pre-Excavation Soil Sampling

PCBs and pesticides were detected in some soil samples, with all detected concentrations below established background levels except for 4,4'-DDD, 4,4'-DDT, endosulfan sulfate, and endrin aldehyde. Only Aroclor-1260 results in two samples (18609-2817 and 18609-2818) were detected above residential PRGs, and no results exceeded industrial PRGs.

The following metals were reported above the reporting limits in the initial soil samples: aluminum, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, vanadium, and zinc. The positive results for several analytes exceeded the established background values. The results for arsenic and iron were above residential and/or industrial PRGs for some samples.

4.3.2 Post-Excavation Confirmation Soil Sampling

Analytical results from the ten soil samples are provided in Table 4-3 and Appendix E. PCB and pesticide concentrations from all ten soil samples were below the residential and industrial PRGs.

4.3.3 TAA 306 Confirmation Soil Sampling

Analytical results from the soil samples are provided in Table 4-2 and Appendix E. No PCBs and pesticides were detected at concentrations above PRGs in samples collected from SB-11, SB-12 and SB-13. No metals were detected at concentrations above PRGs with the exception of arsenic, detected at a maximum concentration of 5.09 mg/kg, which is less than the established background levels for the Station for arsenic (6.86 mg/kg).

4.3.4 QC Sample Analytical Results

One equipment rinsate sample (18609-2841) was collected and analyzed for, pesticides and PCBs. No analytes were reported above the reporting limits. Results are provided in Table 4-4, Summary of Analytical Results for QC Sample.

4.4 Data Quality Assessment

SWMU 88 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. All data are useable as qualified.

4.5 Data Validation

This section addresses the validity and quality of the data collected from SWMU 88. 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 copy of the LDC report is provided in Appendix G, 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 Final 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 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 percent differences (%D) for the continuing calibration for gamma-chlordane and endosulfan sulfate were out of QC limits; as a result, sample numbers 18609-2812, 18609-2813, and 18609-2817 through 18609-2819 were flagged as estimated with "J."

  - The percent difference (%D) for the continuing calibration for 4,4'-DDD was out of QC limits; as a result, sample numbers 18609-2845 through 18609-

2847, 18609-2849, 18609-2851, 18609-2852, 18609-2856, and 18609-2857 were flagged as estimated with "J."

- The percent difference (%D) for the continuing calibration for 4,4'-DDT was out of QC limits; as a result, sample numbers 18609-2821, 18609-2823, 18609-2845, 18609-2846, 18609-2847, 18609-2849, 18609-2851, 18609-2852, 18609-2856, and 18609-2857 were flagged as estimated with "J."
- The percent difference (%D) for the continuing calibration for methoxychlor was out of QC limits; as a result, sample numbers 18609-2821, 18609-2823, 18609-2845 through 18609-2849, 18609-2851, 18609-2852, and 18609-2854 through 18609-2857 were flagged as estimated with "J."
- The percent difference (%D) for the continuing calibration for endosulfan sulfate was out of QC limits; as a result, sample numbers 18609-2854, and 18609-2855 were flagged as estimated with "J."
- The percent difference (%D) for the continuing calibration for endrin ketone were out of QC limits; as a result, sample numbers 18609-2825 and 18609-2827 were flagged as estimated with "J."
- Sample results exceeded the calibration range for 4,4'-DDT; as a result, sample numbers 18609-2812, 18609-2813, 18609-2817 through 18609-2819, 18609-2850, and 18609-2858 were flagged as estimated with "J."
- Target compound identifications were out of range for 4,4'-DDT; as a result, sample numbers 18609-2824 and 18609-2837 were flagged as estimated with "J."
- Sample results exceeded the calibration range for Aroclor-1260; as a result, sample number 18609-2818 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.

- **Completeness** — Completeness was evaluated with respect to 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 PCBs, Pesticides, and Metals by the laboratory.

- **Summary** — All data associated with SWMU 88 were usable and acceptable as qualified. Overall precision and accuracy were met. The analytical results and associated qualifiers are summarized in Tables 4-1 through 4-4.

Section 5
Conclusions and Recommendations

The following conclusions are based upon existing background information, previous field investigations under the RFA, and OHM's confirmation soil sampling analytical results and remedial activities:

- JEG and BNI investigated the SWMU 88 site under the RFA program and performed field immunoassay and off-site laboratory soil sampling and analysis. BNI recommended removal of approximately 200 cubic yards of shallow soil contaminated with concentrations of PCBs (Aroclor 1254 and 1260) that were detected above PRG levels.
- Based upon BNI's sampling results, OHM collected shallow soil samples in order to determine the horizontal and lateral extent of PCB and pesticide contaminated soil that required excavation. OHM removed approximately 128 cubic yards of PCB contaminated soil. After soil excavation activities, OHM collected ten post-excavation soil samples. PCBs and pesticides were not detected above the residential PRGs in any of ten post excavation confirmation soil samples.
- The TAA 306 is located within SWMU 88 site. Six samples and one duplicate sample were collected from three hand-augered soil borings, SB-11, SB-12, and SB-13, at TAA 306. No PCBs and pesticides were detected at concentrations above the residential PRGs. No metals were detected at concentrations above the residential PRGs with the exception of arsenic, detected at a maximum concentration of 5.09 mg/kg, which is less than the established background levels for the station for arsenic (6.86 mg/kg).

The objectives of this project are considered achieved, since PCB contaminated soil and PPE waste were removed from the SWMU 88 site and disposed at an appropriate off-site facility. Post-excavation confirmation soil sampling analytical results did not detect any concentration of PCB compounds above the EPA Region IX Residential PRGs dated November 2000. Also, TAA 306 is no longer used for storage of drums. Confirmation soil sampling was conducted at TAA 306 site to verify that use of the TAA did not impact the soil beneath the TAA.

Based on the information provided, closure goals were achieved with respect to limited soil removal remedial action for SWMU 88 site, which includes TAA 306; therefore, the SWMU 88 site with TAA 306 should be identified as "closed."

Section 6
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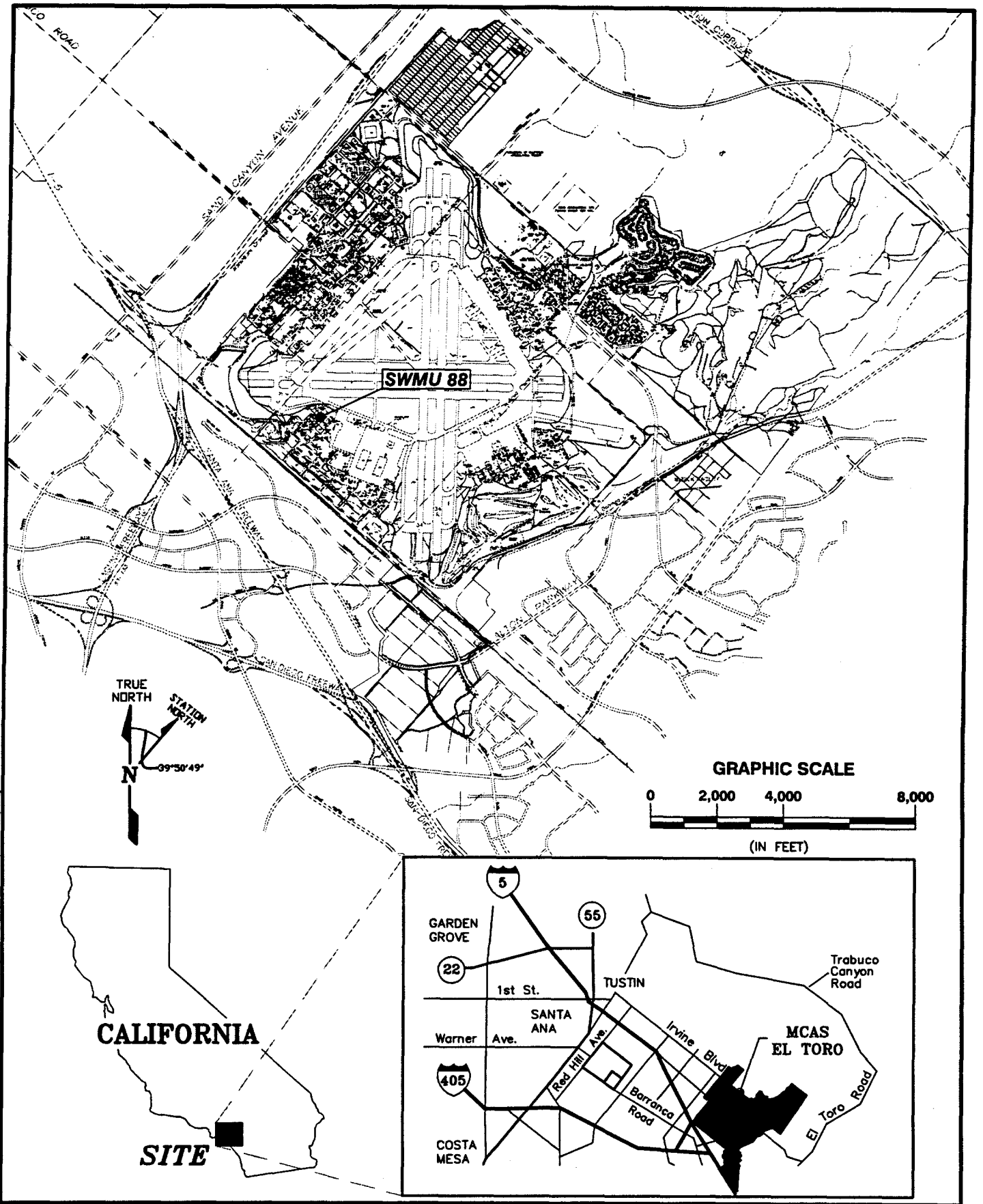
Figures



OHM Remediation Services Corp. A Subsidiary of OHM Corporation SAN DIEGO, CA	DRAWN BY R. PIRMORADIAN	DATE 4/19/01	FACILITY LOCATION MAP SWMU 88					
	CHECKED BY	DATE						
	APPROVED BY	DATE						
CONTRACT NAME SWDIV	PROJECT MANAGER	DATE	MARINE CORPS AIR STATION EL TORO, CALIFORNIA					
AUTOCAD FILE No. 18609334A.DWG	PLOT SCALE 1=1	SHEET 1	OF 1	SCALE 1"=4,000'	DOCUMENT CONTROL No. SW9703	OHM PROJECT No. 18609	FIGURE No. FIG 1-1	REVISION 0

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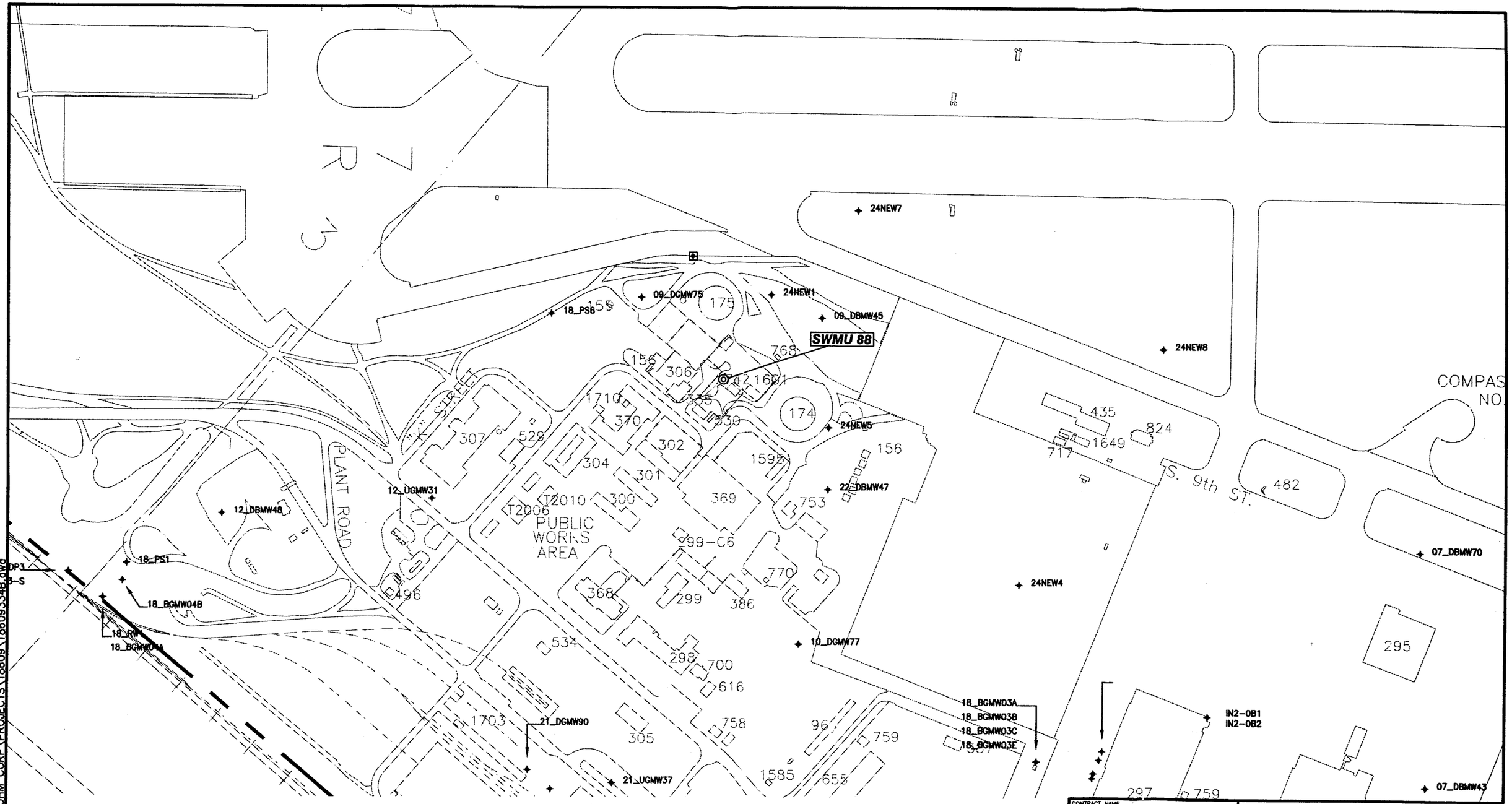

EXPLANATION:

GROUNDWATER MONITORING WELL

TRUE NORTH
STATION NORTH
N
39°50'49"

GRAPHIC SCALE

0 150 300 600

(IN FEET)

REVISIONS			
REV. No.	DESCRIPTION	DATE	APPROVED

CONTRACT NAME	SWDIV
DRAWN BY	R. PIRMORADIAN — DATE 4/19/01
CHECKED BY	D. Enich — DATE 5/10/01
APPROVED BY	DATE
PROJECT MANAGER	DATE
AUTOCAD FILE No.	18609334B.DWG
SCALE	1"=300'
SHEET	1
OF	1
DOCUMENT CONTROL No.	SW9703
OHM PROJECT No.	18609
DRAWING No.	FIG 1-2

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

LOCATION MAP
SWMU 88

MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

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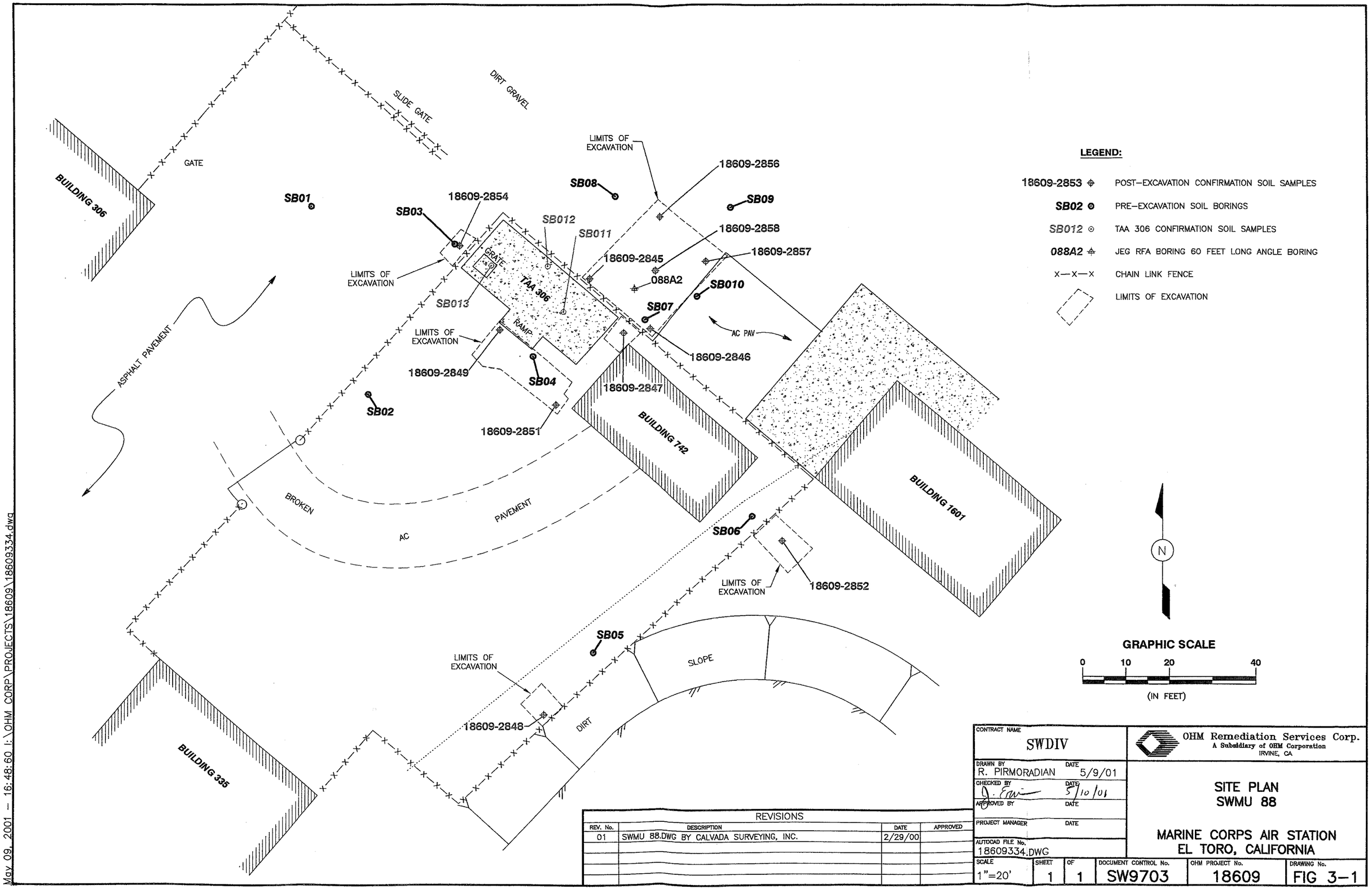

REVISIONS			
REV. No.	DESCRIPTION	DATE	APPROVED
01	SWMU 88.DWG BY CALVADA SURVEYING, INC.	2/29/00	

CONTRACT NAME	SWDIV
DRAWN BY	R. PIRMORADIAN — DATE 5/9/01
CHECKED BY	J. Erwin — DATE 5/10/01
APPROVED BY	DATE
PROJECT MANAGER	DATE
AUTOCAD FILE No.	18609334.DWG

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

SITE PLAN
SWMU 88

MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

SCALE	SHEET	OF	DOCUMENT CONTROL No.	OHM PROJECT No.	DRAWING No.
1"=20'	1	1	SW9703	18609	FIG 3–1

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Tables

Table 4-1
Summary of Analytical Results — SWMU 88 Pre-Excavation Soil Borings

Sample Identification					18609-2830		18609-2828		18609-2832		18609-2816		18609-2817	
Location Code					SWMU-88-SB01		SWMU-88-SB02		SWMU-88-SB03		SWMU-88-SB04		SWMU-88-SB04	
Date Sampled					02/28/00		02/28/00		02/29/00		02/16/00		02/16/00	
Depth (feet below ground surface)					1.0		3.0		3.0		2.5		4.5	
	Unit	Background	Residential PRGs	Industrial PRGs										
EPA 8081														
4,4'-DDD	mg/kg	0.0361	2.4	17	.014 U		.0036 U		.0035 U		.0068 U		.017 U	
4,4'-DDE	mg/kg	0.145	1.7	12	.19 U	B	.05 U		.049 U		.0048 J		.0089 J	
4,4'-DDT	mg/kg	0.236	1.7	12	.014 U		.0036 U		.0035 U		.02		.055	
Aldrin	mg/kg	NE	0.029	0.15	.068 U	Y	.018 U		.017 U		.034 U	Y	.087 U	Y
alpha-BHC	mg/kg	NE	0.09	0.59	.0086 U		.0022 U		.0022 U		.0043 U		.011 U	
alpha-Chlordane	mg/kg	0.00224	1.6	11	.068 U	B	.018 U	B	.017 U	B	.034 U	B	.087 U	B
Beta-BHC	mg/kg	NE	0.32	2.1	.15 U		.039 U		.038 U		.075 U		.19 U	
Delta-BHC	mg/kg	NE	NE	NE	.05 U		.013 U		.013 U		.025 U		.064 U	
Dieldrin	mg/kg	0.0199	0.03	0.15	.16 U	B Y X	.041 U	B Y	.041 U	B Y	.0024 J		.0092 J	
Endosulfan I	mg/kg	0.000179	370	5300	.095 U	B	.025 U	B	.024 U	B	.048 U	B	.12 U	B
Endosulfan II	mg/kg	0.00222	370	5300	.11 U	B	.028 U	B	.028 U	B	.055 U	B	.14 U	B
Endosulfan sulfate	mg/kg	0.0031	NE	NE	.16 U	B	.043 U	B	.042 U	B	.082 U	B	.21 UJ	B
Endrin	mg/kg	0.00222	18	260	.16 U	B	.043 U	B	.042 U	B	.082 U	B	.21 U	B
Endrin aldehyde	mg/kg	0.00222	NE	NE	.073 U	B	.019 U	B	.019 U	B	.036 U	B	.0071 J	B
gamma-BHC	mg/kg	NE	0.44	2.9	.091 U		.024 U		.023 U		.046 U		.12 U	
gamma-Chlordane	mg/kg	0.0027	1.6	11	.068 U	B	.018 U	B	.017 U	B	.034 U	B	.087 UJ	B
Heptachlor	mg/kg	NE	0.11	0.55	.091 U		.024 U		.023 U		.046 U		.12 U	Y
Heptachlor epoxide	mg/kg	NE	0.053	0.27	.095 U	Y	.025 U		.024 U		.048 U		.12 U	Y
Methoxychlor	mg/kg	NE	310	4400	.26 U		.067 U		.066 U		.13 U		.0087 J	
Toxaphene	mg/kg	NE	0.44	2.2	3.2 U	Y X	.83 U	Y	.81 U	Y	1.6 U	Y	4.1 U	Y X
EPA 8082														
Aroclor-1016	mg/kg	NE	3.9	29	3.2 U		.83 U		.81 U		1.6 U		.81 U	
Aroclor-1221	mg/kg	NE	0.22	1	3.2 U	Y X	.83 U	Y	.81 U	Y	1.6 U	Y X	.81 U	Y
Aroclor-1232	mg/kg	NE	0.22	1	3.2 U	Y X	.83 U	Y	.81 U	Y	1.6 U	Y X	.81 U	Y
Aroclor-1242	mg/kg	NE	0.22	1	3.2 U	Y X	.83 U	Y	.81 U	Y	1.6 U	Y X	.81 U	Y
Aroclor-1248	mg/kg	NE	0.22	1	3.2 U	Y X	.83 U	Y	.81 U	Y	1.6 U	Y X	.81 U	Y
Aroclor-1254	mg/kg	NE	0.22	1	3.2 U	Y X	.83 U	Y	.81 U	Y	1.6 U	Y X	.81 U	Y
Aroclor-1260	mg/kg	NE	0.22	1	3.2 U	Y X	.83 U	Y	.81 U	Y	.067 J		.32 J	Y
EPA 6010														
Aluminum	mg/kg	14800	76000	100000	NA		NA		NA		NA		NA	
Antimony	mg/kg	3.06	31	820	NA		NA		NA		11.4 U	B	NA	
Arsenic	mg/kg	6.86	0.39	2.7	NA		NA		NA		3.53	Y X	NA	

Table 4-1
Summary of Analytical Results — SWMU 88 Pre-Excavation Soil Borings

Sample Identification					18609-2830	18609-2828	18609-2832	18609-2816	18609-2817
Location Code					SWMU-88-SB01	SWMU-88-SB02	SWMU-88-SB03	SWMU-88-SB04	SWMU-88-SB04
Date Sampled					02/28/00	02/28/00	02/29/00	02/16/00	02/16/00
Depth (feet below ground surface)					1.0	3.0	3.0	2.5	4.5
	Unit	Background	Residential PRGs	Industrial PRGs					
Barium	mg/kg	173	5400	100000	NA	NA	NA	157	NA
Beryllium	mg/kg	0.669	150	2200	NA	NA	NA	.509	NA
Cadmium	mg/kg	2.35	9.0	810	NA	NA	NA	1.14 U	NA
Calcium	mg/kg	46000	NE	NE	NA	NA	NA	NA	NA
Chromium	mg/kg	26.9	210	450	NA	NA	NA	14.7	NA
Cobalt	mg/kg	6.98	4700	100000	NA	NA	NA	5.73	NA
Copper	mg/kg	10.5	2900	76000	NA	NA	NA	13.1 B	NA
Iron	mg/kg	18400	23000	100000	NA	NA	NA	NA	NA
Lead	mg/kg	15.1	400	750	NA	NA	NA	41.9 B	NA
Magnesium	mg/kg	8370	NE	NE	NA	NA	NA	NA	NA
Manganese	mg/kg	291	1800	32000	NA	NA	NA	277	NA
Molybdenum	mg/kg	NE	390	10000	NA	NA	NA	2.28 U	NA
Nickel	mg/kg	15.3	150	41000	NA	NA	NA	9.95	NA
Potassium	mg/kg	4890	NE	NE	NA	NA	NA	NA	NA
Selenium	mg/kg	0.32	390	10000	NA	NA	NA	1.14 U B	NA
Silver	mg/kg	0.539	390	10000	NA	NA	NA	2.28 U B	NA
Sodium	mg/kg	405	NE	NE	NA	NA	NA	NA	NA
Thallium	mg/kg	0.42	5.2	130	NA	NA	NA	1.14 U B	NA
Vanadium	mg/kg	71.8	550	14000	NA	NA	NA	38.4	NA
Zinc	mg/kg	77.9	23000	100000	NA	NA	NA	64.6	NA
EPA 7471A									
Mercury	mg/kg	0.22	23	610	NA	NA	NA	.114 U	NA

Table 4-1
Summary of Analytical Results — SWMU 88 Pre-Excavation Soil Borings

Sample Identification					18609-2812	18609-2813	18609-2814	18609-2815	18609-2839
Location Code					SWMU-88-SB05	SWMU-88-SB05	SWMU-88-SB06	SWMU-88-SB06	SWMU-88-SB07
Date Sampled					02/15/00	02/15/00	02/15/00	02/15/00	02/29/00
Depth (feet below ground surface)					3.0	4.5	2.5	4.5	3.0
	Unit	Background	Residential PRGs	Industrial PRGs					
EPA 8081									
4,4'-DDD	mg/kg	0.0361	2.4	17	.0043 J	.0028 J	.0036 U	.0036 U	.046 B
4,4'-DDE	mg/kg	0.145	1.7	12	.0058 J	.0066 J	.05 U	.05 U	.010 J
4,4'-DDT	mg/kg	0.236	1.7	12	.064	.093	.0036 U	.027	.033
Aldrin	mg/kg	NE	0.029	0.15	.091 U Y	.089 U Y	.018 U	.018 U	.019 U
alpha-BHC	mg/kg	NE	0.09	0.59	.011 U	.011 U	.0023 U	.0023 U	.0024 U
alpha-Chlordane	mg/kg	0.00224	1.6	11	.091 U B	.089 U B	.018 U B	.018 U B	.019 U B
Beta-BHC	mg/kg	NE	0.32	2.1	.2 U	.2 U	.04 U	.039 U	.042 U
Delta-BHC	mg/kg	NE	NE	NE	.066 U	.066 U	.013 U	.013 U	.014 U
Dieldrin	mg/kg	0.0199	0.03	0.15	.0037 J	.0032 J	.042 U B Y	.042 U B Y	.0027 J
Endosulfan I	mg/kg	0.000179	370	5300	.13 U B	.13 U B	.025 U B	.025 U B	.026 U B
Endosulfan II	mg/kg	0.00222	370	5300	.14 U B	.14 U B	.029 U B	.028 U B	.03 U B
Endosulfan sulfate	mg/kg	0.0031	NE	NE	.22 UJ B	.21 UJ B	.043 U B	.043 U B	.00059 J
Endrin	mg/kg	0.00222	18	260	.22 U B	.21 U B	.043 U B	.043 U B	.045 U B
Endrin aldehyde	mg/kg	0.00222	NE	NE	.097 U B	.095 U B	.019 U B	.0023 J B	.0035 J B
gamma-BHC	mg/kg	NE	0.44	2.9	.12 U	.12 U	.024 U	.024 U	.025 U
gamma-Chlordane	mg/kg	0.0027	1.6	11	.091 UJ B	.089 UJ B	.018 U B	.018 U B	.019 U B
Heptachlor	mg/kg	NE	0.11	0.55	.12 U Y	.12 U Y	.024 U	.024 U	.025 U
Heptachlor epoxide	mg/kg	NE	0.053	0.27	.13 U Y	.13 U Y	.025 U	.025 U	.026 U
Methoxychlor	mg/kg	NE	310	4400	.34 U	.34 U	.069 U	.068 U	.072 U
Toxaphene	mg/kg	NE	0.44	2.2	4.2 U Y X	4.2 U Y X	.84 U Y	.83 U Y	.88 U Y
EPA 8082									
Aroclor-1016	mg/kg	NE	3.9	29	.85 U	.84 U	.84 U	.83 U	.88 U
Aroclor-1221	mg/kg	NE	0.22	1	.85 U Y	.84 U Y	.84 U Y	.83 U Y	.88 U Y
Aroclor-1232	mg/kg	NE	0.22	1	.85 U Y	.84 U Y	.84 U Y	.83 U Y	.88 U Y
Aroclor-1242	mg/kg	NE	0.22	1	.85 U Y	.84 U Y	.84 U Y	.83 U Y	.88 U Y
Aroclor-1248	mg/kg	NE	0.22	1	.85 U Y	.84 U Y	.84 U Y	.83 U Y	.88 U Y
Aroclor-1254	mg/kg	NE	0.22	1	.85 U Y	.84 U Y	.84 U Y	.83 U Y	.88 U Y
Aroclor-1260	mg/kg	NE	0.22	1	.057 J	.054 J	.84 U Y	.065 J	.098 J
EPA 6010									
Aluminum	mg/kg	14800	76000	100000	27800 B	NA	16600 B	NA	NA
Antimony	mg/kg	3.06	31	820	12.1 U B	NA	12 U B	NA	NA
Arsenic	mg/kg	6.86	0.39	2.7	7.34 B Y X	NA	4.06 Y X	NA	NA

Table 4-1
Summary of Analytical Results — SWMU 88 Pre-Excavation Soil Borings

Sample Identification Location Code Date Sampled Depth (feet below ground surface)					18609-2812 SWMU-88-SB05 02/15/00 3.0	18609-2813 SWMU-88-SB05 02/15/00 4.5	18609-2814 SWMU-88-SB06 02/15/00 2.5	18609-2815 SWMU-88-SB06 02/15/00 4.5	18609-2839 SWMU-88-SB07 02/29/00 3.0
	Unit	**Background**	**Residential PRGs**	**Industrial PRGs**					
Barium	mg/kg	173	5400	100000	257 B	NA	161	NA	NA
Beryllium	mg/kg	0.669	150	2200	1.05 B	NA	.644	NA	NA
Cadmium	mg/kg	2.35	9.0	810	1.6	NA	1.2 U	NA	NA
Calcium	mg/kg	46000	NE	NE	7830	NA	5480	NA	NA
Chromium	mg/kg	26.9	210	450	27.2 B	NA	15.5	NA	NA
Cobalt	mg/kg	6.98	4700	100000	8.83 B	NA	5.74	NA	NA
Copper	mg/kg	10.5	2900	76000	20.2 B	NA	11.7 B	NA	NA
Iron	mg/kg	18400	23000	100000	28400 B Y	NA	18800 B	NA	NA
Lead	mg/kg	15.1	400	750	5.72	NA	3.63	NA	NA
Magnesium	mg/kg	8370	NE	NE	12200 B	NA	7850	NA	NA
Manganese	mg/kg	291	1800	32000	427 B	NA	298 B	NA	NA
Molybdenum	mg/kg	NE	390	10000	2.42 U	NA	2.4 U	NA	NA
Nickel	mg/kg	15.3	150	41000	22.5 B	NA	11.6	NA	NA
Potassium	mg/kg	4890	NE	NE	6850 B	NA	5550 B	NA	NA
Selenium	mg/kg	0.32	390	10000	1.21 U B	NA	1.2 U B	NA	NA
Silver	mg/kg	0.539	390	10000	2.42 U B	NA	2.4 U B	NA	NA
Sodium	mg/kg	405	NE	NE	604 U B	NA	601 U B	NA	NA
Thallium	mg/kg	0.42	5.2	130	1.21 U B	NA	1.2 U B	NA	NA
Vanadium	mg/kg	71.8	550	14000	71.6	NA	41.3	NA	NA
Zinc	mg/kg	77.9	23000	100000	84.3 B	NA	55.3	NA	NA
EPA 7471A									
Mercury	mg/kg	0.22	23	610	.121 U	NA	.12 U	NA	NA

Table 4-1
Summary of Analytical Results — SWMU 88 Pre-Excavation Soil Borings

Sample Identification					18609-2840	18609-2836	18609-2837 (Dup)	18609-2838	18609-2834
Location Code					SWMU-88-SB07	SWMU-88-SB08	SWMU-88-SB08	SWMU-88-SB08	SWMU-88-SB09
Date Sampled					02/29/00	02/29/00	02/29/00	02/29/00	02/29/00
Depth (feet below ground surface)					5.0	3.0	3.5	5.0	3.0
	Unit	Background	Residential PRGs	Industrial PRGs					
EPA 8081									
4,4'-DDD	mg/kg	0.0361	2.4	17	.0036 U	.0036 U	.0036 U	.0035 U	.0036 U
4,4'-DDE	mg/kg	0.145	1.7	12	.012 J	.05 U	.051 U	.0043 J	.05 U
4,4'-DDT	mg/kg	0.236	1.7	12	.012	.0036 U	.015	.0035 U	.017
Aldrin	mg/kg	NE	0.029	0.15	.018 U	.018 U	.018 U	.017 U	.018 U
alpha-BHC	mg/kg	NE	0.09	0.59	.0023 U	.001 J	.0023 U	.0022 U	.0023 U
alpha-Chlordane	mg/kg	0.00224	1.6	11	.018 U B	.018 U B	.018 U B	.017 U B	.018 U B
Beta-BHC	mg/kg	NE	0.32	2.1	.04 U	.039 U	.04 U	.038 U	.039 U
Delta-BHC	mg/kg	NE	NE	NE	.013 U	.013 U	.013 U	.013 U	.013 U
Dieldrin	mg/kg	0.0199	0.03	0.15	.0011 J	.042 U B Y	.0041 J	.004 J	.0047 J
Endosulfan I	mg/kg	0.000179	370	5300	.025 U B	.025 U B	.025 U B	.024 U B	.025 U B
Endosulfan II	mg/kg	0.00222	370	5300	.029 U B	.029 U B	.029 U B	.028 U B	.029 U B
Endosulfan sulfate	mg/kg	0.0031	NE	NE	.043 U B	.043 U B	.043 U B	.041 U B	.043 U B
Endrin	mg/kg	0.00222	18	260	.043 U B	.043 U B	.043 U B	.041 U B	.043 U B
Endrin aldehyde	mg/kg	0.00222	NE	NE	.0019 J	.019 U B	.003 J B	.0041 J B	.0036 J B
gamma-BHC	mg/kg	NE	0.44	2.9	.00068 J	.024 U	.024 U	.023 U	.024 U
gamma-Chlordane	mg/kg	0.0027	1.6	11	.018 U B	.018 U B	.018 U B	.017 U B	.018 U B
Heptachlor	mg/kg	NE	0.11	0.55	.0038 J	.024 U	.024 U	.0029 J	.024 U
Heptachlor epoxide	mg/kg	NE	0.053	0.27	.025 U	.025 U	.025 U	.024 U	.025 U
Methoxychlor	mg/kg	NE	310	4400	.069 U	.068 U	.069 U	.066 U	.068 U
Toxaphene	mg/kg	NE	0.44	2.2	.84 U Y	.84 U Y	.85 U Y	.81 U Y	.83 U Y
EPA 8082									
Aroclor-1016	mg/kg	NE	3.9	29	.84 U	.84 U	.85 U	.81 U	.83 U
Aroclor-1221	mg/kg	NE	0.22	1	.84 U Y	.84 U Y	.85 U Y	.81 U Y	.83 U Y
Aroclor-1232	mg/kg	NE	0.22	1	.84 U Y	.84 U Y	.85 U Y	.81 U Y	.83 U Y
Aroclor-1242	mg/kg	NE	0.22	1	.84 U Y	.84 U Y	.85 U Y	.81 U Y	.83 U Y
Aroclor-1248	mg/kg	NE	0.22	1	.84 U Y	.84 U Y	.85 U Y	.81 U Y	.83 U Y
Aroclor-1254	mg/kg	NE	0.22	1	.84 U Y	.84 U Y	.85 U Y	.81 U Y	.83 U Y
Aroclor-1260	mg/kg	NE	0.22	1	.84 U Y	.84 U Y	.051 J	.048 J	.062 J
EPA 6010									
Aluminum	mg/kg	14800	76000	100000	NA	NA	NA	NA	NA
Antimony	mg/kg	3.06	31	820	NA	NA	NA	NA	NA
Arsenic	mg/kg	6.86	0.39	2.7	NA	NA	NA	NA	NA

Table 4-1
Summary of Analytical Results — SWMU 88 Pre-Excavation Soil Borings

Sample Identification					18609-2840	18609-2836	18609-2837 (Dup)	18609-2838	18609-2834
Location Code					SWMU-88-SB07	SWMU-88-SB08	SWMU-88-SB08	SWMU-88-SB08	SWMU-88-SB09
Date Sampled					02/29/00	02/29/00	02/29/00	02/29/00	02/29/00
Depth (feet below ground surface)					5.0	3.0	3.5	5.0	3.0
	Unit	Background	Residential PRGs	Industrial PRGs					
Barium	mg/kg	173	5400	100000	NA	NA	NA	NA	NA
Beryllium	mg/kg	0.669	150	2200	NA	NA	NA	NA	NA
Cadmium	mg/kg	2.35	9.0	810	NA	NA	NA	NA	NA
Calcium	mg/kg	46000	NE	NE	NA	NA	NA	NA	NA
Chromium	mg/kg	26.9	210	450	NA	NA	NA	NA	NA
Cobalt	mg/kg	6.98	4700	100000	NA	NA	NA	NA	NA
Copper	mg/kg	10.5	2900	76000	NA	NA	NA	NA	NA
Iron	mg/kg	18400	23000	100000	NA	NA	NA	NA	NA
Lead	mg/kg	15.1	400	750	NA	NA	NA	NA	NA
Magnesium	mg/kg	8370	NE	NE	NA	NA	NA	NA	NA
Manganese	mg/kg	291	1800	32000	NA	NA	NA	NA	NA
Molybdenum	mg/kg	NE	390	10000	NA	NA	NA	NA	NA
Nickel	mg/kg	15.3	150	41000	NA	NA	NA	NA	NA
Potassium	mg/kg	4890	NE	NE	NA	NA	NA	NA	NA
Selenium	mg/kg	0.32	390	10000	NA	NA	NA	NA	NA
Silver	mg/kg	0.539	390	10000	NA	NA	NA	NA	NA
Sodium	mg/kg	405	NE	NE	NA	NA	NA	NA	NA
Thallium	mg/kg	0.42	5.2	130	NA	NA	NA	NA	NA
Vanadium	mg/kg	71.8	550	14000	NA	NA	NA	NA	NA
Zinc	mg/kg	77.9	23000	100000	NA	NA	NA	NA	NA
EPA 7471A									
Mercury	mg/kg	0.22	23	610	NA	NA	NA	NA	NA

Table 4-1
Summary of Analytical Results — SWMU 88 Pre-Excavation Soil Borings

Sample Identification					18609-2835		18609-2818		18609-2819	
Location Code					SWMU-88-SB09		SWMU-88-SB10		SWMU-88-SB10	
Date Sampled					02/29/00		02/16/00		02/16/00	
Depth (feet below ground surface)					5.0		2.5		4.5	
	Unit	Background	Residential PRGs	Industrial PRGs						
EPA 8081										
4,4'-DDD	mg/kg	0.0361	2.4	17	.0035 U		.038 U	B	.018 U	
4,4'-DDE	mg/kg	0.145	1.7	12	.049 U		.54 U	B	.25 U	B
4,4'-DDT	mg/kg	0.236	1.7	12	.0035 U		.42	B	.084	
Aldrin	mg/kg	NE	0.029	0.15	.018 U		.19 U	Y X	.09 U	Y
alpha-BHC	mg/kg	NE	0.09	0.59	.0022 U		.024 U		.011 U	
alpha-Chlordane	mg/kg	0.00224	1.6	11	.018 U	B	.19 U	B	.09 U	B
Beta-BHC	mg/kg	NE	0.32	2.1	.039 U		.42 U	Y	.2 U	
Delta-BHC	mg/kg	NE	NE	NE	.013 U		.14 U		.066 U	
Dieldrin	mg/kg	0.0199	0.03	0.15	.0015 J		.018 J		.0061 J	
Endosulfan I	mg/kg	0.000179	370	5300	.025 U	B	.27 U	B	.13 U	B
Endosulfan II	mg/kg	0.00222	370	5300	.028 U	B	.31 U	B	.14 U	B
Endosulfan sulfate	mg/kg	0.0031	NE	NE	.042 U	B	.016 J	B	.22 UJ	B
Endrin	mg/kg	0.00222	18	260	.042 U	B	.46 U	B	.22 U	B
Endrin aldehyde	mg/kg	0.00222	NE	NE	.019 U	B	.018 J	B	.0034 J	B
gamma-BHC	mg/kg	NE	0.44	2.9	.023 U		.26 U		.12 U	
gamma-Chlordane	mg/kg	0.0027	1.6	11	.018 U	B	.19 UJ	B	.09 UJ	B
Heptachlor	mg/kg	NE	0.11	0.55	.0027 J		.26 U	Y	.12 U	Y
Heptachlor epoxide	mg/kg	NE	0.053	0.27	.025 U		.27 U	Y X	.13 U	Y
Methoxychlor	mg/kg	NE	310	4400	.067 U		.018 J		.34 U	
Toxaphene	mg/kg	NE	0.44	2.2	.82 U	Y	8.9 U	Y X	4.2 U	Y X
EPA 8082										
Aroclor-1016	mg/kg	NE	3.9	29	.82 U		8.9 U	Y	.84 U	
Aroclor-1221	mg/kg	NE	0.22	1	.82 U	Y	8.9 U	Y X	.84 U	Y
Aroclor-1232	mg/kg	NE	0.22	1	.82 U	Y	8.9 U	Y X	.84 U	Y
Aroclor-1242	mg/kg	NE	0.22	1	.82 U	Y	8.9 U	Y X	.84 U	Y
Aroclor-1248	mg/kg	NE	0.22	1	.82 U	Y	8.9 U	Y X	.84 U	Y
Aroclor-1254	mg/kg	NE	0.22	1	.82 U	Y	8.9 U	Y X	.84 U	Y
Aroclor-1260	mg/kg	NE	0.22	1	.82 U	Y	1 J	Y X	.19 J	
EPA 6010										
Aluminum	mg/kg	14800	76000	100000	NA		NA		NA	
Antimony	mg/kg	3.06	31	820	NA		12.8 U	B	NA	
Arsenic	mg/kg	6.86	0.39	2.7	NA		6.1	Y X	NA	

Table 4-1
Summary of Analytical Results — SWMU 88 Pre-Excavation Soil Borings

Sample Identification					18609-2835	18609-2818	18609-2819
Location Code					SWMU-88-SB09	SWMU-88-SB10	SWMU-88-SB10
Date Sampled					02/29/00	02/16/00	02/16/00
Depth (feet below ground surface)					5.0	2.5	4.5
	Unit	Background	Residential PRGs	Industrial PRGs			
Barium	mg/kg	173	5400	100000	NA	235 B	NA
Beryllium	mg/kg	0.669	150	2200	NA	.866 B	NA
Cadmium	mg/kg	2.35	9.0	810	NA	1.28 U	NA
Calcium	mg/kg	46000	NE	NE	NA	NA	NA
Chromium	mg/kg	26.9	210	450	NA	21.2	NA
Cobalt	mg/kg	6.98	4700	100000	NA	7.94 B	NA
Copper	mg/kg	10.5	2900	76000	NA	22.1 B	NA
Iron	mg/kg	18400	23000	100000	NA	NA	NA
Lead	mg/kg	15.1	400	750	NA	9.2	NA
Magnesium	mg/kg	8370	NE	NE	NA	NA	NA
Manganese	mg/kg	291	1800	32000	NA	376 B	NA
Molybdenum	mg/kg	NE	390	10000	NA	2.55 U	NA
Nickel	mg/kg	15.3	150	41000	NA	17.4 B	NA
Potassium	mg/kg	4890	NE	NE	NA	NA	NA
Selenium	mg/kg	0.32	390	10000	NA	1.28 U B	NA
Silver	mg/kg	0.539	390	10000	NA	2.55 U B	NA
Sodium	mg/kg	405	NE	NE	NA	NA	NA
Thallium	mg/kg	0.42	5.2	130	NA	1.28 U B	NA
Vanadium	mg/kg	71.8	550	14000	NA	56.7	NA
Zinc	mg/kg	77.9	23000	100000	NA	82.8 B	NA
EPA 7471A							
Mercury	mg/kg	0.22	23	610	NA	.128 U	NA

Table 4-1
Summary of Analytical Results — SWMU 88 Pre-Excavation Soil Borings

Explanation:
B - result exceeds established background limits
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
R - quality control indicates the data is not usable.
RL - reporting limit
SB - soil boring
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").
UJ -the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
X - result exceeds industrial PRGs
Y - result exceeds residential PRGs
µg/kg - micrograms per kilogram

Table 4-2
Summary of Analytical Results — TAA 306 Confirmation Soil Borings

Sample Identification					18609-2821	18609-2822	18609-2823	18609-2824 (Dup)	18609-2825
Location Code					SWMU-88-SB11	SWMU-88-SB11	SWMU-88-SB12	SWMU-88-SB12	SWMU-88-SB12
Date Sampled					02/28/00	02/28/00	02/28/00	02/28/00	02/28/00
Depth (feet below ground surface)					1.5	3.0	1.5	2.0	3.0
	Unit	Background	Residential PRGs	Industrial PRGs					
EPA 8081									
4,4'-DDD	mg/kg	0.0361	2.4	17	.0035 U	NA	.0035 U	.0035 U	.0039 U
4,4'-DDE	mg/kg	0.145	1.7	12	.049 U	NA	.049 U	.049 U	.054 U
4,4'-DDT	mg/kg	0.236	1.7	12	.0035 UJ	NA	.013 J	.011 J	.014
Aldrin	mg/kg	NE	0.029	0.15	.017 U	NA	.017 U	.017 U	.019 U
alpha-BHC	mg/kg	NE	0.09	0.59	.0022 U	NA	.0022 U	.0022 U	.002 J
alpha-Chlordane	mg/kg	0.00224	1.6	11	.017 U B	NA	.017 U B	.017 U B	.019 U B
Beta-BHC	mg/kg	NE	0.32	2.1	.038 U	NA	.038 U	.038 U	.043 U
Delta-BHC	mg/kg	NE	NE	NE	.013 U	NA	.013 U	.013 U	.014 U
Dieldrin	mg/kg	0.0199	0.03	0.15	.041 U B Y	NA	.0016 J	.002 J	.00076 J
Endosulfan I	mg/kg	0.000179	370	5300	.024 U B	NA	.024 U B	.024 U B	.027 U B
Endosulfan II	mg/kg	0.00222	370	5300	.028 U B	NA	.028 U B	.028 U B	.031 U B
Endosulfan sulfate	mg/kg	0.0031	NE	NE	.042 U B	NA	.042 U B	.042 U B	.046 U B
Endrin	mg/kg	0.00222	18	260	.042 U B	NA	.042 U B	.042 U B	.046 U B
Endrin aldehyde	mg/kg	0.00222	NE	NE	.019 U B	NA	.0014 J	.00096 J	.0016 J
gamma-BHC	mg/kg	NE	0.44	2.9	.023 U	NA	.023 U	.023 U	.026 U
gamma-Chlordane	mg/kg	0.0027	1.6	11	.017 U B	NA	.017 U B	.017 U B	.019 U B
Heptachlor	mg/kg	NE	0.11	0.55	.0014 J	NA	.023 U	.023 U	.002 J
Heptachlor epoxide	mg/kg	NE	0.053	0.27	.024 U	NA	.024 U	.024 U	.027 U
Methoxychlor	mg/kg	NE	310	4400	.066 UJ	NA	.066 UJ	.066 U	.073 U
Toxaphene	mg/kg	NE	0.44	2.2	.81 U Y	NA	.81 U Y	.81 U Y	.9 U Y
EPA 8082									
Aroclor-1016	mg/kg	NE	3.9	29	.81 U	NA	.81 U	.81 U	.9 U
Aroclor-1221	mg/kg	NE	0.22	1	.81 U Y	NA	.81 U Y	.81 U Y	.9 U Y
Aroclor-1232	mg/kg	NE	0.22	1	.81 U Y	NA	.81 U Y	.81 U Y	.9 U Y
Aroclor-1242	mg/kg	NE	0.22	1	.81 U Y	NA	.81 U Y	.81 U Y	.9 U Y
Aroclor-1248	mg/kg	NE	0.22	1	.81 U Y	NA	.81 U Y	.81 U Y	.9 U Y
Aroclor-1254	mg/kg	NE	0.22	1	.81 U Y	NA	.81 U Y	.81 U Y	.9 U Y
Aroclor-1260	mg/kg	NE	0.22	1	.81 U Y	NA	.03 J	.026 J	.037 J
EPA 6010									
Aluminum	mg/kg	14800	76000	100000	NA	NA	NA	NA	NA
Antimony	mg/kg	3.06	31	820	11.6 U B	11.6 U B	11.6 U B	NA	12.9 U B
Arsenic	mg/kg	6.86	0.39	2.7	2.14 Y	5.09 Y X	1.6 Y	NA	3.36 Y X

Table 4-2
Summary of Analytical Results — TAA 306 Confirmation Soil Borings

Sample Identification					18609-2821	18609-2822	18609-2823	18609-2824 (Dup)	18609-2825
Location Code					SWMU-88-SB11	SWMU-88-SB11	SWMU-88-SB12	SWMU-88-SB12	SWMU-88-SB12
Date Sampled					02/28/00	02/28/00	02/28/00	02/28/00	02/28/00
Depth (feet below ground surface)					1.5	3.0	1.5	2.0	3.0
	Unit	Background	Residential PRGs	Industrial PRGs					
Barium	mg/kg	173	5400	100000	103	95.4	143	NA	205 B
Beryllium	mg/kg	0.669	150	2200	.369	.368	.359	NA	.711 B
Cadmium	mg/kg	2.35	9.0	810	1.16 U	1.16 U	1.16 U	NA	1.29 U
Calcium	mg/kg	46000	NE	NE	NA	NA	NA	NA	NA
Chromium	mg/kg	26.9	210	450	9.42	13.5	9.28	NA	17.7
Cobalt	mg/kg	6.98	4700	100000	4.88	10.5 B	4.08	NA	7.4 B
Copper	mg/kg	10.5	2900	76000	22.7 B	16.1 B	13.3 B	NA	87.6 B
Iron	mg/kg	18400	23000	100000	NA	NA	NA	NA	NA
Lead	mg/kg	15.1	400	750	4.09	7.6	2.66	NA	7.07
Magnesium	mg/kg	8370	NE	NE	NA	NA	NA	NA	NA
Manganese	mg/kg	291	1800	32000	204	272	205	NA	331 B
Molybdenum	mg/kg	NE	390	10000	2.32 U	2.32 U	2.32 U	NA	2.58 U
Nickel	mg/kg	15.3	150	41000	5.61	9.57	6.75	NA	10.8
Potassium	mg/kg	4890	NE	NE	NA	NA	NA	NA	NA
Selenium	mg/kg	0.32	390	10000	1.16 U B	1.16 U B	1.16 U B	NA	1.29 U B
Silver	mg/kg	0.539	390	10000	2.32 U B	2.32 U B	2.32 U B	NA	2.58 U B
Sodium	mg/kg	405	NE	NE	NA	NA	NA	NA	NA
Thallium	mg/kg	0.42	5.2	130	1.16 U B	1.16 U B	1.16 U B	NA	1.29 U B
Vanadium	mg/kg	71.8	550	14000	25.7	33.9	25.2	NA	45
Zinc	mg/kg	77.9	23000	100000	51.2	43.4	53.3	NA	158 B
EPA 7471A									
Mercury	mg/kg	0.22	23	610	.116 U	.116 U	.116 U	NA	.129 U

Table 4-2
Summary of Analytical Results — TAA 306 Confirmation Soil Borings

Sample Identification					18609-2826		18609-2827	
Location Code					SWMU-88-SB13		SWMU-88-SB13	
Date Sampled					02/28/00		2/28/00	
Depth (feet below ground surface)					1.5		3.0	
	Unit	Background	Residential PRGs	Industrial PRGs				
EPA 8081								
4,4'-DDD	mg/kg	0.0361	2.4	17	.0036 U		.0034 U	
4,4'-DDE	mg/kg	0.145	1.7	12	.051 U		.048 U	
4,4'-DDT	mg/kg	0.236	1.7	12	.0039		.0034 U	
Aldrin	mg/kg	NE	0.029	0.15	.018 U		.017 U	
alpha-BHC	mg/kg	NE	0.09	0.59	.0023 U		.0015 J	
alpha-Chlordane	mg/kg	0.00224	1.6	11	.018 U	B	.017 U	B
Beta-BHC	mg/kg	NE	0.32	2.1	.04 U		.038 U	
Delta-BHC	mg/kg	NE	NE	NE	.013 U		.013 U	
Dieldrin	mg/kg	0.0199	0.03	0.15	.00049 J		.04 U	B Y
Endosulfan I	mg/kg	0.000179	370	5300	.025 U	B	.024 U	B
Endosulfan II	mg/kg	0.00222	370	5300	.029 U	B	.028 U	B
Endosulfan sulfate	mg/kg	0.0031	NE	NE	.044 U	B	.041 U	B
Endrin	mg/kg	0.00222	18	260	.044 U	B	.041 U	B
Endrin aldehyde	mg/kg	0.00222	NE	NE	.019 U	B	.018 U	B
gamma-BHC	mg/kg	NE	0.44	2.9	.024 U		.023 U	
gamma-Chlordane	mg/kg	0.0027	1.6	11	.018 U	B	.017 U	B
Heptachlor	mg/kg	NE	0.11	0.55	.024 U		.0014 J	
Heptachlor epoxide	mg/kg	NE	0.053	0.27	.025 U		.024 U	
Methoxychlor	mg/kg	NE	310	4400	.069 U		.065 U	
Toxaphene	mg/kg	NE	0.44	2.2	.85 U	Y	.8 U	Y
EPA 8082								
Aroclor-1016	mg/kg	NE	3.9	29	.85 U		.8 U	
Aroclor-1221	mg/kg	NE	0.22	1	.85 U	Y	.8 U	Y
Aroclor-1232	mg/kg	NE	0.22	1	.85 U	Y	.8 U	Y
Aroclor-1242	mg/kg	NE	0.22	1	.85 U	Y	.8 U	Y
Aroclor-1248	mg/kg	NE	0.22	1	.85 U	Y	.8 U	Y
Aroclor-1254	mg/kg	NE	0.22	1	.85 U	Y	.8 U	Y
Aroclor-1260	mg/kg	NE	0.22	1	.012 J		.8 U	Y
EPA 6010								
Aluminum	mg/kg	14800	76000	100000	NA		NA	
Antimony	mg/kg	3.06	31	820	12.1 U	B	11.5 U	B
Arsenic	mg/kg	6.86	0.39	2.7	4.36	Y X	2.17	Y

Table 4-2
Summary of Analytical Results — TAA 306 Confirmation Soil Borings

Sample Identification					18609-2826		18609-2827	
Location Code					SWMU-88-SB13		SWMU-88-SB13	
Date Sampled					02/28/00		2/28/00	
Depth (feet below ground surface)					1.5		3.0	
	Unit	Background	Residential PRGs	Industrial PRGs				
Barium	mg/kg	173	5400	100000	199	B	138	
Beryllium	mg/kg	0.669	150	2200	.647		.428	
Cadmium	mg/kg	2.35	9.0	810	1.21 U		1.15 U	
Calcium	mg/kg	46000	NE	NE	NA		NA	
Chromium	mg/kg	26.9	210	450	18.2		12.7	
Cobalt	mg/kg	6.98	4700	100000	8.41	B	5.73	
Copper	mg/kg	10.5	2900	76000	17.4	B	29.7	B
Iron	mg/kg	18400	23000	100000	NA		NA	
Lead	mg/kg	15.1	400	750	5.62		2.68	
Magnesium	mg/kg	8370	NE	NE	NA		NA	
Manganese	mg/kg	291	1800	32000	340	B	262	
Molybdenum	mg/kg	NE	390	10000	2.42 U		2.29 U	
Nickel	mg/kg	15.3	150	41000	11.3		7.96	
Potassium	mg/kg	4890	NE	NE	NA		NA	
Selenium	mg/kg	0.32	390	10000	1.21 U	B	1.15 U	B
Silver	mg/kg	0.539	390	10000	2.42 U	B	2.29 U	B
Sodium	mg/kg	405	NE	NE	NA		NA	
Thallium	mg/kg	0.42	5.2	130	1.24	B	1.15 U	B
Vanadium	mg/kg	71.8	550	14000	48.1		34.1	
Zinc	mg/kg	77.9	23000	100000	83.6	B	75.4	
EPA 7471A								
Mercury	mg/kg	0.22	23	610	.121 U		.115 U	

Table 4-2
Summary of Analytical Results — TAA 306 Confirmation Soil Borings

Explanation:
B - result exceeds established background limits
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
R - quality control indicates the data is not usable.
RL - reporting limit
SB - soil boring
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").
UJ -the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
X - result exceeds industrial PRGs
Y - result exceeds residential PRGs
µg/kg - micrograms per kilogram

Table 4-3
Summary of Analytical Results — SWMU 88 Post-Excavation Confirmation Soil Samples

Sample Identification					18609-2845	18609-2846	18609-2856	18609-2857	18609-2858
Location Code (SWMU-88-)					EX1-01 BF	EX1-02 BF	EX1-03 BF	EX1-04 BF	EX1-05 BF
Date Sampled					03/13/00	03/13/00	03/14/00	03/14/00	03/14/00
Depth (feet below ground surface)					3.0	3.0	3.0	3.0	3.0
	Unit	Background	Residential PRGs	Industrial PRGs					
EPA 8081									
4,4'-DDD	mg/kg	0.0361	2.4	17	.0039 UJ	.0037 UJ	.0036 UJ	.0036 UJ	.0074 U
4,4'-DDE	mg/kg	0.145	1.7	12	.054 U	.052 U	.05 U	.0013 J	.004 J
4,4'-DDT	mg/kg	0.236	1.7	12	.0066 J	.0037 UJ	.0036 UJ	.016 J	.015 J
Aldrin	mg/kg	NE	0.029	0.15	.019 U	.019 U	.018 U	.018 U	.037 U Y
alpha-BHC	mg/kg	NE	0.09	0.59	.0025 U	.0016 J	.0023 U	.0019 J	.0047 U
alpha-Chlordane	mg/kg	0.00224	1.6	11	.019 U B	.019 U B	.018 U B	.018 U B	.037 U B
Beta-BHC	mg/kg	NE	0.32	2.1	.043 U	.041 U	.039 U	.039 U	.081 U
Delta-BHC	mg/kg	NE	NE	NE	.014 U	.014 U	.013 U	.013 U	.027 U
Dieldrin	mg/kg	0.0199	0.03	0.15	.045 U B Y	.043 U B Y	.042 U B Y	.0021 J	.016 J
Endosulfan I	mg/kg	0.000179	370	5300	.027 U B	.026 U B	.025 U B	.025 U B	.052 U B
Endosulfan II	mg/kg	0.00222	370	5300	.031 U B	.03 U B	.029 U B	.028 U B	.059 U B
Endosulfan sulfate	mg/kg	0.0031	NE	NE	.047 U B	.044 U B	.043 U B	.043 U B	.0014 J
Endrin	mg/kg	0.00222	18	260	.047 U B	.044 U B	.043 U B	.043 U B	.089 U B
Endrin aldehyde	mg/kg	0.00222	NE	NE	.021 U B	.02 U B	.019 U B	.0019 J	.0062 J B
gamma-BHC	mg/kg	NE	0.44	2.9	.026 U	.025 U	.024 U	.024 U	.049 U
gamma-Chlordane	mg/kg	0.0027	1.6	11	.019 U B	.019 U B	.018 U B	.0011 J	.0032 J B
Heptachlor	mg/kg	NE	0.11	0.55	.026 U	.025 U	.024 U	.024 U	.004 J
Heptachlor epoxide	mg/kg	NE	0.053	0.27	.027 U	.026 U	.025 U	.025 U	.052 U
Methoxychlor	mg/kg	NE	310	4400	.074 UJ	.07 UJ	.068 UJ	.067 UJ	.14 U
Toxaphene	mg/kg	NE	0.44	2.2	.9 U Y	.86 U Y	.83 U Y	.83 U Y	1.7 U Y
EPA 8082									
Aroclor-1016	mg/kg	NE	3.9	29	.9 U	.86 U	.83 U	.83 U	.86 U
Aroclor-1221	mg/kg	NE	0.22	1	.9 U Y	.86 U Y	.83 U Y	.83 U Y	.86 U Y
Aroclor-1232	mg/kg	NE	0.22	1	.9 U Y	.86 U Y	.83 U Y	.83 U Y	.86 U Y
Aroclor-1242	mg/kg	NE	0.22	1	.9 U Y	.86 U Y	.83 U Y	.83 U Y	.86 U Y
Aroclor-1248	mg/kg	NE	0.22	1	.9 U Y	.86 U Y	.83 U Y	.83 U Y	.86 U Y
Aroclor-1254	mg/kg	NE	0.22	1	.9 U Y	.86 U Y	.83 U Y	.83 U Y	.86 U Y
Aroclor-1260	mg/kg	NE	0.22	1	.025 J	.86 U Y	.83 U Y	.044 J	.22 J Y

Table 4-3
Summary of Analytical Results — SWMU 88 Post-Excavation Confirmation Soil Samples

Sample Identification					18609-2847	18609-2848	18609-2849	18609-2851	18609-2903
Location Code (SWMU-88-)					EX2-01 BF	EX3-01 BF	EX4-01 BF	EX4-03 BF	EX4-04
Date Sampled					03/13/00	03/13/00	03/14/00	03/14/00	03/23/00
Depth (feet below ground surface)					3.0	3.0	3.0	3.0	Surface
	Unit	Background	Residential PRGs	Industrial PRGs					
EPA 8081									
4,4'-DDD	mg/kg	0.0361	2.4	17	.0044 J	.0016 J	.0033 UJ	.0036 UJ	.018 U
4,4'-DDE	mg/kg	0.145	1.7	12	.00085 J	.0021 J	.0016 J	.0066 J	.25 U B
4,4'-DDT	mg/kg	0.236	1.7	12	.011 J	.027	.013 J	.046 J	.0033 J
Aldrin	mg/kg	NE	0.029	0.15	.019 U	.018 U	.017 U	.018 U	.088 U Y
alpha-BHC	mg/kg	NE	0.09	0.59	.0024 U	.0025	.0021 U	.0015 J	.011 U
alpha-Chlordane	mg/kg	0.00224	1.6	11	.019 U B	.018 U B	.017 U B	.018 U B	.088 U B
Beta-BHC	mg/kg	NE	0.32	2.1	.042 U	.041 U	.037 U	.039 U	.19 U
Delta-BHC	mg/kg	NE	NE	NE	.014 U	.014 U	.012 U	.013 U	.065 U
Dieldrin	mg/kg	0.0199	0.03	0.15	.0012 J	.0012 J	.00075 J	.0014 J	.21 U B Y X
Endosulfan I	mg/kg	0.000179	370	5300	.027 U B	.026 U B	.023 U B	.025 U B	.12 U B
Endosulfan II	mg/kg	0.00222	370	5300	.03 U B	.03 U B	.027 U B	.029 U B	.14 U B
Endosulfan sulfate	mg/kg	0.0031	NE	NE	.046 U B	.044 U B	.04 U B	.00067 J	.21 U B
Endrin	mg/kg	0.00222	18	260	.046 U B	.044 U B	.04 U B	.043 U B	.21 U B
Endrin aldehyde	mg/kg	0.00222	NE	NE	.0023 J B	.001 J	.018 U B	.0018 J	.010 J B
gamma-BHC	mg/kg	NE	0.44	2.9	.025 U	.025 U	.022 U	.024 U	.12 U
gamma-Chlordane	mg/kg	0.0027	1.6	11	.0014 J	.0011 J	.017 U B	.018 U B	.088 U B
Heptachlor	mg/kg	NE	0.11	0.55	.025 U	.0041 J	.022 U	.024 U	.12 U Y
Heptachlor epoxide	mg/kg	NE	0.053	0.27	.027 U	.026 U	.023 U	.025 U	.12 U Y
Methoxychlor	mg/kg	NE	310	4400	.072 UJ	.07 UJ	.063 UJ	.068 UJ	.33 U
Toxaphene	mg/kg	NE	0.44	2.2	.89 U Y	.86 U Y	.77 U Y	.83 U Y	4.1 U Y X
EPA 8082									
Aroclor-1016	mg/kg	NE	3.9	29	.89 U	.86 U	.77 U	.83 U	4.1 U Y
Aroclor-1221	mg/kg	NE	0.22	1	.89 U Y	.86 U Y	.77 U Y	.83 U Y	4.1 U Y X
Aroclor-1232	mg/kg	NE	0.22	1	.89 U Y	.86 U Y	.77 U Y	.83 U Y	4.1 U Y X
Aroclor-1242	mg/kg	NE	0.22	1	.89 U Y	.86 U Y	.77 U Y	.83 U Y	4.1 U Y X
Aroclor-1248	mg/kg	NE	0.22	1	.89 U Y	.86 U Y	.77 U Y	.83 U Y	4.1 U Y X
Aroclor-1254	mg/kg	NE	0.22	1	.89 U Y	.86 U Y	.77 U Y	.83 U Y	4.1 U Y X
Aroclor-1260	mg/kg	NE	0.22	1	.072 J	.095 J	.054 J	.096 J	.07 J

Table 4-3
Summary of Analytical Results — SWMU 88 Post-Excavation Confirmation Soil Samples

Sample Identification					18609-2852	18609-2854	18609-2855 (Dup)	18609-2904
Location Code (SWMU-88-)					EX5-01 BF	EX6-01 BF	EX6-01 BF	EX6-02
Date Sampled					03/14/00	03/14/00	03/14/00	03/23/00
Depth (feet below ground surface)					3.0	3.0	3.0	Surface
	Unit	Background	Residential PRGs	Industrial PRGs				
EPA 8081								
4,4'-DDD	mg/kg	0.0361	2.4	17	.0035 UJ	.0037 U	.0072 U	.018 U
4,4'-DDE	mg/kg	0.145	1.7	12	.001 J	.0009 J	.0032 J	.25 U B
4,4'-DDT	mg/kg	0.236	1.7	12	.011	.0085	.04	.018 U
Aldrin	mg/kg	NE	0.029	0.15	.017 U	.018 U	.036 U Y	.089 U Y
alpha-BHC	mg/kg	NE	0.09	0.59	.0011 J	.0023 U	.0046 U	.011 U
alpha-Chlordane	mg/kg	0.00224	1.6	11	.017 U B	.018 U B	.036 U B	.089 U B
Beta-BHC	mg/kg	NE	0.32	2.1	.038 U	.04 U	.08 U	.2 U
Delta-BHC	mg/kg	NE	NE	NE	.013 U	.013 U	.027 U	.065 U
Dieldrin	mg/kg	0.0199	0.03	0.15	.00076 J	.0011 J	.0038 J	.21 U B Y X
Endosulfan I	mg/kg	0.000179	370	5300	.024 U B	.026 U B	.051 U B	.12 U B
Endosulfan II	mg/kg	0.00222	370	5300	.028 U B	.029 U B	.058 U B	.14 U B
Endosulfan sulfate	mg/kg	0.0031	NE	NE	.042 U B	.044 UJ B	.0015 J	.21 U B
Endrin	mg/kg	0.00222	18	260	.042 U B	.044 U B	.087 U B	.21 U B
Endrin aldehyde	mg/kg	0.00222	NE	NE	.0017 J	.02 U B	.0045 J B	.095 U B
gamma-BHC	mg/kg	NE	0.44	2.9	.023 U	.025 U	.048 U	.12 U
gamma-Chlordane	mg/kg	0.0027	1.6	11	.00099 J	.018 U B	.0017 J	.089 U B
Heptachlor	mg/kg	NE	0.11	0.55	.0028 J	.025 U	.048 U	.12 U Y
Heptachlor epoxide	mg/kg	NE	0.053	0.27	.024 U	.026 U	.051 U	.12 U Y
Methoxychlor	mg/kg	NE	310	4400	.066 UJ	.07 UJ	.14 UJ	.34 U
Toxaphene	mg/kg	NE	0.44	2.2	.81 U Y	.86 U Y	1.7 U Y	4.2 U Y X
EPA 8082								
Aroclor-1016	mg/kg	NE	3.9	29	.81 U	.86 U	1.7 U	4.2 U Y
Aroclor-1221	mg/kg	NE	0.22	1	.81 U Y	.86 U Y	1.7 U Y X	4.2 U Y X
Aroclor-1232	mg/kg	NE	0.22	1	.81 U Y	.86 U Y	1.7 U Y X	4.2 U Y X
Aroclor-1242	mg/kg	NE	0.22	1	.81 U Y	.86 U Y	1.7 U Y X	4.2 U Y X
Aroclor-1248	mg/kg	NE	0.22	1	.81 U Y	.86 U Y	1.7 U Y X	4.2 U Y X
Aroclor-1254	mg/kg	NE	0.22	1	.81 U Y	.86 U Y	1.7 U Y X	4.2 U Y X
Aroclor-1260	mg/kg	NE	0.22	1	.066 J	.04 J	.23 J Y	4.2 U Y X

Table 4-3
Summary of Analytical Results — SWMU 88 Post-Excavation Confirmation Soil Samples

Explanation:
B - result exceeds established background limits
EPA - United States Environmental Protection Agency
EX - excavation
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
R - quality control indicates the data is not usable.
RL - reporting limit
SB - soil boring
U - not detected above or equal to the stated reporting limit
UJ -the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
X - result exceeds industrial PRGs
Y - result exceeds residential PRGs
µg/kg - micrograms per kilogram
* If the analyte had been detected bewteen the MDL and RL the actual value would have been reported and flagged with a "J" qualifier. For the samples in question, the laboratory did not detect analyte concentrations between the MDL and the RL. As a result, the samples are qualified as non-detect ("U").

Table 4-4
Summary of QC Analytical Results — SWMU 88

Sample Identification Location Code Date Sampled		18609-2841 Equipment Rinsate 02/29/00
	Unit	
EPA 8081		
4,4'-DDD	µg/L	.48 U
4,4'-DDE	µg/L	.48 U
4,4'-DDT	µg/L	.096 U
Aldrin	µg/L	.029 U
alpha-BHC	µg/L	.34 U
alpha-Chlordane	µg/L	.77 U
Beta-BHC	µg/L	.22 U
Delta-BHC	µg/L	.23 U
Dieldrin	µg/L	.42 U
Endosulfan I	µg/L	.29 U
Endosulfan II	µg/L	.38 U
Endosulfan sulfate	µg/L	.34 U
Endrin	µg/L	.37 U
Endrin aldehyde	µg/L	.48 U
gamma-BHC	µg/L	.24 U
gamma-Chlordane	µg/L	.36 U
Heptachlor	µg/L	.38 U
Heptachlor epoxide	µg/L	.31 U
Methoxychlor	µg/L	.83 U
Toxaphene	µg/L	1.9 U
EPA 8082		
Aroclor-1016	µg/L	1.9 U
Aroclor-1221	µg/L	1.9 U
Aroclor-1232	µg/L	.96 U
Aroclor-1242	µg/L	.96 U
Aroclor-1248	µg/L	.96 U
Aroclor-1254	µg/L	.96 U
Aroclor-1260	µg/L	.96 U

Table 4-4
Summary of QC Analytical Results — SWMU 88

Explanation:
EPA - United States Environmental Protection Agency
J - estimated
M - Modified
mg/L - milligrams per liter
NA - not analyzed
NE - not established
OHM - OHM Remediation Services Corp.
PRG - Preliminary Remediation Goal, EPA Region IX, October 1999
QC - quality control
RL - reporting limit
U - not detected above or equal to the stated reporting limit
X - result exceeds industrial PRGs
Y - result exceeds residential PRGs
µg/L - micrograms per liter

Appendix A
Historical Information

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

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

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

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

In association with:
International Technology Corporation
CH2M HILL

M. W. Arends 7/16/93
Mike Arends, P.E. Date
CLEAN Project Manager
CH2M HILL, Inc.

Raoul Portillo 15 July 1993
Raoul Portillo Date
CLEAN Technical Reviewer
Jacobs Engineering Group Inc.

Evaluation Form
SWMU/Area of Concern
Number 88

Unit Characteristics

A DSA east of Building 306 was identified in an interview with an employee at MCAS El Toro. There are two storage yards located east of Building 306. The eastern storage yard appeared to by used by the pipe/heat shop and the paint shop. There is a small DSA located in the southwestern corner of the yard, near Storage Shed 1601. There are 55-gallon drums of painting materials stored on an unbermed, asphalt surface. The storage area is covered by tin roofing material. Another small DSA is located near the northwestern corner of Storage Shed 1601 and adjacent to the southwestern facility boundary fence. This area is unpaved with paint stains on the ground. There are two drums of unknown contents stored adjacent to the southwestern fence.

The western storage yard appears to be used by the electrical shop. The entire storage yard is unpaved. There are five transformers and a pallet load of electrical insulation oil stored inside the storage yard. Stains were not observed inside this storage yard.

Waste Characteristics

Paint

Possible Migration Pathways

Surface soil

Evidence of Release

Paint stains observed on unpaved ground

Exposure Potential

On-Station personnel

Recommendations

A sampling visit is recommended for the eastern storage area

Evaluation Form
SWMU/Area of Concern
Number 88

Name: Drum Storage Area

Location: East of Building 306

Size: 144 sq ft

Date of Site Visit: 23 April 1991

Period of Operation

Currently active

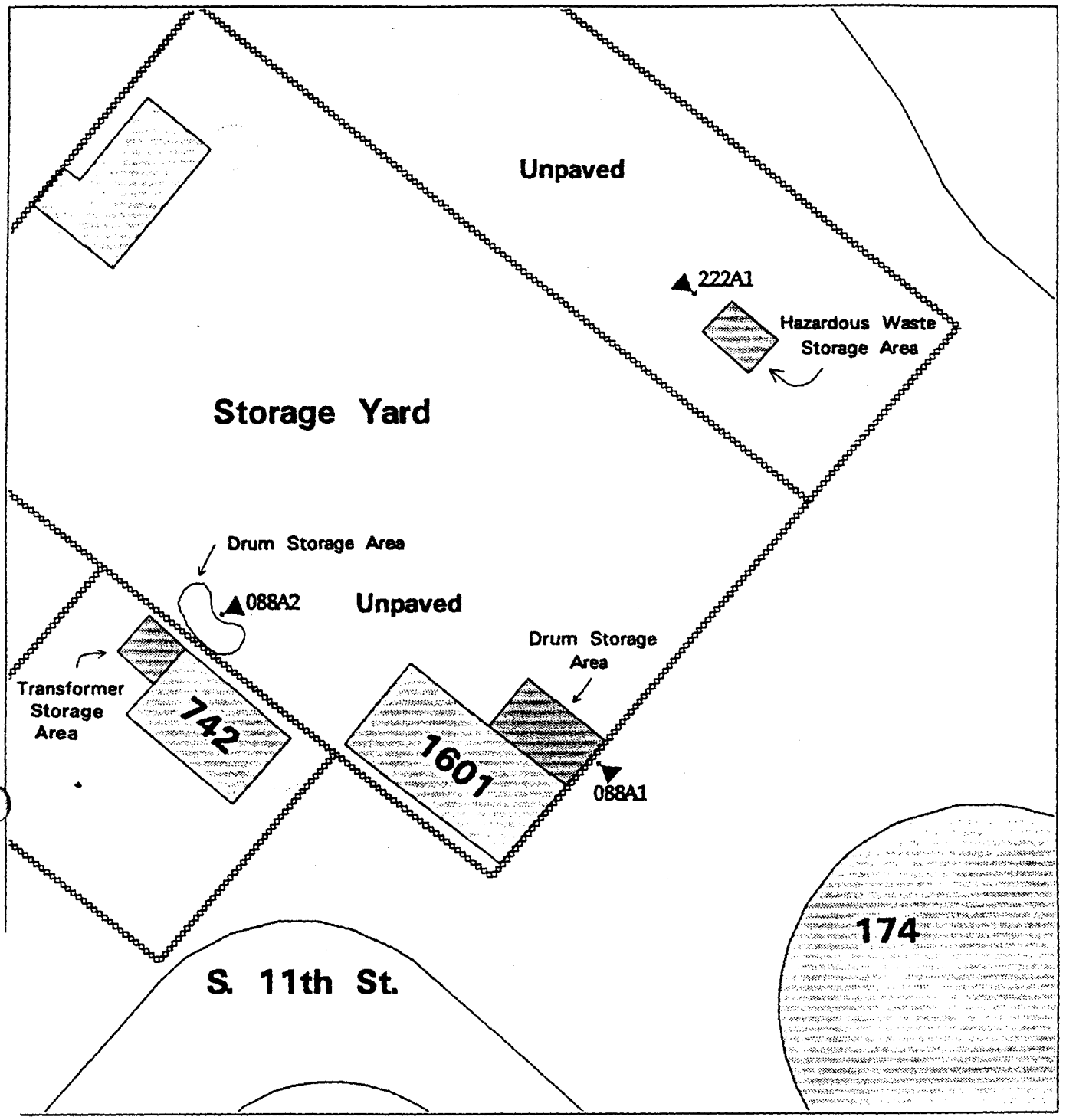


Figure 29 Sample Location Map

Boring Location and Number:

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

Features:

- Building
- Concrete
- Fence
- Railroad

Scale

0 20 40 80 Feet

SWMU/AOC Number and Type:

88 - Drum Storage Area

222 - Hazardous Waste Storage Area

MCAS El Toro
RCRA Facility Assessment

MCAS EL TORO RCRA FACILITY ASSESSMENT -- SAMPLING VISIT RESULTS

SWMU/AOC NUMBER	SWMU/AOC TYPE (FIGURE)	BORING NUMBER	SAMPLE DEPTH (FEET)	ANALYTICAL TEST RESULTS							RECOMMENDATIONS	
				TPH (mg/kg)	TFH (mg/kg)		VOCs (ug/kg)	SVOCs (ug/kg)	PESTICIDES/PCBs (ug/kg)	METALS (mg/kg)	Action	Rationale
					Gasoline	Diesel						
88	Drum Storage Area (29)	A2	10	ND	ND	ND	Methylene Chloride-6 BJ * Toluene-1 J	Diethylphthalate-25 BJ * Di-n-butylphthalate-32 BJ *	Aroclor(1260)-11 J	Barium-3560 Lead-164 Mercury-0 38 Zinc-366	Shallow Soil Boring	TPH/TFH < 100 ppm VOCs < CRDL SVOCs < CRDL Pest/PCB < CRDL Metals < ETM & PRG
			20	ND	ND	ND	Methylene Chloride-6 BJ * Acetone-7 BJ *	Diethylphthalate-35 BJ * Di-n-butylphthalate-43 BJ *	ND	Barium-47 6 Lead-0 76 Mercury-ND Zinc-16.3		
			30	ND	ND	ND	Methylene Chloride-6 BJ *	Di-n-butylphthalate-34 BJ *	ND	Barium-130 Lead-3 1 Mercury-ND Zinc-49 8		CRDL - Contract Required Detection Limit
			40	ND	ND	ND	Methylene Chloride-5 BJ * Acetone-5 BJ *	Diethylphthalate-40 BJ * Di-n-butylphthalate-37 BJ * Bis(2-Ethylhexyl)phthalate-55 J	ND	Barium-20.7 B Lead-0.58 Mercury-ND Zinc-5.8		
			50	ND	ND	ND	Methylene Chloride-5 BJ *	Di-n-butylphthalate-32 BJ *	ND	Barium-86.8 Lead-3 1 Mercury-ND Zinc-43 4		
			60	ND	ND	ND	ND (Missed Holding Time)	Diethylphthalate-47 BJ * Di-n-butylphthalate-40 BJ *	ND	Barium-146 Lead-1.8 Mercury-ND Zinc-26 4		

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

Contract No. N68711-92-D-4670

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY

CLEAN II

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

CTO-0065/0170

May 1996

Prepared by:

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

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

ACCUMULATION AREA EVALUATION CHECKLIST

(CIRCLE AS APPROPRIATE AND FILL IN COMPLETELY)

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

GENERAL DESCRIPTION:

SWMU: **88** Accumulation Area (AA) #: **306**
Location (bldg): **Drum Storage Area/Bldg. 445**
Site Contact: **Leta Suarez** Ext: **2772**
Permission for Access? ~~Y~~ (N) If yes, explain: **N/A**
Type of Wastes Observed **None**

TYPE: (CIRCLE AS APPROPRIATE)

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

CONDITION:

~~Stain(s)~~ ~~Odor(s)~~ Crack(s)
Placards/Labels: (Y) ~~N~~ If Yes, list: **PCB contamination**
Observations: **PCBs detected in shallow soil above PRGs.**
Status: **Sampled by CTO-065, recommended remediation**

DIMENSIONS: (ESTIMATED SIZE OR AREA IN FT)

AA/SWMU: **16x20 Ft.**
"Stain(s)": **None**
Any Restrictions To Access?: **None.**

EVALUATION OF REMOVAL/DECONTAMINATION STRATEGY (CIRCLE AS APPROPRIATE)

(Yes) No Potential for release evident based on this surveillance
Yes (No) Potential for simple removal
(Yes) No Potential for decontamination activities prior to removal
(Yes) No Potential for sampling (describe: **Done by CTO-065**)
Yes No Potential for removal after additional assessment activities

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

DATE/TIME OF SURVEILLANCE: 12-6-94/12:35
UPDATED: 11-10-95/16:00
SURVEILLANCE PERFORMED BY: Larry Bauman

No Photo. This page intentionally left blank.

3.4.2 Results

Twelve soil samples were collected from four locations (046A5 through 046A8) at three depths (8.5 to 9.0, 12.0 to 12.5, and 20.5 to 21.0 feet). In addition, a thirteenth soil sample was collected for geotechnical engineering properties (e.g., grain size, moisture content, and liquid and plastic limits) in anticipation of excavation of the area.

Diesel/gasoline was detected below action criteria in one sample (boring location 046A5, greater than 15 mg/kg and less than 100 mg/kg) at a depth of 20.5 to 21.0 feet. Diesel/gasoline was not detected in the remaining samples taken at shallower depths at this location. Furthermore, diesel/gasoline was not detected at any depth in the remaining boreholes (046A6, 046A7 and 046A8). There is no evidence of contamination at depths below 5 feet in the area of surface contaminated soils. Analyses of samples performed by the off-site laboratory confirm the absence of contamination in the area. A summary of the analytical results and a map of SWMU 46 are shown on Figure 3-5.

A soil sample was collected from boring 046A6 at 8.5 to 9.0 feet for geotechnical analysis (Appendix D). The results report a silty sand with no apparent restrictions to excavation and *ex situ* bioremediation (a remediation technology planned to be operated on-site at MCAS El Toro by the RAC contractor).

3.4.3 Variances

One additional boring (three samples collected and analyzed) was added to the planned program at the discretion of the CTO leader to provide better coverage of the area to the west of the reported surface contamination.

3.4.4 Recommendations

Diesel/gasoline was either not detected or detected below the 750 mg/kg action criteria in a total of 12 samples over an interval from 8.0 to 22.0 feet at SWMU 46. This investigation has shown that surface contamination (diesel) at concentrations of 6,000 mg/kg as reported by Jacobs Engineering (1993), is limited in vertical extent to less than approximately 5 feet. Therefore, it is recommended that this SWMU be transferred to the RAC contractor for very limited removal of surface soils.

3.5 SWMU 88 – DRUM STORAGE AREA; BUILDING 1601

3.5.1 Data Quality Objectives for SWMU 88

The RFA results (Jacobs Engineering 1993) indicated the potential of a PCB release in the 0- to 10-foot interval (11J µg/kg Aroclor 1260 at 10 feet). Additional information above 10 feet and adjacent to location H2 was requested by DTSC. Soil samples were to be collected from one point immediately adjacent to boring H2 at depths of 0.5 (surface sample), 2, 5, and 8 feet. The samples were to be screened for PCBs using an

immunoassay kit. Based upon the screening results, and using decision rules and action levels (discussed in Sections 1.1.1 and 4.1.1 of the FSP [BNI 1995a]) additional soil samples were to be collected from adjacent surface locations. Those additional samples were required to provide sufficient data on the extent of the PCB release to make a recommendation. No other sampling or analyses were planned for this location other than required QA/QC and split sampling for off-site confirmation.

3.5.2 Results

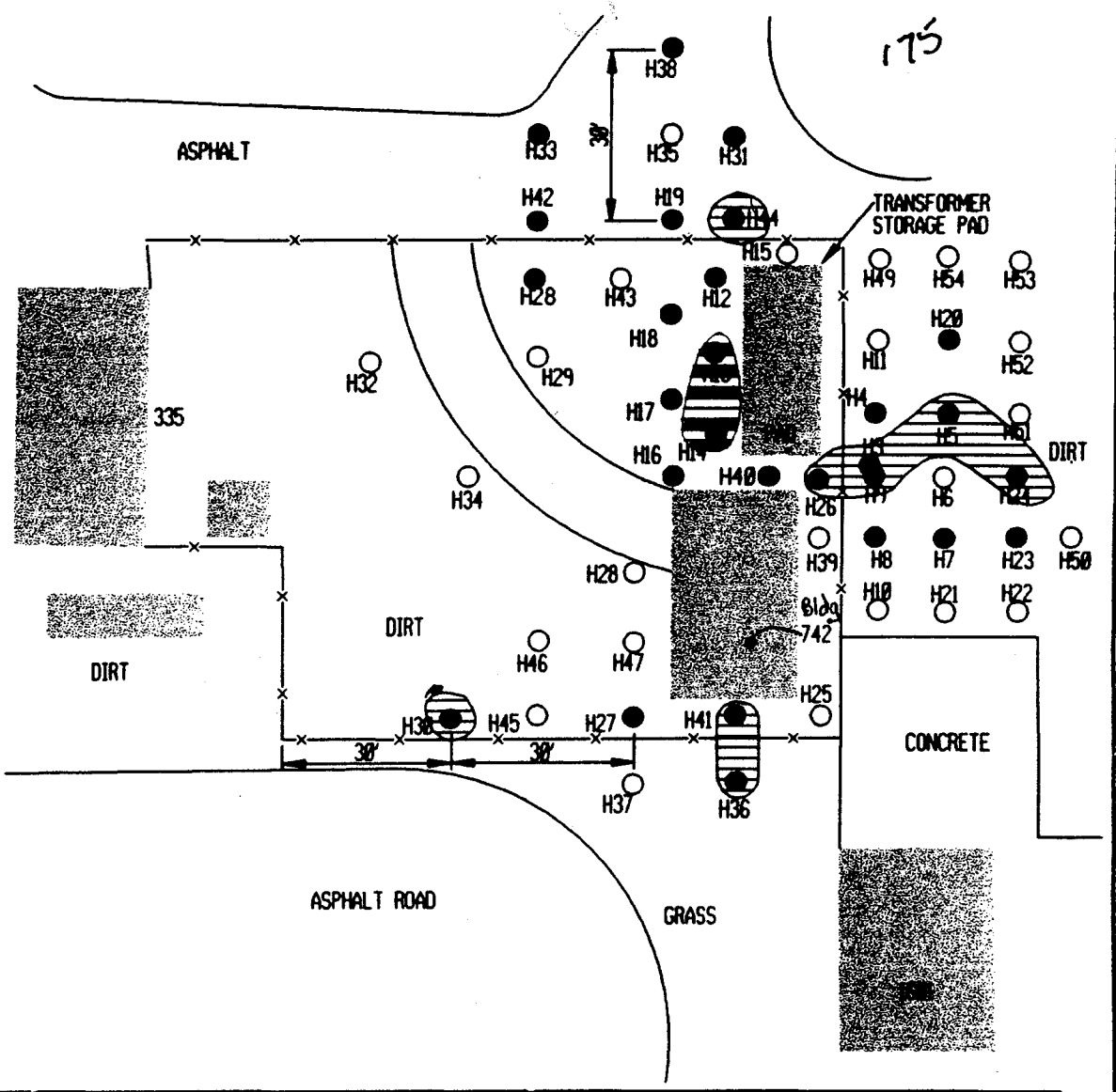
Seventy-four shallow soil samples were collected from 47 locations. Sixty-eight aliquot samples were tested for PCBs in the field using the immunoassay kit; 42 aliquots were tested at the off-site laboratory. Most of the soil samples were collected at or near the surface (typically at 0.5 to 0.6 feet, but also at various other shallow depth intervals (such as composite samples for the intervals 0.5 to 0.8, 0.5 to 1.0, 0.6 to 0.7, 0.6 to 1.1, 0.7 to 1.2, and 1.0 to 1.5 feet). Sixty-four soil samples were collected at shallow depths (0 to 1.5 feet) and ten were collected at deeper intervals: 2.0 to 2.5 feet (eight samples), 5.0 to 5.5 feet (one sample), and 8.0 to 8.5 feet (one sample).

PCBs were not detected by immunoassay in 44 of the aliquots, which includes three false-negatives. PCBs were detected by immunoassay in 24 samples, including two false-positives and two duplicate samples (in both cases PCBs were confirmed by Method 8080 in the duplicate samples). Three of the samples in which PCBs were detected by immunoassay were very close or equivalent to the method detection limit of 200 µg/kg. Thirty-one off-site samples reported PCBs by U.S. EPA Method 8080.

A summary of the results and a map of SWMU 88 is shown on Figure 3-6. The locations where PCBs were detected are on either side of the transformer storage pad and along the adjacent side and the north side of Building 742. At the first location sampled (H3), PCBs were confirmed by method 8080 below 1 foot bgs (2.0 to 2.5 feet and 8.0 to 8.5 feet). PCBs above 200 µg/kg were detected by immunoassay in the shallow sample collected at this location (H3 – 0.5 to 0.6 feet).

Based on the results of the first set of samples, additional field investigation was performed in an effort to generally define the limits of PCB contamination. Four additional sampling rounds were performed: 12-15 June, 22-29 June, 10-12 July, and 24 August. The distribution of elevated PCBs at SWMU 88 defined a contaminated soil volume approximately 120 by 60 by 2.5 feet deep (approximately 500 cubic yards). Hot spot concentrations range up to 16 mg/kg at borehole locations H13 and H14 located just west of the transformer storage pad.

Three false-negative immunoassay results were identified by off-site confirmatory analyses. These false-negative results are attributed to the field sampling method and are not considered to be representative of the accuracy of the immunoassay analysis. During the first three extended sampling rounds, soils were collected using steel drive tubes. Soils to be analyzed by immunoassay were collected from the lower end of the tubes; the tubes were then sealed and shipped to the laboratory for analyses. Sample preparation at



EXPLANATION

AREAS EXCEEDING 340 µg/kg (INDUSTRIAL PRG)

PCBs DETECTED (IMMUNOASSAY AND/OR OFFSITE ABOVE RESIDENTIAL PRGs)

PCBs NOT DETECTED (IMMUNOASSAY OR OFFSITE BELOW PRGs)

NOTE: CLEAN I DETECTED 24J µg/kg PCBs AT 10FT DEPTH AT H3.

EXISTING FEATURES:

742 BUILDING

FENCE

0 30 60

APPROXIMATE GRAPHIC SCALE (FEET)

N

RFA Addendum Final Report

Figure 3-6

Sample Locations and Results - SWMU 88

MCAS El Toro, California

Bechtel National, Inc.
CLEAN II Program

Date: 11/27/95
File No. Fig3-6
Job No. 22214

the laboratory mixed the soils from the tube to attain a representative concentration for the sampled interval. Therefore, if contamination was confined to the upper portion of the sampled interval the field analyses would not report a contaminant exceedance. The field sampling method was changed during the final round of sampling. The whole sample collected in the drive tube was homogenized by mixing prior to splitting for on-site and off-site analyses. Correlation of results between methods were good, with no false-negatives reported, after changing the collection procedure.

3.5.3 Variances

The number of locations and samples were significantly increased to estimate the extent of surface and near-surface PCB contamination in soils. The soil sampling procedure was revised to include homogenization prior to splitting of screening and off-site samples. The change in sampling procedure eliminated false negative results for field screening.

The Work Plan required PCB analysis only for the soil samples collected at SWMU 88. The laboratory subcontractor, however, also ran U.S. EPA Method 8080 (pesticides) for all of the soil samples. Therefore, pesticide results (Appendix D, detected values) are discussed in Section 3.5.4, despite not being a part of the approved scope of work.

3.5.4 Recommendations

SWMU 88 is recommended for transfer to the RAC contractor for remediation of surface and near-surface soils contaminated with PCBs (primarily Aroclor 1254 and 1260). The estimated volume to be removed is approximately 200 cubic yards with contaminant concentrations up to 16 mg/kg. The estimate is based on removal of soils contaminated with PCBs above 1 mg/kg.

Table 3-1 and Figure 3-6 identify the specific soil samples and areas with PCBs over the industrial PRG (340 µg/kg for Aroclor 1260). The vertical extent of PCBs above industrial PRGs is apparently very shallow, but was not investigated thoroughly over the entire area of interest. Confirmation sampling during excavation activities will be required to assure remediation of the area.

Pesticides, including dieldrin, chlordane, dichlorodiphenyldichloroethene (DDE), and dichlorodiphenyltrichloroethane (DDT), were detected at several sample locations at SWMU 88. Four borings had pesticides above PRGs and these same four borings also have PCBs above industrial PRGs (Table 3-2 – locations 088H13, 088H14, and 088H44). Therefore, the pesticides detected above PRGs at SWMU 88 will be addressed with the remediation of the PCBs, and no additional investigation appears to be required.

Table 3-1
Soil Samples with U.S. EPA[a] (Method 8080) PCBs[b] at SWMU[c] 88

Sample	Location	Depth (feet)	Analyte	Result[d] (µg/kg)[e]	Lab Flag
0650178	088H53	0.8 – 1.0	Aroclor 1260	31	J[f]
0650180	088H22	0.8 – 1.0	Aroclor 1260	34	J
0650056	088H42	0.5 – 1.0	Aroclor 1254	40	P[g]
0650177	088H52	0.8 – 1.0	Aroclor 1260	41	
0650032	088H11	0.9 – 1.4	Aroclor 1260	54	
0650031	088H10	1.0 – 1.5	Aroclor 1260	55	
0650181	088H50	0.8 – 1.0	Aroclor 1260	57	
0650176	088H51	0.8 – 1.0	Aroclor 1260	57	
Concentrations above Residential Soil PRGs[h] below this line					
0650084	088H23	0.6 – 1.1	Aroclor 1254	85	P
0650011	088H3	8.0 – 8.5	Aroclor 1260	89	
0650056	088H42	0.5 – 1.0	Aroclor 1260	110	
0650084	088H23	0.6 – 1.1	Aroclor 1260	140	
0650182	088H24	0.8 – 1.0	Aroclor 1254	140	
0650009	088H3	2.0 – 2.5	Aroclor 1260	150	
0650058	088H38	0.7 – 1.2	Aroclor 1260	170	
0650097	088H28	2.0 – 2.5	Aroclor 1260	330	
Concentrations above Industrial Soil PRGs below this line					
0650055	088H30	0.5 – 1.0	Aroclor 1260	370	J
0650087	088H13	2.0 – 2.5	Aroclor 1260	420	
0650184	088H36	0.7 – 1.0	Aroclor 1260	420	
0650182	088H24	0.8 – 1.0	Aroclor 1260	440	
0650064	088H44	0.5 – 1.0	Aroclor 1260	510	
0650083	088H5	0.6 – 1.1	Aroclor 1260	1,000	
0650083	088H5	0.6 – 1.1	Aroclor 1254	1,300	
0650094	088H26	2.0 – 2.5	Aroclor 1260	1,900	
0650026	088H9	0.7 – 1.2	Aroclor 1260	2,200	
0650183	088H13	0.7 – 1.2	Aroclor 1260	2,300	
0650175	088H5	0.8 – 1.0	Aroclor 1260	5,600	D[i]
0650052	088H41	0.6 – 1.1	Aroclor 1260	5,900	DC[j]
0650175	088H5	0.8 – 1.0	Aroclor 1254	10,000	D
0650035	088H13	0.8 – 1.2	Aroclor 1260	13,000	D
0650034	088H14	0.5 – 1.0	Aroclor 1260	16,000	D

(table continues)

Table 3-1 (continued)

Notes:
[a] U.S. EPA – United States Environmental Protection Agency
[b] PCB – polychlorinated biphenyl
[c] SWMU – solid waste management unit
[d] these data are sorted by increasing concentration for any PCB result; only analyses that detected PCBs are shown
[e] µg/kg – micrograms per kilogram
[f] J – estimated
[g] P – 25-percent difference in two-column confirmation by the gas chromatograph
[h] PRG – preliminary remediation goal
[i] D – sample diluted to bring concentration within calibration range limits
[j] C – confirmed

Table 3-2
Soil Samples with Pesticide/PCB[a] Concentrations over Preliminary Remedial Goals (PRGs)[b] at SWMU[c] 88

Location	Sample	Depth (feet)	Analyte	Result (µg/kg)[d]	Lab Flag
088H5	0650083	0.6 – 1.1	Aroclor 1254	1,300	
			Aroclor 1260	1,000	
	0650175	0.8 – 1.0	Dieldrin	110	J[e]P[f]D[g]
			Aroclor 1254		D
			Aroclor 1260	5,600	D
088H13	0650035	0.8 – 1.2	4,4'-DDE[h]	1,200	Y[i]
	0650035		4,4'-DDT[j]	4,100	D
	0650035		Aroclor 1260	13,000	D
	0650087	2.0 – 2.5	Aroclor 1260	420	
	0650183	0.7 – 1.2	4,4'-DDT	1,300	PY
	0650183		Aroclor 1260	2,300	
088H14	0650034	0.5 – 1.0	4,4'-DDE	1,800	Y
			4,4'-DDT	9,500	D
			α-chlordane	470	
			γ-chlordane	520	
			Aroclor 1260	16,000	D
088H44	0650064	0.5 – 1.0	4,4'-DDT	1,500	DC[k]
			Aroclor 1260	510	

Notes:
[a] PCB – polychlorinated biphenyl
[b] residential and industrial soil PRGs, respectively, for the pesticides detected in soil are as follows:

Dieldrin	28 µg/kg	120 µg/kg
4-4'-DDE	1,300 µg/kg	5,600 µg/kg
4,4'-DDT	1,300 µg/kg	5,600 µg/kg
α-chlordane	340 µg/kg	1,500 µg/kg
γ-chlordane	340 µg/kg	1,500 µg/kg

[c] SWMU – solid waste management unit
[d] µg/kg – micrograms per kilogram
[e] J – estimated
[f] P – 25-percent difference in two-column confirmation by the gas chromatograph
[g] D – sample diluted to bring concentration within calibration range limits
[h] DDE – dichlorodiphenyldichloroethene
[i] Y – higher value than calibration range maximum
[j] DDT – dichlorodiphenyltrichloroethane
[k] C – confirmed

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H10
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 1.0 / BEGUN 6-13-9
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,068.45 E 6,108,506.72	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-13-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.61 / N/A /	CHECKED BY:	TOTAL DEPTH 1.5 / UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.6	Depth in Feet	Graphics	Smpl./Recovery	Description and Classification	Remarks:
0 ppm		66	0.5			272.4 271.8 271.6 271.1				0.0 - 0.3 Ft. Silty SAND. (SM); Silty sand with gravel. Brown, damp, fine to medium grained, rounded gravel to 1.25 inches. 0.3 - 0.9 Ft. Silty SAND. (SM/SP); Yellow-brown, damp, fine to medium grained, some coarse grain. 0.9 - 1.5 Ft. Clayey SAND. (SC); Brown, damp to moist, medium dense, fine grained, some medium grains, micaceous, silt. Total Depth: 1.5 Ft.	Sample Number 0650031 1.0 - 1.5' 25 ppm in Jar Sample. Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H10

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H11
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.9 / BEGUN 6-13-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,109.52 E 6,108,464.58	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-13-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 271.98 / N/A /	CHECKED BY:	TOTAL DEPTH 1.4 / UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.0	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
0 ppm		66	0.5			271.5				0.0 - 0.5 Ft. Sandy GRAVEL, (GP/GW); Gray-brown, dry, medium dense, subangular to rounded gravels to 2 inches.	Sample Number
						270.6				0.5 - 1.4 Ft. Silty SAND, (SM); Brown, moist, medium dense, fine to medium grained, mostly fine, micaceous.	0650032 0.9 - 1.4'
										Total Depth: 1.4 Ft.	Hole advanced with a hand auger. Backfilled with spoils.

SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H11

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H11A
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.9 / BEGUN 6-22-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,109.00 E 6,108,464.00	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-22-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 271.98 / /	CHECKED BY:	TOTAL DEPTH 1.4 / UPDATE 4-12-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Sampler Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet (272.0)	Depth in Feet	Graphics	Sampl./recovery	Description and Classification	Remarks: (Template: NAVT)
			0.5			271.5 270.6				0.0 - 0.5 Ft. Sandy GRAVEL, (GP/GW); Gray-brown, dry, medium dense, subangular to rounded gravels to 2 inches. 0.5 - 1.4 Ft. Silty SAND, (SM); Brown, moist, medium dense, fine to medium grained, mostly fine, micaceous. Total Depth: 1.4 Ft. BOREHOLE 088H11A OFFSET FROM 088H11 6/13/95.	Sample Number 0650082 0.5 - 1.0' Hole advanced with a hand auger. Backfilled with spoils.

SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H11A

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H12
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.5 / BEGUN 6-14-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,088.48 E 6,108,438.59	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-14-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 271.21 / N/A /	CHECKED BY:	TOTAL DEPTH 0.8 / UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 271.2	Depth in Feet	Graphics	Smp. /recovery	Description and Classification	Remarks:
0 ppm		100	0.2			270.7 270.5				0.0 - 0.5 Ft. Sandy GRAVEL, (GP/GW); Yellow-brown, dry, moderately dense, angular to rounded gravels to 1.5 inches, fine sand, grades to fine to medium sand with depth. 0.5 - 0.75 Ft. Gravelly SAND, (SP); Yellow-brown, damp to moist, medium dense, fine to medium grained gravels to .75 inch. Total Depth: .8 Ft.	Sample Number 0650036 0.5 - 0.6' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H12

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H13
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.7 / BEGUN 6-14-9
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,077.50 E 6,108,449.99	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-14-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 271.73 / N/A /	CHECKED BY:	TOTAL DEPTH 2.5 / UPDATE 4-17-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 271.7	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks: (Template: NAVY)
0 ppm		90	0.4			271.0 270.6 270.2 269.2				0.0 - 0.7 Ft. Sandy GRAVEL, (GP/GW); Yellow-brown, dry, medium dense, angular to subrounded gravels to 2.0 inches, fine sand, some medium sand, grades to medium with depth. 0.7 - 1.2 Ft. Clayey SAND, (SC); Moist, dense, dark brown, fine to medium grained, high clay content. 1.2 - 1.5 Ft. Clayey SAND, (SC). 1.5 - 2.5 Ft. Sandy CLAY, (CL); Sandy Clay to Clayey Sand. Damp, dark brown, moderate plasticity, fine sand. Total Depth: 2.5 Ft.	Sample Number 0650035 0.8 - 1.2' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H13

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H13A
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.7 / BEGUN 6-14-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,077.00 E 6,108,450.00	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-14-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 271.73	CHECKED BY:	TOTAL DEPTH 1.2 / UPDATE 4-12-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 271.7	Depth in Feet	Graphics	Sampl./recovery	Description and Classification	Remarks: (Template: NAVT)
0 ppm		100	0.5			271.0 270.6				0.0 - 0.7 Ft. Sandy GRAVEL, (GP/GW); Yellow-brown, dry, medium dense, angular to subrounded gravels to 2.0 inches, fine sand, some medium sand, grades to medium with depth. 0.7 - 1.2 Ft. Clayey SAND, (SC); Moist, dense, dark brown, fine to medium grained, high clay content.	Sample Number 0650086 0.7 - 1.2'
										Total Depth: 1.2 Ft.	Hole advanced with a hand auger. Backfilled with spoils.
										BOREHOLE 088H13A OFFSET FROM 088H13 6/14/96.	

SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H13A

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H14
			SHEET NO. 1 OF 1
DRILLER: J. Lear/M McConihe	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.0 / BEGUN 6-14-9
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,067.81 E 6,108,461.11	LOGGED BY: W., McConihe	ROCK (FT) NA / COMPLETED 6-14-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 271.98 / N/A /	CHECKED BY:	TOTAL DEPTH 1.0 / UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.0	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
0 ppm		80	0.5			271.6 271.1 271.0				0.0 - 0.4 Ft. Sandy GRAVEL, (GP/GW); Brown, damp, medium dense, angular to subrounded gravels to 2 inches. 0.4 - 0.9 Ft. Silty SAND, (SM); Dark Brown, damp to moist, medium dense, fine to medium grained, some gravel to .5 inches. 0.9 - 1.0 Ft. Clayey SAND, (SC); Dark gray, moist, dense, fine grained, tan inclusions of sand. Total Depth: 1.0 Ft.	Sample Number 0650034 0.5 - 1.0' Hole advanced with a hand auger. Backfilled with Spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H14

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H15
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.9 / BEGUN 6-14-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,102.80 E 6,108,443.00	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-14-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 271.23 / N/A /	CHECKED BY:	TOTAL DEPTH 0.9 / UPDATE 4-17-96

(Template: NAVI)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 271.2	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
0 ppm		100	0.2			271.0 270.3				0.0 - 0.3 Ft. Silty SAND, (SM); Silty Sand with Gravel. Brown, dry, loose. Fine to medium grained, angular gravels to .75 inch. 0.3 - 0.9 Ft. Silty SAND, (SM); Dark brown, moist, medium dense, fine to medium grained, some clay. Total Depth: 0.9 Ft.	Sample Number 0650037 0.5 - 0.6' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H15

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H16
			SHEET NO. 1 OF 1
DRILLER: J. Lord/J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.7 / BEGUN 6-15-95
DRILL MAKE AND MODEL: Hand Auger	COORDINATES: N 2,190,056.81 E 6,108,457.58	LOGGED BY: W. McCopihe/J. Lord	ROCK (FT) NA / COMPLETED 6-15-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.00 / N/A /	CHECKED BY:	TOTAL DEPTH 0.7 / UPDATE 4-17-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.0	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks: (Template: NAVY)
0 ppm		100	0.1			271.5 271.3				0.0 - 0.5 Ft. Sandy GRAVEL. (GP/GW); Tan-gray, dry to damp, dense, subangular to subrounded gravel to 1.0 inches. 0.5 - 0.7 Ft. Silty SAND. (SM); Silty sand with gravel, brown, damp to moist, medium dense, fine to coarse grained, gravel to .75 inches. Total Depth: 0.7 Ft.	Sample Number 0650041 0.6 - 0.7' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H16

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H17
			SHEET NO. 1 OF 1
DRILLER: W. McConihe	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.7 / BEGUN 6-15-95
DRILL MAKE AND MODEL: Hand Auger	COORDINATES: N 2,190,065.98 E 6,108,449.67	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-15-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 271.45 / N/A /	CHECKED BY:	TOTAL DEPTH 0.7 / UPDATE 4-17-96

(Template: NAVT)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 271.5	Depth in Feet	Graphics	Sampl./recovery	Description and Classification	Remarks:
0 ppm		100	0.1			271.0 270.8				0.0 - 0.5 Ft. Sandy GRAVEL, (GP/GW); Tan-gray, dry to damp, dense, subangular to subrounded gravels to 1.5 inches, fine to medium sand. 0.5 - 0.7 Ft. Gravelly SAND, (SP); Tan-gray, damp, medium dense, fine to medium grained, some coarse grains, gravels to 1.0 inches. Total Depth: 0.7 Ft.	Sample Number 0650039 0.6 - 0.7' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H17

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H18
			SHEET NO. 1 OF 1
DRILLER: J. Lord	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.8 / BEGUN 6-15-9
DRILL MAKE AND MODEL: Hand Auger	COORDINATES: N 2,190,076.86 E 6,108,437.22	LOGGED BY: J. Lord/W. McConihe	ROCK (FT) NA / COMPLETED 6-15-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 271.06 / N/A /	CHECKED BY:	TOTAL DEPTH 0.8 / UPDATE 4-17-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet (271.1)	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks: (Template: NAVI)
0 ppm		100	0.1			270.6 270.5 270.3				0.0 - 0.5 Ft. Sandy GRAVEL, (GP/GW); Tan-gray, dry to damp, dense, subangular to subrounded gravel to 1.0 inch. 0.5 - 0.6 Ft. ASPHALT. 0.6 - 0.8 Ft. Silty SAND, (SM); Silty Sand with gravel, brown, damp to moist, medium dense, fine to coarse grained, gravel to .75 inches. Total Depth: 0.8 Ft.	Sample Number 0650040 0.6 - 0.7' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H18

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H19
			SHEET NO. 1 OF 1
DRILLER: J. Lord	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.7 / BEGUN 6-15-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,086.07 E 6,108,426.68	LOGGED BY: J. Lord / W. McConihe	ROCK (FT) NA / COMPLETED 6-15-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 269.83 / N/A /	CHECKED BY:	TOTAL DEPTH 0.7 / UPDATE 4-12-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Sampler Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 269.8	Depth in Feet	Graphics	Sampl./recovery	Description and Classification	Remarks:
0		100	0.2			269.5 / 269.1				0.0 - 0.3 Ft. SAND, (SW); Light brown, loose, dry, well sorted, some gravel. 0.3 - 0.7 Ft. Silty SAND, (SM); Brown, moist, soft, cohesive, no gravel. Total Depth: 0.7 Ft.	Sample Number 0650042 0.5 - 0.7' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H19

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H20
			SHEET NO. 1 OF 1
DRILLER: J. Lord	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.7 / BEGUN 6-15-9.
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,119.61 E 6,108,476.39	LOGGED BY: W. McConjhe/J. Lord	ROCK (FT) NA / COMPLETED 6-15-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 271.96 / N/A /	CHECKED BY:	TOTAL DEPTH 0.7 / UPDATE 4-17-96

(Template: NAVT)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet (272.0)	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
0		100	0.1			271.9 271.7 271.5 271.3				0.0 - 0.1 Ft. ASPHALT. 0.1 - 0.3 Ft. Sandy GRAVEL, (GM); Brown, moist, dense, silty sand matrix, angular to subrounded 1.5 inch gravels, fine sand. 0.3 - 0.6 Ft. SAND, (SW); Damp to moist, orange-brown, dense, fine to coarse grained, 1.0 inch gravels. 0.6 - 0.7 Ft. Silty Sand, (SM); Brown Native Soil, moist, medium dense, fine grained. Total Depth: 0.7 Ft.	Sample Number 0650043 0.5- 0.6' Note: Layering (Stratification) of Soils. Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H20

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065		HOLE NO. 088H21	SHEET NO. 1 OF 1
DRILLER: J. Lord	SITE and LOCATION: SWMU 88 MCAS EL TORO	FILL (FT) 0.8	BEGUN 6-15-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,082.34 E 6,108,522.89	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-15-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.52 / N/A /	CHECKED BY:	TOTAL DEPTH 0.8 / UPDATE 4-17-96

(Template: NAVT)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.5	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
0		100	0.2			271.9 271.7				0.0 - 0.6 Ft. Sandy GRAVEL, (GP/GW); Orange-brown, dry to damp, angular to subrounded gravels to 1.5 inches, fine to coarse sand, mostly fine to medium sand, asphalt chunk at 2.0 inches. 0.6 - 0.8 Ft. Silty SAND, (SM); Silty Sand with Clay. Native Soil. Brown, moist, very dense, cohesive, fine grained, some medium sand. Total Depth: 0.8 Ft.	Sample Number 0650044 0.5 - 0.6' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H21

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H22
			SHEET NO. 1 OF 1
DRILLER: J. Lord	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.7 / BEGUN 6-15-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,093.64 E 6,108,533.01	LOGGED BY: W. McConihe/J. Lord	ROCK (FT) NA / COMPLETED 6-15-95
BOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.68 / N/A /	CHECKED BY:	TOTAL DEPTH 0.7 / UPDATE 4-17-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet	Depth in Feet	Graphics	Smpl. /recovery	Description and Classification	Remarks: (Template: NAVT)
0		100	0.2			272.7 272.3 272.1 272.0				0.0 - 0.4 Ft. Sandy GRAVEL, (GM); Brown, moist, dense, silty sand matrix, angular to subangular gravels to 1.5 inches, fine sand. 0.4 - 0.6 Ft. Silty SAND, (SM); Damp to moist, orange-brown, dense, fine to coarse grained, gravel to 1.0 inches. 0.6 - 0.7 Ft. Silty SAND, (SM); Native Soil. Brown, moist, medium dense, fine grained. Total Depth: 0.7 Ft.	Sample Number 0650045 0.5 - 0.6' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H22

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H23
			SHEET NO. 1 OF 1
DRILLER: J. Lord	SITE and LOCATION: SWMU 88 MCAS EL TORO	FILL (FT) 1.1	BEGUN 6-15-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,106.03 E 6,108,517.78	LOGGED BY: W. McConjhe/J. Lord	ROCK (FT) NA / COMPLETED 6-15-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.32 / N/A /	CHECKED BY:	TOTAL DEPTH 1.1 / UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.3	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
0		100	0.2			271.8 271.2				0.0 - 0.5 Ft. Sandy GRAVEL, (GP/GW); Tan to light-brown, dry to damp, dense. Angular to subrounded gravels to 2.0 inches, changes to orange-brown below 0.3 feet. 0.5 - 1.1 Ft. Silty SAND, (SM); Brown, damp to moist, dense, fine grained. Total Depth: 1.1 Ft.	Sample Number 065D046 0.5 - 0.6' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H23

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H23A
			SHEET NO. 1 OF 1
DRILLER: J. Lord	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 1.1 / BEGUN 6-15-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,106.00 E 6,108,518.00	LOGGED BY: W. McConihe/J. Lord	ROCK (FT) NA / COMPLETED 6-15-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.32 / /	CHECKED BY:	TOTAL DEPTH 1.1 / UPDATE 4-12-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Sampl Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.3	Depth in Feet	Graphics	Sample/Recovery	Description and Classification	Remarks: (Template: NAVT)
0		100	0.2			271.8 271.2				0.0 - 0.5 Ft. Sandy GRAVEL, (GP/GW); Tan to light-brown, dry to damp, dense. Angular to subrounded gravels to 2.0 inches, changes to orange-brown below 0.3 feet. 0.5 - 1.1 Ft. Silty SAND, (SM); Brown, damp to moist, dense, fine grained. Total Depth 1.1 Ft. BOREHOLE 088H23A OFFSET FROM 088H23	Sample Number 0650984 0.6 - 1.1' Hole advanced with a hand auger. Backfilled with spoils.

SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H23A

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H24
			SHEET NO. 1 OF 1
DRILLER: J. Lord	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.7 / BEGUN 6-15-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,114.24 E 6,108,507.52	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-15-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.30 / N/A /	CHECKED BY:	TOTAL DEPTH 0.7 / UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Sampler Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.3	Depth in Feet	Graphics	Sample/recovery	Description and Classification	Remarks:
0		100	0.2			272.0 271.6				0.0 - 0.3 Ft. Sandy GRAVEL. (GP/GW); Tan to light-brown, dry to damp, dense. Angular to subrounded gravels to 2.0 inches, changes to orange-brown below 4.0 inches. 0.3 - 0.7 Ft. Silty SAND. (SM); Brown, damp to moist, dense, fine grained. Total Depth: 0.7 Ft.	Sample Number 0650047 0.5 - 0.6' Hole advanced with a hand auger. Backfilled with spoils.

SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H24

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H25
			SHEET NO. 1 OF 1
DRILLER: W. McConihe/J. Lord	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 2.5 / BEGUN 6-26-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,048.07 E 6,108,513.52	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-26-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.12 / N/A /	CHECKED BY:	TOTAL DEPTH 2.5 / UPDATE 4-17-96

(Template: NAVT)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.1	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
0		80	0.5			271.6				0.0 - 0.5 Ft. Sandy GRAVEL. (GP/GW); Gray, damp. Angular to subrounded gravels to 0.75 inches, fine to medium sand.	Sample Number 0650091 0.6 - 1.1'
0		100	0.5			269.6				0.5 - 2.5 Ft. Sandy CLAY. (CL); Sandy Clay to Silty Sand. Interbeded, brown, moist, fine to medium grained, micaceous, fining with depth.	0650092 2.0 - 2.5'
										Total Depth: 2.5 Ft.	Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H25

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H26
			SHEET NO. 1 OF 1
DRILLER: J. Lear/W. McConihe	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 2.5 / BEGUN 6-26-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,080.80 E 6,108,477.49	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-26-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 271.86 / N/A /	CHECKED BY:	TOTAL DEPTH 2.5 / UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 271.9	Depth in Feet	Graphics	Smpl. /recovery	Description and Classification	Remarks:
0		100	0.5			271.4				0.0 - 0.5 Ft. Sandy GRAVEL, (GP); Gray, damp, angular gravels to 1.0 inches, fine to medium sand.	Sample Number 0650093 0.5 - 1.0'
0		50	0.5			269.4				0.5 - 2.5 Ft. Silty SAND, (SM); Moist, brown-gray, fine to medium grained, medium dense to loose, micaceous.	0650094 2.0 - 2.5'
										Total Depth: 2.5 Ft.	Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H26

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065		HOLE NO. 088H27	SHEET NO. 1 OF 1
DRILLER: W. McConihe/J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO	FILL (FT) 2.5	BEGUN 6-26-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,025.20 E 6,108,491.04 / LOGGED BY: W. McConihe	ROCK (FT) NA	COMPLETED 6-26-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.14 / N/A / / CHECKED BY:	TOTAL DEPTH 2.5	UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
						272.1					
0		100	0.1			271.8 271.6 269.6				0.0 - 0.3 Ft. Sandy GRAVEL, (GP); Gray, damp, angular gravels to 1.0 inch. Cobbles to 6.0 inches. Fine to medium sand. 0.3 - 0.6 Ft. Silty SAND, (SM); Orange-brown, damp to moist, fine to medium grained, micaceous. 0.6 - 2.5 Ft. Silty SAND, (SM); Damp to moist, brown, medium dense, fine to medium grained, micaceous, occassional gravels. Total Depth: 2.5 Ft.	Sample Number 0650095 0.6 - 0.7' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H27

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H27A
			SHEET NO. 1 OF 1
DRILLER: W. McConihe/J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 2.5 / BEGUN 6-28-95
DRILL MAKE AND MODEL: Hand Auger	COORDINATES: N 2,190,025.00 E 6,108,491.00	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-28-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.14 /	CHECKED BY:	TOTAL DEPTH 2.5 / UPDATE 4-12-96

(Template: NAVT)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Sampler Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet	Depth in Feet	Graphics	Sample No./Recovery	Description and Classification	Remarks:
						272.1					
0		80	0.5			271.6				0.0 - 0.3 Ft. Sandy GRAVEL, (GP); Gray, damp, angular gravels to 1.0 inch. Cobbles to 6.0 inches. Fine to medium sand.	Sample Number 0650053 0.6 - 1.1'
0		100	0.5			269.6				0.3 - 0.6 Ft. Silty SAND, (SM); Orange-brown, damp to moist, fine to medium grained, micaceous.	0650054 2.0 - 2.5'
										0.6 - 2.5 Ft. Silty SAND, (SM); Damp to moist, brown, medium dense, fine to medium grained, micaceous, occassional gravels.	
										Total Depth: 2.5 Ft.	Hole advanced with a hand auger. Backfilled with spoils.
										BOREHOLE 088H27A OFFSET FROM 088H27 6/26/95.	

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H27A

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H28
			SHEET NO. 1 OF 1
DRILLER: J. Lear/W. McConihe	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 2.5 / BEGUN 6-26-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,041.67 E 6,108,469.00	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-26-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.28 / N/A /	CHECKED BY:	TOTAL DEPTH 2.5 / UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.3	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
0		100	0.5			272.0				0.0 - 0.3 Ft. Sandy GRAVEL, (GP/GW); Damp, gray, medium dense, angular gravels to 1.75 inches, fine to medium sand, some silt.	Sample Number 0650096 0.5 - 1.0'
0		100	0.5			270.3 269.9 269.8				0.3 - 2.0 Ft. Silty SAND, (SM); Moist, brown-gray, medium dense, fine to medium grained, micaceous.	0650097 2.0 - 2.5'
										2.0 - 2.5 Ft. SAND, (SW); Damp, brown-gray, fine to medium grained, some mica.	
										2.5 Ft. Clayey SAND, (SC); Damp, medium dense, fine grained, some medium grains	Hole advanced with a hand auger. Backfilled with spoils.
										Total Depth: 2.5 Ft.	

SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H28

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H29
			SHEET NO. 1 OF 1
DRILLER: J. Lear/W. McConihe	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.7 / BEGUN 6-26-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,062.03 E 6,108,434.81	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-26-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 270.98 / N/A /	CHECKED BY:	TOTAL DEPTH 0.7 / UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 271.0	Depth in Feet	Graphics	Smpl./Recovery	Description and Classification	Remarks:
0		100	0.1			270.6 270.3				0.0 - 0.4 Ft. Sandy GRAVEL, (GP); Dry to damp, brown-gray, dense. Angular to subrounded gravels to 1.5 inches, fine to coarse sand, some silt. 0.4 - 0.7 Ft. Silty SAND, (SM); Brown-gray, moist, medium dense, fine to medium grained, mica. Total Depth: 0.7 Ft.	Sample Number 0650098 0.7 - 0.8' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H29

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H3
			SHEET NO. 1 OF 1
DRILLER: J. Lord	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 8.5 / BEGUN 6-7-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,089.47 E 6,108,486.03	LOGGED BY: J. Lord/J. Lear	ROCK (FT) NA / COMPLETED 6-7-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.11 / N/A /	CHECKED BY:	TOTAL DEPTH 8.5 / UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
						272.1					
0 ppm			0.2						■	0.0 - 2.0 Ft. Silty SAND, (SM); Medium grained, brown, micaceous, loose, moist.	Sample Number 0650008 0.5 - 0.6'
						270.2					
0 ppm		75	0.5						■	2.0 - 3.0 Ft. Sandy CLAY, (CL/SC); Sandy Clay to Clayey Sand. Moderately plastic, moist, dark brown.	0650009 2.0 - 2.5'
						267.2	5				
0 ppm		95	0.5						■	3.0 - 6.8 Ft. Silty SAND, (SM); Medium grained, brown, micaceous, slightly plastic, moist, some clay.	0650010 5.0 - 5.5'
						265.3				6.8 - 8.5 Ft. Silty SAND, (SM); Less silt than above, no clay, dry, loose, brown, micaceous.	
0 ppm		95	0.5			263.6			■	Total Depth: 8.5 Ft.	0650011 8.0 - 8.5'

Hole advanced with 3" hand auger.
Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H3

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H30
			SHEET NO. 1 OF 1
DRILLER: W. McConihe	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 1.0 / BEGUN 6-28-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,004.95 E 6,108,466.61	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-28-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.15 / N/A /	CHECKED BY:	TOTAL DEPTH 1.0 / UPDATE 4-17-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.2	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks: (Template: NAVY)
0		60	0.5			271.9 271.2				0.0 - 0.3 Ft. Sandy GRAVEL, (GP); Sandy Gravel to Gravelly Sand. Gray, dry to damp, dense, subangular to subrounded gravels to 1.0 inches, fine to medium sand, some silt. 0.3 - 1.0 Ft. Silty SAND, (SM); Silty Sand to Clayey Sand. Brown, moist, medium dense, fine grained, moist, silt and clay. Total Depth: 1.0 Ft.	Sample Number 0650055 0.5 - 1.0' Hole advanced with a hand auger. Backfilled with spoils.

SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H30

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H31
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 1.1 / BEGUN 7-12-95
DRILL MAKE AND MODEL: Hand Auger	COORDINATES: N 2,190,106.24 E 6,108,423.01	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 7-12-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 270.18 / N/A /	CHECKED BY:	TOTAL DEPTH 1.1 / UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Sampler Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet (270.2)	Depth in Feet	Graphics	Sampl./recovery	Description and Classification	Remarks:
0		100	0.4			269.9 269.2 269.1				0.0 - 0.3 Ft. ASPHALT. 0.3 - 1.0 Ft. Sandy GRAVEL, (GP/GW); Brown (10YR 3/2), damp, subangular to subrounded gravels to 1.0 inches, fine to medium sand, road base for upper 3.0 inches. 1.0 - 1.1 Ft. Silty SAND, (SM); Yellow-brown, damp, fine to medium grained. Total Depth: 1.1 Ft.	Sample Number 0650172 0.7 - 1.1' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H31

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H32
			SHEET NO. 1 OF 1
DRILLER: J. Lear/W. McConihe	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.7 / BEGUN 6-26-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,047.42 E 6,108,421.28	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-26-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 270.30 / N/A /	CHECKED BY:	TOTAL DEPTH 0.7 / UPDATE 4-17-96

(Template: NAVI)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 270.3	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
0		100	0.1			269.8 269.6				0.0 - 0.5 Ft. Sandy GRAVEL, (GP); Brown-gray, dry to damp, dense, angular to subrounded gravels to 1.5 inches, pieces of asphalt. 0.5 - 0.7 Ft. Silty SAND, (SM); Yellow-brown, damp, fine to medium grained. Total Depth: 0.7 Ft.	Sample Number 0650099 0.6 - 0.7' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H32

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H33
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88		FILL (FT) 0.8 / BEGUN 7-12-9
DRILL MAKE AND MODEL: Hand Auger	COORDINATES: N 2,190,089.31 E 6,108,405.53	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 7-12-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 269.65 / N/A /	CHECKED BY:	TOTAL DEPTH 0.8 / UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 269.7	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
0		100	0.1			269.4 269.0 268.9				0.0 - 0.3 Ft. ASPHALT. 0.3 - 0.8 Ft. Sandy GRAVEL, (GM); Brown (10YR 3/2), damp, subangular to subrounded gravels to 1.0 inches, fine to medium sand, road base for upper 3.0 inches. 0.8 Ft. Clayey SAND, (SC); Brown, moist, fine to medium grains. Total Depth: 0.8 Ft.	Sample Number 0650170 0.7 - 0.8' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88	HOLE NO. 088H33

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H34
			SHEET NO. 1 OF 1
DRILLER: J. Lear/W. McConihe	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.8 / BEGUN 7-10-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,049.18 E 6,108,450.40	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 7-10-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 271.79 / N/A /	CHECKED BY:	TOTAL DEPTH 0.8 / UPDATE 4-17-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet (271.8)	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks: (Template: NAVY)
0		100	0.2			271.4 271.2 271.0				0.0 - 0.4 Ft. Sandy GRAVEL, (GP/GW); Brown (10YR 4/4), damp, medium dense, subangular to subrounded gravels to 1.5 inches, fine sand; yellow-brown below 4.0 inches. 0.4 - 0.6 Ft. Silty SAND, (SM); Yellow-brown, fine grained, mica. 0.6 - 0.8 Ft. Clayey SAND, (SC); Brown, damp, fine to medium grained. Total Depth: 0.8 Ft.	Sample Number 0650148 0.6 - 0.8' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H34

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H35
			SHEET NO. 1 OF 1
DRILLER: J.Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 1.0 / BEGUN 7-12-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,097.76 E 6,108,413.81	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 7-12-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 269.81 / N/A /	CHECKED BY:	TOTAL DEPTH 1.0 / UPDATE 4-17-96

(Template: NAVT)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 269.8	Depth in Feet	Graphics	Sample/recovery	Description and Classification	Remarks:
0		100	0.5			269.8 269.0 268.8				0.0 - 0.3 Ft. ASPHALT. 0.3 - 0.8 Ft. Sandy GRAVEL, (GP/GW); Brown (10YR 3/2), damp, subangular to subrounded gravels to 1.0 inches, fine to medium sand, road base for upper 3.0 inches. 0.8 - 1.0 Ft. Clayey SAND, (SC); Brown, moist, fine to medium grain. Total Depth: 1.0 Ft.	Sample Number 0650171 0.5 - 1.0' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H35

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H36
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.6 / BEGUN 6-29-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,025.81 E 6,108,510.83	LOGGED BY: W, McConihe	ROCK (FT) NA / COMPLETED 6-29-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.18 / N/A /	CHECKED BY:	TOTAL DEPTH 0.6 / UPDATE 4-17-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet (272.2)	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks: (Template: NAVT)
0		100	0.1			271.9 271.7 271.6				0.0 - 0.3 Ft. Sandy GRAVEL, (GP); Dry to damp, brown-gray, dense, subangular to subrounded gravels to 4.0 inches, orange-brown below 1.5 inches. 0.3 - 0.5 Ft. Silty SAND, (SM); Silty Sand to Sand. Damp, orange-brown, medium dense, fine to medium grained, some coarse sand, gravels to 0.5 inches. 0.5 - 0.6 Ft. Silty SAND, (SM); Silty Sand to Clayey Sand. Brown, moist, dense, fine grained, some medium sand, micaceous. Total Depth: 0.6 Ft.	Sample Number 0650066 0.5 - 0.6' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H36

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H37
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.6 / BEGUN 6-29-9
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,014.73 E 6,108,499.75	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-29-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.19 / N/A /	CHECKED BY:	TOTAL DEPTH 0.6 / UPDATE 4-17-96

(Template: NAVT)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.2	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
		100	0.1			271.9 / 271.6				0.0 - 0.3 Ft. Sandy GRAVEL, (GP); Dry to damp, brown-gray, dense, subangular to subrounded gravels to 4.0 inches, orange-brown below 1.5 inches.	Sample Number 0650067 0.5 - 0.6'
										0.3 - 0.6 Ft. Silty SAND, (SM); Brown, gray, damp, medium dense, fine to medium grained, some coarse sand, gravels to 0.5 inches.	
										Total Depth: 0.6 Ft.	Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H37

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H38
			SHEET NO. 1 OF 1
DRILLER: J. Lear/W. McConihe	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 2.5 / BEGUN 6-28-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,106.36 E 6,108,405.26	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-28-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 269.66 / N/A /	CHECKED BY:	TOTAL DEPTH 2.5 / UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 269.7	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
						269.0				0.0 - 0.7 Ft. ASPHALT.	Sample Number
0		100	0.5							0.7 - 2.5 Ft. Silty CLAY, (CL); Silty Clay with Sand. Dry to damp, brown, very stiff, moderate plasticity, fine to medium sand, some mica, white carbonate, root-like structures, sandy portions.	0650058 0.7 - 1.2'
0		100	0.5			267.2					0650059 2.0 - 2.5'
										Total Depth: 2.5 Ft.	Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H38

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H39
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.7 / BEGUN 6-27-9
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,070.33 E 6,108,490.06	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-27-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 271.75 / N/A /	CHECKED BY:	TOTAL DEPTH 0.7 / UPDATE 4-17-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 271.8	Depth in Feet	Graphics	Sample/Recovery	Description and Classification	Remarks: (Template: NAVT)
0		100	0.1			271.4 271.1				0.0 - 0.4 Ft. Sandy GRAVEL, (GP); Gray, damp to moist, subangular to rounded gravels to 1.5 inches, fine to coarse sand, some silt. 0.4 - 0.7 Ft. Silty SAND, (SM); Moist, brown-gray, medium dense, fine to medium grained, some mica. Total Depth: 0.7 Ft.	Sample Number 0650049 0.6 - 0.7' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H39

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H4
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.6 / BEGUN 6-12-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,099.46 E 6,108,474.40	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-12-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 271.78 / N/A /	CHECKED BY:	TOTAL DEPTH 1.0 / UPDATE 4-17-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 271.8	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks: (Template: NAVT)
0 ppm		100	0.2			271.6 270.8				0.0 - 0.25 Ft. Sandy GRAVEL, (GP/GW); Gray, dry, angular and subangular gravels to 1.5 inches. 0.25 - 1.0 Ft. Silty SAND, (SM); Gray-brown, moist, moderately dense, fine to medium grained, micaceous. Total Depth: 1.0 Ft.	Sample Number 0650024 0.5 - 1.0' Hole advanced with a hand auger. Backfilled with spoils.

SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H4

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H40
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.8 / BEGUN 6-27-9[illegible]
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,075.10 E 6,108,468.68	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-27-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.40 / N/A /	CHECKED BY:	TOTAL DEPTH 0.8 / UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.4	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
0		100	0.1			272.1 271.6				0.0 - 0.3 Ft. Sandy GRAVEL, (GP); Dry to moist, brown-gray, medium dense, subangular to rounded gravels to 2.0 inches, gravels decrease with depth, some silt.	Sample Number 0650050 0.7 - 0.8'
										0.3 - 0.8 Ft. Silty SAND, (SM); Silty Sand with gravels, moist, brown-gray, medium dense, fine to medium grained, subangular gravels to 0.75 inch.	Hole advanced with a hand auger. Backfilled with spoils.
										Total Depth: 0.8 Ft.	

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H40

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H41
			SHEET NO. 1 OF 1
DRILLER: J. Lear/W. McConihe	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 1.1 / BEGUN 6-28-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,036.60 E 6,108,500.74	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-28-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.26 / N/A /	CHECKED BY:	TOTAL DEPTH 1.1 / UPDATE 4-17-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.3	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks: (Template: NAVY)
		80	0.5			272.0 271.5 271.2				0.0 - 0.3 Ft. Sandy GRAVEL, (GP); Gray-brown, dry, subangular to rounded gravels to 1.5 inches, fine sand, some silt, large gravels to 3.0 inches. 0.3 - 0.5 Ft. Silty SAND, (SM); Damp, orange-brown, medium dense, fine to medium grained, silt. 0.5 - 1.1 Ft. Clayey SAND, (SC); Clayey Sand to Silty Sand. Brown, moist to damp, fine grained, some medium sand, micaceous. Total Depth: 1.1 Ft.	Sample Number 0650052 0.6 - 1.1' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H41

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H42
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 1.0 / BEGUN 6-28-9
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,077.16 E 6,108,418.82	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-28-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 269.60 / N/A /	CHECKED BY:	TOTAL DEPTH 1.0 / UPDATE 4-17-96

(Template: NAVI)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 269.6	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
0		100	0.5			269.4 269.3 268.6				0.0 - 0.2 Ft. Silty SAND, (SM); Gray-brown, dry, loose, fine-grained, some medium, mica. 0.2 - 0.3 Ft. ASPHALT. 0.3 - 1.0 Ft. Clayey SAND, (SC); Clayey Sand with Silty Sand interbeds, damp to moist, brown, fine-grained, some medium, mica. Total Depth: 1.0 Ft.	Sample Number 0650056 0.5 - 1.0' Hole advanced with a hand auger. Backfilled with spoils.

SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H42

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H43
			SHEET NO. 1 OF 1
DRILLER: W. McConihe/J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 1.0 / BEGUN 6-28-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,074.42 E 6,108,429.32	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-28-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 270.62 / N/A /	CHECKED BY:	TOTAL DEPTH 1.0 / UPDATE 4-17-96

(Template: NAVI)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 270.6	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
0		100	0.5			270.4 270.3 269.6				0.0 - 0.2 Ft. Sandy GRAVEL (GP); Gray, damp, subangular to subrounded gravels to 1.0 inches, fine to medium sand, some silt, mica. 0.2 - 0.4 Ft. Asphalt. 0.4 - 1.0 Ft. Clayey SAND (SC); Clayey sand to silty sand. Brown, damp, medium dense, fine to medium grained, mica. Total Depth: 1.0 Ft.	Sample Number 0650057 0.5 - 1.0' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H43

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H44
			SHEET NO. 1 OF 1
DRILLER: J. Lear/W. McConihe	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 1.0 / BEGUN 6-29-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,094.69 E 6,108,434.58	LOGGED BY: J. Lear	ROCK (FT) NA / COMPLETED 6-29-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 270.24 / N/A /	CHECKED BY:	TOTAL DEPTH 1.0 / UPDATE 4-17-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 270.2	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks: (Template: NAVY)
		100	0.5			270.0 269.8 269.2				0.0 - 0.3 Ft. ASPHALT. 0.3 - 0.4 Ft. Sandy GRAVEL, (GP); Brown-gray, dry to damp, dense, subangular to subrounded gravels to 2.0 inches, fine to medium sand mica. 0.4 - 1.0 Ft. Silty SAND, (SM); Brown, moist, medium grained, minor clay, micaceous. Total Depth: 1.0 Ft.	Sample number. 0650064 0.5 - 1.0' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H44

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H45
			SHEET NO. 1 OF 1
DRILLER: J. Lear/W. McConihe	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 1.0 / BEGUN 6-29-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,015.34 E 6,108,480.03	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-29-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.24 / N/A /	CHECKED BY:	TOTAL DEPTH 1.0 / UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.2	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
0		100	0.5			272.0 271.9 271.2				0.0 - 0.2 Ft. Sandy GRAVEL, (GP); Dry to damp, gray, subangular to rounded gravels to 2.5 inches, fine to medium grained, some silt. 0.2 - 0.4 Ft. Silty SAND, (SM); Damp, orange-brown, loose, fine grained, some medium to coarse sand. 0.4 - 1.0 Ft. Silty SAND, (SM); Moist, brown, fine to medium grained, micaceous. Total Depth: 1.0 Ft.	Sample Number 0650061 0.5 - 1.0' Hole advanced with a hand auger. Backfilled with spoils.

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H46
			SHEET NO. 1 OF 1
DRILLER: J. Lear/W. McConihe	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.6 / BEGUN 6-29-9
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,026.36 E 6,108,469.62	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-29-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.15 / N/A /	CHECKED BY:	TOTAL DEPTH 0.6 / UPDATE 4-17-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet	Depth in Feet	Graphics	Sample/recovery	Description and Classification	Remarks: (Template: NAVT)
0		100	0.1			272.2 271.9 271.7 271.6				0.0 - 0.3 Ft. Sandy GRAVEL, (GP); Brown-gray, dry to damp, dense, subangular to rounded gravels to 2.0 inches, fine to medium sand xxx. 0.3 - 0.5 Ft. Silty SAND, (SM); Brown, damp to moist, medium density, fine to medium grained, micaceous, orange-brown sand lenses at 6.0 inches. 0.5 - 0.6 Ft. Sample Interval. Total Depth: 0.6 Ft.	Sample Number 0650063 0.5 - 0.6' Hole advanced with a hand auger. Backfilled with spoils.

SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H46

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H47
			SHEET NO. 1 OF 1
DRILLER: J. Lear/W. McConihe	SITE and LOCATION: SWMU 88 MCAS EL TORO	FILL (FT) 1.0	BEGUN 6-29-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,034.73 E 6,108,479.36	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-29-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.30 / N/A /	CHECKED BY:	TOTAL DEPTH 1.0 / UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.3	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
0		100	0.5			272.0 271.3				0.0 - 0.3 Ft. Sandy GRAVEL, (GP); Brown-gray, dry to damp, dense, subangular to rounded gravels to 2.0 inches, fine to medium sand. 0.3 - 1.0 Ft. Silty SAND, (SM); Brown, damp to moist, medium density, fine to medium grained, micaceous, orange-brown sand lenses at 6.0 inches Total Depth: 1.0 Ft.	Sample Number 0650062 0.5 - 1.0' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H47

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H48
			SHEET NO. 1 OF 1
DRILLER: J. Lear/W. McConihe	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.7 / BEGUN 6-29-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,064.28 E 6,108,421.21	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-29-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 270.40 / N/A /	CHECKED BY:	TOTAL DEPTH 0.7 / UPDATE 4-17-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 270.4	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks:
0		100	0.1			270.3 270.1 269.7				0.0 - 0.1 Ft. Sandy GRAVEL, (GP); Gray, damp, subangular to subrounded gravels to 1.0 inches, fine to medium sand, some silt, mica. 0.1 - 0.3 Ft. Asphalt. 0.3 - 0.7 Ft. Silty SAND, (SM); Brown, moist, medium dense, fine to medium grained, micaceous. Total Depth: 0.7 Ft.	Sample Number 0650065 0.5 - 0.6' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H48

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H49
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.8 / BEGUN 7-12-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,112.50 E 6,108,449.09	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 7-12-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 271.67 / N/A /	CHECKED BY:	TOTAL DEPTH 0.8 / UPDATE 4-17-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 271.7	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks: (Template: NAVY)
0		100	0.3			271.5 271.4 271.1				0.0 - 0.2 Ft. ASPHALT. 0.2 - 0.3 Ft. GRAVEL. (GP/GW); Gravel Base. 0.3 - 0.8 Ft. Silty SAND. (SM); Red-brown, moist, fine grained, mica, some clay. Total Depth: 0.8 Ft.	Sample Number 0650173 0.5 - 0.8' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H49

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H5
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.5 / BEGUN 6-12-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,109.86 E 6,108,485.56	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-12-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.04 / NA /	CHECKED BY:	TOTAL DEPTH 1.3 / UPDATE 4-12-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Sampler Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.0	Depth in Feet	Graphics	Soil/recovery	Description and Classification	Remarks: (Template: NAVY)
0 ppm		80	0.5			271.5 270.7				0.0 - 0.4 Ft. ASPHALT. Old Asphalt with road base. 0.4 - 0.5 Ft. Clayey SAND. (SC); Black, damp, fine-grained, dense, micaceous. 0.5 - 1.3 Ft. Silty SAND. (SM); Moist, moderately dense, fine to medium grained, micaceous. Total Depth: 1.3 Ft.	Sample Number 0650025 0.7 - 1.2' Hole advanced with a hand auger. Backfilled with spoils.

SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H5

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H50
			SHEET NO. 1 OF 1
DRILLER: BNI	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 1.0 / BEGUN 8-24-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,109.86 E 6,108,485.56	LOGGED BY: J. Lord	ROCK (FT) NA / COMPLETED 8-24-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 271.96 / NA /	CHECKED BY:	TOTAL DEPTH 1.0 / UPDATE 4-12-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Sampler Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.0	Depth in Feet	Graphics	Sample/Recovery	Description and Classification	Remarks:
0		100	0.2			271.0				0.0 - 1.0 Ft. Sand & GRAVEL (SW); Fill material, stiff, dry, orange to yellowish brown.	Sample Number 0650181 0.8 - 1.0'
										Total Depth: 1.0 Ft.	Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H50

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H51
			SHEET NO. 1 OF 1
DRILLER: BNI	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 1.0 / BEGUN 8-24-9.
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,120.09 E 6,108,495.86	LOGGED BY: J. Lord	ROCK (FT) NA / COMPLETED 8-24-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.26 / NA /	CHECKED BY:	TOTAL DEPTH 1.0 / UPDATE 4-12-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Sampler Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.3	Depth in Feet	Graphics	Sampl./Recovery	Description and Classification	Remarks: (Template: NAVY)
0		100	0.2			271.9 271.5 271.3				0.0 - 0.4 Ft. ASPHALT. Asphalt and Gravel. 0.4 - 0.8 Ft. SAND. (SW); Coarse fill sand, dark-yellow, loose, dry, stiff. 0.8 - 1.0 Ft. Silty Sand (SM). Dark Brown, humic, silty sand, dry, stiff. Total Depth: 1.0 Ft.	Sample Number 0650176 0.8 - 1.0' Hole advanced with a hand auger. Backfilled with spoils.

SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H51

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H52
			SHEET NO. 1 OF 1
DRILLER: BNI	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 1.0 / BEGUN 8-24-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,129.69 E 6,108,484.44	LOGGED BY: J. Lord	ROCK (FT) NA / COMPLETED 8-24-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.01 / NA /	CHECKED BY:	TOTAL DEPTH 1.0 / UPDATE 4-12-96

(Template: NAVT)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Sampler Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet (272.0)	Depth in Feet	Graphics	Sample No./Recovery	Description and Classification	Remarks:
0		100	0.2			271.6 271.4 271.0				0.0 - 0.4 Ft. Asphalt. Asphalt and Gravel. 0.4 - 0.6 Ft. SAND. (SW); Fill, loose, tan. 0.6 - 1.0 Silty Sand (SM). Dark brown, cohesive, dry, silty sand. Total Depth: 1.0 Ft.	Sample Number 0650177 0.8 - 1.0' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H52

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H53
			SHEET NO. 1 OF 1
DRILLER: BNI	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 1.0 / BEGUN 8-24-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,136.88 E 6,108,475.16	LOGGED BY: J. Lord	ROCK (FT) NA / COMPLETED 8-24-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.15 / NA /	CHECKED BY:	TOTAL DEPTH 1.0 / UPDATE 4-12-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Sampler Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.2	Depth in Feet	Graphics	Sample/Recovery	Description and Classification	Remarks: (Template: NAVY)
0		100	0.2			271.8 271.4 271.2				0.0 - 0.4 Ft. ASPHALT. 0.4 - 0.7 Ft. SAND, (SW); Coarse fill sand, tan, loose, dry. 0.7 - 1.0 Ft. Silty SAND, (SM); Dark brown, humic, silty sand, dry, stiff. Total Depth: 1.0 Ft.	Sample Number 0659178 0.8 - 1.0' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H53

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO.: 088H5A
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT): 1.1 / BEGUN: 6-22-95
DRILL MAKE AND MODEL: Hand Auger	COORDINATES: N 2,190,109.00 E 6,108,485.00	LOGGED BY: W. McConihe	ROCK (FT): NA / COMPLETED: 6-22-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.04 / /	CHECKED BY:	TOTAL DEPTH: 1.1 / UPDATE: 4-12-96

(Template: NAVY)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Sampler Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.0	Depth in Feet	Graphics	Sample/Recovery	Description and Classification	Remarks:
0 ppm		100	0.5			271.5 270.9				0.0 - 0.4 Ft. ASPHALT. Old Asphalt with road base. 0.4 - 0.5 Ft. Clayey SAND. (SC); Black, damp, fine-grained, dense, micaceous. 0.5 - 1.1 Ft. Silty SAND. (SM); Moist, moderately dense, fine to medium grained, micaceous. Total Depth: 1.1 Ft. 088H5A OFFSET FROM 088H5 6/12/95	Sample Number 0650083 0.6 - 1.1' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO.: 088H5A

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H6
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.5 / BEGUN 6-12-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,101.48 E 6,108,496.49	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-12-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.31 / N/A /	CHECKED BY:	TOTAL DEPTH 1.1 / UPDATE 4-17-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.3	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks: (Template: NAVY)
0 ppm		100	0.5			272.0 271.2				0.0 - 0.4 Ft. ASPHALT. Asphalt with road base. 0.4 - 1.1 Ft. Silty SAND. (SM); Brown, moist, medium dense, fine grained, some medium grained. Total Depth: 1.1 Ft.	Sample Number 0650023 0.5 - 1.1' Hole advanced with hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H6

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H7
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.9 / BEGUN 6-13-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,093.42 E 6,108,511.69	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-13-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.52 / NA /	CHECKED BY:	TOTAL DEPTH 1.0 / UPDATE 4-12-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Sampler Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet 272.5	Depth in Feet	Graphics	SAMPLE/RECOVERY	Description and Classification	Remarks: (Template: NAVT)
0 ppm			0.1			271.6 271.5				0.0 - 0.4 Ft. Sandy GRAVEL, (GM); Gray-brown, sub-angular to rounded gravels to 2 inches. 0.4 - 0.6 Ft. Silty SAND, (SM); Tan-orange, dry, medium dense, fine to medium grained. 0.6 - 1.0 Ft. Silty SAND, (SM); Brown, damp, moderately dense, fine to coarse grained, mostly fine grain. Total Depth: 1.0 Ft.	Sample Number Piece of concrete at .5 Ft. 0650030 0.9 - 1.0' Hole advanced with a hand auger. Backfilled with spoils.

SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H7

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H8
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.7 / BEGUN 6-12-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,079.41 E 6,108,497.13	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-12-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.37 / NA /	CHECKED BY:	TOTAL DEPTH 2.5 / UPDATE 4-12-96

(Template: NAVI)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Sampler Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet	Depth in Feet	Graphics	Sampl./recovery	Description and Classification	Remarks:
0 ppm		100	0.3			272.4 272.1 270.1 269.9				0.0 - 0.25 Ft. Sandy GRAVEL, (GM); Gray, dense, angular to subangular gravel to 1.5 xxx 0.25 - 1.0 Ft. Silty SAND, (SM); Damp, yellow-brown, medium dense, fine to medium grained, micaceous. 1.0 - 2.3 Ft. Silty SAND, (SM); Damp, brown, medium dense, fine to medium grained, micaceous. 2.3 - 2.5 Ft. Silty CLAY, (CL). Silty Clay with Sand. Damp, brown, moderate plasticity, fine sand, mica. Total Depth: 2.5 Ft.	Sample Number 0650027 0.7 - 1.0' Hole advanced with a hand auger. Backfilled with spoils.

SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H8

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H8A
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU 88 MCAS EL TORO		FILL (FT) 0.7 / BEGUN 6-22-95
DRILL MAKE AND MODEL: Hand Auger	COORDINATES: N 2,190,079.00 E 6,108,497.00	LOGGED BY: W. McConihe	ROCK (FT) NA / COMPLETED 6-22-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: 272.37 / /	CHECKED BY:	TOTAL DEPTH 2.5 / UPDATE 4-12-96

(Template: NAVI)

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Sampl. Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet (272.4)	Depth in Feet	Graphics	Sampl./Recovery	Description and Classification	Remarks:
0 ppm		100	0.5			272.1 270.1 269.9				0.0 - 0.25 Ft. Sandy GRAVEL. (GM); Gray, dense, angular to subangular gravel to 1.5 xxx 0.25 - 1.0 Ft. Silty SAND. (SM); Damp, yellow-brown, medium dense, fine to medium grained, micaceous. 1.0 - 2.3 Ft. Silty SAND. (SM); Damp, brown, medium dense, fine to medium grained, micaceous. 2.3 - 2.5 Ft. Silty CLAY. (CL). Silty Clay with Sand. Damp, brown, moderate plasticity, fine sand, mica. Total Depth: 2.5 Ft. BOREHOLE 088H8A OFFSET FROM 088H8 6/12/95.	Sample Number 0650085 2.0 - 2.5' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU 88 MCAS EL TORO	HOLE NO. 088H8A

BOREHOLE LOG

PROJECT and JOB NUMBER: Navy Clean II 065			HOLE NO. 088H9
			SHEET NO. 1 OF 1
DRILLER: J. Lear	SITE and LOCATION: SWMU88 MCAS ELTORO 1'-088H3		FILL (FT): 0.7 / BEGUN: 6-12-95
DRILL MAKE AND MODEL: 3" Hand Auger	COORDINATES: N 2,190,089.48 E 6,108,486.03	LOGGED BY: W. McConihe	ROCK (FT): NA / COMPLETED: 6-12-95
HOLE SIZE and/or CORE SIZE/DIAMETER: 3" 3"	GROUND EL. & DEPTH/EL. GROUND WATER: / N/A /	CHECKED BY:	TOTAL DEPTH: 1.2 / UPDATE: 4-17-96

Organic Vapor Reading (ppm)	Core RQD %	Core/Soil Recovery (%)	Core Length/ Smplr Advance	Blow Counts or Recovery (ft)	Core Run No./ Sampler Type	Elevation in Feet	Depth in Feet	Graphics	Smpl./recovery	Description and Classification	Remarks: (Template: NAVY)
0 ppm		100	0.5							0.0 - 0.5 Ft. Sandy Gravel (GP/GW). Gray, dry, dense, angular to subangular gravels to 1.5 inches, fine to coarse sand. 0.5 - 1.2 Ft. Clayey SAND. (SC); Brown, moist, medium dense, fine grained, micaceous, few gravels. Total Depth: 1.2 Ft.	Sample Number 0650026 0.7 - 1.2' Hole advanced with a hand auger. Backfilled with spoils.

	SITE and LOCATION: SWMU88 MCAS ELTORO 1'-088H3	HOLE NO. 088H9

Appendix B
Site Assessment Log

SITE ASSESSMENT LOG

MCAS EL TORO

TEMPORARY ACCUMULATION AREA & RFA SITE

18609, D.O. 70

TAA SITE: 306 RFA SITE: _____ SWMU NO. 88

Field Observations by: D. Rawal **Date:** _____

TAA area: Paved or Unpaved - TAA 306 is a Storage Pad located within SWMU88.

Paved: Concrete or Asphalt, Condition of the Concrete/Asphalt: Minor Cracks, Stains, etc.
No Cracks on the Pad Surface except Some minor Stains,

Unpaved: Open on the Ground or Inside the Building
N/A

Is there any Drums or any types of Waste Stored: Yes/No, If Yes, Describe: None
Asphalt of SWMU 88 RFA & remediation effort- PCB Contaminated soil will be excavated from the Site, TAA 306 is

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

Describe other Structural details: TAA is located within SWMU 88 Site next to Building 742, Sound Concrete Pad with Sump & berm.

TAA Decontamination and/or Demolition Possible: Yes/No Not Applicable

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

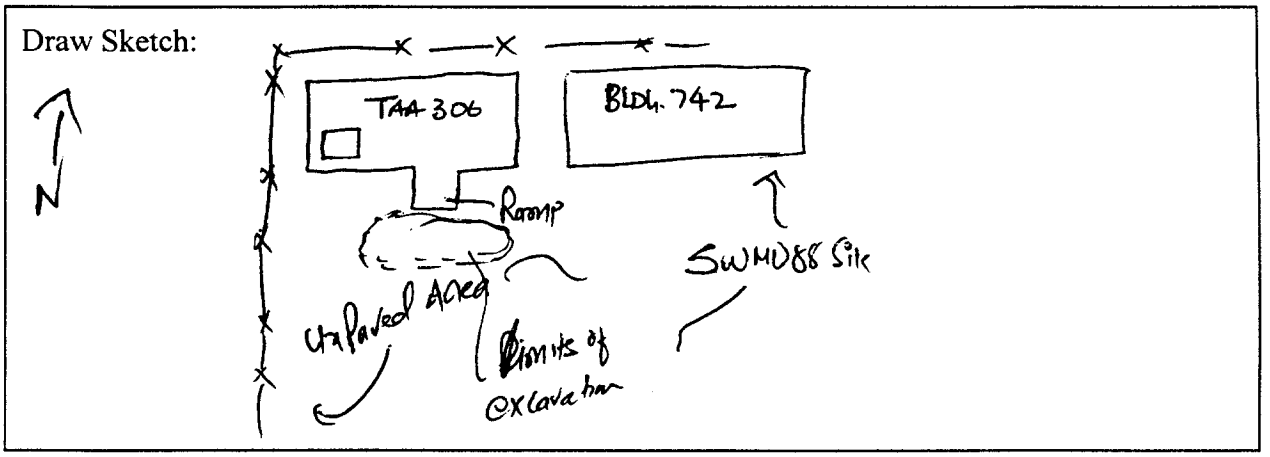
Nearest Building or Structure Distance: Building 742 Appx. 5 to 8 feet

Any Underground Piping/Lines, or Transformer Observed: None

Overhead Utility Lines/Poles: None

Photograph Roll No. 54 Please attach all the Photographs to this sheet.

Draw Sketch:



Appendix C
Waste Manifests and Certificates of Disposal

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA617002320 Manifest Document No. 87262
2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
MCAS El Toro
Caretaker Site Office, P.O. Box 444 East Irvine CA 92650
Attn: Ronald Johnson
4. Generator's Phone (619) 572-1403

A. State Manifest Document Number 99387262
B. State Generator's ID HAHQ36038916

5. Transporter 1 Company Name: MP Environmental Services, Inc.
6. US EPA ID Number: CAT000624247
C. State Transporter's ID [Reserved.]
D. Transporter's Phone (661) 393-1151

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID [Reserved.]
F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management, Inc.
35251 Old Skyline Rd.
Kettleman City, CA 93239
10. US EPA ID Number: CAT000646117
G. State Facility's ID CAT000646117
H. Facility's Phone (559) 386-9711

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Non-RCRA hazardous waste solid	001	CM	00016	Y	State 611 / EPA/Other n/r
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
11a. Profile #DZ4359, soil contaminated with lead (<5.0 mg/l TCLP) and pesticides (>1.0 mg/kg: DDT, DDE, DDD)(not EPA listed), send photocopy of TSDF signed manifest, weight ticket, and certificate of disposal to: Steve Chandler, IT Corporation, 3347 Michelson Dr., Suite 200, Irvine, CA 92612
"All Quantities are Estimates"

K. Handling Codes for Wastes Listed Above
a. 03
b.
c.
d.

15. Special Handling Instructions and Additional Information
Caution: Wear appropriate protective clothing and respiratory protection when handling.
Site pick up address: MCAS El Toro, Site SWMU 88
Bin # 4951

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Scott Kehe
Signature: [signature]
Month 05 Day 01 Year 00

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Gary D. Howard
Signature: Gary D. Howard
Month 05 Day 01 Year 00

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

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name
Signature
Month 05 Day 02 Year 00

DO NOT WRITE BELOW THIS LINE.

GENERATOR — TRANSPORTER — FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

DTSC 8022A (1/99)
EPA 8700—22

Write To: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS
P.O. Box 3000 Sacramento CA 95812

WEIGHT (LB)	TIME	DATE	COMMODITY: HAZARDOUS WASTE
GROSS: 14:15	05/01/00	77160 lb	38.58 ton
15:41	05/01/00	37340 lb	18.67 ton

NET:

YARDAGE: 16

DEPUTY WEIGHMASTER

CHEMICAL WASTE MANAGEMENT, INC.
WEIGHMASTER weighed at
35251 Old Skyline Road
Kettleman City, CA

NO: 156122

WEIGHMASTER CERTIFICATE

This is to certify that the following described commodity was weighed, measured, or counted by a WEIGHMASTER, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by CHAPTER 7 (commencing with § 12700) of Division 5 of the California Business & Professions Code, administered by the Division of Measurement Standards of California Department of Food and Agriculture.

GENERATOR	MANIFEST	PROFILE NO.	SITE DRIVER	SAMPLE TIME:
MCAS El Toro	99387262	D24359		
TRACTOR LICENSE NO.	TRAILER #1 LICENSE NO.	TRAILER #2 LICENSE NO.	DATE	LABORATORY IN:
5P57673				
			START	RECEIVING OUT:
SAMPLE #	BIN #	RECEIPT NO.	FINISH	DRIVER
		57330		
			WASHOUT METER FINISH	TRANSPORTER
			START GALLONS USED	RELEASING SIGNATURE

MANDATORY ANALYSIS – ALL WASTES

PHYSICAL STATE	SOLID	LIQUID	
APPEARANCE			
pH	Wg #9		
WATER MIX	ΔT=°F		SOL
FLAM POTENTIAL	NEG	POS	
CN-SCREEN	NEG	POS	PPM
S= SCREEN	NEG	POS	PPM
OXIDIZER	NEG	POS	
RADIO SCREEN	BKGD	POS	
ANALYST			

SUPPLEMENTAL ANALYSIS – TREATED WASTES

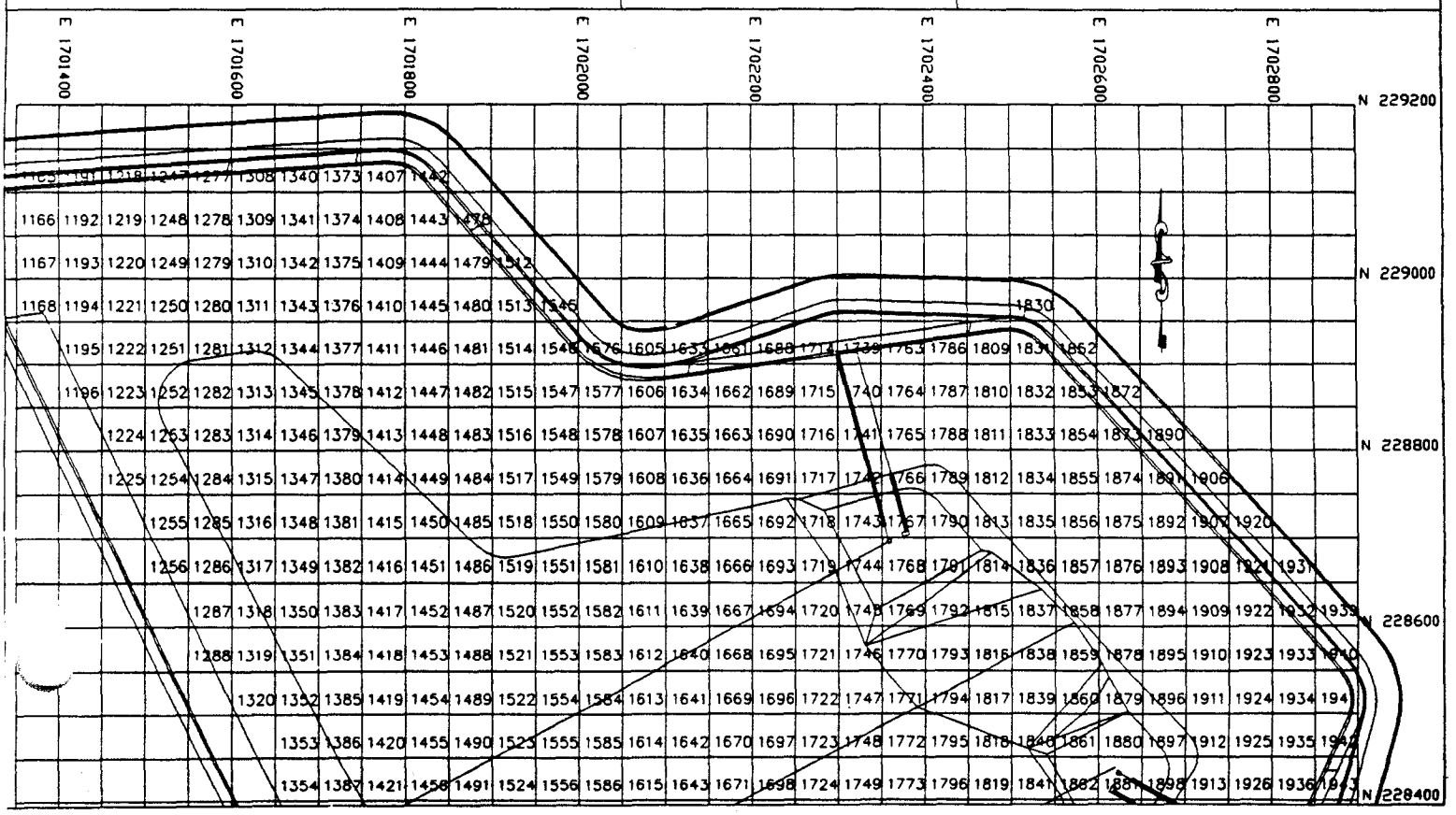
PAINT FILTER TEST	NA	PASS	FAIL	
VISIBLE OIL	NEG	POS		%
PCB SCREEN	NA ND	POS		PPM
PERCENT SOLID				
DENSITY				LBS/GAL
CALCULATED QTY				
LWCT	ΔT =			°F
SET	ΔT =			°F
> 50% DEBRIS	YES	NO		
> 60 MM	YES	NO		
< 6.75 FT.	YES	NO		
CAN MAJORITY OF WASTE BE COATED ON ALL SIDES	YES	NO	INIT.	

MULTIPLE LOAD #	DATE
SEE MANIFEST	
	GRID POINT
PROFILE EXPIRATION	
TREATMENT CODE / UNIT	ELEVATION
TIME OUT	TIME
REC. TECH.	AM/PM

LANDFILL UNIT B-18 PHASE II
NORTH GRID SHEET

Point numbers identify grid location at lower corner of grid box.
EXAMPLE: 1402

ADDITIONAL INFORMATION
TSKU 5.1



CHEMICAL WASTE MANAGEMENT, INC.
KETTLEMAN HILLS FACILITY
Federal EPA ID: CAT000646117
State EPA ID: CAT000646117
35251 OLD SKYLINE ROAD
P.O. BOX 471
KETTLEMAN CITY, CA 93239
(559) 386-9711

MCAS EL TORO
ATTN: MANIFEST SECTION
CA6170023208
P.O. BOX 444
EAST IRVINE CA 92650

CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. has received waste material from MCAS EL TORO on 05/01/00 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0099387262 Sequence number 01.

Profile Number: DZ4359
CWM Tracking ID: 009938726201
Process: LANDFILL
Treatment Date: 05/01/00

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Tracy Reddick

Certificate # 57816
05/04/00

Please contact
Tracy Reddick
(559) 386-6210 with any
questions.

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA617002320 8 Manifest Document No. 97263
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
MCAS El Toro
Caretaker Site Office, P.O. Box 444 East Irvine CA 92650
Attn: Ronald Johnson
4. Generator's Phone (619) 572-1403

A. State Manifest Document Number 99387263
B. State Generator's ID HAHQ36038916

5. Transporter 1 Company Name: MP Environmental Services, Inc.
6. US EPA ID Number: CAT000624247
C. State Transporter's ID [Reserved.]
D. Transporter's Phone (661) 393-1151

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID [Reserved.]
F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management, Inc.
35251 Old Skyline Rd.
Kettleman City, CA 93239
10. US EPA ID Number: CAT000646117
G. State Facility's ID CAT000646117
H. Facility's Phone (559) 386-9711

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Non-RCRA hazardous waste solid	001	CM	00016	Y	State 611 / EPA/Other n/r
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
11a. Profile #DZ4359, soil contaminated with lead (<5.0 mg/l TCLP) and pesticides (>1.0 mg/kg: DDT, DDE, DDD)(not EPA listed), send photocopy of TSDF signed manifest, weight ticket, and certificate of disposal to: Steve Chandler, IT Corporation, 3347 Michelson Dr., Suite 200, Irvine, CA 92612
"All Quantities are Estimates"

K. Handling Codes for Wastes Listed Above
a. 03 b. c. d.

15. Special Handling Instructions and Additional Information
Caution: Wear appropriate protective clothing and respiratory protection when handling. bin 4568
Site pick up address: MCAS El Toro, Site SWMU 88

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Scott Kehs — Signature: [signature] — Month 05 Day 01 Year 00

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: William Schweitzer — Signature: William Schweitzer — Month 05 Day 01 Year 00

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

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: [signature] — Signature: [signature] — Month 05 Day 01 Year 00

DO NOT WRITE BELOW THIS LINE.

GENERATOR

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

99387263

DTSC 8022A (1/99)
EPA 8700—22

Write To: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS P.O. Box 3000 Sacramento CA 95812

WEIGHT (LB)	TIME	DATE	
GROSS: 13	05/01/00	76520 lb	38.26 ton
15:37	05/01/00	34900 lb	17.45 ton

NET:

YARDAGE: 16

COMMODITY: HAZARDOUS WASTE

DEPUTY WEIGHMASTER

CHEMICAL WASTE MANAGEMENT, INC.
WEIGHMASTER weighed at
35251 Old Skyline Road
Kettleman City, CA

NO: 156121

WEIGHMASTER CERTIFICATE

This is to certify that the following described commodity was weighed, measured, or counted by a WEIGHMASTER, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by CHAPTER 7 (commencing with § 12700) of Division 5 of the California Business & Professions Code, administered by the Division of Measurement Standards of California Department of Food and Agriculture.

GENERATOR	MANIFEST	PROFILE NO.	SITE DRIVER	SAMPLE TIME:
MCAS EL TORO	99387263	D24359		
TRACTOR LICENSE NO.	TRAILER #1 LICENSE NO.	TRAILER #2 LICENSE NO.	DATE	LABORATORY IN:
9A9872 6			START	RECEIVING OUT:
SAMPLE #	BIN #	RECEIPT NO.	FINISH	DRIVER
		27328	WASHOUT METER	TRANSPORTER
			FINISH	
			START	RELEASING SIGNATURE
			GALLONS USED	

MANDATORY ANALYSIS – ALL WASTES

PHYSICAL STATE	SOLID	LIQUID	
APPEARANCE			
pH	#9		
WATER MIX	ΔT=°F		SOL
FLAM POTENTIAL	NEG	POS	
CN-SCREEN	NEG	POS	PPM
S= SCREEN	NEG	POS	PPM
OXIDIZER	NEG	POS	
RADIO SCREEN	BKGD	POS	
ANALYST			

SUPPLEMENTAL ANALYSIS – TREATED WASTES

PAINT FILTER TEST	NA	PASS	FAIL	
VISIBLE OIL	NEG	POS		%
PCB SCREEN	NA ND	POS		PPM
PERCENT SOLID				
DENSITY				LBS/GAL
CALCULATED QTY				
LWCT	ΔT =			°F
SET	ΔT =			°F
> 50% DEBRIS	YES	NO		
> 60 MM	YES	NO		
< 6.75 FT.	YES	NO		
CAN MAJORITY OF WASTE BE COATED ON ALL SIDES	YES	NO	INIT	

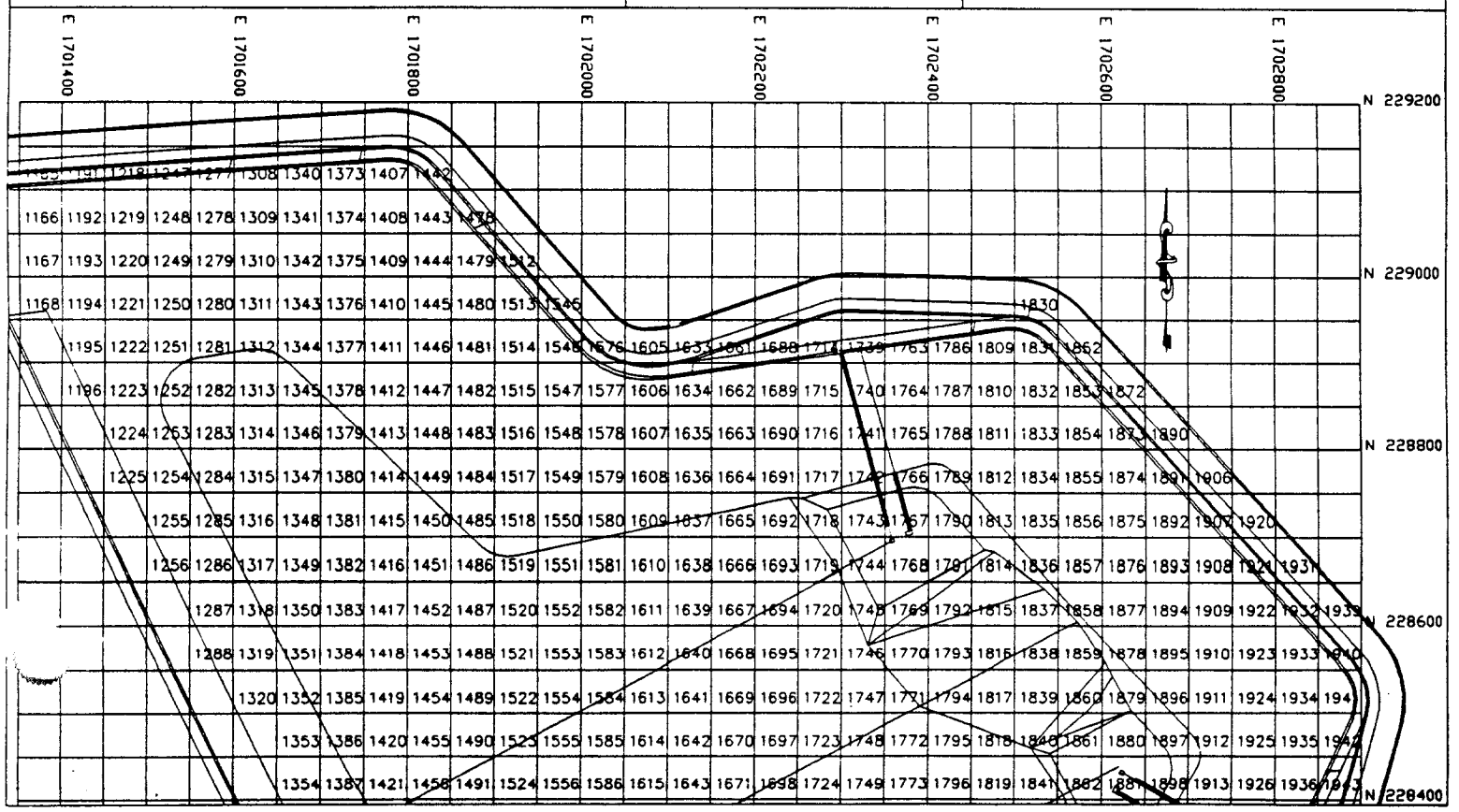
MULTIPLE LOAD #	
SEE MANIFEST	
PROFILE EXPIRATION	5/01
TREATMENT CODE	UNIT
TIME OUT	
REC. TECH.	

DATE	
GRID POINT	
ELEVATION	
TIME	AM/PM

LANDFILL UNIT B-18 PHASE II
NORTH GRID SHEET

Point numbers identify grid location at lower corner of grid box.
EXAMPLE: 1402

ADDITIONAL INFORMATION
DEAD SOIL



CHEMICAL WASTE MANAGEMENT, INC.
KETTLEMAN HILLS FACILITY
ederal EPA ID: CAT000646117
State EPA ID: CAT000646117
35251 OLD SKYLINE ROAD
P.O. BOX 471
KETTLEMAN CITY, CA 93239
(559) 386-9711

MCAS EL TORO
ATTN: MANIFEST SECTION
CA6170023208
P.O. BOX 444
EAST IRVINE CA 92650

CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. has received waste material from MCAS EL TORO on 05/01/00 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0099387263 Sequence number 01.

Profile Number: DZ4359
CWM Tracking ID: 009938726301
Process: LANDFILL
Treatment Date: 05/01/00

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Tracy Reddick

Certificate # 57817
05/04/00

Please contact
Tracy Reddick
(559) 386-6210 with any
questions.

State of California Environmental Protection Agency
Form Approved MB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter

See instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA6170023208 — Manifest Document No. 87264
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
MCAS El Toro
Caretaker Site Office, P.O. Box 444 East Irvine CA 92650
Attn: Ronald Johnson (619) 572-1403

A. State Manifest Document Number 99387264
B. State Generator's ID HAHQ36038916

5. Transporter 1 Company Name: MP Environmental Services, Inc
6. US EPA ID Number: CAT000624247
C. State Transporter's ID [Reserved.]
D. Transporter's Phone (661) 393-1151

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID [Reserved.]
F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management, Inc.
35251 Old Skyline Rd.
Kettleman City, CA 93239
10. US EPA ID Number: CAT000646117
G. State Facility's ID CAT000646117
H. Facility's Phone (559) 386-9711

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Non-RCRA hazardous waste solid	001	CM	00016	Y	State 611; EPA/Other n/r
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above
11a. Profile #DZ4359, soil contaminated with lead (<5.0 mg/l TCLP) and pesticides (>1.0 mg/kg: DDT, DDE, DDD)(not EPA listed), send photocopy of TSDF signed manifest, weight ticket, and certificate of disposal to: Steve Chandler, IT Corporation, 3347 Michelson Dr., Suite 200, Irvine, CA 92612

K. Handling Codes for Wastes Listed Above
a. 03
b.
c.
d.

All Quantities are Estimates

Special Handling Instructions and Additional Information

Bin # 4692

Caution: Wear appropriate protective clothing and respiratory protection when handling.

Site pick up address: MCAS El Toro, Site SWMU 88

S.O.# C1747666

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: SCOTT KEHE — Signature: [signature] — Month 05 Day 01 Year 00

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DERAY Mitchell — Signature: Deray Mitchell — Month 05 Day 01 Year 00

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

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: [signature] — Signature: [signature] — Month 05 Day 01 Year 00

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

GENERATOR

DTSC 8022A (1/99)
EPA 8700-22

Write To: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS
P.O. Box 3000 Sacramento CA 95812

	TIME	DATE		
GROSS	14:27	05/01/00	77800 lb	38.90 ton
TARE	15:38	05/01/00	35080 lb	17.54 ton

NET:

YARDAGE: 16

COMMODITY: HAZARDOUS WASTE

DEPUTY WEIGHMASTER

CHEMICAL WASTE MANAGEMENT, INC.
WEIGHMASTER weighed at
35251 Old Skyline Road
Kettleman City, CA

NO: 156128

WEIGHMASTER CERTIFICATE

This is to certify that the following described commodity was weighed, measured, or counted by a WEIGHMASTER, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by CHAPTER 7 (commencing with § 12700) of Division 5 of the California Business & Professions Code, administered by the Division of Measurement Standards of California Department of Food and Agriculture.

GENERATOR	MANIFEST	PROFILE NO.	SITE DRIVER	SAMPLE TIME:
MCAS El Toro	99387264	D24357		
TRACTOR LICENSE NO.	TRAILER #1 LICENSE NO.	TRAILER #2 LICENSE NO.	DATE	LABORATORY IN:
9C25847				
			START	RECEIVING OUT:
SAMPLE #	BIN #	RECEIPT NO. 452337	FINISH	DRIVER
			WASHOUT METER	
			FINISH	TRANSPORTER
			START	
			GALLONS USED	RELEASING SIGNATURE

MANDATORY ANALYSIS – ALL WASTES

PHYSICAL STATE	SOLID	LIQUID
APPEARANCE		
pH	WAP#9	
WATER MIX	Δ T=°F	SOL
FLAM POTENTIAL	NEG	POS
CN-SCREEN	NEG	POS PPM
S= SCREEN	NEG	POS PPM
OXIDIZER	NEG	POS
RADIO SCREEN	BKGD	POS
ANALYST		

SUPPLEMENTAL ANALYSIS – TREATED WASTES

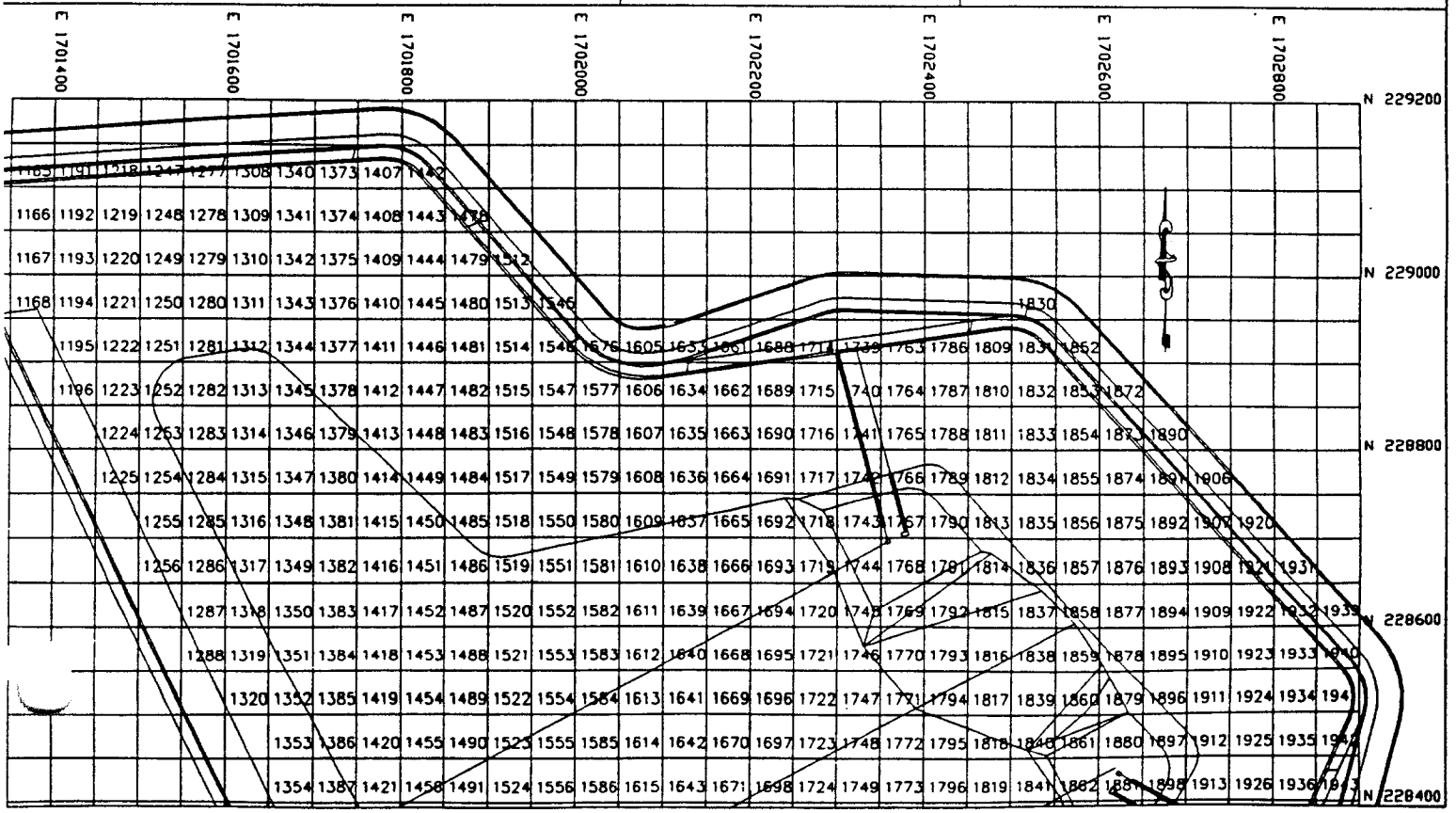
PAINT FILTER TEST	NA	PASS	FAIL
VISIBLE OIL	NEG	POS	%
PCB SCREEN	NA ND	POS	PPM
PERCENT SOLID			
DENSITY	LBS/GAL		
CALCULATED QTY			
LWCT	Δ T = °F		
SET	Δ T = °F		
> 50% DEBRIS	YES	NO	
> 60 MM	YES	NO	
< 6.75 FT.	YES	NO	
CAN MAJORITY OF WASTE BE COATED ON ALL SIDES	YES	NO	INIT.

MULTIPLE LOAD #		DATE	
SEE MANIFEST		GRID POINT	
PROFILE EXPIRATION	5/01	ELEVATION	
TREATMENT CODE	UNIT		
TIME OUT	2:40	TIME	AM/PM
REC. TECH.			

LANDFILL UNIT B-18 PHASE II
NORTH GRID SHEET

Point numbers identify grid location at lower corner of grid box.
EXAMPLE: 1402

ADDITIONAL INFORMATION
BRN Soil



CHEMICAL WASTE MANAGEMENT, INC.
KETTLEMAN HILLS FACILITY
Federal EPA ID: CAT000646117
State EPA ID: CAT000646117
35251 OLD SKYLINE ROAD
P.O. BOX 471
KETTLEMAN CITY, CA 93239
(559) 386-9711

DRMO-EL TORO MCAS
ATTN: MANIFEST SECTION
CA6170023208
PO BOX 444
EAST IRVINE CA 92650

CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. has received waste material from DRMO-EL TORO MCAS on 05/01/00 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0099387264 Sequence number 01.

Profile Number: DZ4359
CWM Tracking ID: 009938726401
Process: LANDFILL
Treatment Date: 05/01/00

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Tracy Reddick

Certificate # 57833
05/05/00

Please contact
Tracy Reddick
(559) 386-6210 with any
questions.

State of California - Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: CA617002308
Manifest Document No: 87266
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
MCAS El Toro
Caretaker Site Office, P.O. Box 444 East Irvine CA 92650
Attn: Roger Johnson
Generator's Phone: (949) 572-1403

A. State Manifest Document Number: 99387266
B. State Generator's ID: HAHQ360038916

5. Transporter 1 Company Name: MP Environmental Services, Inc
6. US EPA ID Number: CAT000624247
C. State Transporter's ID [Reserved.]
D. Transporter's Phone: (661) 393-1151

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID [Reserved.]
F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management, Inc
35251 Old Skyline Rd.
Kettleman City CA 93239
10. US EPA ID Number: CAT000646117
G. State Facility's ID: CAT000646117
H. Facility's Phone: (559) 386-9711

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Non-RCRA hazardous waste solid	001	CM	00016	Y	State: 611; EPA/Other: n/r
b.					State: ; EPA/Other:
c.					State: ; EPA/Other:
d.					State: ; EPA/Other:

J. Additional Descriptions for Materials Listed Above
11a. Profile #DZ4359, soil contaminated with lead (<5.0 mg/l TCLP) and pesticides (>1.0 mg/kg: DDT, DDE, DDD)(not EPA listed), send photocopy of TSDF signed manifest, weight ticket, and certificate of disposal to: Steve Chandler, IT Corporation, 3347 Michelson Dr., Suite 200, Irvine, CA 92612
All Quantities are Estimates.

K. Handling Codes for Wastes Listed Above
a. 03
b.
c.
d.

15. Special Handling Instructions and Additional Information
Caution: Wear appropriate protective clothing and respiratory protection when handling.
Site pick up address: MCAS El Toro, Site SWMU 88 BIN # 5052

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Scott Kelly
Signature:
Month 05 Day 01 Year 00

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Randy Mathews
Signature:
Month 05 Day 01 Year 00

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

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name
Signature
Month 05 Day 01 Year 00

DO NOT WRITE BELOW THIS LINE.

GENERATOR — TRANSPORTER — FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

DTSC 8022A (1/99)
EPA 8700-22

WEIGHT (LB)	TIME	DATE
GROSS:		
4:17	05/01/00	79700 lb 39.85 ton
5:40	05/01/00	36860 lb 18.43 ton
NET:		
YARDAGE: 16		

COMMODITY: HAZARDOUS WASTE

DEPUTY WEIGHMASTER

CHEMICAL WASTE MANAGEMENT, INC.
WEIGHMASTER weighed at
39251 Old Skyline Road
Kettleman City, CA

NO: 156124

WEIGHMASTER CERTIFICATE

This is to certify that the following described commodity was weighed, measured, or counted by a WEIGHMASTER, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by CHAPTER 7 (commencing with § 12700) of Division 5 of the California Business & Professions Code, administered by the Division of Measurement Standards of California Department of Food and Agriculture.

GENERATOR	MANIFEST	PROFILE NO.
MCAS El Toro	99387266	D24359
TRACTOR LICENSE NO.	TRAILER #1 LICENSE NO.	TRAILER #2 LICENSE NO.
5P75758		

SAMPLE #	BIN #	RECEIPT NO.

SITE DRIVER
DATE
START
FINISH
WASHOUT METER
FINISH
START
GALLONS USED

SAMPLE TIME:
LABORATORY IN:
RECEIVING OUT:
DRIVER
TRANSPORTER
RELEASING SIGNATURE

MANDATORY ANALYSIS - ALL WASTES

PHYSICAL STATE	SOLID	LIQUID
APPEARANCE		
pH		
WATER MIX	Δ T=°F	SOL
FLAM POTENTIAL	NEG	POS
CN-SCREEN	NEG	POS PPM
S= SCREEN	NEG	POS PPM
OXIDIZER	NEG	POS
RADIO SCREEN	BKGD	POS
ANALYST		

SUPPLEMENTAL ANALYSIS - TREATED WASTES

PAINT FILTER TEST	NA	PASS	FAIL
VISIBLE OIL	NEG	POS	%
PCB SCREEN	NA ND	POS	PPM
PERCENT SOLID			
DENSITY			LBS/GAL
CALCULATED QTY			
LWCT	Δ T =		°F
SET	Δ T =		°F
> 50% DEBRIS	YES	NO	
> 60 MM	YES	NO	
< 6.75 FT.	YES	NO	
CAN MAJORITY OF WASTE BE COATED ON ALL SIDES	YES	NO	INIT.

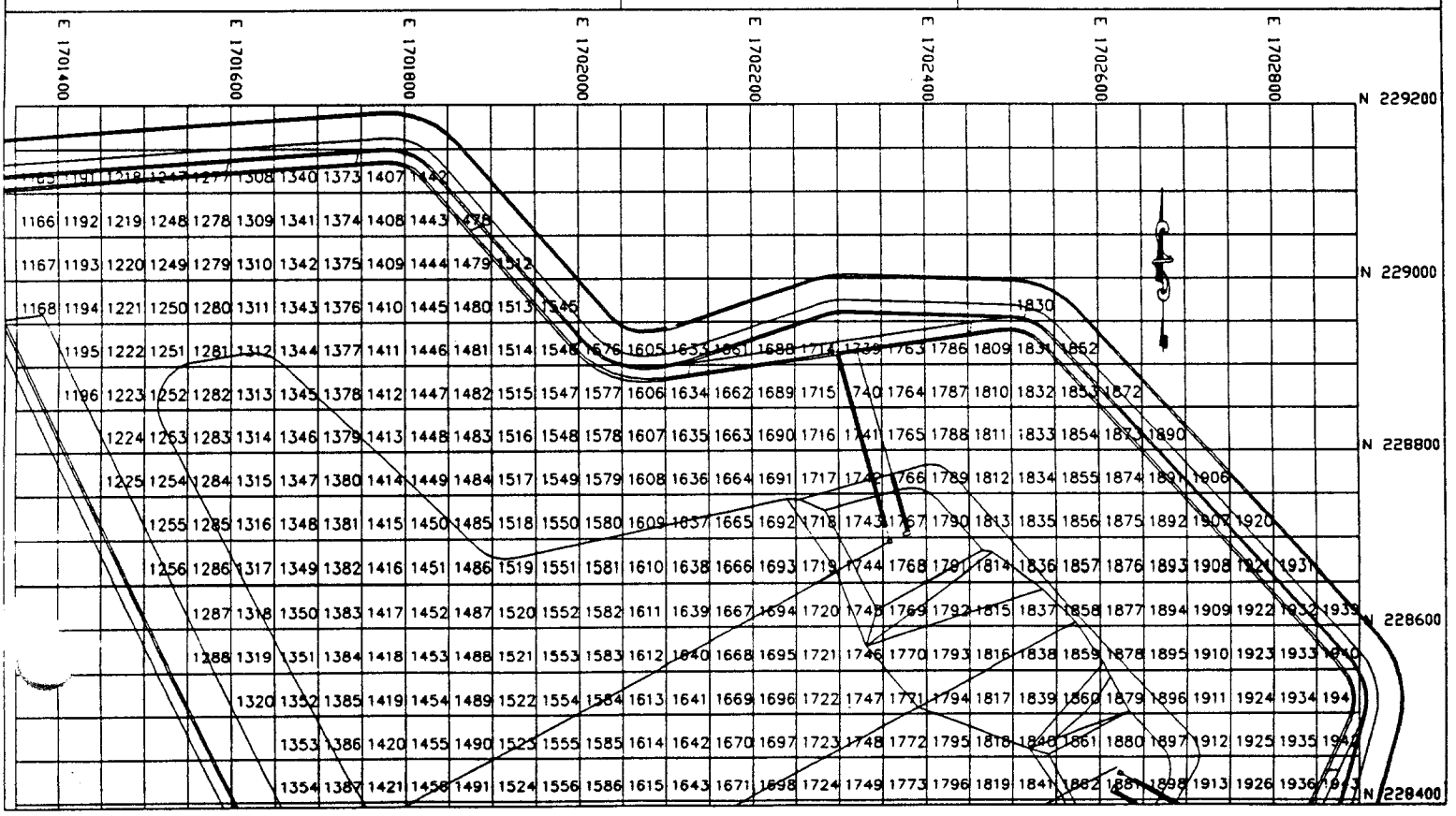
MULTIPLE LOAD #
SEE MANIFEST
PROFILE EXPIRATION 5/01
TREATMENT CODE 3 UNIT
TIME OUT
REC. TECH.

DATE
GRID POINT
ELEVATION
TIME AM/PM

LANDFILL UNIT B-18 PHASE II
NORTH GRID SHEET

Point numbers identify grid location at lower corner of grid box.
EXAMPLE: 1402

ADDITIONAL INFORMATION
Bkrd Soil



CHEMICAL WASTE MANAGEMENT, INC.
KETTLEMAN HILLS FACILITY
ederal EPA ID: CAT000646117
State EPA ID: CAT000646117
35251 OLD SKYLINE ROAD
P.O. BOX 471
KETTLEMAN CITY, CA 93239
(559) 386-9711

MCAS EL TORO
ATTN: MANIFEST SECTION
CA6170023208
P.O. BOX 444
EAST IRVINE CA 92650

CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. has received waste material from MCAS EL TORO on 05/01/00 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0099387266 Sequence number 01.

Profile Number: DZ4359
CWM Tracking ID: 009938726601
Process: LANDFILL
Treatment Date: 05/01/00

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Tracy Reddick

Certificate # 57818
05/04/00

Please contact
Tracy Reddick
(559) 386-6210 with any
questions.

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA617002320 8 Manifest Document No. 872677
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
MCAS El Toro
Caretaker Site Office, P.O. Box 444 East Irvine CA 92650
Attn: Ronald Johnson
4. Generator's Phone (619) 572-1403

A. State Manifest Document Number 99387267
B. State Generator's ID HAHQ36038916

5. Transporter 1 Company Name: MP Environmental Services, Inc.
6. US EPA ID Number: CAT000624247
C. State Transporter's ID [Reserved.]
D. Transporter's Phone (661) 393-1151

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID [Reserved.]
F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management, Inc.
35251 Old Skyline Rd.
Kettleman City, CA 93239
10. US EPA ID Number: CAT000646117
G. State Facility's ID CAT000646117
H. Facility's Phone (559) 386-9711

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Non-RCRA hazardous waste solid	001	CM	00016	Y	State 611 / EPA/Other n/r
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
11a. Profile #DZ4359, soil contaminated with lead (<5.0 mg/l TCLP) and pesticides (>1.0 mg/kg: DDT, DDE, DDD)(not EPA listed), send photocopy of TSDF signed manifest, weight ticket, and certificate of disposal to: Steve Chandler, IT Corporation, 3347 Michelson Dr., Suite 200, Irvine, CA 92612
"All Quantities are Estimates"

K. Handling Codes for Wastes Listed Above
a. D3
b.
c.
d.

15. Special Handling Instructions and Additional Information
Caution: Wear appropriate protective clothing and respiratory protection when handling
Site pick up address: MCAS El Toro, Site SWMU 88 (Bin 4215 ?)

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: SCOTT KEHE | Signature | Month 05 Day 02 Year 00

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: GARY D. HOWARD | Signature | Month 05 Day 02 Year 00

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

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: MICHELLE DEWEY | Signature | Month 05 Day 02 Year 00

DO NOT WRITE BELOW THIS LINE.

GENERATOR — TRANSPORTER — FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

DTSC 8022A (1/99)
EPA 8700—22

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000 Sacramento CA 95812

WEIGHT (LB)	TIME	DATE	COMMODITY: HAZARDOUS WASTE
GROSS: 55	05/02/00	65140 lb	32.57 ton
TARE: 14:51	05/02/00	36040 lb	18.02 ton

NET:

YARDAGE: 16

DEPUTY WEIGHMASTER

CHEMICAL WASTE MANAGEMENT, INC.
WEIGHMASTER weighed at
35251 Old Skyline Road
Kettleman City, CA

NO: 148841

WEIGHMASTER CERTIFICATE

This is to certify that the following described commodity was weighed, measured, or counted by a WEIGHMASTER, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by CHAPTER 7 (commencing with § 12700) of Division 5 of the California Business & Professions Code, administered by the Division of Measurement Standards of California Department of Food and Agriculture.

GENERATOR	MANIFEST	PROFILE NO.	SITE DRIVER	SAMPLE TIME:
NCAS EL TORO	99387267	D74959		
TRACTOR LICENSE NO.	TRAILER #1 LICENSE NO.	TRAILER #2 LICENSE NO.	DATE	LABORATORY IN:
SP37673				
			START	RECEIVING OUT:
SAMPLE #	BIN #	RECEIPT NO.	FINISH	DRIVER
		47959	WASHOUT METER	
			FINISH	TRANSPORTER
			START	
			GALLONS USED	RELEASING SIGNATURE

MANDATORY ANALYSIS – ALL WASTES

PHYSICAL STATE	SOLID	LIQUID	
APPEARANCE			
pH			
WATER MIX	ΔT = °F		SOL
FLAM POTENTIAL	NEG	POS	
CN–SCREEN	NEG	POS	PPM
S= SCREEN	NEG	POS	PPM
OXIDIZER	NEG	POS	
RADIO SCREEN	BKGD	POS	
ANALYST			

SUPPLEMENTAL ANALYSIS – TREATED WASTES

PAINT FILTER TEST	NA	PASS	FAIL	
VISIBLE OIL	NEG	POS		%
PCB SCREEN	NA ND	POS		PPM
PERCENT SOLID				
DENSITY				LBS/GAL
CALCULATED QTY				
LWCT	ΔT =			°F
SET	ΔT =			°F
> 50% DEBRIS	YES	NO		
> 60 MM	YES	NO		
< 6.75 FT.	YES	NO		
CAN MAJORITY OF WASTE BE COATED ON ALL SIDES	YES	NO		INIT.

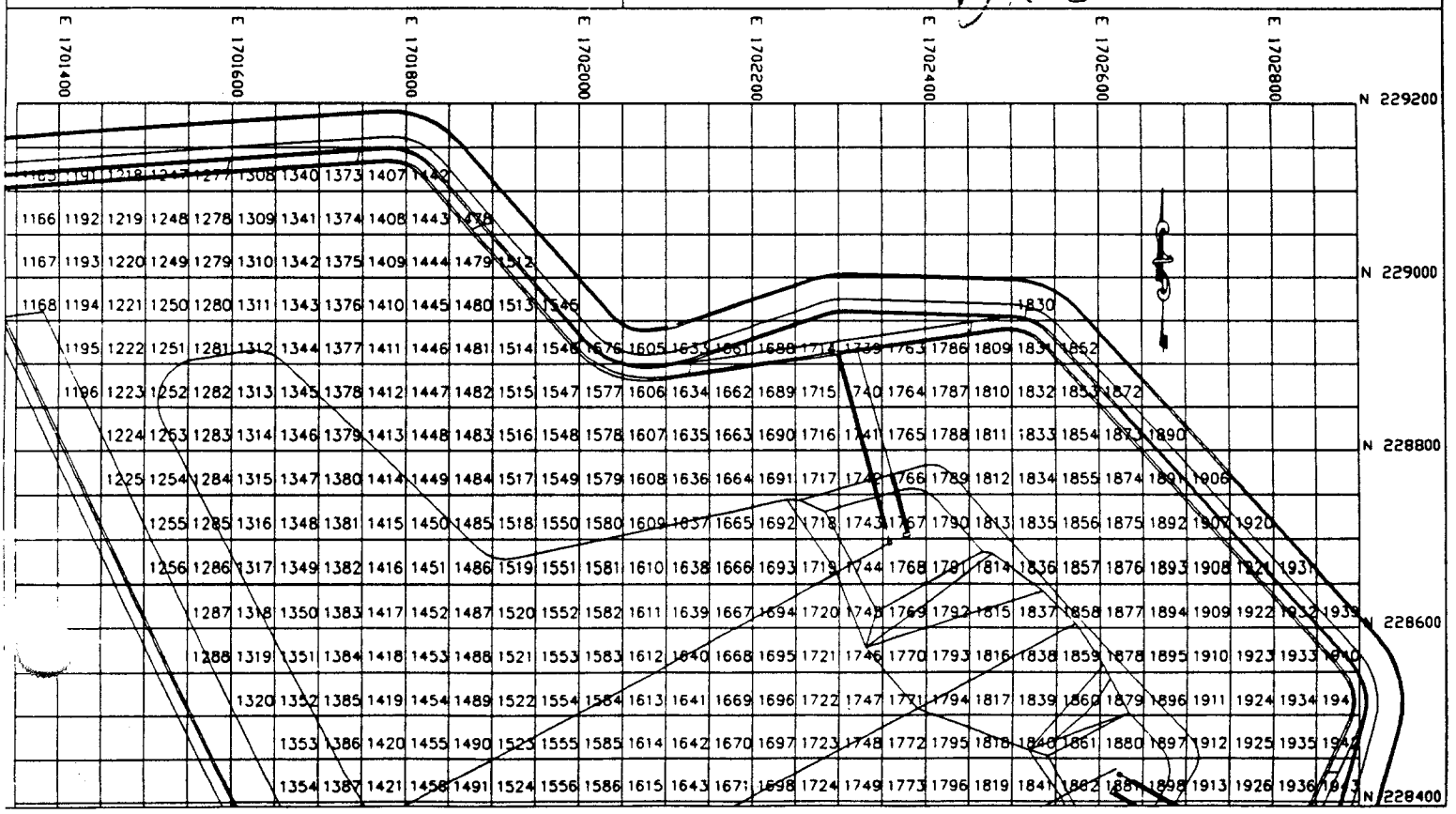
MULTIPLE LOAD #	
SEE MANIFEST	
PROFILE EXPIRATION	
TREATMENT CODE	UNIT
TIME OUT	
REC. TECH.	

DATE	
GRID POINT	
ELEVATION	
TIME	AM/PM

LANDFILL UNIT B–18 PHASE II
NORTH GRID SHEET

Point numbers identify grid location at lower corner of grid box.
EXAMPLE: 1402

ADDITIONAL INFORMATION



CHEMICAL WASTE MANAGEMENT, INC.
KETTLEMAN HILLS FACILITY
Federal EPA ID: CAT000646117
State EPA ID: CAT000646117
35251 OLD SKYLINE ROAD
P.O. BOX 471
KETTLEMAN CITY, CA 93239
(559) 386-9711

DRMO-EL TORO MCAS
ATTN: MANIFEST SECTION
CA6170023208
PO BOX 444
EAST IRVINE CA 92650

CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. has received waste material from DRMO-EL TORO MCAS on 05/02/00 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0099387267 Sequence number 01.

Profile Number: DZ4359
CWM Tracking ID: 009938726701
Process: LANDFILL
Treatment Date: 05/02/00

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Tracy Reddick

Certificate # 57832
05/05/00

Please contact
Tracy Reddick
(559) 386-6210 with any
questions.

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print - type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA6170023208 Manifest Document No. 87268
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
MCAS El Toro
Caretaker Site Office, P.O. Box 444 East Irvine CA 92650
Attn: Ronald Johnson
4. Generator's Phone (619) 572-1403

A. State Manifest Document Number 99387268
B. State Generator's ID HAHQ3603891 6

5. Transporter 1 Company Name: MP Environmental Services, Inc.
6. US EPA ID Number: CAT000624247
C. State Transporter's ID [Reserved.]
D. Transporter's Phone (661) 393-1151

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID [Reserved.]
F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management, Inc.
35251 Old Skyline Rd.
Kettleman City, CA 93239
10. US EPA ID Number: CAT000646117
G. State Facility's ID CAT000646117
H. Facility's Phone (559) 386-9711

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Non-RCRA hazardous waste solid	00	CM	00016	Y	State 611 / EPA/Other n/r
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
11a. Profile #DZ4359, soil contaminated with lead (<5.0 mg/l TCLP) and pesticides (>1.0 mg/kg: DDT, DDE, DDD)(not EPA listed), send photocopy of TSDF signed manifest, weight ticket, and certificate of disposal to: Steve Chandler, IT Corporation, 3347 Michelson Dr., Suite 200, Irvine, CA 92612
"All Quantities are Estimates"

K. Handling Codes for Wastes Listed Above
a. 03
b.
c.
d.

15. Special Handling Instructions and Additional Information
Caution: Wear appropriate protective clothing and respiratory protection when handling.
Site pick up address: MCAS El Toro. Site SWMU 88 Bin # 4761

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Scott Kehe | Signature | Month 05 Day 20 Year 00

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Randy Matthews | Signature | Month 05 Day 20 Year 00

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

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Michelle Denzey | Signature | Month 05 Day 20 Year 00

DO NOT WRITE BELOW THIS LINE.

GENERATOR
TRANSPORTER
FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

DTSC 8022A (1/99)
EPA 8700—22

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000 Sacramento, CA 95812

WEIGHT (LB)	TIME	DATE	
GROSS: 13:56	05/02/00	63240 lb	31.62 ton
TARE: 14:49	05/02/00	37120 lb	18.56 ton

NET:

YARDAGE: 16

COMMODITY: HAZARDOUS WASTE

DEPUTY WEIGHMASTER

CHEMICAL WASTE MANAGEMENT, INC.
WEIGHMASTER weighed at
35251 Old Skyline Road
Kettleman City, CA

NO: 148840

WEIGHMASTER CERTIFICATE

This is to certify that the following described commodity was weighed, measured, or counted by a WEIGHMASTER, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by CHAPTER 7 (commencing with § 12700) of Division 5 of the California Business & Professions Code, administered by the Division of Measurement Standards of California Department of Food and Agriculture.

GENERATOR	MANIFEST	PROFILE NO.	SITE DRIVER	SAMPLE TIME:
MCAS El Toro	99387268	D24359		
TRACTOR LICENSE NO.	TRAILER #1 LICENSE NO.	TRAILER #2 LICENSE NO.	DATE	LABORATORY IN:
SP75758				
			START	RECEIVING OUT:
SAMPLE #	BIN #	RECEIPT NO.	FINISH	DRIVER
			WASHOUT METER FINISH / START / GALLONS USED	TRANSPORTER
				RELEASING SIGNATURE

MANDATORY ANALYSIS - ALL WASTES

PHYSICAL STATE	SOLID	LIQUID	
APPEARANCE			
pH	WAPH 9		
WATER MIX	Δ T=°F	SOL	
FLAM POTENTIAL	NEG	POS	
CN-SCREEN	NEG	POS	PPM
S= SCREEN	NEG	POS	PPM
OXIDIZER	NEG	POS	
RADIO SCREEN	BKGD	POS	
ANALYST			

SUPPLEMENTAL ANALYSIS - TREATED WASTES

PAINT FILTER TEST	NA	PASS	FAIL	
VISIBLE OIL	NEG	POS		%
PCB SCREEN	NA ND	POS		PPM
PERCENT SOLID				
DENSITY				LBS/GAL
CALCULATED QTY				
LWCT	Δ T =			°F
SET	Δ T =			°F
> 50% DEBRIS	YES	NO		
> 60 MM	YES	NO		
< 6.75 FT.	YES	NO		
CAN MAJORITY OF WASTE BE COATED ON ALL SIDES	YES	NO	INIT.	

MULTIPLE LOAD #

SEE MANIFEST

PROFILE EXPIRATION

TREATMENT CODE UNIT

TIME OUT

REC. TECH.

DATE

GRID POINT

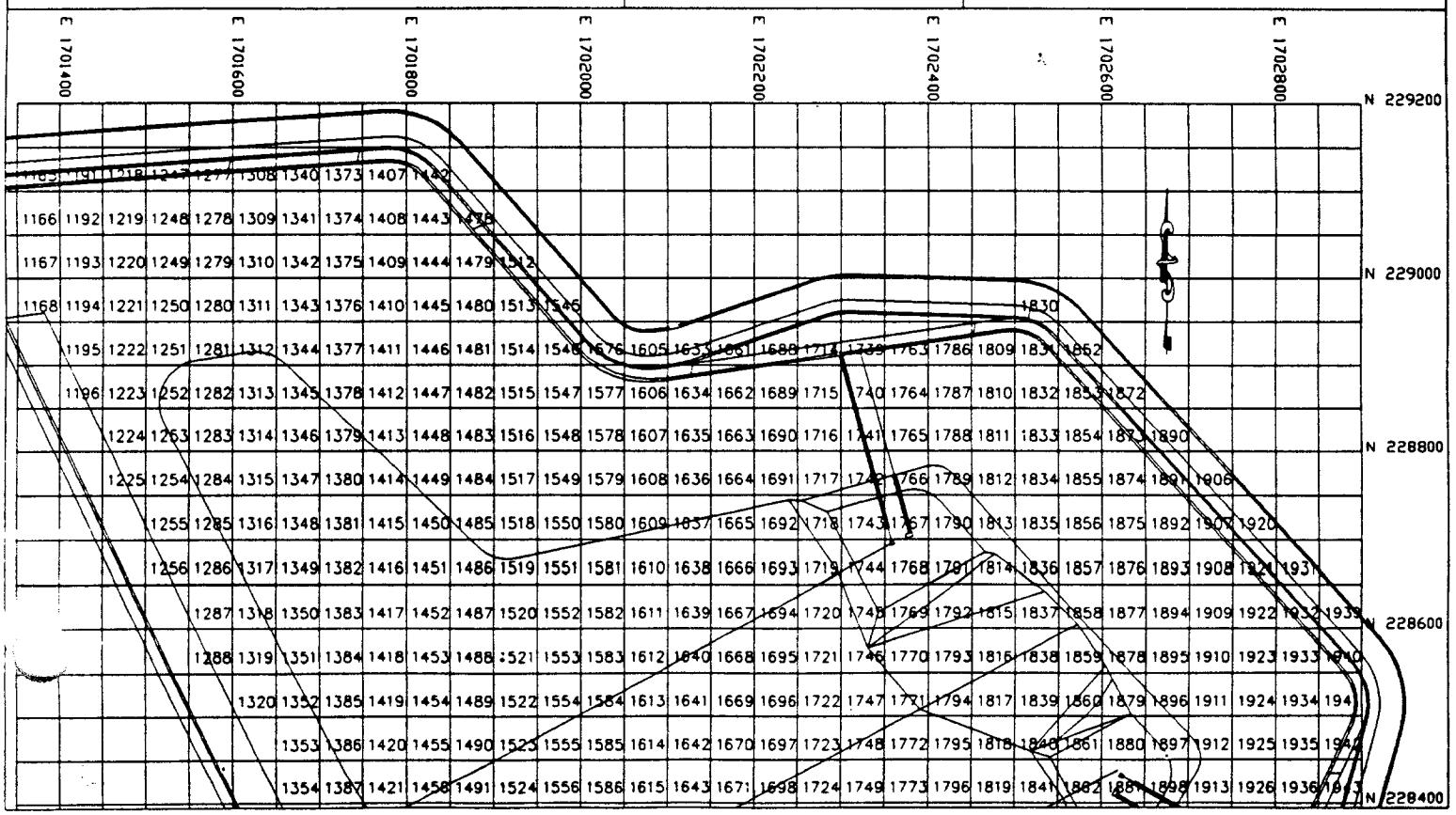
ELEVATION

TIME AM/PM

LANDFILL UNIT B-18 PHASE II
NORTH GRID SHEET

Point numbers identify grid location at lower corner of grid box.
EXAMPLE: 1402

ADDITIONAL INFORMATION
BRN Soil



CHEMICAL WASTE MANAGEMENT, INC.
KETTLEMAN HILLS FACILITY
Federal EPA ID: CAT000646117
State EPA ID: CAT000646117
35251 OLD SKYLINE ROAD
P.O. BOX 471
KETTLEMAN CITY, CA 93239
(559) 386-9711

DRMO-EL TORO MCAS
ATTN: MANIFEST SECTION
CA6170023208
PO BOX 444
EAST IRVINE CA 92650

CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. has received waste material from DRMO-EL TORO MCAS on 05/02/00 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0099387268 Sequence number 01.

Profile Number: DZ4359
CWM Tracking ID: 009938726801
Process: LANDFILL
Treatment Date: 05/02/00

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Tracy Reddick

Certificate # 57831
05/05/00

Please contact
Tracy Reddick
(559) 386-6210 with any
questions.

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
*Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CA617002320 8
Manifest Document No.: 872699
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
MCAS El Toro
Caretaker Site Office, P.O. Box 444
Attn: Ronald Johnson
East Irvine CA 92650

4. Generator's Phone (619) 572-1403

A. State Manifest Document Number: 99387269

B. State Generator's ID: HAHQ36038916

5. Transporter 1 Company Name: MP Environmental Services, Inc.
6. US EPA ID Number: CAT000624247

C. State Transporter's ID [Reserved.]

D. Transporter's Phone: (661) 393-1151

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID [Reserved.]

F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management, Inc.
35251 Old Skyline Rd.
Kettleman City, CA 93239
10. US EPA ID Number: CAT000646117

G. State Facility's ID: CAT000646117

H. Facility's Phone: (559) 386-9711

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Non-RCRA hazardous waste solid	001	CM	00016	Y	State 611; EPA/Other n/r
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above
11a. Profile #DZ4359, soil contaminated with lead (<5.0 mg/l TCLP) and pesticides (>1.0 mg/kg: DDT, DDE, DDD)(not EPA listed), send photocopy of TSDF signed manifest, weight ticket, and certificate of disposal to: Steve Chandler, IT Corporation, 3347 Michelson Dr., Suite 200, Irvine, CA 92612
"All Quantities are Estimates"

K. Handling Codes for Wastes Listed Above
a. 03
b.
c.
d.

15. Special Handling Instructions and Additional Information
S.O.# C174767
Caution: Wear appropriate protective clothing and respiratory protection when handling.
Site pick up address: MCAS El Toro, Site SWMU 88
Bin #4864

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Scott Kohs
Signature: Scott Kohs
Month 05 Day 02 Year 00

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Deray Mitchell
Signature: Deray Mitchell
Month 05 Day 02 Year 00

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

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: M. Dewey
Signature: M. Dewey
Month 05 Day 02 Year 00

DO NOT WRITE BELOW THIS LINE.

GENERATOR — TRANSPORTER — FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

DTSC 8022A (1/99)
EPA 8700—22

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000, Sacramento, CA 95812

WEIGHT (LB)	TIME	DATE	COMMODITY: HAZARDOUS WASTE
GROSS: 60300 lb. 30.15 ton	14:05	05/02/00	DEPUTY WEIGHMASTER
NET: 35280 lb 17.64 ton	14:55	05/02/00	

YARDAGE: 16

CHEMICAL WASTE MANAGEMENT, INC.
WEIGHMASTER weighed at
35251 Old Skyline Road
Kettleman City, CA

NO: 148845

WEIGHMASTER CERTIFICATE

This is to certify that the following described commodity was weighed, measured, or counted by a WEIGHMASTER, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by CHAPTER 7 (commencing with § 12700) of Division 5 of the California Business & Professions Code, administered by the Division of Measurement Standards of California Department of Food and Agriculture.

GENERATOR	MANIFEST	PROFILE NO.	SITE DRIVER	SAMPLE TIME:
MCAS El Toro	9938 7269	D24359		
TRACTOR LICENSE NO.	TRAILER #1 LICENSE NO.	TRAILER #2 LICENSE NO.	DATE	LABORATORY IN:
9C 35847			START	RECEIVING OUT:
SAMPLE #	BIN #	RECEIPT NO.	FINISH	DRIVER
		[illegible]	WASHOUT METER	TRANSPORTER
			FINISH	
			START	RELEASING SIGNATURE
			GALLONS USED	

MANDATORY ANALYSIS – ALL WASTES

PHYSICAL STATE	SOLID	LIQUID	
APPEARANCE			
pH	Weight 9		
WATER MIX	Δ T=°F	SOL	
FLAM POTENTIAL	NEG	POS	
CN-SCREEN	NEG	POS	PPM
S= SCREEN	NEG	POS	PPM
OXIDIZER	NEG	POS	
RADIO SCREEN	BKGD	POS	
ANALYST			

SUPPLEMENTAL ANALYSIS – TREATED WASTES

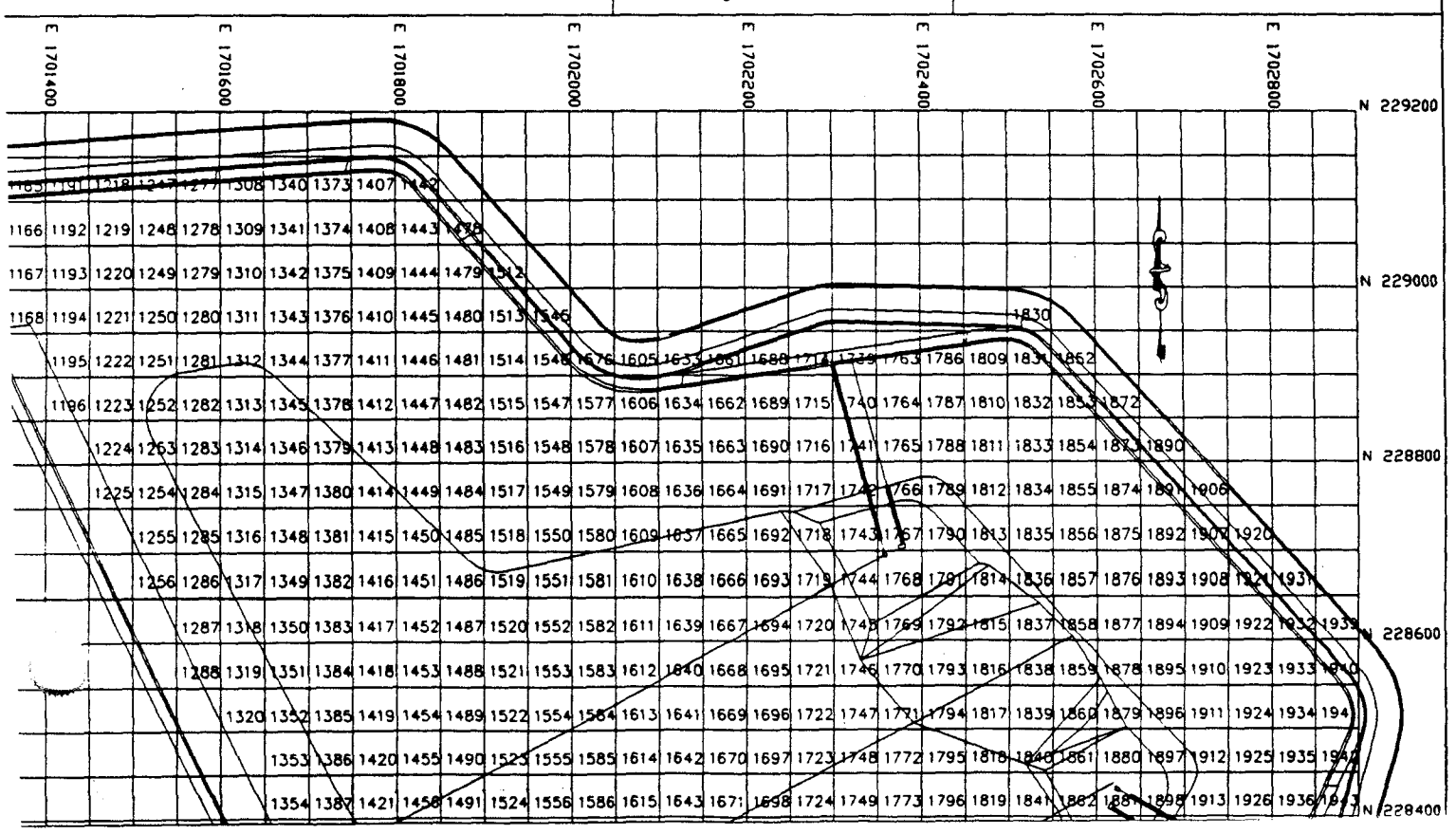
PAINT FILTER TEST	NA	PASS	FAIL	
VISIBLE OIL	NEG	POS		%
PCB SCREEN	NA ND	POS		PPM
PERCENT SOLID				
DENSITY				LBS/GAL
CALCULATED QTY				
LWCT	Δ T =			°F
SET	Δ T =			°F
> 50% DEBRIS	YES	NO		
> 60 MM	YES	NO		
< 6.75 FT.	YES	NO		
CAN MAJORITY OF WASTE BE COATED ON ALL SIDES	YES	NO	INIT.	

MULTIPLE LOAD #	DATE
SEE MANIFEST	GRID POINT
PROFILE EXPIRATION	ELEVATION
TREATMENT CODE / UNIT	TIME
TIME OUT	AM/PM
REC. TECH.	

LANDFILL UNIT B-18 PHASE II
NORTH GRID SHEET

Point numbers identify grid location at lower corner of grid box.
EXAMPLE: 1402

ADDITIONAL INFORMATION
BRN Soil



CHEMICAL WASTE MANAGEMENT, INC.
KETTLEMAN HILLS FACILITY
Federal EPA ID: CAT000646117
State EPA ID: CAT000646117
35251 OLD SKYLINE ROAD
P.O. BOX 471
KETTLEMAN CITY, CA 93239
(559) 386-9711

DRMO-EL TORO MCAS
ATTN: MANIFEST SECTION
CA6170023208
PO BOX 444
EAST IRVINE CA 92650

CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. has received waste material from DRMO-EL TORO MCAS on 05/02/00 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0099387269 Sequence number 01.

Profile Number: DZ4359
CWM Tracking ID: 009938726901
Process: LANDFILL
Treatment Date: 05/02/00

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Tracy Reddick

Certificate # 57830
05/05/00

Please contact
Tracy Reddick
(559) 386-6210 with any
questions.

State of California— ronmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

4A98726 **See Instructions on back of page 6.**

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA617002320 Manifest Document No. 87270
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
MCAS El Toro
Caretaker Site Office, P.O. Box 444 East Irvine CA 92650
Attn: Ronald Johnson
4. Generator's Phone (619) 572-1403

A. State Manifest Document Number 99387270
B. State Generator's ID HAHQ36038916

5. Transporter 1 Company Name: MP Environmental Services, Inc.
6. US EPA ID Number: CAT000624247
C. State Transporter's ID [Reserved.]
D. Transporter's Phone (661) 393-1151

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID [Reserved.]
F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management, Inc.
35251 Old Skyline Rd.
Kettleman City, CA 93239
10. US EPA ID Number: CAT000646117
G. State Facility's ID CAT000646117
H. Facility's Phone (559) 386-9711

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Non-RCRA hazardous waste solid	001	CM	00016	Y	State 611 / EPA/Other N/T
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
11a. Profile #DZ4359, soil contaminated with lead (<5.0 mg/l TCLP) and pesticides (>1.0 mg/kg: DDT, DDE, DDD)(not EPA listed), send photocopy of TSDF signed manifest, weight ticket, and certificate of disposal to: Steve Chandler, IT Corporation, 3347 Michelson Dr., Suite 200, Irvine, CA 92612
"All Quantities are Estimates"

K. Handling Codes for Wastes Listed Above
a. 03
b.
c.
d.

15. Special Handling Instructions and Additional Information
Caution: Wear appropriate protective clothing and respiratory protection when handling. bin 4830
Site pick up address: MCAS El Toro, Site SWMU 88

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Scott Kehe
Signature: Scott Kehe
Month 05 Day 02 Year 00

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: William Schweitzer
Signature: William Schweitzer
Month 05 Day 02 Year 00

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

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Michelle Dewey
Signature: Michelle Dewey
Month 05 Day 02 Year 00

DO NOT WRITE BELOW THIS LINE.

GENERATOR — TRANSPORTER — FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000, Sacramento, CA 95812

DTSC 8022A (1/99)
EPA 8700—22

WEIGHT (LB)	TIME	DATE	
GROSS:	13:58	05/02/00	77080 lb 38.54 ton
	14:58	05/02/00	35240 lb 17.62 ton
NET:			
YARDAGE:	16		

COMMODITY: HAZARDOUS WASTE

DEPUTY WEIGHMASTER

CHEMICAL WASTE MANAGEMENT, INC.
WEIGHMASTER weighed at
35251 Old Skyline Road
Kettleman City, CA

NO: 148842

WEIGHMASTER CERTIFICATE

This is to certify that the following described commodity was weighed, measured, or counted by a WEIGHMASTER, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by CHAPTER 7 (commencing with § 12700) of Division 5 of the California Business & Professions Code, administered by the Division of Measurement Standards of California Department of Food and Agriculture.

GENERATOR	MANIFEST	PROFILE NO.	SITE DRIVER	SAMPLE TIME:
MCAS El Toro	99387270	DZ4359		
TRACTOR LICENSE NO.	TRAILER #1 LICENSE NO.	TRAILER #2 LICENSE NO.	DATE	LABORATORY IN:
9A98726				
			START	RECEIVING OUT:
SAMPLE #	BIN #	RECEIPT NO.	FINISH	DRIVER
		87746		
			WASHOUT METER	TRANSPORTER
			FINISH	
			START	RELEASING SIGNATURE
			GALLONS USED	

MANDATORY ANALYSIS - ALL WASTES

PHYSICAL STATE	SOLID	LIQUID	
APPEARANCE			
pH	WAIVED		
WATER MIX	Δ T=°F		SOL
FLAM POTENTIAL	NEG	POS	
CN-SCREEN	NEG	POS	PPM
S= SCREEN	NEG	POS	PPM
OXIDIZER	NEG	POS	
RADIO SCREEN	BKGD	POS	
ANALYST			

SUPPLEMENTAL ANALYSIS - TREATED WASTES

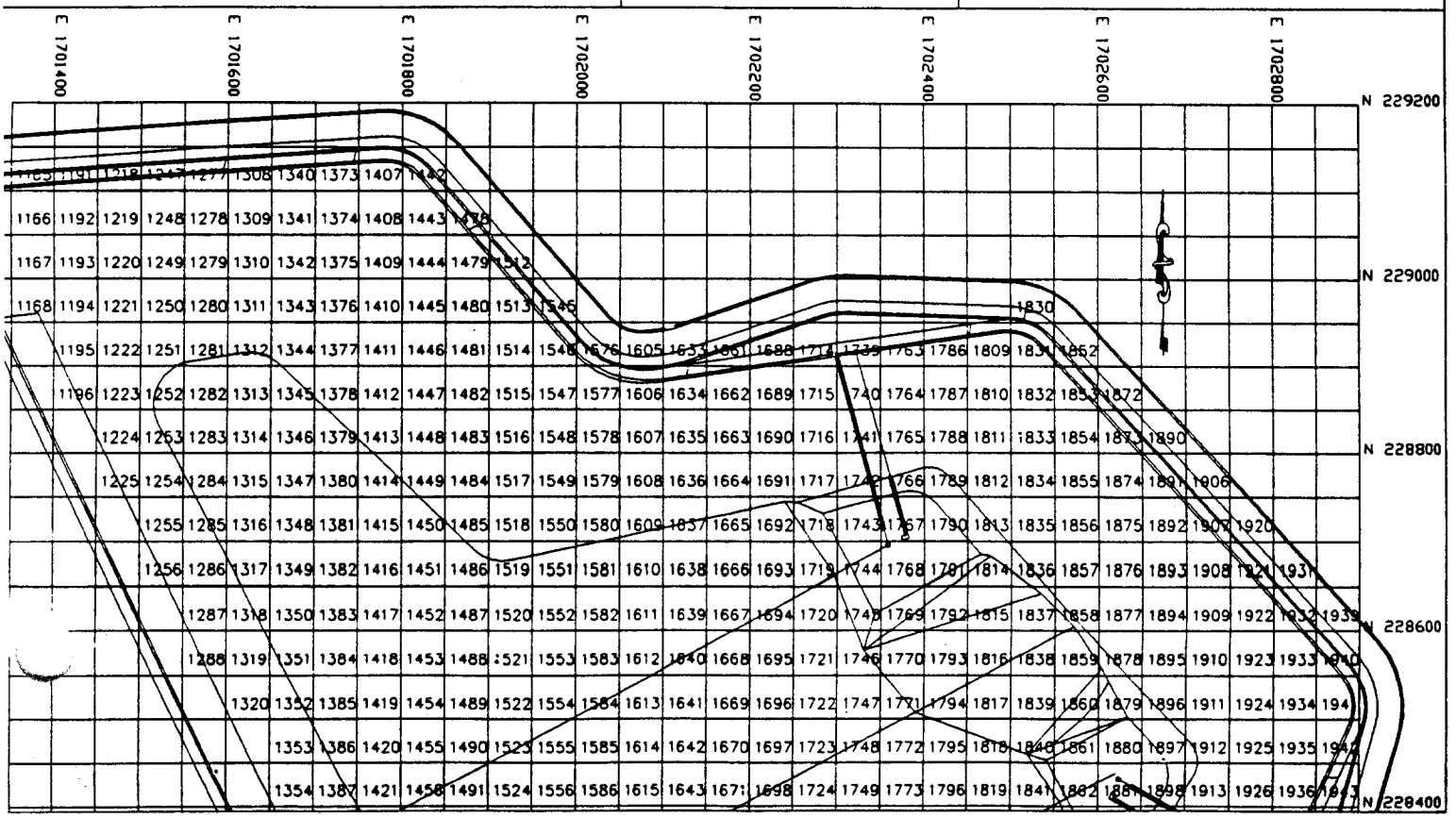
PAINT FILTER TEST	NA	PASS	FAIL	
VISIBLE OIL	NEG	POS		%
PCB SCREEN	NA ND	POS		PPM
PERCENT SOLID				
DENSITY				LBS/GAL
CALCULATED QTY				
LWCT	Δ T =			°F
SET	Δ T =			°F
> 50% DEBRIS	YES	NO		
> 60 MM	YES	NO		
< 6.75 FT.	YES	NO		
CAN MAJORITY OF WASTE BE COATED ON ALL SIDES	YES	NO		INIT.

MULTIPLE LOAD #		DATE
SEE MANIFEST		GRID POINT
PROFILE EXPIRATION		ELEVATION
TREATMENT CODE	UNIT	TIME
TIME OUT		
REC. TECH.		AM/PM

LANDFILL UNIT B-18 PHASE II
NORTH GRID SHEET

Point numbers identify grid location at lower corner of grid box.
EXAMPLE: 1402

ADDITIONAL INFORMATION
BKW Soil



CHEMICAL WASTE MANAGEMENT, INC.
KETTLEMAN HILLS FACILITY
Federal EPA ID: CAT000646117
State EPA ID: CAT000646117
35251 OLD SKYLINE ROAD
P.O. BOX 471
KETTLEMAN CITY, CA 93239
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DRMO-EL TORO MCAS
ATTN: MANIFEST SECTION
CA6170023208
PO BOX 444
EAST IRVINE CAZ 92650

CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. has received waste material from DRMO-EL TORO MCAS on 05/02/00 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0099387270 Sequence number 01.

Profile Number: DZ4359
CWM Tracking ID: 009938727001
Process: LANDFILL
Treatment Date: 05/02/00

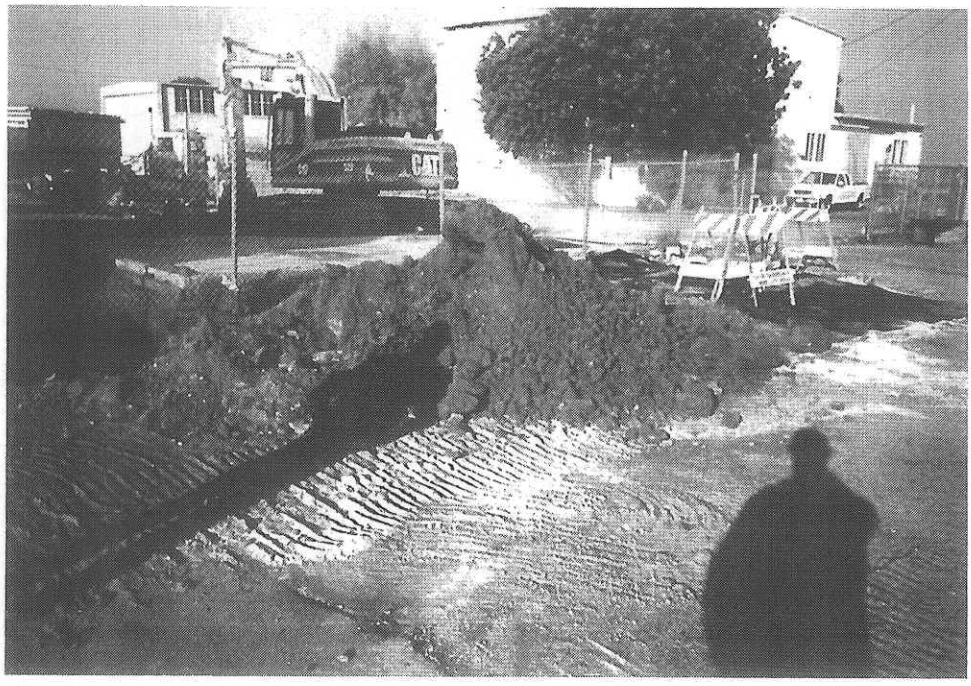
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Tracy Reddick

Certificate # 57829
05/05/00

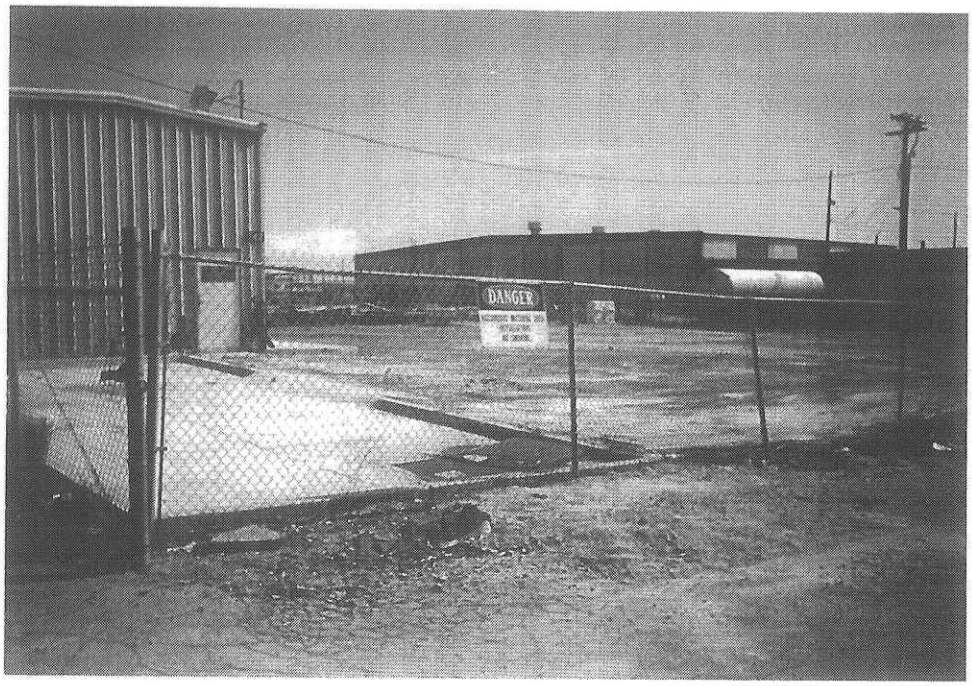
Please contact
Tracy Reddick
(559) 386-6210 with any
questions.

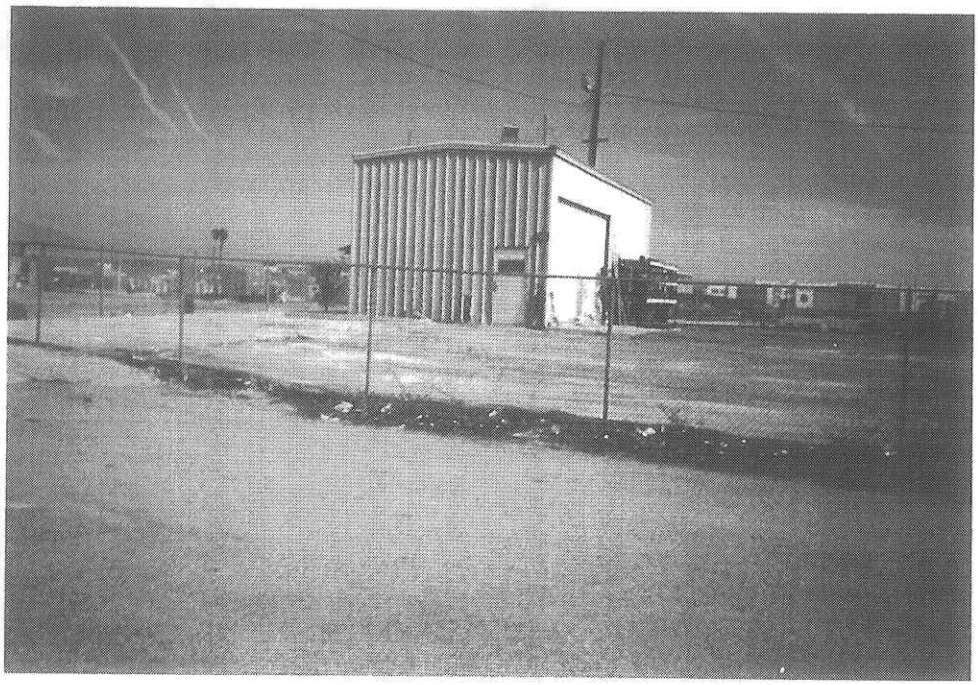
Appendix D
Site Photographs



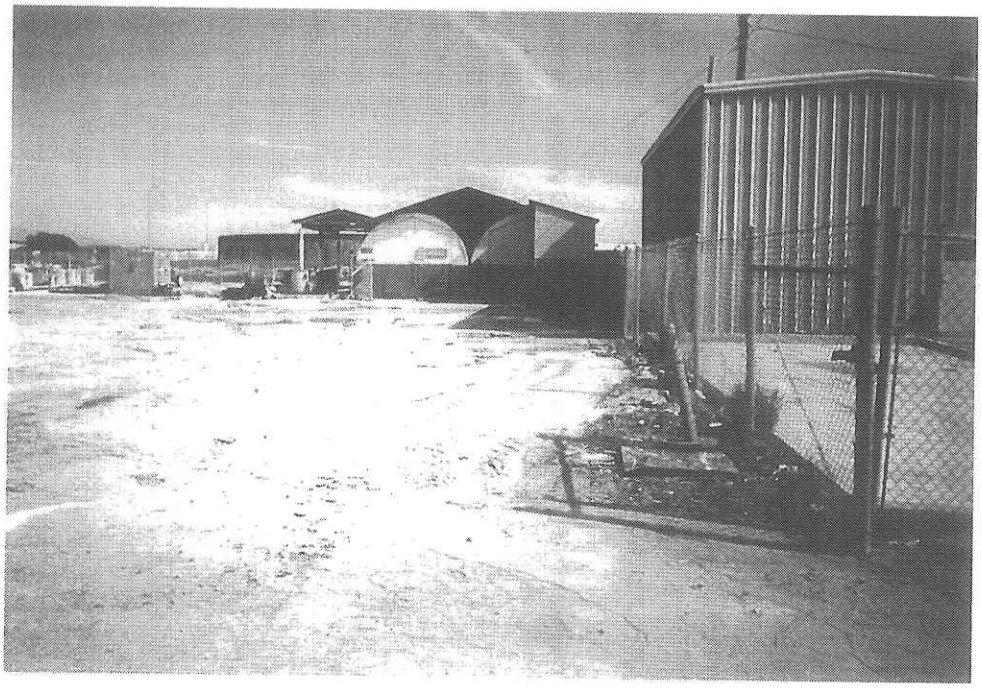
Excavation of PCB-contaminated soil at SWMU 88.

Excavation of PCB-contaminated soil at SWMU 88.





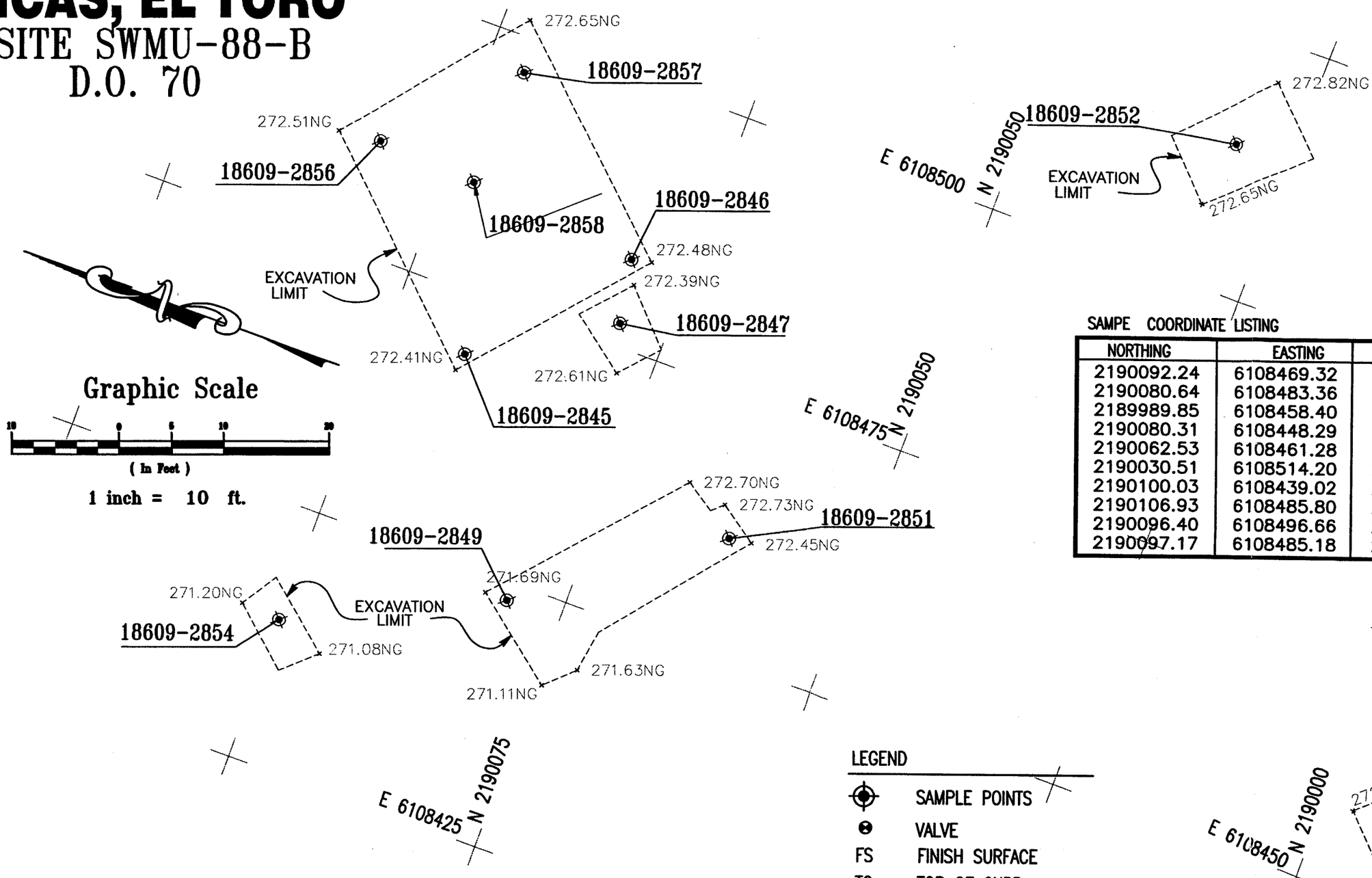
Post-excavation at SWMU 88.



Post-excavation at SWMU 88.

Appendix E
Land Surveys

MCAS, EL TORO
SITE SWMU-88-B
D.O. 70



Graphic Scale

10 0 5 10 20

(In Feet)

1 inch = 10 ft.

SAMPE COORDINATE LISTING

NORTHING	EASTING	FS	DESCRIPTION
2190092.24	6108469.32	269.75	18609-2845
2190080.64	6108483.36	269.64	18609-2847
2189989.85	6108458.40	269.04	18609-2848
2190080.31	6108448.29	269.13	18609-2849
2190062.53	6108461.28	269.89	18609-2851
2190030.51	6108514.20	269.74	18609-2852
2190100.03	6108439.02	267.82	18609-2854
2190106.93	6108485.80	269.42	18609-2856
2190096.40	6108496.66	269.41	18609-2857
2190097.17	6108485.18	269.45	18609-2858

LEGEND

- SAMPLE POINTS
- VALVE
- FS FINISH SURFACE
- TC TOP OF CURB
- FH FIRE HYDRANT
- CHAIN LINK FENCE

DATE OF SURVEY: 3-16-2000

CAL VADA SURVEYING, INC.
108 Business Center Dr, Corona, Ca 92880-1782
PHONE: (909) 280-9960 FAX: (909) 280-9746

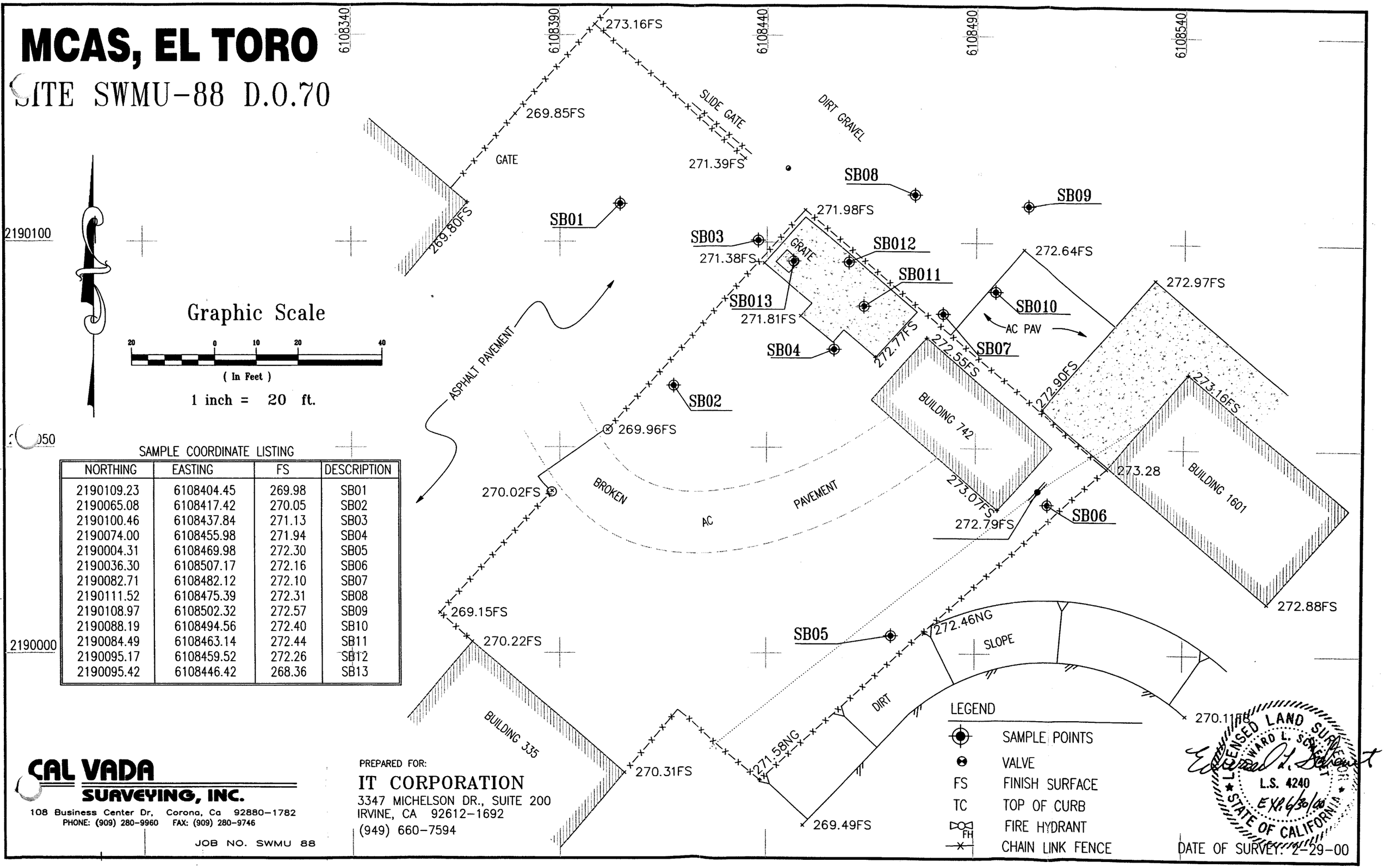
PREPARED FOR:
IT CORPORATION
3347 MICHELSON DR., SUITE 200
IRVINE, CA 92612-1692
(949) 660-7594

JOB NO. SWMU-88-B

Apr 19, 2001 - 14:51:57 F:\ORIGINALS FROM THE SURVEYORS\SWMU SITES\SWMU88\SWMU-88-B(IT REVISED).dwg

MCAS, EL TORO

SITE SWMU-88 D.0.70



SAMPLE COORDINATE LISTING

NORTHING	EASTING	FS	DESCRIPTION
2190109.23	6108404.45	269.98	SB01
2190065.08	6108417.42	270.05	SB02
2190100.46	6108437.84	271.13	SB03
2190074.00	6108455.98	271.94	SB04
2190004.31	6108469.98	272.30	SB05
2190036.30	6108507.17	272.16	SB06
2190082.71	6108482.12	272.10	SB07
2190111.52	6108475.39	272.31	SB08
2190108.97	6108502.32	272.57	SB09
2190088.19	6108494.56	272.40	SB10
2190084.49	6108463.14	272.44	SB11
2190095.17	6108459.52	272.26	SB12
2190095.42	6108446.42	268.36	SB13

CAL VADA SURVEYING, INC.
108 Business Center Dr, Corona, Ca 92880-1782
PHONE: (909) 280-9960 FAX: (909) 280-9746

JOB NO. SWMU 88

PREPARED FOR:
IT CORPORATION
3347 MICHELSON DR., SUITE 200
IRVINE, CA 92612-1692
(949) 660-7594

DATE OF SURVEY: 2-29-00

Appendix F
Laboratory Analytical Report

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 10700

FORM 0019 REV. 9-99

IT'S LAB COORDINATOR: M CONCERTION	LAB COORDINATOR'S PHONE: 949-660-7550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 00B082	LABORATORY CONTACT: E. MAX	MAIL REPORT (COMPANY NAME): IT GROUP
PROJECT NAME: EL TORO B-20	PROJECT LOCATION: MCAS - EL TORO	PROJECT NUMBER: 18609	LABORATORY PHONE: 800-700-8881	LABORATORY FAX	RECIPIENT NAME: D ISHIDA
PROJECT CONTACT: M CONCERTION	PROJECT PHONE NUMBER: 949-451-1667	PROJECT FAX: 949-475-5433	LABORATORY ADDRESS: 650 MAPLE		ADDRESS: 3347 MICHELSON DRIVE
PROJECT ADDRESS: —	CITY, STATE AND ZIP CODE: —	CLIENT: S.W. DIV.	CITY, STATE AND ZIP CODE: TORRANCE CA		CITY, STATE AND ZIP CODE: IRVINE CA 92612
PROJECT MANAGER: R SEDLAK	PROJECT MANAGER'S PHONE: 949-660-7446	PROJECT MANAGER'S FAX: —			

SWMU88

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: Pesticide 8080	Analyses: Metal 6010	Comments
1	18609-2812	S	2/15/00	1145	N	1	3	5 DAY	X	X	
2	18609-2813	S		1210		1			*	*	*Analyze 18609-2813 if 18609-2812 is detected 8021/8082
3	18609-2814	S		1235		1			X	X	
4	18609-2815	S		1255		1			*	*	*ANALYZE 2815 IF 2814 IS DETECTED
5											
6											
7											
8											
9											
10											

SAMPLES COLLECTED BY: M MAINS

COURIER AND AIR BILL NUMBER: CARR

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
		2-15-00	1400	

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

SWMU88

3.0-3.5

Sample Point Location	Sample Type G	C	F	QC
1) SWMU88-SB-05 3.0'-3.5 bgs	X			
2- ~~SB~~ SWMU-88 SB-05 4.5-5.0	X			
3- SWMU-88 SB-06 2.5-3.0	X			
4- SWMU-88 SB-06 4.5-5.0	X			

Comments

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

AC

4724

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

Date: 03-06-2000
EMAX Batch No.: 008082

Attn: 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 02/15/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2812	B082-01	02/15/00	Soil	Pesticides and PCBs by GC
				CAM Metals
				Mercury
18609-2813	B082-02	02/15/00	Soil	Pesticides and PCBs by GC
18609-2814	B082-03	02/15/00	Soil	Pesticides and PCBs by GC
				CAM Metals
				Mercury
18609-2815	B082-04	02/15/00	Soil	Pesticides and PCBs by GC

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

SW3550A/8081
PESTICIDES/PCBS

Client : IT CORPORATION	Date Collected: 02/15/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 02/15/00
Batch No. : 00B082	Date Extracted: 02/16/00 20:00
Sample ID: 18609-2812	Date Analyzed: 02/18/00 19:04
Lab Samp ID: B082-01	Dilution Factor: 1
Lab File ID: WB18012A	Matrix : SOIL
Ext Btch ID: CPB015S	% Moisture : 17.2
Calib. Ref.: WB18003A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	.00089J|(ND)	.0023	.00049|.00041
GAMMA-BHC (LINDANE)	(ND)|ND	.024	.00038|.00049
BETA-BHC	(ND)|ND	.04	.00031|.00021
HEPTACHLOR	(ND)|.0022J	.024	.00044|.00047
DELTA-BHC	(ND)|ND	.013	.00027|.00025
ALDRIN	(ND)|ND	.018	.00029|.00023
HEPTACHLOR EPOXIDE	(ND)|ND	.025	.00036|.00036
GAMMA-CHLORDANE	(ND)|.0012J	.018	.0005|.00089
ALPHA-CHLORDANE	(ND)|ND	.018	.00073|.00047
ENDOSULFAN I	(ND)|ND	.025	.00057|.00051
4,4'-DDE	(.0051J)|.005J	.051	.00054|.00056
DIELDRIN	.0049J|(.0026J)	.042	.00035|.00026
ENDRIN	(ND)|ND	.043	.00029|.00026
4,4'-DDD	(.0049)|.0047	.0036	.00039|.00042
ENDOSULFAN II	(ND)|ND	.029	.00054|.00051
4,4'-DDT	(.06E)|.096E	.0036	.00027|.00027
ENDRIN ALDEHYDE	(ND)|.0047J	.019	.00024|.00016
ENDOSULFAN SULFATE	(ND)|ND	.043	.00048|.00041
METHOXYCHLOR	.011J|(ND)	.069	.00027|.00024
TOXAPHENE	(ND)|ND	.85	.0015|.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	67|(86)	35-135
DECACHLOROBIPHENYL	74|(77)	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:	02/15/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/15/00
Batch No.	: 00B082	Date Extracted:	02/16/00 20:00
Sample ID:	18609-2812DL	Date Analyzed:	02/22/00 22:26
Lab Samp ID:	B082-01T	Dilution Factor:	5
Lab File ID:	WB18033A	Matrix :	SOIL
Ext Btch ID:	CPB015S	% Moisture :	17.2
Calib. Ref.:	WB18029A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|ND	.011	.0024|.0021
GAMMA-BHC (LINDANE)	(ND)|ND	.12	.0019|.0025
BETA-BHC	(ND)|ND	.2	.0015|.001
HEPTACHLOR	(ND)|.0026J	.12	.0022|.0024
DELTA-BHC	(ND)|ND	.066	.0013|.0013
ALDRIN	(ND)|ND	.091	.0014|.0012
HEPTACHLOR EPOXIDE	(ND)|ND	.13	.0018|.0018
GAMMA-CHLORDANE	(ND)|ND	.091	.0025|.0045
ALPHA-CHLORDANE	(ND)|ND	.091	.0036|.0023
ENDOSULFAN I	(ND)|ND	.13	.0029|.0026
4,4'-DDE	(.0058J)|.0044J	.25	.0027|.0028
DIELDRIN	(.0037J)|.0035J	.21	.0017|.0013
ENDRIN	(ND)|ND	.22	.0014|.0013
4,4'-DDD	.0069J|(.0043J)	.018	.002|.0021
ENDOSULFAN II	(ND)|ND	.14	.0027|.0026
4,4'-DDT	.055|(.064)	.018	.0014|.0013
ENDRIN ALDEHYDE	(ND)|.0043J	.097	.0012|.00079
ENDOSULFAN SULFATE	(ND)|ND	.22	.0024|.0021
METHOXYCHLOR	(ND)|ND	.34	.0013|.0012
TOXAPHENE	(ND)|ND	4.2	.0073|.013

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(79)|78	35-135
DECACHLOROBIPHENYL	(86)|84	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:	02/15/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/15/00
Lab Job No.	: 008082	Date Extracted:	02/16/00 20:00
Sample ID:	18609-2813	Date Analyzed:	02/18/00 19:30
Lab Samp ID:	B082-02	Dilution Factor:	1
Lab File ID:	WB18013A	Matrix :	SOIL
Ext Btch ID:	CP8015S	% Moisture :	16.2
Calib. Ref.:	WB18003A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	.0024|(ND)	.0023	.00048|.00041
GAMMA-BHC (LINDANE)	(ND)|ND	.024	.00038|.00049
BETA-BHC	.0085J|(ND)	.039	.00031|.00021
HEPTACHLOR	(.0019J)|.0036J	.024	.00043|.00047
DELTA-BHC	(ND)|ND	.013	.00026|.00025
ALDRIN	(ND)|ND	.018	.00029|.00023
HEPTACHLOR EPOXIDE	.001J|(ND)	.025	.00035|.00035
GAMMA-CHLORDANE	.00094J|(ND)	.018	.00049|.00088
ALPHA-CHLORDANE	(ND)|ND	.018	.00072|.00046
ENDOSULFAN I	(ND)|ND	.025	.00057|.00051
4,4'-DDE	(.007J)|.0069J	.05	.00054|.00055
DIELDRIN	.0046J|(.0054J)	.042	.00034|.00026
ENDRIN	(ND)|ND	.043	.00028|.00026
4,4'-DDD	(.0043)|.0037	.0036	.00039|.00041
ENDOSULFAN II	(ND)|ND	.029	.00053|.00051
4,4'-DDT	(.081E)|.13E	.0036	.00027|.00027
ENDRIN ALDEHYDE	.0038J|(.0046J)	.019	.00024|.00016
ENDOSULFAN SULFATE	(ND)|ND	.043	.00047|.00041
METHOXYCHLOR	(.0058J)|.0049J	.068	.00026|.00023
TOXAPHENE	(ND)|ND	.84	.0014|.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	72|(85)	35-135
DECACHLOROBIPHENYL	68|(70)	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:	02/15/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/15/00
Batch No.	: 008082	Date Extracted:	02/16/00 20:00
Sample ID:	18609-2813DL	Date Analyzed:	02/22/00 22:51
Lab Samp ID:	B082-02T	Dilution Factor:	5
Lab File ID:	WB18034A	Matrix :	SOIL
Ext Btch ID:	CPB015S	% Moisture :	16.2
Calib. Ref.:	WB18029A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|ND	.011	.0024|.002
GAMMA-BHC (LINDANE)	(ND)|ND	.12	.0019|.0024
BETA-BHC	(ND)|ND	.2	.0015|.001
HEPTACHLOR	(ND)|.0036J	.12	.0022|.0023
DELTA-BHC	(ND)|ND	.066	.0013|.0012
ALDRIN	(ND)|ND	.089	.0014|.0011
HEPTACHLOR EPOXIDE	(ND)|ND	.13	.0018|.0018
GAMMA-CHLORDANE	(ND)|ND	.089	.0025|.0044
ALPHA-CHLORDANE	(ND)|ND	.089	.0036|.0023
ENDOSULFAN I	(ND)|ND	.13	.0028|.0025
4,4'-DDE	(.0066J)|.0063J	.25	.0027|.0028
DIELDRIN	(.0032J)|.0059J	.21	.0017|.0013
ENDRIN	(ND)|ND	.21	.0014|.0013
4,4'-DDD	.0059J|(.0028J)	.018	.0019|.0021
ENDOSULFAN II	(ND)|ND	.14	.0027|.0025
4,4'-DDT	.092|(.093)	.018	.0013|.0013
ENDRIN ALDEHYDE	(ND)|.0043J	.095	.0012|.00078
ENDOSULFAN SULFATE	(ND)|ND	.21	.0024|.002
METHOXYCHLOR	(ND)|ND	.34	.0013|.0012
TOXAPHENE	(ND)|ND	4.2	.0072|.012

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	68|(86)	35-135
DECACHLOROBIPHENYL	(86)|83	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: 02/15/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 02/15/00
Batch No. : 00B082	Date Extracted: 02/16/00 20:00
Sample ID: 18609-2814	Date Analyzed: 02/18/00 19:55
Lab Samp ID: B082-03	Dilution Factor: 1
Lab File ID: WB18014A	Matrix : SOIL
Ext Btch ID: CPB015S	% Moisture : 16.8
Calib. Ref.: WB18003A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|ND	.0023	.00048|.00041
GAMMA-BHC (LINDANE)	(ND)|ND	.024	.00038|.00049
BETA-BHC	(ND)|ND	.04	.00031|.00021
HEPTACHLOR	(ND)|.0026J	.024	.00044|.00047
DELTA-BHC	(ND)|ND	.013	.00027|.00025
ALDRIN	(ND)|ND	.018	.00029|.00023
HEPTACHLOR EPOXIDE	(ND)|ND	.025	.00035|.00036
GAMMA-CHLORDANE	(ND)|ND	.018	.0005|.00089
ALPHA-CHLORDANE	(ND)|ND	.018	.00072|.00047
ENDOSULFAN I	(ND)|ND	.025	.00057|.00051
4,4'-DDE	(ND)|ND	.05	.00054|.00056
DIELDRIN	(ND)|ND	.042	.00034|.00026
ENDRIN	(ND)|ND	.043	.00028|.00026
4,4'-DDD	(ND)|ND	.0036	.00039|.00041
ENDOSULFAN II	(ND)|ND	.029	.00053|.00051
4,4'-DDT	(ND)|ND	.0036	.00027|.00027
ENDRIN ALDEHYDE	(ND)|ND	.019	.00024|.00016
ENDOSULFAN SULFATE	(ND)|ND	.043	.00047|.00041
METHOXYCHLOR	(ND)|ND	.069	.00027|.00024
TOXAPHENE	(ND)|ND	.84	.0014|.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	57|(74)	35-135
DECACHLOROBIPHENYL	72|(73)	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: 02/15/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 02/15/00
Batch No. : 008082	Date Extracted: 02/16/00 20:00
Sample ID: 18609-2815	Date Analyzed: 02/18/00 20:21
Lab Samp ID: B082-04	Dilution Factor: 1
Lab File ID: WB18015A	Matrix : SOIL
Ext Btch ID: CPB015S	% Moisture : 15.7
Calib. Ref.: WB18003A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	.0011J|(ND)	.0023	.00048|.0004
GAMMA-BHC (LINDANE)	(ND)|ND	.024	.00037|.00048
BETA-BHC	(ND)|ND	.039	.0003|.00021
HEPTACHLOR	(ND)|.0024J	.024	.00043|.00046
DELTA-BHC	(ND)|ND	.013	.00026|.00025
ALDRIN	(ND)|ND	.018	.00028|.00023
HEPTACHLOR EPOXIDE	(ND)|ND	.025	.00035|.00035
GAMMA-CHLORDANE	(ND)|ND	.018	.00049|.00088
ALPHA-CHLORDANE	(ND)|ND	.018	.00071|.00046
ENDOSULFAN I	(ND)|ND	.025	.00056|.0005
4,4'-DDE	(ND)|ND	.05	.00053|.00055
DIELDRIN	.0044J|(ND)	.042	.00034|.00026
ENDRIN	(ND)|ND	.043	.00028|.00025
4,4'-DDD	.0019J|(ND)	.0036	.00039|.00041
ENDOSULFAN II	(ND)|ND	.028	.00053|.0005
4,4'-DDT	(.027)|.019	.0036	.00027|.00026
ENDRIN ALDEHYDE	(.0023J)|.0063J	.019	.00024|.00015
ENDOSULFAN SULFATE	(ND)|ND	.043	.00047|.00041
METHOXYCHLOR	(ND)|ND	.068	.00026|.00023
TOXAPHENE	(ND)|ND	.83	.0014|.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	66|(80)	35-135
DECACHLOROBIPHENYL	68|(71)	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:	02/16/00
Batch No.	: 00B082	Date Extracted:	02/16/00 20:00
Sample ID:	MBLK1S	Date Analyzed:	02/18/00 16:57
Lab Samp ID:	CPB015SB	Dilution Factor:	1
Lab File ID:	WB18007A	Matrix :	SOIL
Ext Btch ID:	CPB015S	% Moisture :	NA
Calib. Ref.:	WB18003A	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)|.00099J	.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

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	71|(86)	35-135
DECACHLOROBIPHENYL	79|(81)	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

:LIENT: IT CORPORATION
'ROJECT: MCAS EL TORO/18609/D.O. 70
3ATCH NO.: 00B082
1ETHOD: SW3550A/8081

1ATRIX:	SOIL			% MOISTURE:	NA
)ILUTION FACTOR:	1	1	1		
3AMPLE ID:	MBLK1S				
.AB SAMP ID:	CPB015SB	CPB015SL	CPB015SC		
.AB FILE ID:	WB18007A	WB18008A	WB18009A		
)ATE EXTRACTED:	02/16/0020:00	02/16/0020:00	02/16/0020:00	DATE COLLECTED:	NA
)ATE ANALYZED:	02/18/0016:57	02/18/0017:22	02/18/0017:48	DATE RECEIVED:	02/16/00
'REP. BATCH:	CPB015S	CPB015S	CPB015S		
:ALIB. REF:	WB18003A	WB18003A	WB18003A		

\CCESSION:

'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 (%)	MAX RPD (%)
jamma-BHC (Lindane)	(ND)|ND	.00667	.00623J|(.00675J)	93|(101)	.00667	.00633J|(.00688J)	95|(103)	2|(2)	33-130	50
1eptachlor	(ND)|.00099J	.00667	.00652J|(.00806J)	98|(106)	.00667	.00686J|(.00842J)	103|(111)	5|(4)	35-138	50
\ldrin	(ND)|ND	.00667	.00633J|(.00668J)	95|(100)	.00667	.00648J|(.00683J)	97|(102)	2|(2)	37-126	50
)ieldrin	(ND)|ND	.0133	.0138J|(.0145J)	104|(109)	.0133	.0138J|(.0145J)	104|(109)	0|(0)	32-142	50
:ndrin	(ND)|ND	.0133	.0147J|(.0157J)	110|(118)	.0133	.0147J|(.0158J)	110|(119)	0|(1)	33-144	50
',4'-DDT	(ND)|ND	.0133	.0125|(.0163)	94|(122)	.0133	.0126|(.0167)	95|(125)	1|(2)	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	.0104|(.0129)	78|(96)	.0133	.0103|(.0114)	77|(86)	35-133
)ecachlorobiphenyl	.0133	.0108|(.011)	81|(83)	.0133	.0107|(.011)	80|(82)	25-143

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	02/15/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/15/00
Batch No.	: 00B082	Date Extracted:	02/16/00 20:00
Sample ID:	18609-2812	Date Analyzed:	02/18/00 19:04
Lab Samp ID:	B082-01	Dilution Factor:	1
Lab File ID:	WB18012A	Matrix :	SOIL
Ext Btch ID:	CPB015S	% Moisture :	17.2
Calib. Ref.:	WB18006A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.85	.0097|.0087
PCB-1221	(ND)|ND	.85	.04|.045
PCB-1232	(ND)|ND	.85	.017|.016
PCB-1242	(ND)|ND	.85	.033|.038
PCB-1248	(ND)|ND	.85	.042|.047
PCB-1254	(ND)|ND	.85	.0069|.0073
PCB-1260	(.057J)|.057J	.85	.0075|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	67|(86)	35-135
DECACHLOROBIPHENYL	74|(77)	25-143

PQL: Practical Quantitation Limit
of | is related to first column ; Right of | related to second column
ncluded the reported column
out side of QC Limit

SW3550B/8082
PCBs

Client : IT CORPORATION	Date Collected: 02/15/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 02/15/00
Batch No. : 00B082	Date Extracted: 02/16/00 20:00
Sample ID: 18609-2813	Date Analyzed: 02/18/00 19:30
Lab Samp ID: B082-02	Dilution Factor: 1
Lab File ID: WB18013A	Matrix : SOIL
Ext Btch ID: CPB015S	% Moisture : 16.2
Calib. Ref.: WB18006A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.84	.0096|.0086
PCB-1221	(ND)|ND	.84	.039|.044
PCB-1232	(ND)|ND	.84	.016|.016
PCB-1242	(ND)|ND	.84	.032|.038
PCB-1248	(ND)|ND	.84	.042|.046
PCB-1254	(ND)|ND	.84	.0068|.0072
PCB-1260	(.054J)|.052J	.84	.0074|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	72|(85)	35-135
DECACHLOROBIPHENYL	68|(70)	25-143

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

SW3550B/8082
PCBs

nt	: IT CORPORATION	Date Collected:	02/15/00
ct	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/15/00
n No.	: 00B082	Date Extracted:	02/16/00 20:00
Sample ID:	18609-2814	Date Analyzed:	02/18/00 19:55
Lab Samp ID:	B082-03	Dilution Factor:	1
Lab File ID:	WB18014A	Matrix :	SOIL
Ext Btch ID:	CPB015S	% Moisture :	16.8
Calib. Ref.:	WB18006A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.84	.0097|.0086
PCB-1221	(ND)|ND	.84	.04|.045
PCB-1232	(ND)|ND	.84	.017|.016
PCB-1242	(ND)|ND	.84	.033|.038
PCB-1248	(ND)|ND	.84	.042|.047
PCB-1254	(ND)|ND	.84	.0069|.0072
PCB-1260	(ND)|ND	.84	.0075|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	57|(74)	35-135
DECACHLOROBIPHENYL	72|(73)	25-143

PQL: Practical Quantitation Limit
of | is related to first column ; Right of | related to second column
ncluded the reported column
ut side of QC Limit

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	02/15/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/15/00
Batch No.	: 00B082	Date Extracted:	02/16/00 20:00
Sample ID:	18609-2815	Date Analyzed:	02/18/00 20:21
Lab Samp ID:	B082-04	Dilution Factor:	1
Lab File ID:	WB18015A	Matrix :	SOIL
Ext Btch ID:	CPB015S	% Moisture :	15.7
Calib. Ref.:	WB18006A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.83	.0096|.0085
PCB-1221	(ND)|ND	.83	.039|.044
PCB-1232	(ND)|ND	.83	.016|.016
PCB-1242	(ND)|ND	.83	.032|.038
PCB-1248	(ND)|ND	.83	.042|.046
PCB-1254	(ND)|ND	.83	.0068|.0071
PCB-1260	(.065J)|.065J	.83	.0074|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	66|(80)	35-135
DECACHLOROBIPHENYL	68|(71)	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/16/00
Batch No.	: 008082	Date Extracted:	02/16/00 20:00
Sample ID:	MBLK1S	Date Analyzed:	02/18/00 16:57
Lab Samp ID:	CPB015SB	Dilution Factor:	1
Lab File ID:	WB18007A	Matrix :	SOIL
Ext Btch ID:	CPB015S	% Moisture :	NA
Calib. Ref.:	WB18006A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.7	.0081|.0072
PCB-1221	(ND)|ND	.7	.033|.037
PCB-1232	(ND)|ND	.7	.014|.013
PCB-1242	(ND)|ND	.7	.027|.032
PCB-1248	(ND)|ND	.7	.035|.039
PCB-1254	(ND)|ND	.7	.0057|.006
PCB-1260	(ND)|ND	.7	.0062|.0089

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	71|(86)	35-135
DECACHLOROBIPHENYL	79|(81)	25-143

PQL: Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
(ND) Not detected the reported column
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00B082
METHOD: SW3550B/8082

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	CPB015SB	CPB016SL	CPB016SC		
LAB FILE ID:	WB18007A	WB18010A	WB18011A		
DATE EXTRACTED:	02/16/0020:00	02/16/0020:00	02/16/0020:00	DATE COLLECTED:	NA
DATE ANALYZED:	02/18/0016:57	02/18/0018:13	02/18/0018:39	DATE RECEIVED:	02/16/00
PREP. BATCH:	CPB015S	CPB015S	CPB015S		
CALIB. REF:	WB18006A	WB18006A	WB18006A		

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 (%)
PCB-1016	(ND)|ND	.167	.144J|(.163J)	86|(98)	.167	.136J|(.162J)	82|(97)	6|(1)	50-150	50
PCB-1260	(ND)|ND	.167	.142J|(.158J)	85|(95)	.167	.139J|(.157J)	83|(94)	2|(1)	50-150	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	.011|(.0128)	83|(96)	.0133	.0101|(.0109)	76|(82)	35-133
Decachlorobiphenyl	.0133	.0108|(.0111)	81|(83)	.0133	.0108|(.0111)	81|(83)	25-143

METHOD 3050B/6010B
METALS BY ICP

Client	: IT CORPORATION	Date Collected:	02/15/00
P[illegible]t	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/15/00
[illegible]	: 00B082	Date Extracted:	02/21/00 14:45
Sa[illegible]e ID:	18609-2812	Date Analyzed:	02/22/00 17:33
Lab Samp ID:	B082-01	Dilution Factor:	1
Lab File ID:	I07B037017	Matrix :	SOIL
Ext Btch ID:	IPB027S	% Moisture :	17.2
Calib. Ref.:	I07B037007	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	27800	60.4	7.54
Antimony	ND	12.1	4.32
Barium	257	1.21	.157
Beryllium	1.05	.242	.0242
Cadmium	1.6	1.21	.0845
Calcium	7830	604	2.4
Chromium	27.2	1.21	.725
Cobalt	8.83	1.21	.737
Copper	20.2	1.21	.894
Iron	28400	24.2	.864
Magnesium	12200	604	6.35
Manganese	427	2.42	.145
Molybdenum	ND	2.42	.785
Nickel	22.5	2.42	.556
Potassium	6850	604	234
Silver	ND	2.42	1.7
Sodium	ND	604	7.72
Vanadium	71.6	1.21	1
Zinc	84.3	1.21	.314

[illegible]porting Limit

METHOD 3050B/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	02/15/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/15/00
SDG NO.	: 00B082	Date Extracted:	02/21/00 14:45
Sample ID:	18609-2812	Date Analyzed:	02/23/00 14:34
Lab Samp ID:	B082-01	Dilution Factor:	1
Lab File ID:	I31B037014	Matrix :	SOIL
Ext Btch ID:	IPB027S	% Moisture :	17.2
Calib. Ref.:	I31B037008	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	7.34	1.21	.62
Lead	5.72	1.21	.319
Selenium	ND	1.21	.547
Thallium	ND	1.21	.563

RL: Reporting Limit

METHOD 3050B/6010B
METALS BY ICP

Client	: IT CORPORATION	Date Collected:	02/15/00
P[illegible]nt	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/15/00
[illegible]	: 00B082	Date Extracted:	02/21/00 14:45
Sa[illegible] ID:	18609-2814	Date Analyzed:	02/22/00 17:53
Lab Samp ID:	B082-03	Dilution Factor:	1
Lab File ID:	I07B037021	Matrix :	SOIL
Ext Btch ID:	IPB027S	% Moisture :	16.8
Calib. Ref.:	I07B037019	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16600	60.1	7.5
Antimony	ND	12	4.3
Barium	161	1.2	.156
Beryllium	.644	.24	.024
Cadmium	ND	1.2	.0841
Calcium	5480	601	2.39
Chromium	15.5	1.2	.721
Cobalt	5.74	1.2	.733
Copper	11.7	1.2	.889
Iron	18800	24	.859
Magnesium	7850	601	6.32
Manganese	298	2.4	.144
Molybdenum	ND	2.4	.781
Nickel	11.6	2.4	.553
Potassium	5550	601	233
Silver	ND	2.4	1.69
Sodium	ND	601	7.68
Vanadium	41.3	1.2	.998
Zinc	55.3	1.2	.313

[illegible]eporting Limit

METHOD 3050B/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	02/15/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/15/00
SDG NO.	: 00B082	Date Extracted:	02/21/00 14:45
Sample ID:	18609-2814	Date Analyzed:	02/23/00 14:41
Lab Samp ID:	B082-03	Dilution Factor:	1
Lab File ID:	I31B037016	Matrix :	SOIL
Ext Btch ID:	IPB027S	% Moisture :	16.8
Calib. Ref.:	I31B037008	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	4.06	1.2	.617
Lead	3.63	1.2	.317
Selenium	ND	1.2	.544
Thallium	ND	1.2	.56

RL: Reporting Limit

METHOD 3050B/6010B
METALS BY ICP

Client	: IT CORPORATION	Date Collected:	NA
P[illegible]t	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/21/00
S[illegible]	: 00B082	Date Extracted:	02/21/00 14:45
Sample ID:	MBLK1S	Date Analyzed:	02/22/00 16:52
Lab Samp ID:	IPB027SB	Dilution Factor:	1
Lab File ID:	I07B037009	Matrix :	SOIL
Ext Btch ID:	IPB027S	% Moisture :	NA
Calib. Ref.:	I07B037007	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	2	1.41
Sodium	ND	500	6.39
Vanadium	ND	1	.83
Zinc	ND	1	.26

R[illegible]porting Limit

METHOD 3050B/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/21/00
SDG NO.	: 00B082	Date Extracted:	02/21/00 14:45
Sample ID:	MBLK1S	Date Analyzed:	02/23/00 14:19
Lab Samp ID:	IPB027SB	Dilution Factor:	1
Lab File ID:	I31B037010	Matrix :	SOIL
Ext Btch ID:	IPB027S	% Moisture :	NA
Calib. Ref.:	I31B037008	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	ND	1	.513
Lead	ND	1	.264
Selenium	ND	1	.453
Thallium	ND	1	.466

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
NO.: 00B082
D: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	MBLK1S			
CONTROL NO.:	IPB027SB	IPB027SL		
LAB FILE ID:	I07B037009	I07B037010		
DATIME EXTRCTD:	02/21/0014:45	02/21/0014:45	DATE COLLECTED:	NA
DATIME ANALYZD:	02/22/0016:52	02/22/0016:57	DATE RECEIVED:	02/21/00
PREP. BATCH:	IPB027S	IPB027S		
CALIB. REF:	I07B037007	I07B037007		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Aluminum	ND	1000	943	94	80-120
Antimony	ND	500	440	88	80-120
Barium	ND	100	97.8	98	80-120
Beryllium	ND	100	95.1	95	80-120
Cadmium	ND	100	88.5	89	80-120
Calcium	ND	5000	4600	92	80-120
Chromium	ND	100	94.2	94	80-120
Cobalt	ND	100	93.5	93	80-120
Copper	ND	100	93.8	94	80-120
Iron	ND	1000	938	94	80-120
Magnesium	ND	5000	4480	90	80-120
Manganese	ND	100	91.9	92	80-120
bdenum	ND	100	94.3	94	80-120
el	ND	100	91.4	91	80-120
assium	ND	5000	4800	96	80-120
Silver	ND	100	92.4	92	80-120
Sodium	ND	5000	4770	95	80-120
Vanadium	ND	100	94.8	95	80-120
Zinc	ND	100	90.7	91	80-120

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 00B082
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	MBLK1S			
CONTROL NO.:	IPB027SB	IPB027SL		
LAB FILE ID:	I31B037010	I31B037011		
DATIME EXTRCTD:	02/21/0014:45	02/21/0014:45	DATE COLLECTED:	NA
DATIME ANALYZD:	02/23/0014:19	02/23/0014:23	DATE RECEIVED:	02/21/00
PREP. BATCH:	IPB027S	IPB027S		
CALIB. REF:	I31B037008	I31B037008		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Arsenic	ND	100	91.4	91	80-120
Lead	ND	100	86.8	87	80-120
Selenium	ND	100	92.3	92	80-120
Thallium	ND	100	92.1	92	80-120

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
NO.: 00B082
: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	18.8
DILUTION FACTOR:	1	5		
SAMPLE ID:	DZ9007	DZ9007DL		
EMAX SAMP ID:	B043-01	B043-01T		
LAB FILE ID:	I07B037016	I07B037015		
DATE EXTRACTED:	02/21/0014:45	02/21/0014:45	DATE COLLECTED:	02/04/00
DATE ANALYZED:	02/22/0017:27	02/22/0017:22	DATE RECEIVED:	02/09/00
PREP. BATCH:	IPB027S	IPB027S		
CALIB. REF:	I07B037007	I07B037007		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Aluminum	1310	1390	6	10
Antimony	ND	ND	0	10
Barium	7.78	7.8	0	10
Beryllium	ND	ND	0	10
Cadmium	ND	ND	0	10
Calcium	ND	ND	0	10
Chromium	4.16	ND	NA	10
Cobalt	ND	ND	0	10
Copper	1.81	ND	NA	10
Iron	2660	2860	7	10
Magnesium	ND	ND	0	10
Manganese	28.1	30.1	7	10
[illegible]denum	ND	ND	0	10
[illegible]	ND	ND	0	10
Po[illegible]sium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	ND	ND	0	10
Vanadium	5.53	7.41	34*	10
Zinc	6.03	7.35	22*	10

* Out of QC limit

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00B082
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.2
DILUTION FACTOR:	1	5		
SAMPLE ID:	18609-2812	18609-2812DL		
EMAX SAMP ID:	B082-01	B082-01T		
LAB FILE ID:	I31B037014	I31B037013		
DATE EXTRACTED:	02/21/0014:45	02/21/0014:45	DATE COLLECTED:	02/15/00
DATE ANALYZED:	02/23/0014:34	02/23/0014:30	DATE RECEIVED:	02/15/00
PREP. BATCH:	IPB027S	IPB027S		
CALIB. REF:	I31B037008	I31B037008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Arsenic	7.34	10.4	41*	10
Lead	5.72	6.91	21*	10
Selenium	ND	ND	0	10
Thallium	ND	ND	0	10

* Out of QC limit

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
NO.: 00B082
): METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	18.8
DILTN FACTR:	1	1		
SAMPLE ID:	DZ9007			
CONTROL NO.:	B043-01	B043-01A		
LAB FILE ID:	I07B037016	I07B037013		
DATIME EXTRCTD:	02/21/0014:45	02/21/0014:45	DATE COLLECTED:	02/04/00
DATIME ANALYZD:	02/22/0017:27	02/22/0017:12	DATE RECEIVED:	02/09/00
PREP. BATCH:	IPB027S	IPB027S		
CALIB. REF:	I07B037007	I07B037007		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Aluminum	1310	1230	2470	94	75-125
Antimony	ND	61.6	52.8	86	75-125
Barium	7.78	123	131	100	75-125
Beryllium	ND	123	119	96	75-125
Cadmium	ND	123	110	89	75-125
Calcium	ND	6160	6130	100	75-125
Chromium	4.16	123	121	95	75-125
Cobalt	ND	123	117	95	75-125
Copper	1.81	123	120	96	75-125
Iron	2660	1230	3740	88	75-125
Magnesium	ND	6160	6100	99	75-125
Manganese	28.1	123	142	93	75-125
[illegible]denum	ND	123	118	96	75-125
[illegible]	ND	123	116	94	75-125
Potassium	ND	6160	6260	102	75-125
Silver	ND	123	114	93	75-125
Sodium	ND	6160	6050	98	75-125
Vanadium	5.53	123	124	96	75-125
Zinc	6.03	123	119	91	75-125

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 00B082
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.2
DILTN FACTR:	1	1		
SAMPLE ID:	18609-2812			
CONTROL NO.:	B082-01	B082-01A		
LAB FILE ID:	I31B037014	I31B037019		
DATIME EXTRCTD:	02/21/0014:45	02/21/0014:45	DATE COLLECTED:	02/15/00
DATIME ANALYZD:	02/23/0014:34	02/23/0014:52	DATE RECEIVED:	02/15/00
PREP. BATCH:	IPB027S	IPB027S		
CALIB. REF:	I31B037008	I31B037008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Arsenic	7.34	60.4	60.6	88	75-125
Lead	5.72	60.4	55.5	82	75-125
Selenium	ND	60.4	54.3	90	75-125
Thallium	ND	60.4	53.1	88	75-125

METHOD 7471A
MERCURY BY COLD VAPOR

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00B082

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	HGB027SB	ND	1	NA	.1	.028	02/23/0019:12	02/23/0012:00	M00B039008	M00B039006	HGB027S	NA	02/23/00
LCS1S	HGB027SL	.783	1	NA	.1	.028	02/23/0019:14	02/23/0012:00	M00B039009	M00B039006	HGB027S	NA	02/23/00
LCD1S	HGB027SC	.757	1	NA	.1	.028	02/23/0019:16	02/23/0012:00	M00B039010	M00B039006	HGB027S	NA	02/23/00
18609-2812	B082-01	ND	1	17.2	.121	.0338	02/23/0019:18	02/23/0012:00	M00B039011	M00B039006	HGB027S	02/15/00	02/15/00
18609-2814	B082-03	ND	1	16.8	.12	.0337	02/23/0019:22	02/23/0012:00	M00B039013	M00B039006	HGB027S	02/15/00	02/15/00

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

:LIENT: IT CORPORATION
'ROJECT: MCAS EL TORO/18609/D.O. 70
:DG NO.: 00B082
IETHOD: METHOD 7471A

ATRIX:	SOIL			% MOISTURE:	NA
ILTN FACTR:	1	1	1		
AMPLE ID:	MBLK1S				
ONTROL NO.:	HGB027SB	HGB027SL	HGB027SC		
AB FILE ID:	M00B039008	M00B039009	M00B039010		
ATIME EXTRCTD:	02/23/0012:00	02/23/0012:00	02/23/0012:00	DATE COLLECTED:	NA
ATIME ANALYZD:	02/23/0019:12	02/23/0019:14	02/23/0019:16	DATE RECEIVED:	02/23/00
REP. BATCH:	HGB027S	HGB027S	HGB027S		
ALIB. REF:	M00B039006	M00B039006	M00B039006		

CCESSION:

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 %	MAX RPD %
ercury	ND	.769	.783	102	.769	.757	98	3	77-120	25

the igroup

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

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

A 10699

SWMU -88

FORM 0019 REV. 9-99

LAB COORDINATOR: M CONCERTION	LAB COORDINATOR'S PHONE: 949-660-7550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 008093	LABORATORY CONTACT: E MAX	MAIL REPORT (COMPANY NAME): IT GROUP
PROJECT NAME: EL TORO TO70	PROJECT LOCATION: MCAS EL TORO	PROJECT NUMBER: 918609	LABORATORY PHONE: 30-612-3889	LABORATORY FAX: —	RECIPIENT NAME: D ISHIDA
PROJECT CONTACT: M CONCERTION	PROJECT PHONE NUMBER: 949-451-1667	PROJECT FAX: 949-475-5433	LABORATORY ADDRESS: 625 MAPLE		ADDRESS: 3347 MICHELSON DRIVE
PROJECT ADDRESS: —	CITY, STATE AND ZIP CODE:	CLIENT: S.W. DIV	CITY, STATE AND ZIP CODE: ORLANDO CA		CITY, STATE AND ZIP CODE: IRVINE CA 92612
PROJECT MANAGER: B SEDLAK	PROJECT MANAGER'S PHONE: 949-660-3443	PROJECT MANAGER'S FAX: —			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: TCL-TCL	Analyses: 8260	Analyses: 8260 MEOH	Comments
1	18609 - 2816	S	9/24/99	930	4°C	1	3	5 DAY	X	X		
2	18609 - 2817	S		945		1	3		*	*		* ANALYZE 2817 ONLY IF 2816 SHOWS A TEST HIT
3	18609 - 2818	S		1120		1	3		X	X		
4	18609 - 2819	S		1120		1	3		*	*		* ANALYZE 2819 ONLY IF 2818 HAS A TEST HIT
5												
6												
7												
8												
9												
10												

SAMPLES COLLECTED BY: MY MAINS

COURIER AND AIR BILL NUMBER: COURIER

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
	Mark Hunter	2/16/00	7:30	

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

SWMU-88

Sample Point Location	G	C	F	QC
1-SB-04-SWMU-88 2.5-3.0	X			
2-SB-04-SWMU-88 4.5-5.0	X			
3-SB-10-SWMU-88 2.5-3.0	X			
4-SB-10-SWMU-88 4.5-5	X			

Comments

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

4724

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

Date: 03-07-2000
EMAX Batch No.: 00B093

Attn: 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 02/16/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2816	B093-01	02/16/00	Soil	Pesticides and PCBs by GC
				CAM Metals
				Mercury
18609-2817	B093-02	02/16/00	Soil	Pesticides and PCBs by GC
18609-2818	B093-03	02/16/00	Soil	Mercury
				CAM Metals
				Pesticides and PCBs by GC
18609-2819	B093-04	02/16/00	Soil	Pesticides and PCBs by GC

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

SW3550A/8081
PESTICIDES/PCBS

Client	: IT CORPORATION	Date Collected:	02/16/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/16/00
Batch No.	: 00B093	Date Extracted:	02/16/00 20:00
Sample ID:	18609-2816	Date Analyzed:	02/18/00 20:46
Lab Samp ID:	B093-01	Dilution Factor:	2
Lab File ID:	WB18016A	Matrix	: SOIL
Ext Btch ID:	CPB015S	% Moisture	: 12.1
Calib. Ref.:	WB18003A	Instrument ID	: GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|ND	.0043	.00091|.00077
GAMMA-BHC (LINDANE)	(ND)|ND	.046	.00072|.00093
BETA-BHC	(ND)|ND	.075	.00058|.00039
HEPTACHLOR	(ND)|.0022J	.046	.00083|.00089
DELTA-BHC	(ND)|ND	.025	.00051|.00048
ALDRIN	(ND)|ND	.034	.00054|.00044
HEPTACHLOR EPOXIDE	(ND)|ND	.048	.00067|.00068
GAMMA-CHLORDANE	(ND)|ND	.034	.00094|.0017
ALPHA-CHLORDANE	(ND)|ND	.034	.0014|.00088
ENDOSULFAN I	(ND)|ND	.048	.0011|.00096
4,4'-DDE	(.0048J)|.004J	.096	.001|.0011
DIELDRIN	.0046J|(.0024J)	.08	.00065|.0005
ENDRIN	(ND)|ND	.082	.00054|.00049
4,4'-DDD	.0031J|(ND)	.0068	.00074|.00078
ENDOSULFAN II	(ND)|ND	.055	.001|.00097
4,4'-DDT	(.02)|.032	.0068	.00051|.00051
ENDRIN ALDEHYDE	(ND)|.0056J	.036	.00045|.0003
ENDOSULFAN SULFATE	(ND)|ND	.082	.0009|.00078
METHOXYCHLOR	.011J|(ND)	.13	.00051|.00045
TOXAPHENE	(ND)|ND	1.6	.0027|.0047

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(93)|112	35-135
DECACHLOROBIPHENYL	(84)|79	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:	02/16/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/16/00
Batch No.	: 00B093	Date Extracted:	02/16/00 20:00
Sample ID:	18609-2817	Date Analyzed:	02/18/00 21:11
Lab Samp ID:	B093-02	Dilution Factor:	1
Lab File ID:	WB18017A	Matrix :	SOIL
Ext Btch ID:	CPB015S	% Moisture :	13.7
Calib. Ref.:	WB18003A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND) | ND	.0022	.00047 | .00039
GAMMA-BHC (LINDANE)	(ND) | ND	.023	.00037 | .00047
BETA-BHC	.0026J | (ND)	.038	.0003 | .0002
HEPTACHLOR	(ND) | .0018J	.023	.00042 | .00045
DELTA-BHC	(ND) | ND	.013	.00026 | .00024
ALDRIN	(ND) | ND	.017	.00028 | .00022
HEPTACHLOR EPOXIDE	(ND) | .0056J	.024	.00034 | .00034
GAMMA-CHLORDANE	(ND) | .011J	.017	.00048 | .00086
ALPHA-CHLORDANE	(ND) | ND	.017	.0007 | .00045
ENDOSULFAN I	(ND) | ND	.024	.00055 | .00049
4,4'-DDE	.0092J | (.0096J)	.049	.00052 | .00054
DIELDRIN	.02J | (.0073J)	.041	.00033 | .00025
ENDRIN	.0085J | (ND)	.042	.00027 | .00025
4,4'-DDD	.011 | (.0042)	.0035	.00038 | .0004
ENDOSULFAN II	(ND) | ND	.028	.00052 | .00049
4,4'-DDT	(.046E) | .12E	.0035	.00026 | .00026
ENDRIN ALDEHYDE	(.0065J) | .027	.019	.00023 | .00015
ENDOSULFAN SULFATE	(.0025J) | .0046J	.042	.00046 | .0004
METHOXYCHLOR	.038J | (.0089J)	.066	.00026 | .00023
TOXAPHENE	(ND) | ND	.81	.0014 | .0024

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	88 | (95)	35-135
DECACHLOROBIPHENYL	(86) | 74	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:	02/16/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/16/00
Batch No.	: 00B093	Date Extracted:	02/16/00 20:00
Sample ID:	18609-2817DL	Date Analyzed:	02/22/00 23:17
Lab Samp ID:	B093-02T	Dilution Factor:	5
Lab File ID:	WB18035A	Matrix :	SOIL
Ext Btch ID:	CPB015S	% Moisture :	13.7
Calib. Ref.:	WB18029A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|ND	.011	.0023|.002
GAMMA-BHC (LINDANE)	(ND)|ND	.12	.0018|.0024
BETA-BHC	(ND)|ND	.19	.0015|.001
HEPTACHLOR	(ND)|.0023J	.12	.0021|.0023
DELTA-BHC	(ND)|ND	.064	.0013|.0012
ALDRIN	(ND)|ND	.087	.0014|.0011
HEPTACHLOR EPOXIDE	(ND)|.0067J	.12	.0017|.0017
GAMMA-CHLORDANE	(ND)|.012J	.087	.0024|.0043
ALPHA-CHLORDANE	(ND)|ND	.087	.0035|.0022
ENDOSULFAN I	(ND)|ND	.12	.0027|.0025
4,4'-DDE	.016J|(.0089J)	.24	.0026|.0027
DIELDRIN	.027J|(.0092J)	.2	.0017|.0013
ENDRIN	.007J|(ND)	.21	.0014|.0012
4,4'-DDD	.013J|(ND)	.017	.0019|.002
ENDOSULFAN II	(ND)|ND	.14	.0026|.0025
4,4'-DDT	(.055)|.13	.017	.0013|.0013
ENDRIN ALDEHYDE	(.0071J)|.031J	.093	.0012|.00075
ENDOSULFAN SULFATE	(ND)|.0048J	.21	.0023|.002
METHOXYCHLOR	.037J|(.0087J)	.33	.0013|.0011
TOXAPHENE	(ND)|ND	4.1	.007|.012

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	88|(90)	35-135
DECACHLOROBIPHENYL	(107)|79	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:	02/16/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/16/00
Batch No.	: 008093	Date Extracted:	02/16/00 20:00
Sample ID:	18609-2818	Date Analyzed:	02/18/00 21:37
Lab Samp ID:	B093-03	Dilution Factor:	1
Lab File ID:	WB18018A	Matrix :	SOIL
Ext Btch ID:	CPB015S	% Moisture :	21.7
Calib. Ref.:	WB18003A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	.001J | (ND)	.0024	.00051 | .00043
GAMMA-BHC (LINDANE)	(ND) | ND	.026	.0004 | .00052
BETA-BHC	(ND) | ND	.042	.00033 | .00022
HEPTACHLOR	(ND) | .0029J	.026	.00046 | .0005
DELTA-BHC	(ND) | ND	.014	.00028 | .00027
ALDRIN	(ND) | ND	.019	.00031 | .00025
HEPTACHLOR EPOXIDE	(ND) | .013J	.027	.00038 | .00038
GAMMA-CHLORDANE	(ND) | .017J	.019	.00053 | .00095
ALPHA-CHLORDANE	(ND) | ND	.019	.00077 | .0005
ENDOSULFAN I	(ND) | ND	.027	.00061 | .00054
4,4'-DDE	(ND) | .015J	.054	.00057 | .00059
DIELDRIN	.049 | (.017J)	.045	.00037 | .00028
ENDRIN	.015J | (.0014J)	.046	.0003 | .00027
4,4'-DDD	.021 | (.0025J)	.0038	.00042 | .00044
ENDOSULFAN II	.0013J | (ND)	.031	.00057 | .00054
4,4'-DDT	(.036) | .23E	.0038	.00029 | .00028
ENDRIN ALDEHYDE	(.016J) | .07E	.02	.00025 | .00017
ENDOSULFAN SULFATE	.008J | (.011J)	.046	.0005 | .00044
METHOXYCHLOR	.006J | (.015J)	.073	.00028 | .00025
TOXAPHENE	(ND) | ND	.89	.0015 | .0027

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	78 | (83)	35-135
DECACHLOROBIPHENYL	77 | (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

Client	: IT CORPORATION	Date Collected:	02/16/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/16/00
Batch No.	: 00B093	Date Extracted:	02/16/00 20:00
Sample ID:	18609-2818DL	Date Analyzed:	02/22/00 23:42
Lab Samp ID:	B093-03T	Dilution Factor:	10
Lab File ID:	WB18036A	Matrix :	SOIL
Ext Btch ID:	CPB015S	% Moisture :	21.7
Calib. Ref.:	WB18029A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|ND	.024	.0051|.0043
GAMMA-BHC (LINDANE)	(ND)|ND	.26	.004|.0052
BETA-BHC	(ND)|ND	.42	.0033|.0022
HEPTACHLOR	(ND)|ND	.26	.0046|.005
DELTA-BHC	(ND)|ND	.14	.0028|.0027
ALDRIN	(ND)|ND	.19	.0031|.0025
HEPTACHLOR EPOXIDE	(ND)|.016J	.27	.0038|.0038
GAMMA-CHLORDANE	(ND)|.022J	.19	.0053|.0095
ALPHA-CHLORDANE	(ND)|ND	.19	.0077|.005
ENDOSULFAN I	(ND)|ND	.27	.0061|.0054
4,4'-DDE	(ND)|.014J	.54	.0057|.0059
DIELDRIN	.075J|(.018J)	.45	.0037|.0028
ENDRIN	.018J|(ND)	.46	.003|.0027
4,4'-DDD	.033J|(ND)	.038	.0042|.0044
ENDOSULFAN II	(ND)|ND	.31	.0057|.0054
4,4'-DDT	(.42)|.28	.038	.0029|.0028
ENDRIN ALDEHYDE	(.018J)|.086J	.2	.0025|.0017
ENDOSULFAN SULFATE	(.016J)|.011J	.46	.005|.0044
METHOXYCHLOR	.071J|(.018J)	.73	.0028|.0025
TOXAPHENE	(ND)|ND	8.9	.015|.027

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	76|(120)	35-135
DECACHLOROBIPHENYL	(103)|107	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:	02/16/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/16/00
Batch No.	: 008093	Date Extracted:	02/16/00 20:00
Sample ID:	18609-2819	Date Analyzed:	02/18/00 22:02
Lab Samp ID:	B093-04	Dilution Factor:	1
Lab File ID:	WB18019A	Matrix :	SOIL
Ext Btch ID:	CPB015S	% Moisture :	16.9
Calib. Ref.:	WB18003A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|ND	.0023	.00048|.00041
GAMMA-BHC (LINDANE)	(ND)|ND	.024	.00038|.00049
BETA-BHC	(ND)|ND	.04	.00031|.00021
HEPTACHLOR	(ND)|.0023J	.024	.00044|.00047
DELTA-BHC	(ND)|ND	.013	.00027|.00025
ALDRIN	(ND)|ND	.018	.00029|.00023
HEPTACHLOR EPOXIDE	(ND)|.003J	.025	.00035|.00036
GAMMA-CHLORDANE	(ND)|.0043J	.018	.0005|.00089
ALPHA-CHLORDANE	(ND)|ND	.018	.00072|.00047
ENDOSULFAN I	(ND)|ND	.025	.00057|.00051
4,4'-DDE	(ND)|.0021J	.051	.00054|.00056
DIELDRIN	.012J|(.0038J)	.042	.00035|.00026
ENDRIN	.0033J|(ND)	.043	.00028|.00026
4,4'-DDD	.0049|(ND)	.0036	.00039|.00042
ENDOSULFAN II	(ND)|ND	.029	.00054|.00051
4,4'-DDT	(.071E)|.05E	.0036	.00027|.00027
ENDRIN ALDEHYDE	(.0035J)|.017J	.019	.00024|.00016
ENDOSULFAN SULFATE	.0018J|(.0021J)	.043	.00047|.00041
METHOXYCHLOR	.013J|(ND)	.069	.00027|.00024
TOXAPHENE	(ND)|ND	.84	.0014|.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	73|(89)	35-135
DECACHLOROBIPHENYL	(73)|72	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:	02/16/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/16/00
Lab No.	: 00B093	Date Extracted:	02/16/00 20:00
Sample ID:	18609-2819DL	Date Analyzed:	02/23/00 00:07
Lab Samp ID:	B093-04T	Dilution Factor:	5
Lab File ID:	WB18037A	Matrix :	SOIL
Ext Btch ID:	CPB015S	% Moisture :	16.9
Calib. Ref.:	WB18029A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND) | ND	.011	.0024 | .002
GAMMA-BHC (LINDANE)	(ND) | ND	.12	.0019 | .0024
BETA-BHC	(ND) | ND	.2	.0015 | .001
HEPTACHLOR	(ND) | .0024J	.12	.0022 | .0023
DELTA-BHC	(ND) | ND	.066	.0013 | .0013
ALDRIN	(ND) | ND	.09	.0014 | .0012
HEPTACHLOR EPOXIDE	(ND) | .0036J	.13	.0018 | .0018
GAMMA-CHLORDANE	(ND) | .0049J	.09	.0025 | .0045
ALPHA-CHLORDANE	(ND) | ND	.09	.0036 | .0023
ENDOSULFAN I	(ND) | ND	.13	.0029 | .0026
4,4'-DDE	(ND) | ND	.25	.0027 | .0028
DIELDRIN	.015J | (.0061J)	.21	.0017 | .0013
ENDRIN	.0033J | (ND)	.22	.0014 | .0013
4,4'-DDD	(ND) | ND	.018	.002 | .0021
ENDOSULFAN II	(ND) | ND	.14	.0027 | .0026
4,4'-DDT	(.084) | .056	.018	.0014 | .0013
ENDRIN ALDEHYDE	(.0034J) | .018J	.096	.0012 | .00078
ENDOSULFAN SULFATE	(ND) | ND	.22	.0024 | .0021
METHOXYCHLOR	.013J | (ND)	.34	.0013 | .0012
TOXAPHENE	(ND) | ND	4.2	.0072 | .013

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	82 | (88)	35-135
DECACHLOROBIPHENYL	(96) | 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

Client : IT CORPORATION	Date Collected: NA
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 02/16/00
Batch No. : 008093	Date Extracted: 02/16/00 20:00
Sample ID: MBLK1S	Date Analyzed: 02/18/00 16:57
Lab Samp ID: CPB015SB	Dilution Factor: 1
Lab File ID: WB18007A	Matrix : SOIL
Ext Btch ID: CPB015S	% Moisture : NA
Calib. Ref.: WB18003A	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)|.00099J	.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

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	71|(86)	35-135
DECACHLOROBIPHENYL	79|(81)	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 CONTRL ATA
LCS/LCD ANALYSIS

:LIENT: IT CORPORATION
'ROJECT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: 00B093
ETHOD: SW3550A/8081

ATRIX:	SOIL			% MOISTURE:	NA
ILUTION FACTOR:	1	1	1		
AMPLE ID:	MBLK1S				
AB SAMP ID:	CPB015SB	CPB015SL	CPB015SC		
AB FILE ID:	WB18007A	WB18008A	WB18009A		
ATE EXTRACTED:	02/16/0020:00	02/16/0020:00	02/16/0020:00	DATE COLLECTED:	NA
ATE ANALYZED:	02/18/0016:57	02/18/0017:22	02/18/0017:48	DATE RECEIVED:	02/16/00
REP. BATCH:	CPB015S	CPB015S	CPB015S		
ALIB. REF:	WB18003A	WB18003A	WB18003A		

CCESSION:

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 (%)	MAX RPD (%)
amma-BHC (Lindane)	(ND)|ND	.00667	.00623J|(.00675J)	93|(101)	.00667	.00633J|(.00688J)	95|(103)	2|(2)	33-130	50
eptachlor	(ND)|.00099J	.00667	.00652J|(.00806J)	98|(106)	.00667	.00686J|(.00842J)	103|(111)	5|(4)	35-138	50
ldrin	(ND)|ND	.00667	.00633J|(.00668J)	95|(100)	.00667	.00648J|(.00683J)	97|(102)	2|(2)	37-126	50
ieldrin	(ND)|ND	.0133	.0138J|(.0145J)	104|(109)	.0133	.0138J|(.0145J)	104|(109)	0|(0)	32-142	50
ndrin	(ND)|ND	.0133	.0147J|(.0157J)	110|(118)	.0133	.0147J|(.0158J)	110|(119)	0|(1)	33-144	50
,4'-DDT	(ND)|ND	.0133	.0125|(.0163)	94|(122)	.0133	.0126|(.0167)	95|(125)	1|(2)	25-153	50

URROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
etrachloro-m-xylene	.0133	.0104|(.0129)	78|(96)	.0133	.0103|(.0114)	77|(86)	35-133
ecachlorobiphenyl	.0133	.0108|(.011)	81|(83)	.0133	.0107|(.011)	80|(82)	25-143

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	02/16/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/16/00
Batch No.	: 00B093	Date Extracted:	02/16/00 20:00
Sample ID:	18609-2816	Date Analyzed:	02/18/00 20:46
Lab Samp ID:	B093-01	Dilution Factor:	2
Lab File ID:	WB18016A	Matrix :	SOIL
Ext Btch ID:	CPB015S	% Moisture :	12.1
Calib. Ref.:	WB18006A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	1.6	.018|.016
PCB-1221	(ND)|ND	1.6	.075|.084
PCB-1232	(ND)|ND	1.6	.031|.03
PCB-1242	(ND)|ND	1.6	.062|.072
PCB-1248	(ND)|ND	1.6	.08|.088
PCB-1254	(ND)|ND	1.6	.013|.014
PCB-1260	(.067J)|.067J	1.6	.014|.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(93)|112	35-135
DECACHLOROBIPHENYL	(84)|79	25-143

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

SW3550B/8082
PCBs

Client : IT CORPORATION	Date Collected: 02/16/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 02/16/00
Batch No. : 00B093	Date Extracted: 02/16/00 20:00
Sample ID: 18609-2817	Date Analyzed: 02/18/00 21:11
Lab Samp ID: B093-02	Dilution Factor: 1
Lab File ID: WB18017A	Matrix : SOIL
Ext Btch ID: CPB015S	% Moisture : 13.7
Calib. Ref.: WB18006A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.81	.0094|.0083
PCB-1221	(ND)|ND	.81	.038|.043
PCB-1232	(ND)|ND	.81	.016|.015
PCB-1242	(ND)|ND	.81	.032|.037
PCB-1248	(ND)|ND	.81	.041|.045
PCB-1254	(ND)|ND	.81	.0066|.007
PCB-1260	.3J|(.32J)	.81	.0072|.01

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	88|(95)	35-135
DECACHLOROBIPHENYL	(86)|74	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	02/16/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/16/00
Batch No.	: 008093	Date Extracted:	02/16/00 20:00
Sample ID:	18609-2818	Date Analyzed:	02/18/00 21:37
Lab Samp ID:	B093-03	Dilution Factor:	1
Lab File ID:	WB18018A	Matrix	: SOIL
Ext Btch ID:	CPB015S	% Moisture	: 21.7
Calib. Ref.:	WB18006A	Instrument ID	: GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.89	.01|.0092
PCB-1221	(ND)|ND	.89	.042|.047
PCB-1232	(ND)|ND	.89	.018|.017
PCB-1242	(ND)|ND	.89	.035|.041
PCB-1248	(ND)|ND	.89	.045|.05
PCB-1254	(ND)|ND	.89	.0073|.0077
PCB-1260	.75E|(.82E)	.89	.008|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	78|(83)	35-135
DECACHLOROBIPHENYL	77|(85)	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	02/16/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/16/00
Job No.	: 00B093	Date Extracted:	02/16/00 20:00
Sample ID:	18609-2818DL	Date Analyzed:	02/22/00 23:42
Lab Samp ID:	B093-03T	Dilution Factor:	10
Lab File ID:	WB18036A	Matrix :	SOIL
Ext Btch ID:	CPB015S	% Moisture :	21.7
Calib. Ref.:	WB18032A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	8.9	.1|.092
PCB-1221	(ND)|ND	8.9	.42|.47
PCB-1232	(ND)|ND	8.9	.18|.17
PCB-1242	(ND)|ND	8.9	.35|.41
PCB-1248	(ND)|ND	8.9	.45|.5
PCB-1254	(ND)|ND	8.9	.073|.077
PCB-1260	(1J)|1J	8.9	.08|.11

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	76|(120)	35-135
DECACHLOROBIPHENYL	(103)|107	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	02/16/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/16/00
Batch No.	: 00B093	Date Extracted:	02/16/00 20:00
Sample ID:	18609-2819	Date Analyzed:	02/18/00 22:02
Lab Samp ID:	B093-04	Dilution Factor:	1
Lab File ID:	WB18019A	Matrix :	SOIL
Ext Btch ID:	CPB015S	% Moisture :	16.9
Calib. Ref.:	WB18006A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.84	.0097|.0086
PCB-1221	(ND)|ND	.84	.04|.045
PCB-1232	(ND)|ND	.84	.017|.016
PCB-1242	(ND)|ND	.84	.033|.038
PCB-1248	(ND)|ND	.84	.042|.047
PCB-1254	(ND)|ND	.84	.0069|.0072
PCB-1260	.18J|(.19J)	.84	.0075|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	73|(89)	35-135
DECACHLOROBIPHENYL	(73)|72	25-143

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

SW3550B/8082
PCBs

Client : IT CORPORATION	Date Collected: NA
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 02/16/00
Batch No. : 00B093	Date Extracted: 02/16/00 20:00
Sample ID: MBLK1S	Date Analyzed: 02/18/00 16:57
Lab Samp ID: CPB015SB	Dilution Factor: 1
Lab File ID: WB18007A	Matrix : SOIL
Ext Btch ID: CPB015S	% Moisture : NA
Calib. Ref.: WB18006A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.7	.0081|.0072
PCB-1221	(ND)|ND	.7	.033|.037
PCB-1232	(ND)|ND	.7	.014|.013
PCB-1242	(ND)|ND	.7	.027|.032
PCB-1248	(ND)|ND	.7	.035|.039
PCB-1254	(ND)|ND	.7	.0057|.006
PCB-1260	(ND)|ND	.7	.0062|.0089

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	71|(86)	35-135
DECACHLOROBIPHENYL	79|(81)	25-143

PQL: Practical Quantitation Limit
' of | is related to first column ; Right of | related to second column
\ cluded the reported column
* out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

:LIENT: IT CORPORATION
'ROJECT: MCAS EL TORO/18609/D.O. 70
IATCH NO.: 00B093
IETHOD: SW3550B/8082

IATRIX:	SOIL			% MOISTURE:	NA
)ILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
.AB SAMP ID:	CPB015SB	CPB016SL	CPB016SC		
.AB FILE ID:	WB18007A	WB18010A	WB18011A		
)ATE EXTRACTED:	02/16/0020:00	02/16/0020:00	02/16/0020:00	DATE COLLECTED:	NA
)ATE ANALYZED:	02/18/0016:57	02/18/0018:13	02/18/0018:39	DATE RECEIVED:	02/16/00
'REP. BATCH:	CPB015S	CPB015S	CPB015S		
:ALIB. REF:	WB18006A	WB18006A	WB18006A		

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 (%)
PCB-1016	(ND)|ND	.167	.144J|(.163J)	86|(98)	.167	.136J|(.162J)	82|(97)	6|(1)	50-150	50
PCB-1260	(ND)|ND	.167	.142J|(.158J)	85|(95)	.167	.139J|(.157J)	83|(94)	2|(1)	50-150	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	.011|(.0128)	83|(96)	.0133	.0101|(.0109)	76|(82)	35-133
Decachlorobiphenyl	.0133	.0108|(.0111)	81|(83)	.0133	.0108|(.0111)	81|(83)	25-143

METHOD 3050B/6010B
CAM METALS BY ICP

Client	: IT CORPORATION	Date Collected:	02/16/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/16/00
D.O.	: 008093	Date Extracted:	02/21/00 14:45
Sample ID:	18609-2816	Date Analyzed:	02/22/00 18:03
Lab Samp ID:	B093-01	Dilution Factor:	1
Lab File ID:	I07B037023	Matrix :	SOIL
Ext Btch ID:	IPB027S	% Moisture :	12.1
Calib. Ref.:	I07B037019	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.4	4.07
Barium	157	1.14	.148
Beryllium	.509	.228	.0228
Cadmium	ND	1.14	.0796
Chromium	14.7	1.14	.683
Cobalt	5.73	1.14	.694
Copper	13.1	1.14	.842
Manganese	277	2.28	.137
Molybdenum	ND	2.28	.739
Nickel	9.95	2.28	.523
Silver	ND	2.28	1.6
Vanadium	38.4	1.14	.944
Zinc	64.6	1.14	.296

RL: Reporting Limit

METHOD 3050B/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	02/16/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/16/00
SDG NO.	: 00B093	Date Extracted:	02/21/00 14:45
Sample ID:	18609-2816	Date Analyzed:	02/23/00 14:48
Lab Samp ID:	B093-01	Dilution Factor:	1
Lab File ID:	I31B037018	Matrix :	SOIL
Ext Btch ID:	IPB027S	% Moisture :	12.1
Calib. Ref.:	I31B037008	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	3.53	1.14	.584
Lead	41.9	1.14	.3
Selenium	ND	1.14	.515
Thallium	ND	1.14	.53

RL: Reporting Limit

METHOD 3050B/6010B
CAM METALS BY ICP

Client	: IT CORPORATION	Date Collected:	02/16/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/16/00
[illegible]	: 00B093	Date Extracted:	02/21/00 14:45
[illegible] ID	: 18609-2818	Date Analyzed:	02/22/00 18:13
Lab Samp ID	: B093-03	Dilution Factor:	1
Lab File ID	: I07B037025	Matrix	: SOIL
Ext Btch ID	: IPB027S	% Moisture	: 21.7
Calib. Ref.	: I07B037019	Instrument ID	: EMAXTI07

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	12.8	4.57
Barium	235	1.28	.166
Beryllium	.866	.255	.0255
Cadmium	ND	1.28	.0894
Chromium	21.2	1.28	.766
Cobalt	7.94	1.28	.779
Copper	22.1	1.28	.945
Manganese	376	2.55	.153
Molybdenum	ND	2.55	.83
Nickel	17.4	2.55	.587
Silver	ND	2.55	1.8
Vanadium	56.7	1.28	1.06
Zinc	82.8	1.28	.332

RL: Reporting Limit

METHOD 3050B/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	02/16/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/16/00
SDG NO.	: 00B093	Date Extracted:	02/21/00 14:45
Sample ID:	18609-2818	Date Analyzed:	02/23/00 15:06
Lab Samp ID:	B093-03	Dilution Factor:	1
Lab File ID:	I31B037023	Matrix :	SOIL
Ext Btch ID:	IPB027S	% Moisture :	21.7
Calib. Ref.:	I31B037020	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	6.1	1.28	.655
Lead	9.2	1.28	.337
Selenium	ND	1.28	.579
Thallium	ND	1.28	.595

RL: Reporting Limit

METHOD 3050B/6010B
CAM METALS BY ICP

Client : IT CORPORATION	Date Collected: NA
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 02/21/00
D.O. : 00B093	Date Extracted: 02/21/00 14:45
Sample ID: MBLK1S	Date Analyzed: 02/22/00 16:52
Lab Samp ID: IPB027SB	Dilution Factor: 1
Lab File ID: I07B037009	Matrix : SOIL
Ext Btch ID: IPB027S	% Moisture : NA
Calib. Ref.: I07B037007	Instrument ID : EMAXTI07

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10	3.58
Barium	ND	1	.13
Beryllium	ND	.2	.02
Cadmium	ND	1	.07
Chromium	ND	1	.6
Cobalt	ND	1	.61
Copper	ND	1	.74
Manganese	ND	2	.12
Molybdenum	ND	2	.65
Nickel	ND	2	.46
Silver	ND	2	1.41
Vanadium	ND	1	.83
Zinc	ND	1	.26

RL: Reporting Limit

METHOD 3050B/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/21/00
SDG NO.	: 00B093	Date Extracted:	02/21/00 14:45
Sample ID:	MBLK1S	Date Analyzed:	02/23/00 14:19
Lab Samp ID:	IPB027SB	Dilution Factor:	1
Lab File ID:	I31B037010	Matrix :	SOIL
Ext Btch ID:	IPB027S	% Moisture :	NA
Calib. Ref.:	I31B037008	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	ND	1	.513
Lead	ND	1	.264
Selenium	ND	1	.453
Thallium	ND	1	.466

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
COG NO.: 00B093
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	MBLK1S			
CONTROL NO.:	IPB027SB	IPB027SL		
LAB FILE ID:	I07B037009	I07B037010		
DATIME EXTRCTD:	02/21/0014:45	02/21/0014:45	DATE COLLECTED:	NA
DATIME ANALYZD:	02/22/0016:52	02/22/0016:57	DATE RECEIVED:	02/21/00
PREP. BATCH:	IPB027S	IPB027S		
CALIB. REF:	I07B037007	I07B037007		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Antimony	ND	500	440	88	80-120
Barium	ND	100	97.8	98	80-120
Beryllium	ND	100	95.1	95	80-120
Cadmium	ND	100	88.5	89	80-120
Chromium	ND	100	94.2	94	80-120
Cobalt	ND	100	93.5	93	80-120
Copper	ND	100	93.8	94	80-120
Manganese	ND	100	91.9	92	80-120
Molybdenum	ND	100	94.3	94	80-120
Nickel	ND	100	91.4	91	80-120
Silver	ND	100	92.4	92	80-120
Vanadium	ND	100	94.8	95	80-120
Zinc	ND	100	90.7	91	80-120

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 008093
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	MBLK1S			
CONTROL NO.:	IPB027SB	IPB027SL		
LAB FILE ID:	I31B037010	I31B037011		
DATIME EXTRCTD:	02/21/0014:45	02/21/0014:45	DATE COLLECTED:	NA
DATIME ANALYZD:	02/23/0014:19	02/23/0014:23	DATE RECEIVED:	02/21/00
PREP. BATCH:	IPB027S	IPB027S		
CALIB. REF:	I31B037008	I31B037008		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Arsenic	ND	100	91.4	91	80-120
Lead	ND	100	86.8	87	80-120
Selenium	ND	100	92.3	92	80-120
Thallium	ND	100	92.1	92	80-120

METH[illegible]/1A
MERCURY BY COLD VAPOR

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00B093

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	HGB027SB	ND	1	NA	.1	.028	02/23/0019:12	02/23/0012:00	M00B039008	M00B039006	HGB027S	NA	02/23/00
LCS1S	HGB027SL	.783	1	NA	.1	.028	02/23/0019:14	02/23/0012:00	M00B039009	M00B039006	HGB027S	NA	02/23/00
LCD1S	HGB027SC	.757	1	NA	.1	.028	02/23/0019:16	02/23/0012:00	M00B039010	M00B039006	HGB027S	NA	02/23/00
18609-2816	B093-01	ND	1	12.1	.114	.0319	02/23/0019:25	02/23/0012:00	M00B039015	M00B039006	HGB027S	02/16/00	02/16/00
18609-2816MS	B093-01M	.972	1	12.1	.114	.0319	02/23/0019:27	02/23/0012:00	M00B039016	M00B039006	HGB027S	02/16/00	02/16/00
18609-2816MSD	B093-01S	.819	1	12.1	.114	.0319	02/23/0019:29	02/23/0012:00	M00B039017	M00B039006	HGB027S	02/16/00	02/16/00
18609-2816DL	B093-01T	ND	5	12.1	.569	.159	02/23/0019:34	02/23/0012:00	M00B039020	M00B039018	HGB027S	02/16/00	02/16/00
18609-2816AS	B093-01A	.36	1	12.1	.114	.0319	02/23/0019:36	02/23/0012:00	M00B039021	M00B039018	HGB027S	02/16/00	02/16/00
18609-2818	B093-03	ND	1	21.7	.128	.0358	02/23/0019:39	02/23/0012:00	M00B039023	M00B039018	HGB027S	02/16/00	02/16/00

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 00B093
METHOD: METHOD 7471A

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	HGB027SB	HGB027SL	HGB027SC		
LAB FILE ID:	M00B039008	M00B039009	M00B039010		
DATIME EXTRCTD:	02/23/0012:00	02/23/0012:00	02/23/0012:00	DATE COLLECTED:	NA
DATIME ANALYZD:	02/23/0019:12	02/23/0019:14	02/23/0019:16	DATE RECEIVED:	02/23/00
PREP. BATCH:	HGB027S	HGB027S	HGB027S		
CALIB. REF:	M00B039006	M00B039006	M00B039006		

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	.783	102	.769	.757	98	3	77-120	25

7025

the IT Group

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

CHAIN-OF-CUSTODY RECORD

SWMU 88

PROJECT DATA MANAGER'S COPY

A 10537

FORM 0019 REV. 9-99

IT'S LAB COORDINATOR: M. Concepcion	LAB COORDINATOR'S PHONE: 949-660-7550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 008170	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: El Toro-DO70	PROJECT LOCATION: MCAS El Toro-CA	PROJECT NUMBER: 186009	LABORATORY PHONE: 310-618-8889	LABORATORY FAX:	RECIPIENT NAME: Dwayne Shields
PROJECT CONTACT: M Concepcion	PROJECT PHONE NUMBER: 949-451-1667	PROJECT FAX: 949-475-5433	LABORATORY ADDRESS: 310 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 92606
PROJECT MANAGER: B. Sellak	PROJECT MANAGER'S PHONE: 949-660-5466	PROJECT MANAGER'S FAX:			

Item	Sample Identifier	Matrix	2000 Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: Pest. & PCB		Title 22 metals per DR 7/24/00						Comments
																	Analyze as rec'd X
1	186009-2821	S	2-28	1100	4°C	1	3	72hr	X		X						
2	186009-2822	S	2-28	1110	4°C	1	3	72hr	*		X						* Analyze 186009-2822 if no 186009-2821 has a hit.
3	186009-2823	S	2-28	1120	4°C	1	3	72hr	X		X						
4	186009-2824	S	2-28	1130	4°C	1	4	72hr	X								* Analyze 186009-2825 if 186009-2824 has a hit.
5	186009-2825Δ	S	2-28	1140	4°C	1	3	72hr	* ← Analyze 3/6/00		X						Δ - note Sample may not be enough
6	186009-2826	S	2-28	1150	4°C	1	3	72hr	X		X						
7	186009-2827	S	2-28	1200	4°C	1	3	72hr	* ← Analyze 3/6/00		X						* Analyze 186009-2827 if 186009-2826 has a hit
8	186009-2828	S	2-28	1210	4°C	1	3	72hr	X								
9	186009-2829	S	2-28	1220	4°C	1	3	72hr	*								* Analyze 186009-2829 if 186009-2828 has a hit
10	186009-2830	S	2-28	1330	4°C	1	3	72hr	X								

SAMPLES COLLECTED BY: W. Jeffers

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Wayne Jeffers	[illegible]	2/28/00		

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

SWMU-88

Sample Point Location	Sample Type G	C	F	QC
① SWMU-88-SB-11 1.5-2.0' bgs	X			
② SWMU-88-SB-11 3.0'-5.5' bgs	X			
③ SWMU-88-SB-12 1.5'-2.0' bgs	X			
④ SWMU-88-SB-12 2.0-2.5' bgs (MS)	X			X
⑤ SWMU88-SB-12 3.0-3.5' bgs	X			
⑥ SWMU-88-SB-13 1.5-2.0' bgs	X			
⑦ SWMU-88-SB-13 3.0-3.5' bgs	X			
⑧ SWMU-88-SB-02 ~~1.5-2.0 bgs~~ 3.0-3.5 bgs	X			
⑨ SWMU-88-SB-02 5.0-5.5' bgs	X			
⑩ SWMU-88-SB-01 0.0-1.0'-1.5' bgs	X			

Comments:

3/3/00
metals due 8/7/00 rec'd 8/7

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

AC

553/472

B170/B180

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 10536

FORM 0019 REV. 9-99

SWMU-88

IT'S LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
M. Concepcion	949-1660-7550	949-451-1667 (475-5433)	008170	EMAX	IT Corp
PROJECT NAME: El Toro - D070	PROJECT LOCATION: El Toro - CA	PROJECT NUMBER: 18609	LABORATORY PHONE: 310-618-8889	LABORATORY FAX: —	RECIPIENT NAME: Dwayne Lilich
PROJECT CONTACT: M. Concepcion	PROJECT PHONE NUMBER: 949-451-1667	PROJECT FAX: —	LABORATORY ADDRESS: 310 Maple Ave.	ADDRESS: 3347 Michelson	
PROJECT ADDRESS: —	CITY, STATE AND ZIP CODE: —	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Irvine, CA	CITY, STATE AND ZIP CODE: Irvine, CA	
PROJECT MANAGER: B. Sedlak	PROJECT MANAGER'S PHONE: 949-660-5441	PROJECT MANAGER'S FAX: —			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: Pesticide & PCB								Comments
1	18609-2831	S	2-28	1340	4°C	1	3	72hr	*								*Analyze only if 18604-2830 has a hit. NA
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

W.J. 2-28-00

SAMPLES COLLECTED BY: W. Sellerson

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]	2/28/00	2:05	

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

SWMU-88

Sample Point Location	Sample Type: G	C	F	QC
(1) SWMU-88-SB-01 3.0-3.5' bgs	X			

Comments

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

AL

5549/4725

B170/B180

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

Date: 03-14-2000
EMAX Batch No.: 00B170

Attn: 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 02/28/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2821	B170-01	02/28/00	Soil	Pesticides and PCBs by GC
18609-2822	B170-02	02/28/00	Soil	Hold
18609-2823	B170-03	02/28/00	Soil	Pesticides and PCBs by GC
18609-2824	B170-04	02/28/00	Soil	Pesticides and PCBs by GC
18609-2825A	B170-05	02/28/00	Soil	Hold
18609-2826	B170-06	02/28/00	Soil	Pesticides and PCBs by GC
18609-2827	B170-07	02/28/00	Soil	Hold
18609-2828	B170-08	02/28/00	Soil	Pesticides and PCBs by GC
18609-2829	B170-09	02/28/00	Soil	Hold
18609-2830	B170-10	02/28/00	Soil	Pesticides and PCBs by GC
18609-2831	B170-11	02/28/00	Soil	Hold

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
Telephone: (310) 618-8889
Fax: (310) 618-0818

Date: 03-14-2000
EMAX Batch No.: 00B170A

Attn: 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 02/28/00 and requested additional analyses on 03/06/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2825	B170-05	02/28/00	SOIL	Polychlorinated Biphenyls (PCBs) Organochlorine Pesticides by GC
18609-2827	B170-07	02/28/00	SOIL	Polychlorinated Biphenyls (PCBs) Organochlorine Pesticides by GC

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
Telephone: (310) 618-8889
Fax: (310) 618-0818

Date: 08-14-2000
EMAX Batch No.: 008170B

Attn: 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 02/28/00 and additional analysis requested on 07/26/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2821	B170-01	02/28/00	SOIL	MERCURY METALS TAL
18609-2822	B170-02	02/28/00	SOIL	METALS TAL MERCURY
18609-2823	B170-03	02/28/00	SOIL	METALS TAL MERCURY
18609-2825	B170-05	02/28/00	SOIL	MERCURY METALS TAL
18609-2826	B170-06	02/28/00	SOIL	METALS TAL MERCURY
18609-2827	B170-07	02/28/00	SOIL	MERCURY METALS TAL

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

SW3550A/8081
PESTICIDES/PCBS

Client : IT CORPORATION	Date Collected: 02/28/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 02/28/00
Batch No. : 00B170	Date Extracted: 02/29/00 18:30
Sample ID: 18609-2821	Date Analyzed: 03/03/00 00:57
Lab Samp ID: B170-01	Dilution Factor: 1
Lab File ID: WB28073A	Matrix : SOIL
Ext Btch ID: CPB038S	% Moisture : 13.9
Calib. Ref.: WB28056A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	.00098J|(ND)	.0022	.00047|.00039
GAMMA-BHC (LINDANE)	(ND)|ND	.023	.00037|.00047
BETA-BHC	.0026J|(ND)	.038	.0003|.0002
HEPTACHLOR	(.0014J)|.001J	.023	.00042|.00045
DELTA-BHC	(ND)|ND	.013	.00026|.00024
ALDRIN	(ND)|ND	.017	.00028|.00022
HEPTACHLOR EPOXIDE	(ND)|ND	.024	.00034|.00034
GAMMA-CHLORDANE	(ND)|ND	.017	.00048|.00086
ALPHA-CHLORDANE	(ND)|ND	.017	.0007|.00045
ENDOSULFAN I	(ND)|ND	.024	.00055|.00049
4,4'-DDE	(ND)|ND	.049	.00052|.00054
DIELDRIN	(ND)|ND	.041	.00033|.00025
ENDRIN	(ND)|ND	.042	.00027|.00025
4,4'-DDD	(ND)|ND	.0035	.00038|.0004
ENDOSULFAN II	(ND)|ND	.028	.00052|.00049
4,4'-DDT	(ND)|ND	.0035	.00026|.00026
ENDRIN ALDEHYDE	(ND)|ND	.019	.00023|.00015
ENDOSULFAN SULFATE	(ND)|ND	.042	.00046|.0004
METHOXYCHLOR	(ND)|ND	.066	.00026|.00023
TOXAPHENE	(ND)|ND	.81	.0014|.0024

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	67|(75)	35-135
DECACHLOROBIPHENYL	71|(71)	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

nt	: IT CORPORATION	Date Collected:	02/28/00
ct	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
Batch No.	: 00B170	Date Extracted:	02/29/00 18:30
Sample ID:	18609-2823	Date Analyzed:	03/03/00 01:23
Lab Samp ID:	B170-03	Dilution Factor:	1
Lab File ID:	WB28074A	Matrix :	SOIL
Ext Btch ID:	CPB038S	% Moisture :	13.7
Calib. Ref.:	WB28056A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|ND	.0022	.00047|.00039
GAMMA-BHC (LINDANE)	(ND)|ND	.023	.00037|.00047
BETA-BHC	(ND)|ND	.038	.0003|.0002
HEPTACHLOR	(ND)|.0016J	.023	.00042|.00045
DELTA-BHC	(ND)|ND	.013	.00026|.00024
ALDRIN	(ND)|ND	.017	.00028|.00022
HEPTACHLOR EPOXIDE	(ND)|.00041J	.024	.00034|.00034
GAMMA-CHLORDANE	(ND)|ND	.017	.00048|.00086
ALPHA-CHLORDANE	(ND)|ND	.017	.0007|.00045
ENDOSULFAN I	(ND)|ND	.024	.00055|.00049
4,4'-DDE	(ND)|ND	.049	.00052|.00054
DIELDRIN	.0025J|(.0016J)	.041	.00033|.00025
ENDRIN	.00048J|(ND)	.042	.00027|.00025
4,4'-DDD	(ND)|ND	.0035	.00038|.0004
ULFAN II	.0015J|(ND)	.028	.00052|.00049
DT	(.013)|.0098	.0035	.00026|.00026
IN ALDEHYDE	(.0014J)|.0036J	.019	.00023|.00015
ENDOSULFAN SULFATE	(ND)|ND	.042	.00046|.0004
METHOXYCHLOR	(ND)|ND	.066	.00026|.00023
TOXAPHENE	(ND)|ND	.81	.0014|.0024

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	64|(71)	35-135
DECACHLOROBIPHENYL	(73)|71	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:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
Batch No.	: 00B170	Date Extracted:	02/29/00 18:30
Sample ID:	18609-2824	Date Analyzed:	03/03/00 06:28
Lab Samp ID:	B170-04	Dilution Factor:	1
Lab File ID:	WB28086A	Matrix :	SOIL
Ext Btch ID:	CPB038S	% Moisture :	13.5
Calib. Ref.:	WB28077A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	.00096J|(ND)	.0022	.00046|.00039
GAMMA-BHC (LINDANE)	(ND)|ND	.023	.00036|.00047
BETA-BHC	(ND)|ND	.038	.0003|.0002
HEPTACHLOR	(ND)|.002J	.023	.00042|.00045
DELTA-BHC	(ND)|ND	.013	.00026|.00024
ALDRIN	(ND)|ND	.017	.00028|.00022
HEPTACHLOR EPOXIDE	(ND)|.0006J	.024	.00034|.00034
GAMMA-CHLORDANE	(ND)|ND	.017	.00048|.00086
ALPHA-CHLORDANE	(ND)|ND	.017	.0007|.00045
ENDOSULFAN I	(ND)|ND	.024	.00055|.00049
4,4'-DDE	(ND)|ND	.049	.00052|.00053
DIELDRIN	(.002J)|.0015J	.04	.00033|.00025
ENDRIN	(ND)|ND	.042	.00027|.00025
4,4'-DDD	(ND)|ND	.0035	.00038|.0004
ENDOSULFAN II	.0011J|(ND)	.028	.00051|.00049
4,4'-DDT	(.011)|.0078	.0035	.00026|.00026
ENDRIN ALDEHYDE	(.00096J)|.0027J	.018	.00023|.00015
ENDOSULFAN SULFATE	(ND)|ND	.042	.00046|.0004
METHOXYCHLOR	(ND)|ND	.066	.00026|.00023
TOXAPHENE	(ND)|ND	.81	.0014|.0024

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	67|(80)	35-135
DECACHLOROBIPHENYL	75|(77)	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:	02/28/00
ect	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
No.	: 00B170A	Date Extracted:	03/06/00 21:45
le ID:	18609-2825	Date Analyzed:	03/08/00 05:33
Lab Samp ID:	B170-05	Dilution Factor:	1
Lab File ID:	WB28225A	Matrix :	SOIL
Ext Btch ID:	CPC015S	% Moisture :	22.4
Calib. Ref.:	WB28213A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(.002J)	.0074	.0024	.00052	.00044
GAMMA-BHC (LINDANE)	(ND)	.0021J	.026	.00041	.00052
BETA-BHC	.0092J	(ND)	.043	.00033	.00022
HEPTACHLOR	.007J	(.002J)	.026	.00047	.0005
DELTA-BHC	.0013J	(ND)	.014	.00029	.00027
ALDRIN	(ND)	ND	.019	.00031	.00025
HEPTACHLOR EPOXIDE	(ND)	.00048J	.027	.00038	.00038
GAMMA-CHLORDANE	(ND)	ND	.019	.00053	.00095
ALPHA-CHLORDANE	(ND)	ND	.019	.00078	.0005
ENDOSULFAN I	(ND)	ND	.027	.00061	.00055
4,4'-DDE	(ND)	ND	.054	.00058	.0006
DIELDRIN	.0022J	(.00076J)	.045	.00037	.00028
ENDRIN	(ND)	ND	.046	.0003	.00028
4,4'-DDD	(ND)	ND	.0039	.00042	.00044
ENDOSULFAN II	(ND)	ND	.031	.00057	.00055
4,4'-DDT	(.014)	.011	.0039	.00029	.00029
ENDRIN ALDEHYDE	(.0016J)	.0035J	.021	.00026	.00017
ENDOSULFAN SULFATE	(ND)	.0032J	.046	.00051	.00044
METHOXYCHLOR	(ND)	ND	.073	.00029	.00025
PHENE	(ND)	ND	.9	.0015	.0027

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
TETRACHLORO-M-XYLENE	(81)	143*	35-135
DECACHLOROBIPHENYL	101	(101)	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:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
Batch No.	: 00B170	Date Extracted:	02/29/00 18:30
Sample ID:	18609-2826	Date Analyzed:	03/03/00 06:53
Lab Samp ID:	B170-06	Dilution Factor:	1
Lab File ID:	WB28087A	Matrix :	SOIL
Ext Btch ID:	CPB038S	% Moisture :	17.3
Calib. Ref.:	WB28077A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|ND	.0023	.00049|.00041
GAMMA-BHC (LINDANE)	(ND)|ND	.024	.00038|.00049
BETA-BHC	(ND)|ND	.04	.00031|.00021
HEPTACHLOR	(ND)|.0011J	.024	.00044|.00047
DELTA-BHC	(ND)|ND	.013	.00027|.00025
ALDRIN	(ND)|ND	.018	.00029|.00023
HEPTACHLOR EPOXIDE	(ND)|ND	.025	.00036|.00036
GAMMA-CHLORDANE	(ND)|ND	.018	.0005|.00089
ALPHA-CHLORDANE	(ND)|ND	.018	.00073|.00047
ENDOSULFAN I	(ND)|ND	.025	.00057|.00051
4,4'-DDE	(ND)|ND	.051	.00054|.00056
DIELDRIN	.00083J|(.00049J)	.042	.00035|.00026
ENDRIN	(ND)|ND	.044	.00029|.00026
4,4'-DDD	(ND)|ND	.0036	.00039|.00042
ENDOSULFAN II	(ND)|ND	.029	.00054|.00051
4,4'-DDT	(.0039)|.0031J	.0036	.00027|.00027
ENDRIN ALDEHYDE	(ND)|.0014J	.019	.00024|.00016
ENDOSULFAN SULFATE	(ND)|ND	.044	.00048|.00041
METHOXYCHLOR	(ND)|ND	.069	.00027|.00024
TOXAPHENE	(ND)|ND	.85	.0015|.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	66|(73)	35-135
DECACHLOROBIPHENYL	71|(72)	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:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
Lab No.	: 00B170A	Date Extracted:	03/06/00 21:45
Sample ID:	18609-2827	Date Analyzed:	03/08/00 05:58
Lab Samp ID:	B170-07	Dilution Factor:	1
Lab File ID:	WB28226A	Matrix :	SOIL
Ext Btch ID:	CPC015S	% Moisture :	12.8
Calib. Ref.:	WB28213A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(.0015J) | .0042	.0022	.00046 | .00039
GAMMA-BHC (LINDANE)	(ND) | ND	.023	.00036 | .00047
BETA-BHC	.0073J | (ND)	.038	.00029 | .0002
HEPTACHLOR	.0056J | (.0014J)	.023	.00042 | .00045
DELTA-BHC	.001J | (ND)	.013	.00025 | .00024
ALDRIN	(ND) | ND	.017	.00027 | .00022
HEPTACHLOR EPOXIDE	(ND) | ND	.024	.00034 | .00034
GAMMA-CHLORDANE	(ND) | ND	.017	.00047 | .00085
ALPHA-CHLORDANE	(ND) | ND	.017	.00069 | .00044
ENDOSULFAN I	(ND) | ND	.024	.00054 | .00049
4,4'-DDE	(ND) | ND	.048	.00051 | .00053
DIELDRIN	(ND) | ND	.04	.00033 | .00025
ENDRIN	(ND) | ND	.041	.00027 | .00025
4,4'-DDD	(ND) | ND	.0034	.00037 | .0004
ENDOSULFAN II	(ND) | ND	.028	.00051 | .00049
4,4'-DDT	(ND) | ND	.0034	.00026 | .00026
ENDRIN ALDEHYDE	(ND) | ND	.018	.00023 | .00015
ENDOSULFAN SULFATE	(ND) | ND	.041	.00045 | .00039
METHOXYCHLOR	(ND) | ND	.065	.00025 | .00022
TOXAPHENE	(ND) | ND	.8	.0014 | .0024

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(87) | 128	35-135
DECACHLOROBIPHENYL	97 | (97)	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:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
Batch No.	: 00B170	Date Extracted:	02/29/00 18:30
Sample ID:	18609-2828	Date Analyzed:	03/03/00 07:19
Lab Samp ID:	B170-08	Dilution Factor:	1
Lab File ID:	WB28088A	Matrix :	SOIL
Ext Btch ID:	CPB038S	% Moisture :	15.5
Calib. Ref.:	WB28077A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|ND	.0022	.00048|.0004
GAMMA-BHC (LINDANE)	(ND)|ND	.024	.00037|.00048
BETA-BHC	(ND)|ND	.039	.0003|.0002
HEPTACHLOR	(ND)|.0011J	.024	.00043|.00046
DELTA-BHC	(ND)|ND	.013	.00026|.00025
ALDRIN	(ND)|ND	.018	.00028|.00023
HEPTACHLOR EPOXIDE	(ND)|ND	.025	.00035|.00035
GAMMA-CHLORDANE	(ND)|ND	.018	.00049|.00088
ALPHA-CHLORDANE	(ND)|ND	.018	.00071|.00046
ENDOSULFAN I	(ND)|ND	.025	.00056|.0005
4,4'-DDE	(ND)|ND	.05	.00053|.00055
DIELDRIN	(ND)|ND	.041	.00034|.00026
ENDRIN	(ND)|ND	.043	.00028|.00025
4,4'-DDD	(ND)|ND	.0036	.00039|.00041
ENDOSULFAN II	(ND)|ND	.028	.00053|.0005
4,4'-DDT	(ND)|ND	.0036	.00027|.00026
ENDRIN ALDEHYDE	(ND)|ND	.019	.00024|.00015
ENDOSULFAN SULFATE	(ND)|ND	.043	.00047|.0004
METHOXYCHLOR	(ND)|ND	.067	.00026|.00023
TOXAPHENE	(ND)|ND	.83	.0014|.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	63|(67)	35-135
DECACHLOROBIPHENYL	74|(75)	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:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
Batch No.	: 00B170	Date Extracted:	02/29/00 18:30
Sample ID:	18609-2830	Date Analyzed:	03/03/00 07:45
Lab Samp ID:	B170-10	Dilution Factor:	4
Lab File ID:	WB28089A	Matrix :	SOIL
Ext Btch ID:	CP8038S	% Moisture :	11.8
Calib. Ref.:	WB28077A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|ND	.0086	.0018|.0015
GAMMA-BHC (LINDANE)	(ND)|ND	.091	.0014|.0018
BETA-BHC	(ND)|ND	.15	.0012|.00078
HEPTACHLOR	(ND)|ND	.091	.0017|.0018
DELTA-BHC	(ND)|ND	.05	.001|.00095
ALDRIN	(ND)|ND	.068	.0011|.00087
HEPTACHLOR EPOXIDE	(ND)|ND	.095	.0013|.0013
GAMMA-CHLORDANE	(ND)|ND	.068	.0019|.0034
ALPHA-CHLORDANE	(ND)|ND	.068	.0027|.0018
ENDOSULFAN I	(ND)|ND	.095	.0021|.0019
4,4'-DDE	(ND)|ND	.19	.002|.0021
DIELDRIN	(ND)|ND	.16	.0013|.00099
ENDRIN	(ND)|ND	.16	.0011|.00097
4,4'-DDD	(ND)|ND	.014	.0015|.0016
ENDOSULFAN II	(ND)|ND	.11	.002|.0019
DDT	(ND)|ND	.014	.001|.001
ENDRIN ALDEHYDE	(ND)|ND	.073	.0009|.00059
ENDOSULFAN SULFATE	(ND)|ND	.16	.0018|.0016
METHOXYCHLOR	(ND)|ND	.26	.001|.00089
TOXAPHENE	(ND)|ND	3.2	.0054|.0094

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(69)|68	35-135
DECACHLOROBIPHENYL	(71)|69	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:	02/29/00
Batch No.	: 00B170	Date Extracted:	02/29/00 18:30
Sample ID:	MBLK1S	Date Analyzed:	03/02/00 22:50
Lab Samp ID:	CPB038SB	Dilution Factor:	1
Lab File ID:	WB28068A	Matrix :	SOIL
Ext Btch ID:	CPB038S	% Moisture :	NA
Calib. Ref.:	WB28056A	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

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
TETRACHLORO-M-XYLENE	79	(79)	35-135
DECACHLOROBIPHENYL	(69)	66	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
LCS/LCD ANALYSIS

IENT: IT CORPORATION
OJECT: MCAS EL TORO/18609/D.O. 70
TCH NO.: 00B170
THOD: SW3550A/8081

TRIX:	SOIL			% MOISTURE:	NA
LUTION FACTOR:	1	1	1		
MPLE ID:	MBLK1S				
B SAMP ID:	CPB038SB	CPB038SL	CPB038SC		
B FILE ID:	WB28068A	WB28069A	WB28070A		
TE EXTRACTED:	02/29/0018:30	02/29/0018:30	02/29/0018:30	DATE COLLECTED:	NA
TE ANALYZED:	03/02/0022:50	03/02/0023:15	03/02/0023:41	DATE RECEIVED:	02/29/00
EP. BATCH:	CPB038S	CPB038S	CPB038S		
LIB. REF:	WB28056A	WB28056A	WB28056A		

CESSION:

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 (%)
mma-BHC (Lindane)	(ND) | ND	.00667	(.00505J) | .00505J	(76) | 76	.00667	(.00516J) | .00516J	(77) | 77	(2) | 2	33-130	50
ptachlor	(ND) | ND	.00667	(.00506J) | .00481J	(76) | 72	.00667	(.00518J) | .00493J	(78) | 74	(2) | 2	35-138	50
drin	(ND) | ND	.00667	(.00563J) | .00546J	(84) | 82	.00667	(.00568J) | .00553J	(85) | 83	(1) | 1	37-126	50
eldrin	(ND) | ND	.0133	(.0101J) | .0101J	(76) | 76	.0133	(.0104J) | .0104J	(78) | 78	(3) | 3	32-142	50
drin	(ND) | ND	.0133	(.011J) | .0109J	(83) | 82	.0133	.0111J | (.0113J)	83 | (85)	1 | (4)	33-144	50
4'-DDT	(ND) | ND	.0133	(.00722) | .00666	(54) | 50	.0133	(.00715) | .00674	(54) | 51	(1) | 1	25-153	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 (%)
trachloro-m-xylene	.0133	.0106 | (.0107)	79 | (80)	.0133	.0103 | (.0105)	78 | (79)	35-133
cachlorobiphenyl	.0133	(.00931) | .00891	(70) | 67	.0133	(.00929) | .00899	(70) | 67	25-143

5016

SW3550A/8081
PESTICIDES/PCBS

Client : IT CORPORATION	Date Collected: NA
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 03/06/00
Batch No. : 00B170A	Date Extracted: 03/06/00 21:45
Sample ID: MBLK1S	Date Analyzed: 03/08/00 02:09
Lab Samp ID: CPC015SB	Dilution Factor: 1
Lab File ID: WB28217A	Matrix : SOIL
Ext Btch ID: CPC015S	% Moisture : NA
Calib. Ref.: WB28213A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND) | .002	.0019	.0004 | .00034
GAMMA-BHC (LINDANE)	(ND) | ND	.02	.00032 | .00041
BETA-BHC	(ND) | ND	.033	.00026 | .00017
HEPTACHLOR	.0021J | (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

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(96) | 117	35-135
DECACHLOROBIPHENYL	107 | (106)	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 CONTR[illegible]A
LCS/LCD ANALYSIS

:LIENT: IT CORPORATION
'ROJECT: MCAS EL TORO/18609/D.O. 70
3ATCH NO.: 00B170A
1ETHOD: SW3550A/8081

1ATRIX:	SOIL			% MOISTURE:	NA
)ILUTION FACTOR:	1	1	1		
3AMPLE ID:	MBLK1S				
.AB SAMP ID:	CPC015SB	CPC015SL	CPC015SC		
.AB FILE ID:	WB28217A	WB28218A	WB28219A		
)ATE EXTRACTED:	03/06/0021:45	03/06/0021:45	03/06/0021:45	DATE COLLECTED:	NA
)ATE ANALYZED:	03/08/0002:09	03/08/0002:35	03/08/0003:00	DATE RECEIVED:	03/06/00
'REP. BATCH:	CPC015S	CPC015S	CPC015S		
:ALIB. REF:	WB28213A	WB28213A	WB28213A		

\CCESSION:

'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 (%)	MAX RPD (%)
jamma-BHC (Lindane)	(ND) | ND	.00667	(.00636J) | .00623J	(95) | 93	.00667	(.0078J) | .00736J	(117) | 110	(20) | 17	33-130	50
1eptachlor	.0021J | (ND)	.00667	(.00752J) | .00606J	(81) | 91	.00667	(.0107J) | .00744J	(129) | 112	(35) | 20	35-138	50
\ldrin	(ND) | ND	.00667	(.0067J) | .00622J	(100) | 93	.00667	(.00766J) | .00765J	(115) | 115	(13) | 21	37-126	50
)ieldrin	(ND) | ND	.0133	.0141J | (.0142J)	106 | (107)	.0133	(.0145J) | .0144J	(109) | 108	(3) | 1	32-142	50
:ndrin	(ND) | ND	.0133	(.0157J) | .0156J	(118) | 117	.0133	.016J | (.0161J)	120 | (121)	2 | (3)	33-144	50
',4'-DDT	(ND) | ND	.0133	(.0144) | .0137	(108) | 103	.0133	.014 | (.0149)	105 | (112)	3 | (8)	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 | (.013)	87 | (97)	.0133	.0141 | (.0188)	(105) | 141*	35-133
)ecachlorobiphenyl	.0133	(.0143) | .0141	107 | (106)	.0133	(.0143) | .0143	107 | (107)	25-143

5008

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
Batch No.	: 008170	Date Extracted:	02/29/00 18:30
Sample ID:	18609-2821	Date Analyzed:	03/03/00 00:57
Lab Samp ID:	B170-01	Dilution Factor:	1
Lab File ID:	WB28073A	Matrix :	SOIL
Ext Btch ID:	CPB038S	% Moisture :	13.9
Calib. Ref.:	WB28059A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.81	.0094|.0083
PCB-1221	(ND)|ND	.81	.038|.043
PCB-1232	(ND)|ND	.81	.016|.015
PCB-1242	(ND)|ND	.81	.032|.037
PCB-1248	(ND)|ND	.81	.041|.045
PCB-1254	(ND)|ND	.81	.0066|.007
PCB-1260	(ND)|ND	.81	.0072|.01

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	67|(75)	35-135
DECACHLOROBIPHENYL	71|(71)	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
Batch No.	: 00B170	Date Extracted:	02/29/00 18:30
Sample ID:	18609-2823	Date Analyzed:	03/03/00 01:23
Lab Samp ID:	B170-03	Dilution Factor:	1
Lab File ID:	WB28074A	Matrix :	SOIL
Ext Btch ID:	CPB038S	% Moisture :	13.7
Calib. Ref.:	WB28059A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.81	.0094|.0083
PCB-1221	(ND)|ND	.81	.038|.043
PCB-1232	(ND)|ND	.81	.016|.015
PCB-1242	(ND)|ND	.81	.032|.037
PCB-1248	(ND)|ND	.81	.041|.045
PCB-1254	(ND)|ND	.81	.0066|.007
PCB-1260	.029J|(.03J)	.81	.0072|.01

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	64|(71)	35-135
DECACHLOROBIPHENYL	(73)|71	25-143

PQL Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
( ) Included the reported column
* Out side of QC Limit

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
Batch No.	: 00B170	Date Extracted:	02/29/00 18:30
Sample ID:	18609-2824	Date Analyzed:	03/03/00 06:28
Lab Samp ID:	B170-04	Dilution Factor:	1
Lab File ID:	WB28086A	Matrix :	SOIL
Ext Btch ID:	CPB038S	% Moisture :	13.5
Calib. Ref.:	WB28080A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.81	.0093|.0083
PCB-1221	(ND)|ND	.81	.038|.043
PCB-1232	(ND)|ND	.81	.016|.015
PCB-1242	(ND)|ND	.81	.031|.037
PCB-1248	(ND)|ND	.81	.04|.045
PCB-1254	(ND)|ND	.81	.0066|.007
PCB-1260	(.026J)|.024J	.81	.0072|.01

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	67|(80)	35-135
DECACHLOROBIPHENYL	75|(77)	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
Batch No.	: 00B170A	Date Extracted:	03/06/00 21:45
Sample ID:	18609-2825	Date Analyzed:	03/08/00 05:33
Lab Samp ID:	B170-05	Dilution Factor:	1
Lab File ID:	WB28225A	Matrix :	SOIL
Ext Btch ID:	CPC015S	% Moisture :	22.4
Calib. Ref.:	WB28216A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND) | ND	.9	.01 | .0092
PCB-1221	(ND) | ND	.9	.043 | .048
PCB-1232	(ND) | ND	.9	.018 | .017
PCB-1242	(ND) | ND	.9	.035 | .041
PCB-1248	(ND) | ND	.9	.045 | .05
PCB-1254	(ND) | ND	.9	.0073 | .0078
PCB-1260	.032J | (.037J)	.9	.008 | .011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(81) | 143*	35-135
DECACHLOROBIPHENYL	101 | (101)	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
Batch No.	: 00B170	Date Extracted:	02/29/00 18:30
Sample ID:	18609-2826	Date Analyzed:	03/03/00 06:53
Lab Samp ID:	B170-06	Dilution Factor:	1
Lab File ID:	WB28087A	Matrix :	SOIL
Ext Btch ID:	CPB038S	% Moisture :	17.3
Calib. Ref.:	WB28080A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.85	.0098|.0087
PCB-1221	(ND)|ND	.85	.04|.045
PCB-1232	(ND)|ND	.85	.017|.016
PCB-1242	(ND)|ND	.85	.033|.038
PCB-1248	(ND)|ND	.85	.042|.047
PCB-1254	(ND)|ND	.85	.0069|.0073
PCB-1260	(.012J)|.011J	.85	.0075|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	66|(73)	35-135
DECACHLOROBIPHENYL	71|(72)	25-143

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

SW3550B/8082
PCBs

Client : IT CORPORATION	Date Collected: 02/28/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 02/28/00
Batch No. : 008170A	Date Extracted: 03/06/00 21:45
Sample ID: 18609-2827	Date Analyzed: 03/08/00 05:58
Lab Samp ID: B170-07	Dilution Factor: 1
Lab File ID: WB28226A	Matrix : SOIL
Ext Btch ID: CPC015S	% Moisture : 12.8
Calib. Ref.: WB28216A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND) | ND	.8	.0093 | .0082
PCB-1221	(ND) | ND	.8	.038 | .043
PCB-1232	(ND) | ND	.8	.016 | .015
PCB-1242	(ND) | ND	.8	.031 | .036
PCB-1248	(ND) | ND	.8	.04 | .044
PCB-1254	(ND) | ND	.8	.0065 | .0069
PCB-1260	(ND) | ND	.8	.0072 | .01

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(87) | 128	35-135
DECACHLOROBIPHENYL	97 | (97)	25-143

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

SW3550B/8082
PCBs

Client : IT CORPORATION	Date Collected: 02/28/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 02/28/00
Batch No. : 00B170	Date Extracted: 02/29/00 18:30
Sample ID: 18609-2828	Date Analyzed: 03/03/00 07:19
Lab Samp ID: B170-08	Dilution Factor: 1
Lab File ID: WB28088A	Matrix : SOIL
Ext Btch ID: CPB038S	% Moisture : 15.5
Calib. Ref.: WB28080A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.83	.0096|.0085
PCB-1221	(ND)|ND	.83	.039|.044
PCB-1232	(ND)|ND	.83	.016|.016
PCB-1242	(ND)|ND	.83	.032|.038
PCB-1248	(ND)|ND	.83	.041|.046
PCB-1254	(ND)|ND	.83	.0067|.0071
PCB-1260	(ND)|ND	.83	.0074|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	63|(67)	35-135
DECACHLOROBIPHENYL	74|(75)	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
Batch No.	: 00B170	Date Extracted:	02/29/00 18:30
Sample ID:	18609-2830	Date Analyzed:	03/03/00 07:45
Lab Samp ID:	B170-10	Dilution Factor:	4
Lab File ID:	WB28089A	Matrix :	SOIL
Ext Btch ID:	CPB038S	% Moisture :	11.8
Calib. Ref.:	WB28080A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	3.2	.037|.033
PCB-1221	(ND)|ND	3.2	.15|.17
PCB-1232	(ND)|ND	3.2	.063|.06
PCB-1242	(ND)|ND	3.2	.12|.14
PCB-1248	(ND)|ND	3.2	.16|.18
PCB-1254	(ND)|ND	3.2	.026|.027
PCB-1260	(ND)|ND	3.2	.028|.04

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(69)|68	35-135
DECACHLOROBIPHENYL	(71)|69	25-143

Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column
* Out side of QC Limit

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/29/00
Batch No.	: 00B170	Date Extracted:	02/29/00 18:30
Sample ID:	MBLK1S	Date Analyzed:	03/02/00 22:50
Lab Samp ID:	CPB038SB	Dilution Factor:	1
Lab File ID:	WB28068A	Matrix :	SOIL
Ext Btch ID:	CPB038S	% Moisture :	NA
Calib. Ref.:	WB28059A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND) | ND	.7	.0081 | .0072
PCB-1221	(ND) | ND	.7	.033 | .037
PCB-1232	(ND) | ND	.7	.014 | .013
PCB-1242	(ND) | ND	.7	.027 | .032
PCB-1248	(ND) | ND	.7	.035 | .039
PCB-1254	(ND) | ND	.7	.0057 | .006
PCB-1260	(ND) | ND	.7	.0062 | .0089

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	79 | (79)	35-135
DECACHLOROBIPHENYL	(69) | 66	25-143

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

EMAX QUALITY CONTROL
LCS/LCD ANALYSIS

ENT: IT CORPORATION
JECT: MCAS EL TORO/18609/D.O. 70
CH NO.: 00B170
HOD: SW3550B/8082

RIX:	SOIL			% MOISTURE:	NA
UTION FACTOR:	1	1	1		
PLE ID:	MBLK1S				
SAMP ID:	CPB038SB	CPB039SL	CPB039SC		
FILE ID:	WB28068A .	WB28071A	WB28072A		
E EXTRACTED:	02/29/0018:30	02/29/0018:30	02/29/0018:30	DATE COLLECTED:	NA
E ANALYZED:	03/02/0022:50	03/03/0000:06	03/03/0000:32	DATE RECEIVED:	02/29/00
P. BATCH:	CPB038S	CPB038S	CPB038S		
IB. REF:	WB28059A	WB28059A	WB28059A		

ESSION:

AMETER	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 (%)
-1016	(ND) | ND	.167	.104J | (.114J)	62 | (68)	.167	.114J | (.121J)	68 | (73)	9 | (6)	50-150	50
-1260	(ND) | ND	.167	.101J | (.112J)	61 | (67)	.167	.109J | (.118J)	65 | (71)	8 | (5)	50-150	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 (%)
rachloro-m-xylene	.0133	.0108 | (.0111)	81 | (83)	.0133	(.0109) | .0108	(82) | 81	35-133
achlorobiphenyl	.0133	(.00998) | .00966	(75) | 73	.0133	(.00972) | .00943	(73) | 71	25-143

5128

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/06/00
Batch No.	: 00B170A	Date Extracted:	03/06/00 21:45
Sample ID:	MBLK1S	Date Analyzed:	03/08/00 02:09
Lab Samp ID:	CPC015SB	Dilution Factor:	1
Lab File ID:	WB28217A	Matrix :	SOIL
Ext Btch ID:	CPC015S	% Moisture :	NA
Calib. Ref.:	WB28216A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.7	.0081|.0072
PCB-1221	(ND)|ND	.7	.033|.037
PCB-1232	(ND)|ND	.7	.014|.013
PCB-1242	(ND)|ND	.7	.027|.032
PCB-1248	(ND)|ND	.7	.035|.039
PCB-1254	(ND)|ND	.7	.0057|.006
PCB-1260	(ND)|ND	.7	.0062|.0089

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(96)|117	35-135
DECACHLOROBIPHENYL	107|(106)	25-143

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

EMAX QUALITY CONTROL
LCS/LCD ANALYSIS

:NT: IT CORPORATION
JECT: MCAS EL TORO/18609/D.O. 70
:H NO.: 00B170A
IOD: SW3550B/8082

RIX:	SOIL			% MOISTURE:	NA
JTION FACTOR:	1	1	1		
PLE ID:	MBLK1S				
SAMP ID:	CPC015SB	CPC016SL	CPC016SC		
FILE ID:	WB28217A	WB28220A	WB28221A		
E EXTRACTED:	03/06/0021:45	03/06/0021:45	03/06/0021:45	DATE COLLECTED:	NA
E ANALYZED:	03/08/0002:09	03/08/0003:26	03/08/0003:51	DATE RECEIVED:	03/06/00
P. BATCH:	CPC015S	CPC015S	CPC015S		
IB. REF:	WB28216A	WB28216A	WB28216A		

ESSION:

AMETER	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 (%)
-1016	(ND) | ND	.167	.148J | (.163J)	89 | (98)	.167	.143J | (.158J)	86 | (95)	3 | (3)	50-150	50
-1260	(ND) | ND	.167	.152J | (.163J)	91 | (98)	.167	.152J | (.168J)	91 | (101)	0 | (3)	50-150	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 (%)
rachloro-m-xylene	.0133	.0138 | (.0169)	(104) | 127	.0133	.0128 | (.0155)	(96) | 117	35-133
achlorobiphenyl	.0133	(.0145) | .0144	109 | (108)	.0133	(.0145) | .0145	109 | (109)	25-143

5047

METHOD 3050B/6010B
CAM METALS BY ICP

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
SDG NO.	: 00B170B	Date Extracted:	07/28/00 17:00
Sample ID:	18609-2821	Date Analyzed:	08/01/00 10:52
Lab Samp ID:	B170-01	Dilution Factor:	1
Lab File ID:	I07H001012	Matrix :	SOIL
Ext Btch ID:	IPG048S	% Moisture :	13.9
Calib. Ref.:	I07H001007	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.6	4
Barium	103	1.16	.0465
Beryllium	.369	.232	.0116
Cadmium	ND	1.16	.232
Chromium	9.42	1.16	.453
Cobalt	4.88	1.16	.372
Copper	22.7	1.16	.778
Manganese	204	2.32	.697
Molybdenum	ND	2.32	.976
Nickel	5.61	2.32	.941
Silver	ND	2.32	.488
Vanadium	25.7	1.16	.418
Zinc	51.2	1.16	.418

RL: Reporting Limit

METHOD 3050B/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
NO.	: 008170B	Date Extracted:	07/28/00 17:00
le ID:	18609-2821	Date Analyzed:	07/31/00 15:28
Samp ID:	B170-01	Dilution Factor:	1
Lab File ID:	I31G046026	Matrix :	SOIL
Ext Btch ID:	IPG048S	% Moisture :	13.9
Calib. Ref.:	I31G046020	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	2.14	1.16	.402
Lead	4.09	1.16	.265
Selenium	ND	1.16	.559
Thallium	ND	1.16	.983

RL: Reporting Limit

METHOD 3050B/6010B
CAM METALS BY ICP

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
SDG NO.	: 00B170B	Date Extracted:	07/28/00 17:00
Sample ID:	18609-2822	Date Analyzed:	08/01/00 10:56
Lab Samp ID:	B170-02	Dilution Factor:	1
Lab File ID:	I07H001013	Matrix :	SOIL
Ext Btch ID:	IPG048S	% Moisture :	13.7
Calib. Ref.:	I07H001007	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.6	3.99
Barium	95.4	1.16	.0463
Beryllium	.368	.232	.0116
Cadmium	ND	1.16	.232
Chromium	13.5	1.16	.452
Cobalt	10.5	1.16	.371
Copper	16.1	1.16	.776
Manganese	272	2.32	.695
Molybdenum	ND	2.32	.973
Nickel	9.57	2.32	.939
Silver	ND	2.32	.487
Vanadium	33.9	1.16	.417
Zinc	43.4	1.16	.417

RL: Reporting Limit

METHOD 3050B/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
⁻⁻G NO.	: 00B170B	Date Extracted:	07/28/00 17:00
ıle ID:	18609-2822	Date Analyzed:	07/31/00 15:33
Samp ID:	B170-02	Dilution Factor:	1
Lab File ID:	I31G046027	Matrix :	SOIL
Ext Btch ID:	IPG048S	% Moisture :	13.7
Calib. Ref.:	I31G046020	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	5.09	1.16	.401
Lead	7.6	1.16	.264
Selenium	ND	1.16	.557
Thallium	ND	1.16	.98

RL: Reporting Limit

METHOD 3050B/6010B
CAM METALS BY ICP

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
SDG NO.	: 00B170B	Date Extracted:	07/28/00 17:00
Sample ID:	18609-2823	Date Analyzed:	08/01/00 11:01
Lab Samp ID:	B170-03	Dilution Factor:	1
Lab File ID:	I07H001014	Matrix :	SOIL
Ext Btch ID:	IPG048S	% Moisture :	13.7
Calib. Ref.:	I07H001007	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.6	3.99
Barium	143	1.16	.0463
Beryllium	.359	.232	.0116
Cadmium	ND	1.16	.232
Chromium	9.28	1.16	.452
Cobalt	4.08	1.16	.371
Copper	13.3	1.16	.776
Manganese	205	2.32	.695
Molybdenum	ND	2.32	.973
Nickel	6.75	2.32	.939
Silver	ND	2.32	.487
Vanadium	25.2	1.16	.417
Zinc	53.3	1.16	.417

RL: Reporting Limit

METHOD 3050B/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
ᴰG NO.	: 008170B	Date Extracted:	07/28/00 17:00
ᵖle ID:	18609-2823	Date Analyzed:	07/31/00 15:38
ᵈ Samp ID:	B170-03	Dilution Factor:	1
Lab File ID:	I31G046028	Matrix :	SOIL
Ext Btch ID:	IPG048S	% Moisture :	13.7
Calib. Ref.:	I31G046020	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	1.6	1.16	.401
Lead	2.66	1.16	.264
Selenium	ND	1.16	.557
Thallium	ND	1.16	.98

RL: Reporting Limit

METHOD 3050B/6010B
CAM METALS BY ICP

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
SDG NO.	: 00B170B	Date Extracted:	07/28/00 17:00
Sample ID:	18609-2825	Date Analyzed:	08/01/00 11:05
Lab Samp ID:	B170-05	Dilution Factor:	1
Lab File ID:	I07H001015	Matrix :	SOIL
Ext Btch ID:	IPG048S	% Moisture :	22.4
Calib. Ref.:	I07H001007	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	12.9	4.43
Barium	205	1.29	.0515
Beryllium	.711	.258	.0129
Cadmium	ND	1.29	.258
Chromium	17.7	1.29	.503
Cobalt	7.4	1.29	.412
Copper	87.6	1.29	.863
Manganese	331	2.58	.773
Molybdenum	ND	2.58	1.08
Nickel	10.8	2.58	1.04
Silver	ND	2.58	.541
Vanadium	45	1.29	.464
Zinc	158	1.29	.464

RL: Reporting Limit

METHOD 3050B/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
G NO.	: 00B170B	Date Extracted:	07/28/00 17:00
ple ID:	18609-2825	Date Analyzed:	07/31/00 15:43
Samp ID:	B170-05	Dilution Factor:	1
Lab File ID:	I31G046029	Matrix :	SOIL
Ext Btch ID:	IPG048S	% Moisture :	22.4
Calib. Ref.:	I31G046020	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	3.36	1.29	.446
Lead	7.07	1.29	.294
Selenium	ND	1.29	.62
Thallium	ND	1.29	1.09

RL: Reporting Limit

METHOD 3050B/6010B
CAM METALS BY ICP

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
SDG NO.	: 00B170B	Date Extracted:	07/28/00 17:00
Sample ID:	18609-2826	Date Analyzed:	08/01/00 11:10
Lab Samp ID:	B170-06	Dilution Factor:	1
Lab File ID:	I07H001016	Matrix :	SOIL
Ext Btch ID:	IPG048S	% Moisture :	17.3
Calib. Ref.:	I07H001007	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	12.1	4.16
Barium	199	1.21	.0484
Beryllium	.647	.242	.0121
Cadmium	ND	1.21	.242
Chromium	18.2	1.21	.472
Cobalt	8.41	1.21	.387
Copper	17.4	1.21	.81
Manganese	340	2.42	.726
Molybdenum	ND	2.42	1.02
Nickel	11.3	2.42	.979
Silver	ND	2.42	.508
Vanadium	48.1	1.21	.435
Zinc	83.6	1.21	.435

RL: Reporting Limit

METHOD 3050B/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
? NO.	: 00B170B	Date Extracted:	07/28/00 17:00
le ID:	18609-2826	Date Analyzed:	07/31/00 15:48
Samp ID:	B170-06	Dilution Factor:	1
Lab File ID:	I31G046030	Matrix :	SOIL
Ext Btch ID:	IPG048S	% Moisture :	17.3
Calib. Ref.:	I31G046020	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	4.36	1.21	.418
Lead	5.62	1.21	.276
Selenium	ND	1.21	.582
Thallium	1.24	1.21	1.02

RL: Reporting Limit

METHOD 3050B/6010B
CAM METALS BY ICP

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
SDG NO.	: 00B170B	Date Extracted:	07/28/00 17:00
Sample ID:	18609-2827	Date Analyzed:	08/01/00 11:14
Lab Samp ID:	B170-07	Dilution Factor:	1
Lab File ID:	I07H001017	Matrix :	SOIL
Ext Btch ID:	IPG048S	% Moisture :	12.8
Calib. Ref.:	I07H001007	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.5	3.94
Barium	138	1.15	.0459
Beryllium	.428	.229	.0115
Cadmium	ND	1.15	.229
Chromium	12.7	1.15	.447
Cobalt	5.73	1.15	.367
Copper	29.7	1.15	.768
Manganese	262	2.29	.688
Molybdenum	ND	2.29	.963
Nickel	7.96	2.29	.929
Silver	ND	2.29	.482
Vanadium	34.1	1.15	.413
Zinc	75.4	1.15	.413

RL: Reporting Limit

METHOD 3050B/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	02/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/28/00
NO.	: 00B170B	Date Extracted:	07/28/00 17:00
le ID:	18609-2827	Date Analyzed:	07/31/00 15:53
Samp ID:	B170-07	Dilution Factor:	1
Lab File ID:	I31G046031	Matrix :	SOIL
Ext Btch ID:	IPG048S	% Moisture :	12.8
Calib. Ref.:	I31G046020	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	2.17	1.15	.397
Lead	2.68	1.15	.261
Selenium	ND	1.15	.552
Thallium	ND	1.15	.97

RL: Reporting Limit

METHOD 3050B/6010B
CAM METALS BY ICP

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/28/00
SDG NO.	: 008170B	Date Extracted:	07/28/00 17:00
Sample ID:	MBLK1S	Date Analyzed:	08/01/00 10:38
Lab Samp ID:	IPG048SB	Dilution Factor:	1
Lab File ID:	I07H001009	Matrix :	SOIL
Ext Btch ID:	IPG048S	% Moisture :	NA
Calib. Ref.:	I07H001007	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10	3.44
Barium	ND	1	.04
Beryllium	ND	.2	.01
Cadmium	ND	1	.2
Chromium	ND	1	.39
Cobalt	ND	1	.32
Copper	ND	1	.67
Manganese	ND	2	.6
Molybdenum	ND	2	.84
Nickel	ND	2	.81
Silver	ND	2	.42
Vanadium	ND	1	.36
Zinc	ND	1	.36

RL: Reporting Limit

METHOD 3050B/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/28/00
·G NO.	: 00B170B	Date Extracted:	07/28/00 17:00
›le ID:	MBLK1S	Date Analyzed:	07/31/00 14:07
Samp ID:	IPG048SB	Dilution Factor:	1
Lab File ID:	I31G046010	Matrix :	SOIL
Ext Btch ID:	IPG048S	% Moisture :	NA
Calib. Ref.:	I31G046008	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	ND	1	.346
Lead	ND	1	.228
Selenium	ND	1	.481
Thallium	ND	1	.846

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 00B170B
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPG048SB	IPG048SL	IPG048SC		
LAB FILE ID:	I07H001009	I07H001010	I07H001011		
DATIME EXTRCTD:	07/28/0017:00	07/28/0017:00	07/28/0017:00	DATE COLLECTED:	NA
DATIME ANALYZD:	08/01/0010:38	08/01/0010:43	08/01/0010:47	DATE RECEIVED:	07/28/00
PREP. BATCH:	IPG048S	IPG048S	IPG048S		
CALIB. REF:	I07H001007	I07H001007	I07H001007		

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 %
Antimony	ND	500	449	90	500	452	90	1	80-120	20
Barium	ND	100	94.1	94	100	96.5	96	2	80-120	20
Beryllium	ND	100	93.4	93	100	95.8	96	2	80-120	20
Cadmium	ND	100	86.6	87	100	88.8	89	2	80-120	20
Chromium	ND	100	97.4	97	100	99.4	99	2	80-120	20
Cobalt	ND	100	93.8	94	100	96.6	97	3	80-120	20
Copper	ND	100	89.1	89	100	91.4	91	3	80-120	20
Manganese	ND	100	92.8	93	100	95.2	95	3	80-120	20
Molybdenum	ND	100	97	97	100	98.7	99	2	80-120	20
Nickel	ND	100	94.3	94	100	95.7	96	2	80-120	20
Silver	ND	100	88.2	88	100	90.8	91	3	80-120	20
Vanadium	ND	100	94.5	95	100	97.1	97	3	80-120	20
Zinc	ND	100	91.7	92	100	94.1	94	3	80-120	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
ˆG NO.: 00B170B
HOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPG048SB	IPG048SL	IPG048SC		
LAB FILE ID:	I31G046010	I31G046011	I31G046012		
DATIME EXTRCTD:	07/28/0017:00	07/28/0017:00	07/28/0017:00	DATE COLLECTED:	NA
DATIME ANALYZD:	07/31/0014:07	07/31/0014:11	07/31/0014:15	DATE RECEIVED:	07/28/00
PREP. BATCH:	IPG048S	IPG048S	IPG048S		
CALIB. REF:	I31G046008	I31G046008	I31G046008		

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	94.5	94	100	97	97	3	80-120	20
Lead	ND	100	95	95	100	97	97	2	80-120	20
Selenium	ND	100	96.6	97	100	98.2	98	2	80-120	20
Thallium	ND	100	98.6	99	100	101	101	2	80-120	20

METHOD 7471A
MERCURY BY COLD VAPOR

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00B170B

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	HGG022SB	ND	1	NA	.1	.02	07/28/0009:24	07/27/0015:00	M00G021008	M00G021006	HGG022S	NA	07/27/00
LCS1S	HGG022SL	.810	1	NA	.1	.02	07/28/0009:27	07/27/0015:00	M00G021009	M00G021006	HGG022S	NA	07/27/00
LCD1S	HGG022SC	.813	1	NA	.1	.02	07/28/0009:29	07/27/0015:00	M00G021010	M00G021006	HGG022S	NA	07/27/00
18609-2821	B170-01	ND	1	13.9	.116	.0232	07/28/0010:24	07/27/0015:00	M00G021034	M00G021030	HGG022S	02/28/00	02/28/00
18609-2822	B170-02	ND	1	13.7	.116	.0232	07/28/0010:26	07/27/0015:00	M00G021035	M00G021030	HGG022S	02/28/00	02/28/00
18609-2823	B170-03	ND	1	13.7	.116	.0232	07/28/0010:28	07/27/0015:00	M00G021036	M00G021030	HGG022S	02/28/00	02/28/00
18609-2825	B170-05	ND	1	22.4	.129	.0258	07/28/0010:31	07/27/0015:00	M00G021037	M00G021030	HGG022S	02/28/00	02/28/00
18609-2826	B170-06	ND	1	17.3	.121	.0242	07/28/0010:33	07/27/0015:00	M00G021038	M00G021030	HGG022S	02/28/00	02/28/00
MBLK2S	HGG023SB	ND	1	NA	.1	.02	07/28/0010:35	07/27/0015:00	M00G021039	M00G021030	HGG023S	NA	07/27/00
LCS2S	HGG023SL	.827	1	NA	.1	.02	07/28/0010:37	07/27/0015:00	M00G021040	M00G021030	HGG023S	NA	07/27/00
LCD2S	HGG023SC	.824	1	NA	.1	.02	07/28/0010:40	07/27/0015:00	M00G021041	M00G021030	HGG023S	NA	07/27/00
18609-2827	B170-07	ND	1	12.8	.115	.0229	07/28/0010:47	07/27/0015:00	M00G021044	M00G021042	HGG023S	02/28/00	02/28/00

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

:LIENT: IT CORPORATION
'ROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 00B170B
IETHOD: METHOD 7471A

IATRIX:	SOIL			% MOISTURE:	NA
)ILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
:ONTROL NO.:	HGG022SB	HGG022SL	HGG022SC		
.AB FILE ID:	M00G021008	M00G021009	M00G021010		
)ATIME EXTRCTD:	07/27/0015:00	07/27/0015:00	07/27/0015:00	DATE COLLECTED:	NA
)ATIME ANALYZD:	07/28/0009:24	07/28/0009:27	07/28/0009:29	DATE RECEIVED:	07/27/00
'REP. BATCH:	HGG022S	HGG022S	HGG022S		
:ALIB. REF:	M00G021006	M00G021006	M00G021006		

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	.820	.810	99	.820	.813	99	0	77-120	25

7030

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
DG NO.: 00B170B
ETHOD: METHOD 7471A

ATRIX:	SOIL			% MOISTURE:	NA
ILTN FACTR:	1	1	1		
AMPLE ID:	MBLK2S				
ONTROL NO.:	HGG023SB	HGG023SL	HGG023SC		
AB FILE ID:	M00G021039	M00G021040	M00G021041		
ATIME EXTRCTD:	07/27/0015:00	07/27/0015:00	07/27/0015:00	DATE COLLECTED:	NA
ATIME ANALYZD:	07/28/0010:35	07/28/0010:37	07/28/0010:40	DATE RECEIVED:	07/27/00
REP. BATCH:	HGG023S	HGG023S	HGG023S		
ALIB. REF:	M00G021030	M00G021030	M00G021030		

CCESSION:

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 %	MAX RPD %
lercury	ND	.806	.827	103	.806	.824	102	0	77-120	25

7037

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

CHAIN-OF-CUSTODY RECORD

SWMU 88

PROJECT DATA MANAGER'S COPY

A 10696

FORM 0019 REV. 9-99

IT'S LAB COORDINATOR: M. Concepcion	LAB COORDINATOR'S PHONE: 949-660-7550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 008180	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: El Toro - D070	PROJECT LOCATION: MCAS El Toro, CA	PROJECT NUMBER: 18609	LABORATORY PHONE: 310-615-8839	LABORATORY FAX: —	RECIPIENT NAME: Dominique Istinla
PROJECT CONTACT: M. Concepcion	PROJECT PHONE NUMBER: 949-451-1667	PROJECT FAX: —	LABORATORY ADDRESS: 630 Maple		ADDRESS: 3347 Michelson
PROJECT ADDRESS: —	CITY, STATE AND ZIP CODE: —	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Irvine, CA		CITY, STATE AND ZIP CODE: Irvine, CA
PROJECT MANAGER: B. Siedlak	PROJECT MANAGER'S PHONE: 949-660-5446	PROJECT MANAGER'S FAX: —			

Item	Sample Identifier	Matrix	Date (2000)	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: PCB & PCB								Comments
1	18609-2832	S	2-28	0950	4°C	1	3	72hr	X								
2	18609-2833	S	2-28	1000	4°C	1	3	72hr	X								* Analyze 18609-2833 if NA 18609-2832 has a hit
3	18609-2834	S	2-28	1015	4°C	1	3	72hr	X								
4	18609-2835	S	2-28	1025	4°C	1	3	72hr	X								* Analyze 18609-2835 if 18609-2834 has a hit.
5	18609-2836	S	2-28	1045	4°C	1	3	72hr	X								
6	18609-2837	S	2-28	1050	4°C	1	4	72hr	X								
7	18609-2838	S	2-28	1100	4°C	1	3	72hr	X								* Analyze 18609-2838 if NA 18609-2837 has a hit
8	18609-2839	S	2-29	1115	4°C	1	3	72hr	X								
9	18609-2840	S	2-29	1125	4°C	1	3	72hr	X								* Analyze 18609-2840 if 18609-2839 has a hit
10	18609-2841	W	2-29	1130	4°C	2	3	72hr	X								

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
Mary-Ann [illegible]	Philip Hatch	2-29-00	2:30	

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

SWMU 88

Sample Point Location	Sample Type G	C	F	QC
(1) SWMU 88-SB-03 3.0'-3.5' bgs	X			
(2) SWMU 88-SB-03 5.0'-5.5' bgs	X			
(3) SWMU 88-SB-09 3.0'-3.5' bgs	X			
(4) SWMU 88-SB-09 5.0'-5.5' bgs	X			
(5) SWMU 88-SB-08 3.0'-3.5 bgs	X			
(6) SWMU 88-SB-08 3.5'-3.0' bgs Dup	X			X
(7) SWMU 88-SB-08 5.0'-5.5' bgs	X			
(8) SWMU 88-SB-07 3.0'-3.5 bgs	X			
(9) SWMU 88-SB-07 5.0'-5.5' bgs	X			
(10) Equipment Rinsate				X

Comments

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

4749

3006 575

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

Date: 03-16-2000
EMAX Batch No.: 00B180

Attn: 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 02/29/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2832	B180-01	02/29/00	Soil	Pesticides and PCBs by GC
18609-2833	B180-02	02/29/00	Soil	Hold
18609-2834	B180-03	02/29/00	Soil	Pesticides and PCBs by GC
18609-2835	B180-04	02/29/00	Soil	Hold
18609-2836	B180-05	02/29/00	Soil	Pesticides and PCBs by GC
18609-2837	B180-06	02/29/00	Soil	Pesticides and PCBs by GC
18609-2838	B180-07	02/29/00	Soil	Hold
18609-2839	B180-08	02/29/00	Soil	Pesticides and PCBs by GC
18609-2840	B180-09	02/29/00	Soil	Hold
18609-2841	B180-10	02/29/00	Water	Pesticides and PCBs by GC

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
Telephone: (310) 618-8889
Fax: (310) 618-0818

Date: 04-30-2000
EMAX Batch No.: 00B180A

Attn: 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 02/29/00 and requested on 03/08/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2835	B180-04	02/29/00	Soil	Pesticides and PCBs by GC
18609-2838	B180-07	02/29/00	Soil	Pesticides and PCBs by GC
18609-2840	B180-09	02/29/00	Soil	Pesticides and PCBs by GC

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

SW3550A/8081
PESTICIDES/PCBS

Client	: IT CORPORATION	Date Collected:	02/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/29/00
Batch No.	: 00B180	Date Extracted:	03/01/00 21:00
Sample ID:	18609-2832	Date Analyzed:	03/03/00 23:03
Lab Samp ID:	B180-01	Dilution Factor:	1
Lab File ID:	WB28125A	Matrix :	SOIL
Ext Btch ID:	CPC001S	% Moisture :	13.9
Calib. Ref.:	WB28121A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|ND	.0022	.00047|.00039
GAMMA-BHC (LINDANE)	(ND)|ND	.023	.00037|.00047
BETA-BHC	(ND)|ND	.038	.0003|.0002
HEPTACHLOR	(ND)|.00082J	.023	.00042|.00045
DELTA-BHC	(ND)|ND	.013	.00026|.00024
ALDRIN	(ND)|ND	.017	.00028|.00022
HEPTACHLOR EPOXIDE	(ND)|ND	.024	.00034|.00034
GAMMA-CHLORDANE	(ND)|ND	.017	.00048|.00086
ALPHA-CHLORDANE	(ND)|ND	.017	.0007|.00045
ENDOSULFAN I	(ND)|ND	.024	.00055|.00049
4,4'-DDE	(ND)|ND	.049	.00052|.00054
DIELDRIN	(ND)|ND	.041	.00033|.00025
ENDRIN	(ND)|ND	.042	.00027|.00025
4,4'-DDD	(ND)|ND	.0035	.00038|.0004
ENDOSULFAN II	(ND)|ND	.028	.00052|.00049
4,4'-DDT	(ND)|ND	.0035	.00026|.00026
ENDRIN ALDEHYDE	(ND)|ND	.019	.00023|.00015
ENDOSULFAN SULFATE	(ND)|ND	.042	.00046|.0004
METHOXYCHLOR	(ND)|ND	.066	.00026|.00023
TOXAPHENE	(ND)|ND	.81	.0014|.0024

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	63|(71)	35-135
DECACHLOROBIPHENYL	75|(76)	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:	02/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/29/00
Batch No.	: 00B180	Date Extracted:	03/01/00 21:00
Sample ID:	18609-2834	Date Analyzed:	03/03/00 23:28
Lab Samp ID:	B180-03	Dilution Factor:	1
Lab File ID:	WB28126A	Matrix :	SOIL
Ext Btch ID:	CPC001S	% Moisture :	15.8
Calib. Ref.:	WB28121A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|ND	.0023	.00048|.0004
GAMMA-BHC (LINDANE)	(ND)|ND	.024	.00037|.00048
BETA-BHC	(ND)|ND	.039	.0003|.00021
HEPTACHLOR	(ND)|ND	.024	.00043|.00046
DELTA-BHC	(ND)|ND	.013	.00026|.00025
ALDRIN	(ND)|ND	.018	.00028|.00023
HEPTACHLOR EPOXIDE	(ND)|.0027J	.025	.00035|.00035
GAMMA-CHLORDANE	(ND)|.0026J	.018	.00049|.00088
ALPHA-CHLORDANE	(ND)|ND	.018	.00071|.00046
ENDOSULFAN I	(ND)|ND	.025	.00056|.0005
4,4'-DDE	(ND)|.003J	.05	.00053|.00055
DIELDRIN	(.0047J)|.0038J	.042	.00034|.00026
ENDRIN	.0011J|(ND)	.043	.00028|.00025
4,4'-DDD	(ND)|ND	.0036	.00039|.00041
ENDOSULFAN II	(ND)|ND	.029	.00053|.0005
4,4'-DDT	.03|(.017)	.0036	.00027|.00026
ENDRIN ALDEHYDE	(.0036J)|.0065J	.019	.00024|.00015
ENDOSULFAN SULFATE	(ND)|.0016J	.043	.00047|.00041
METHOXYCHLOR	.0046J|(ND)	.068	.00026|.00023
TOXAPHENE	(ND)|ND	.83	.0014|.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	77|(88)	35-135
DECACHLOROBIPHENYL	85|(86)	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:	02/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/29/00
Batch No.	: 008180A	Date Extracted:	03/08/00 21:00
Sample ID:	18609-2835	Date Analyzed:	03/09/00 01:28
Lab Samp ID:	B180-04	Dilution Factor:	1
Lab File ID:	WC08014A	Matrix :	SOIL
Ext Btch ID:	CPC017S	% Moisture :	14.8
Calib. Ref.:	WC08003A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|.0052	.0022	.00047|.0004
GAMMA-BHC (LINDANE)	(ND)|.0015J	.023	.00037|.00048
BETA-BHC	.0069J|(ND)	.039	.0003|.0002
HEPTACHLOR	.0059J|(.0027J)	.023	.00043|.00046
DELTA-BHC	.00088J|(ND)	.013	.00026|.00025
ALDRIN	(ND)|ND	.018	.00028|.00023
HEPTACHLOR EPOXIDE	(ND)|ND	.025	.00035|.00035
GAMMA-CHLORDANE	(ND)|ND	.018	.00048|.00087
ALPHA-CHLORDANE	(ND)|ND	.018	.00071|.00046
ENDOSULFAN I	(ND)|ND	.025	.00056|.0005
4,4'-DDE	(ND)|ND	.049	.00053|.00054
DIELDRIN	.0014J|(.0015J)	.041	.00034|.00026
ENDRIN	(ND)|ND	.042	.00028|.00025
4,4'-DDD	(ND)|ND	.0035	.00038|.0004
ENDOSULFAN II	(ND)|ND	.028	.00052|.0005
4,4'-DDT	(ND)|.0042	.0035	.00027|.00026
ENDRIN ALDEHYDE	(ND)|.0013J	.019	.00023|.00015
ENDOSULFAN SULFATE	(ND)|.00052J	.042	.00046|.0004
METHOXYCHLOR	(ND)|ND	.067	.00026|.00023
TOXAPHENE	(ND)|ND	.82	.0014|.0024

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(89)|126	35-135
DECACHLOROBIPHENYL	98|(98)	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:	02/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/29/00
Batch No.	: 00B180	Date Extracted:	03/01/00 21:00
Sample ID	: 18609-2836	Date Analyzed:	03/03/00 23:54
Lab Samp ID	: B180-05	Dilution Factor:	1
Lab File ID	: WB28127A	Matrix	: SOIL
Ext Btch ID	: CPC001S	% Moisture	: 16.3
Calib. Ref.	: WB28121A	Instrument ID	: GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	.00073J | (.001J)	.0023	.00048 | .00041
GAMMA-BHC (LINDANE)	(ND) | ND	.024	.00038 | .00049
BETA-BHC	(ND) | ND	.039	.00031 | .00021
HEPTACHLOR	(ND) | .0007J	.024	.00043 | .00047
DELTA-BHC	(ND) | ND	.013	.00027 | .00025
ALDRIN	(ND) | ND	.018	.00029 | .00023
HEPTACHLOR EPOXIDE	(ND) | ND	.025	.00035 | .00035
GAMMA-CHLORDANE	(ND) | ND	.018	.00049 | .00088
ALPHA-CHLORDANE	(ND) | ND	.018	.00072 | .00046
ENDOSULFAN I	(ND) | ND	.025	.00057 | .00051
4,4'-DDE	(ND) | ND	.05	.00054 | .00055
DIELDRIN	(ND) | ND	.042	.00034 | .00026
ENDRIN	(ND) | ND	.043	.00028 | .00026
4,4'-DDD	(ND) | ND	.0036	.00039 | .00041
ENDOSULFAN II	(ND) | ND	.029	.00053 | .00051
4,4'-DDT	(ND) | ND	.0036	.00027 | .00027
ENDRIN ALDEHYDE	(ND) | ND	.019	.00024 | .00016
ENDOSULFAN SULFATE	(ND) | ND	.043	.00047 | .00041
METHOXYCHLOR	(ND) | ND	.068	.00027 | .00023
TOXAPHENE	(ND) | ND	.84	.0014 | .0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	71 | (83)	35-135
DECACHLOROBIPHENYL	77 | (78)	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:	02/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/29/00
Batch No.	: 00B180	Date Extracted:	03/01/00 21:00
Sample ID:	18609-2837	Date Analyzed:	03/04/00 00:19
Lab Samp ID:	B180-06	Dilution Factor:	1
Lab File ID:	WB28128A	Matrix :	SOIL
Ext Btch ID:	CPC001S	% Moisture :	17.2
Calib. Ref.:	WB28121A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|ND	.0023	.00049|.00041
GAMMA-BHC (LINDANE)	(ND)|ND	.024	.00038|.00049
BETA-BHC	(ND)|ND	.04	.00031|.00021
HEPTACHLOR	(ND)|.0011J	.024	.00044|.00047
DELTA-BHC	(ND)|ND	.013	.00027|.00025
ALDRIN	(ND)|ND	.018	.00029|.00023
HEPTACHLOR EPOXIDE	(ND)|.0023J	.025	.00036|.00036
GAMMA-CHLORDANE	(ND)|.0029J	.018	.0005|.00089
ALPHA-CHLORDANE	(ND)|ND	.018	.00073|.00047
ENDOSULFAN I	(ND)|ND	.025	.00057|.00051
4,4'-DDE	(ND)|.0032J	.051	.00054|.00056
DIELDRIN	(.0041J)|.0038J	.042	.00035|.00026
ENDRIN	.00091J|(ND)	.043	.00029|.00026
4,4'-DDD	(ND)|ND	.0036	.00039|.00042
ENDOSULFAN II	(ND)|ND	.029	.00054|.00051
4,4'-DDT	.028|(.015)	.0036	.00027|.00027
ENDRIN ALDEHYDE	(.003J)|.005J	.019	.00024|.00016
ENDOSULFAN SULFATE	(ND)|.0013J	.043	.00048|.00041
METHOXYCHLOR	.0034J|(ND)	.069	.00027|.00024
TOXAPHENE	(ND)|ND	.85	.0015|.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	76|(78)	35-135
DECACHLOROBIPHENYL	77|(78)	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

ent	: IT CORPORATION	Date Collected:	02/29/00
ject	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/29/00
Batch No.	: 00B180A	Date Extracted:	03/08/00 21:00
Sample ID:	18609-2838	Date Analyzed:	03/09/00 01:54
Lab Samp ID:	B180-07	Dilution Factor:	1
Lab File ID:	WC08015A	Matrix :	SOIL
Ext Btch ID:	CPC017S	% Moisture :	13.1
Calib. Ref.:	WC08003A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND) | .0043	.0022	.00046 | .00039
GAMMA-BHC (LINDANE)	(ND) | ND	.023	.00036 | .00047
BETA-BHC	(ND) | ND	.038	.00029 | .0002
HEPTACHLOR	.0068J | (.0029J)	.023	.00042 | .00045
DELTA-BHC	.0009J | (ND)	.013	.00026 | .00024
ALDRIN	(ND) | ND	.017	.00028 | .00022
HEPTACHLOR EPOXIDE	(ND) | .0025J	.024	.00034 | .00034
GAMMA-CHLORDANE	(ND) | .0029J	.017	.00048 | .00085
ALPHA-CHLORDANE	(ND) | ND	.017	.00069 | .00045
ENDOSULFAN I	(ND) | ND	.024	.00055 | .00049
4,4'-DDE	(.0043J) | .003J	.048	.00052 | .00053
DIELDRIN	(.004J) | .0037J	.04	.00033 | .00025
ENDRIN	.00079J | (ND)	.041	.00027 | .00025
4,4'-DDD	(ND) | ND	.0035	.00038 | .0004
ENDOSULFAN II	(ND) | .0018J	.028	.00051 | .00049
4,4'-DDT	(ND) | .014	.0035	.00026 | .00026
DRIN ALDEHYDE	.0028J | (.0041J)	.018	.00023 | .00015
OSULFAN SULFATE	(ND) | .0028J	.041	.00045 | .00039
HOXYCHLOR	.0032J | (ND)	.066	.00026 | .00023
TOXAPHENE	(ND) | ND	.81	.0014 | .0024

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(104) | 148*	35-135
DECACHLOROBIPHENYL	(100) | 101	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:	02/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/29/00
Batch No.	: 00B180	Date Extracted:	03/01/00 21:00
Sample ID:	18609-2839	Date Analyzed:	03/04/00 00:45
Lab Samp ID:	B180-08	Dilution Factor:	1
Lab File ID:	WB28129A	Matrix :	SOIL
Ext Btch ID:	CPC001S	% Moisture :	20.6
Calib. Ref.:	WB28121A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	.00079J|(ND)	.0024	.00051|.00043
GAMMA-BHC (LINDANE)	(ND)|ND	.025	.0004|.00051
BETA-BHC	(ND)|ND	.042	.00032|.00022
HEPTACHLOR	(ND)|.0008J	.025	.00046|.00049
DELTA-BHC	(ND)|ND	.014	.00028|.00026
ALDRIN	(ND)|ND	.019	.0003|.00024
HEPTACHLOR EPOXIDE	(ND)|.0015J	.026	.00037|.00037
GAMMA-CHLORDANE	(ND)|.0031J	.019	.00052|.00093
ALPHA-CHLORDANE	(ND)|ND	.019	.00076|.00049
ENDOSULFAN I	(ND)|ND	.026	.0006|.00053
4,4'-DDE	(.010J)|.0084J	.053	.00057|.00058
DIELDRIN	.0065J|(.0027J)	.044	.00036|.00028
ENDRIN	.0016J|(ND)	.045	.0003|.00027
4,4'-DDD	.042|(.046)	.0038	.00041|.00043
ENDOSULFAN II	(ND)|ND	.03	.00056|.00054
4,4'-DDT	(.033)|.053E	.0038	.00028|.00028
ENDRIN ALDEHYDE	(.0035J)|.0092J	.02	.00025|.00016
ENDOSULFAN SULFATE	(.00059J)|.0014J	.045	.0005|.00043
METHOXYCHLOR	.007J|(ND)	.072	.00028|.00025
TOXAPHENE	(ND)|ND	.88	.0015|.0026

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	68|(78)	35-135
DECACHLOROBIPHENYL	79|(80)	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:	02/29/00
ject	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/29/00
tch No.	: 00B180A	Date Extracted:	03/08/00 21:00
Sample ID:	18609-2840	Date Analyzed:	03/09/00 03:10
Lab Samp ID:	B180-09	Dilution Factor:	1
Lab File ID:	WC08018A	Matrix :	SOIL
Ext Btch ID:	CPC017S	% Moisture :	17.1
Calib. Ref.:	WC08003A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	.0089	.0023	.00048	.00041
GAMMA-BHC (LINDANE)	(.00068J)	.0024J	.024	.00038	.00049
BETA-BHC	.012J	(ND)	.04	.00031	.00021
HEPTACHLOR	.012J	(.0038J)	.024	.00044	.00047
DELTA-BHC	.0025J	(ND)	.013	.00027	.00025
ALDRIN	(ND)	ND	.018	.00029	.00023
HEPTACHLOR EPOXIDE	(ND)	ND	.025	.00035	.00036
GAMMA-CHLORDANE	.00096J	(ND)	.018	.0005	.00089
ALPHA-CHLORDANE	(ND)	ND	.018	.00073	.00047
ENDOSULFAN I	(ND)	ND	.025	.00057	.00051
4,4'-DDE	(.012J)	.010J	.051	.00054	.00056
DIELDRIN	(.0011J)	.0011J	.042	.00035	.00026
ENDRIN	.00068J	(ND)	.043	.00028	.00026
4,4'-DDD	(ND)	ND	.0036	.00039	.00042
ENDOSULFAN II	(ND)	.0021J	.029	.00054	.00051
4,4'-DDT	.011	(.012)	.0036	.00027	.00027
ENDRIN ALDEHYDE	.0029J	(.0019J)	.019	.00024	.00016
DOSULFAN SULFATE	(ND)	ND	.043	.00048	.00041
HOXYCHLOR	.0043J	(ND)	.069	.00027	.00024
TOXAPHENE	(ND)	ND	.84	.0014	.0025

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
TETRACHLORO-M-XYLENE	(93)	215*	35-135
DECACHLOROBIPHENYL	(98)	97	25-143

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

Client	: IT CORPORATION	Date Collected:	02/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/29/00
Batch No.	: 00B180	Date Extracted:	03/03/00 20:00
Sample ID:	18609-2841	Date Analyzed:	03/06/00 18:42
Lab Samp ID:	B180-10	Dilution Factor:	.96
Lab File ID:	SC01153A	Matrix :	WATER
Ext Btch ID:	CPC005W	% Moisture :	NA
Calib. Ref.:	SC01142A	Instrument ID :	GCT008

PARAMETERS	RESULTS (ug/L)	PQL (ug/L)	MDL (ug/L)
ALPHA-BHC	(ND) | ND	.34	.014 | .019
GAMMA-BHC (LINDANE)	(ND) | ND	.24	.012 | .02
BETA-BHC	(ND) | ND	.22	.017 | .024
HEPTACHLOR	(ND) | ND	.38	.014 | .031
DELTA-BHC	(ND) | ND	.23	.012 | .012
ALDRIN	(ND) | ND	.029	.012 | .011
HEPTACHLOR EPOXIDE	(ND) | ND	.31	.019 | .045
GAMMA-CHLORDANE	(ND) | ND	.36	.021 | .019
ALPHA-CHLORDANE	(ND) | ND	.77	.024 | .026
ENDOSULFAN I	(ND) | ND	.29	.03 | .017
4,4'-DDE	(ND) | ND	.48	.021 | .02
DIELDRIN	(ND) | ND	.42	.011 | .012
ENDRIN	(ND) | ND	.37	.015 | .11
4,4'-DDD	(ND) | ND	.48	.032 | .019
ENDOSULFAN II	(ND) | ND	.38	.02 | .024
4,4'-DDT	(ND) | ND	.096	.017 | .022
ENDRIN ALDEHYDE	(ND) | ND	.48	.023 | .023
ENDOSULFAN SULFATE	(ND) | ND	.34	.018 | .019
METHOXYCHLOR	(ND) | ND	.83	.012 | .012
TOXAPHENE	(ND) | ND	1.9	.12 | .11

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	85 | (91)	45-125
DECACHLOROBIPHENYL	111 | (100)	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

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/03/00
Batch No.	: 00B180	Date Extracted:	03/03/00 20:00
Sample ID:	MBLK1W	Date Analyzed:	03/06/00 16:34
Lab Samp ID:	CPC005WB	Dilution Factor:	1
Lab File ID:	SC01148A	Matrix :	WATER
Ext Btch ID:	CPC005W	% Moisture :	NA
Calib. Ref.:	SC01142A	Instrument ID :	GCT008

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)	.039J	.4	.015	.032
DELTA-BHC	(ND)	ND	.24	.013	.012
ALDRIN	(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

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
TETRACHLORO-M-XYLENE	87	(90)	45-125
DECACHLOROBIPHENYL	116	(101)	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.: 00B180
METHOD: SW3520B/8081

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	CPC005WB	CPC005WL	CPC005WC		
LAB FILE ID:	SC01148A	SC01149A	SC01150A		
DATE EXTRACTED:	03/03/0020:00	03/03/0020:00	03/03/0020:00	DATE COLLECTED:	NA
DATE ANALYZED:	03/06/0016:34	03/06/0016:59	03/06/0017:25	DATE RECEIVED:	03/03/00
PREP. BATCH:	CPC005W	CPC005W	CPC005W		
CALIB. REF:	SC01142A	SC01142A	SC01142A		

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	(.2J)	.185J	(100)	92	.2	(.196J)	.181J	(98)	90	(2)	2	43-125	30
Heptachlor	(ND)	.039J	.2	.225J	(.233J)	112	(97)	.2	.221J	(.252J)	110	(106)	2	(8)	45-128	30
Aldrin	(ND)	ND	.2	(.218)	.194	(109)	97	.2	(.191)	.19	(96)	95	(13)	2	47-125	30
Dieldrin	(ND)	ND	.4	.417J	(.453)	104	(113)	.4	.401J	(.441)	100	(110)	4	(3)	42-132	30
Endrin	(ND)	ND	.4	(.505)	.482	(126)	120	.4	(.501)	.477	(125)	119	(1)	1	43-134	30
4,4'-DDT	(ND)	ND	.4	(.498)	.407	(124)	102	.4	(.483)	.401	(121)	100	(3)	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	(.304)	.304	(76)	76	.4	.295	(.304)	74	(76)	45-125
Decachlorobiphenyl	.8	(.734)	.695	(92)	87	.8	(.721)	.688	(90)	86	34-133

5014

SW3550A/8081
PESTICIDES/PCBS

Client	: IT CORPORATION	Date Collected:	NA
ect	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/01/00
n No.	: 008180	Date Extracted:	03/01/00 21:00
Sample ID:	MBLK1S	Date Analyzed:	03/03/00 04:21
Lab Samp ID:	CPC001SB	Dilution Factor:	1
Lab File ID:	WB28081A	Matrix :	SOIL
Ext Btch ID:	CPC001S	% Moisture :	NA
Calib. Ref.:	WB28077A	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
DDT	(ND)|ND	.003	.00023|.00022
N 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

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	71|(73)	35-135
DECACHLOROBIPHENYL	75|(75)	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.: 00B180
METHOD: SW3550A/8081

MATRIX: SOIL % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	CPC001SB	CPC001SL	CPC001SC		
LAB FILE ID:	WB28081A	WB28082A	WB28083A		
DATE EXTRACTED:	03/01/0021:00	03/01/0021:00	03/01/0021:00	DATE COLLECTED:	NA
DATE ANALYZED:	03/03/0004:21	03/03/0004:46	03/03/0005:12	DATE RECEIVED:	03/01/00
PREP. BATCH:	CPC001S	CPC001S	CPC001S		
CALIB. REF:	WB28077A	WB28077A	WB28077A		

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	.00667	(.00452J)|.00451J	(68)|68	.00667	(.00426J)|.00424J	(64)|64	(6)|6	33-130	50
Heptachlor	(ND)|ND	.00667	(.0046J)|.00412J	(69)|62	.00667	(.0043J)|.00411J	(64)|62	(7)|0	35-138	50
Aldrin	(ND)|ND	.00667	(.00493J)|.00477J	(74)|72	.00667	(.00447J)|.00434J	(67)|65	(10)|9	37-126	50
Dieldrin	(ND)|ND	.0133	.00974J|(.00976J)	73|(73)	.0133	(.0101J)|.0101J	(76)|76	(4)|3	32-142	50
Endrin	(ND)|ND	.0133	.0104J|(.0105J)	78|(79)	.0133	.0106J|(.0109J)	80|(82)	2|(4)	33-144	50
4,4'-DDT	(ND)|ND	.0133	(.00715)|.00685	(54)|51	.0133	.00717|(.00724)	54|(54)	0|(6)	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	.00925|(.00942)	69|(71)	.0133	.00856|(.00878)	64|(66)	35-133
Decachlorobiphenyl	.0133	.00993|(.00998)	74|(75)	.0133	.0103|(.0105)	77|(79)	25-143

SW3550A/8081
PESTICIDES/PCBS

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/08/00
Lab No.	: 00B180A	Date Extracted:	03/08/00 21:00
Sample ID:	MBLK1S	Date Analyzed:	03/08/00 22:30
Lab Samp ID:	CPC017SB	Dilution Factor:	1
Lab File ID:	WC08007A	Matrix :	SOIL
Ext Btch ID:	CPC017S	% Moisture :	NA
Calib. Ref.:	WC08003A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	.0013J	.0019	.0004	.00034
GAMMA-BHC (LINDANE)	(ND)	ND	.02	.00032	.00041
BETA-BHC	.0018J	(ND)	.033	.00026	.00017
HEPTACHLOR	(ND)	.00045J	.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
[illegible]PHENE	(ND)	ND	.7	.0012	.0021

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
TETRACHLORO-M-XYLENE	(93)	110	35-135
DECACHLOROBIPHENYL	101	(101)	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

IENT: IT CORPORATION
OJECT: MCAS EL TORO/18609/D.O. 70
.TCH NO.: 00B180A
.THOD: SW3550A/8081

.TRIX:	SOIL			% MOISTURE:	NA
LUTION FACTOR:	1	1	1		
.MPLE ID:	MBLK1S				
.B SAMP ID:	CPC017SB	CPC017SL	CPC017SC		
.B FILE ID:	WC08007A	WC08008A	WC08009A		
.TE EXTRACTED:	03/08/0021:00	03/08/0021:00	03/08/0021:00	DATE COLLECTED:	NA
.TE ANALYZED:	03/08/0022:30	03/08/0022:56	03/08/0023:21	DATE RECEIVED:	03/08/00
EP. BATCH:	CPC017S	CPC017S	CPC017S		
.LIB. REF:	WC08003A	WC08003A	WC08003A		

CESSION:

.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 (%)
.mma-BHC (Lindane)	(ND) | ND	.00667	(.00721J) | .00684J	(108) | 103	.00667	(.00732J) | .00708J	(110) | 106	(2) | 3	33-130	50
.ptachlor	(ND) | .00045J	.00667	.0097J | (.00691J)	145* | (97)	.00667	.010J | (.00717J)	150* | (101)	(3) | 4	35-138	50
.drin	(ND) | ND	.00667	(.00734J) | .00717J	(110) | 107	.00667	(.008J) | .00757J	(120) | 113	(9) | 5	37-126	50
ieldrin	(ND) | ND	.0133	.0144J | (.0145J)	108 | (109)	.0133	.0147J | (.0148J)	110 | (111)	2 | (2)	32-142	50
ndrin	(ND) | ND	.0133	.0142J | (.0153J)	107 | (115)	.0133	.0154J | (.0157J)	116 | (118)	8 | (3)	33-144	50
,4'-DDT	(ND) | ND	.0133	.0119 | (.0123)	89 | (92)	.0133	.0122 | (.0126)	92 | (95)	2 | (2)	25-153	50

JRROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
etrachloro-m-xylene	.0133	.0133 | (.0164)	(99) | 123	.0133	.0136 | (.0162)	(102) | 121	35-133
ecachlorobiphenyl	.0133	.0137 | (.0139)	(103) | 104	.0133	.0137 | (.0139)	(103) | 104	25-143

5013

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

IENT: IT CORPORATION
OJECT: MCAS EL TORO/18609/D.O. 70
TCH NO.: 00B180A
THOD: SW3550B/8082

TRIX: SOIL % MOISTURE: NA
LUTION FACTOR: 1 1 1
MPLE ID: MBLK1S
B SAMP ID: CPC017SB CPC018SL CPC018SC
B FILE ID: WC08007A WC08010A WC08011A
TE EXTRACTED: 03/08/0021:00 03/08/0021:00 03/08/0021:00 DATE COLLECTED: NA
TE ANALYZED: 03/08/0022:30 03/08/0023:47 03/09/0000:12 DATE RECEIVED: 03/08/00
EP. BATCH: CPC017S CPC017S CPC017S
LIB. REF: WC08006A WC08006A WC08006A

CCESSION:

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 (%)
B-1016	(ND) | ND	.167	.12J | (.137J)	72 | (82)	.167	.128J | (.147J)	77 | (88)	6 | (7)	50-150	50
B-1260	(ND) | ND	.167	.127J | (.14J)	76 | (84)	.167	.135J | (.147J)	81 | (88)	6 | (5)	50-150	50

URROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
etrachloro-m-xylene	.0133	.0121 | (.0141)	91 | (106)	.0133	.0122 | (.0144)	91 | (108)	35-133
ecachlorobiphenyl	.0133	.0136 | (.0138)	(102) | 104	.0133	.0139 | (.0141)	(104) | 106	25-143

5014

SW3550B/8082
PCBs

Client : IT CORPORATION	Date Collected: 02/29/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 02/29/00
Batch No. : 00B180	Date Extracted: 03/01/00 21:00
Sample ID: 18609-2832	Date Analyzed: 03/03/00 23:03
Lab Samp ID: B180-01	Dilution Factor: 1
Lab File ID: WB28125A	Matrix : SOIL
Ext Btch ID: CPC001S	% Moisture : 13.9
Calib. Ref.: WB28124A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.81	.0094|.0083
PCB-1221	(ND)|ND	.81	.038|.043
PCB-1232	(ND)|ND	.81	.016|.015
PCB-1242	(ND)|ND	.81	.032|.037
PCB-1248	(ND)|ND	.81	.041|.045
PCB-1254	(ND)|ND	.81	.0066|.007
PCB-1260	(ND)|ND	.81	.0072|.01

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	63|(71)	35-135
DECACHLOROBIPHENYL	75|(76)	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	02/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/29/00
No.	: 00B180	Date Extracted:	03/01/00 21:00
Sample ID	: 18609-2834	Date Analyzed:	03/03/00 23:28
Lab Samp ID	: B180-03	Dilution Factor:	1
Lab File ID	: WB28126A	Matrix	: SOIL
Ext Btch ID	: CPC001S	% Moisture	: 15.8
Calib. Ref.	: WB28124A	Instrument ID	: GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.83	.0096|.0085
PCB-1221	(ND)|ND	.83	.039|.044
PCB-1232	(ND)|ND	.83	.016|.016
PCB-1242	(ND)|ND	.83	.032|.038
PCB-1248	(ND)|ND	.83	.042|.046
PCB-1254	(ND)|ND	.83	.0068|.0071
PCB-1260	(.062J)|.061J	.83	.0074|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	77|(88)	35-135
DECACHLOROBIPHENYL	85|(86)	25-143

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

SW3550B/8082
PCBs

Client : IT CORPORATION	Date Collected: 02/29/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 02/29/00
Batch No. : 008180A	Date Extracted: 03/08/00 21:00
Sample ID: 18609-2835	Date Analyzed: 03/09/00 01:28
Lab Samp ID: B180-04	Dilution Factor: 1
Lab File ID: WC08014A	Matrix : SOIL
Ext Btch ID: CPC017S	% Moisture : 14.8
Calib. Ref.: WC08006A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.82	.0095|.0084
PCB-1221	(ND)|ND	.82	.039|.044
PCB-1232	(ND)|ND	.82	.016|.015
PCB-1242	(ND)|ND	.82	.032|.037
PCB-1248	(ND)|ND	.82	.041|.046
PCB-1254	(ND)|ND	.82	.0067|.0071
PCB-1260	(ND)|ND	.82	.0073|.01

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(89)|126	35-135
DECACHLOROBIPHENYL	98|(98)	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	02/29/00
ct	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/29/00
No.	: 00B180	Date Extracted:	03/01/00 21:00
Sample ID:	18609-2836	Date Analyzed:	03/03/00 23:54
Lab Samp ID:	B180-05	Dilution Factor:	1
Lab File ID:	WB28127A	Matrix :	SOIL
Ext Btch ID:	CPC001S	% Moisture :	16.3
Calib. Ref.:	WB28124A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.84	.0096|.0086
PCB-1221	(ND)|ND	.84	.04|.044
PCB-1232	(ND)|ND	.84	.016|.016
PCB-1242	(ND)|ND	.84	.032|.038
PCB-1248	(ND)|ND	.84	.042|.046
PCB-1254	(ND)|ND	.84	.0068|.0072
PCB-1260	(ND)|ND	.84	.0075|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	71|(83)	35-135
DECACHLOROBIPHENYL	77|(78)	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	02/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/29/00
Batch No.	: 00B180	Date Extracted:	03/01/00 21:00
Sample ID:	18609-2837	Date Analyzed:	03/04/00 00:19
Lab Samp ID:	B180-06	Dilution Factor:	1
Lab File ID:	WB28128A	Matrix :	SOIL
Ext Btch ID:	CPC001S	% Moisture :	17.2
Calib. Ref.:	WB28124A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.85	.0097|.0087
PCB-1221	(ND)|ND	.85	.04|.045
PCB-1232	(ND)|ND	.85	.017|.016
PCB-1242	(ND)|ND	.85	.033|.038
PCB-1248	(ND)|ND	.85	.042|.047
PCB-1254	(ND)|ND	.85	.0069|.0073
PCB-1260	(.051J)|.047J	.85	.0075|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	76|(78)	35-135
DECACHLOROBIPHENYL	77|(78)	25-143

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

SW35508/8082
PCBs

Client	: IT CORPORATION	Date Collected:	02/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/29/00
Batch No.	: 008180A	Date Extracted:	03/08/00 21:00
Sample ID:	18609-2838	Date Analyzed:	03/09/00 01:54
Lab Samp ID:	B180-07	Dilution Factor:	1
Lab File ID:	WC08015A	Matrix	: SOIL
Ext Btch ID:	CPC017S	% Moisture	: 13.1
Calib. Ref.:	WC08006A	Instrument ID	: GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.81	.0093|.0083
PCB-1221	(ND)|ND	.81	.038|.043
PCB-1232	(ND)|ND	.81	.016|.015
PCB-1242	(ND)|ND	.81	.031|.037
PCB-1248	(ND)|ND	.81	.04|.045
PCB-1254	(ND)|ND	.81	.0066|.0069
PCB-1260	(.048J)|.044J	.81	.0072|.01

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(104)|148*	35-135
DECACHLOROBIPHENYL	(100)|101	25-143

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

SW3550B/8082
PCBs

Client : IT CORPORATION	Date Collected: 02/29/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 02/29/00
Batch No. : 00B180	Date Extracted: 03/01/00 21:00
Sample ID: 18609-2839	Date Analyzed: 03/04/00 00:45
Lab Samp ID: B180-08	Dilution Factor: 1
Lab File ID: WB28129A	Matrix : SOIL
Ext Btch ID: CPC001S	% Moisture : 20.6
Calib. Ref.: WB28124A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.88	.01|.009
PCB-1221	(ND)|ND	.88	.042|.047
PCB-1232	(ND)|ND	.88	.017|.017
PCB-1242	(ND)|ND	.88	.034|.04
PCB-1248	(ND)|ND	.88	.044|.049
PCB-1254	(ND)|ND	.88	.0072|.0076
PCB-1260	.095J|(.098J)	.88	.0079|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	68|(78)	35-135
DECACHLOROBIPHENYL	79|(80)	25-143

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

SW3550B/8082
PCBs

Client : IT CORPORATION	Date Collected: 02/29/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 02/29/00
Batch No. : 008180A	Date Extracted: 03/08/00 21:00
Sample ID: 18609-2840	Date Analyzed: 03/09/00 03:10
Lab Samp ID: B180-09	Dilution Factor: 1
Lab File ID: WC08018A	Matrix : SOIL
Ext Btch ID: CPC017S	% Moisture : 17.1
Calib. Ref.: WC08006A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.84	.0097|.0086
PCB-1221	(ND)|ND	.84	.04|.045
PCB-1232	(ND)|ND	.84	.017|.016
PCB-1242	(ND)|ND	.84	.033|.038
PCB-1248	(ND)|ND	.84	.042|.047
PCB-1254	(ND)|ND	.84	.0069|.0073
PCB-1260	(ND)|ND	.84	.0075|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(93)|215*	35-135
DECACHLOROBIPHENYL	(98)|97	25-143

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

SW3520C/8082
PCBs

Client	: IT CORPORATION	Date Collected:	02/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/29/00
Batch No.	: 008180	Date Extracted:	03/03/00 20:00
Sample ID:	18609-2841	Date Analyzed:	03/06/00 18:42
Lab Samp ID:	B180-10	Dilution Factor:	.96
Lab File ID:	SC01153A	Matrix :	WATER
Ext Btch ID:	CPC005W	% Moisture :	NA
Calib. Ref.:	SC01145A	Instrument ID :	GCT008

PARAMETERS	RESULTS (ug/L)	PQL (ug/L)	MDL (ug/L)
PCB-1016	(ND)|ND	1.9	.8|.58
PCB-1221	(ND)|ND	1.9	1.1|.8
PCB-1232	(ND)|ND	.96	.37|.55
PCB-1242	(ND)|ND	.96	.45|.24
PCB-1248	(ND)|ND	.96	.41|.34
PCB-1254	(ND)|ND	.96	.29|.48
PCB-1260	(ND)|ND	.96	.37|.33

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	85|(91)	45-125
DECACHLOROBIPHENYL	111|(100)	34-133

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

SW3520C/8082
PCBs

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/03/00
No.	: 008180	Date Extracted:	03/03/00 20:00
S[illegible] ID:	MBLK1W	Date Analyzed:	03/06/00 16:34
Lab Samp ID:	CPC005WB	Dilution Factor:	1
Lab File ID:	SC01148A	Matrix :	WATER
Ext Btch ID:	CPC005W	% Moisture :	NA
Calib. Ref.:	SC01145A	Instrument ID :	GCT008

PARAMETERS	RESULTS (ug/L)	PQL (ug/L)	MDL (ug/L)
PCB-1016	(ND)|ND	2	.83|.6
PCB-1221	(ND)|ND	2	1.1|.83
PCB-1232	(ND)|ND	1	.39|.57
PCB-1242	(ND)|ND	1	.47|.25
PCB-1248	(ND)|ND	1	.43|.35
PCB-1254	(ND)|ND	1	.3|.5
PCB-1260	(ND)|ND	1	.39|.34

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	87|(90)	45-125
DECACHLOROBIPHENYL	116|(101)	34-133

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

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00B180
METHOD: SW3520C/8082

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	CPC005WB	CPC006WL	CPC006WC		
LAB FILE ID:	SC01148A	SC01151A	SC01152A		
DATE EXTRACTED:	03/03/0020:00	03/03/0020:00	03/03/0020:00	DATE COLLECTED:	NA
DATE ANALYZED:	03/06/0016:34	03/06/0017:51	03/06/0018:16	DATE RECEIVED:	03/03/00
PREP. BATCH:	CPC005W	CPC005W	CPC005W		
CALIB. REF:	SC01145A	SC01145A	SC01145A		

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 (%)
PCB-1016	(ND)|ND	5	(4.76)|4.74	(95)|95	5	(4.07)|3.99	(81)|80	(16)|17	40-150	30
PCB-1260	(ND)|ND	5	5.29|(5.4)	106|(108)	5	4.74|(4.84)	95|(97)	11|(11)	40-150	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	.2	(.195)|.184	(98)|92	.2	(.22)|.176	(110)|88	45-125
Decachlorobiphenyl	.2	(.242)|.222	121|(111)	.2	(.226)|.21	113|(105)	34-133

5160

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	NA
ct	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/01/00
No.	: 00B180	Date Extracted:	03/01/00 21:00
Sample ID:	MBLK1S	Date Analyzed:	03/03/00 04:21
Lab Samp ID:	CPC001SB	Dilution Factor:	1
Lab File ID:	WB28081A	Matrix :	SOIL
Ext Btch ID:	CPC001S	% Moisture :	NA
Calib. Ref.:	WB28080A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.7	.0081|.0072
PCB-1221	(ND)|ND	.7	.033|.037
PCB-1232	(ND)|ND	.7	.014|.013
PCB-1242	(ND)|ND	.7	.027|.032
PCB-1248	(ND)|ND	.7	.035|.039
PCB-1254	(ND)|ND	.7	.0057|.006
PCB-1260	(ND)|ND	.7	.0062|.0089

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	71|(73)	35-135
DECACHLOROBIPHENYL	75|(75)	25-143

PQL: Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
ncluded the reported column
side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00B180
METHOD: SW3550B/8082

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	CPC001SB	CPC002SL	CPC002SC		
LAB FILE ID:	WB28081A	WB28084A	WB28085A		
DATE EXTRACTED:	03/01/0021:00	03/01/0021:00	03/01/0021:00	DATE COLLECTED:	NA
DATE ANALYZED:	03/03/0004:21	03/03/0005:37	03/03/0006:03	DATE RECEIVED:	03/01/00
PREP. BATCH:	CPC001S	CPC001S	CPC001S		
CALIB. REF:	WB28080A	WB28080A	WB28080A		

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 (%)
PCB-1016	(ND)|ND	.167	.0892J|(.0993J)	54|(60)	.167	.0792J|(.0969J)	48*|(58)	12|(2)	50-150	50
PCB-1260	(ND)|ND	.167	.104J|(.117J)	62|(70)	.167	.103J|(.118J)	62|(71)	1|(1)	50-150	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	.00815|(.00833)	61|(62)	.0133	.00812|(.00836)	61|(63)	35-133
Decachlorobiphenyl	.0133	.0102|(.0103)	77|(77)	.0133	.0105|(.0107)	79|(80)	25-143

SW3550B/8082
PCBs

ient	: IT CORPORATION	Date Collected:	NA
ct	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/08/00
No.	: 00B180A	Date Extracted:	03/08/00 21:00
Sample ID:	MBLK1S	Date Analyzed:	03/08/00 22:30
Lab Samp ID:	CPC017SB	Dilution Factor:	1
Lab File ID:	WC08007A	Matrix :	SOIL
Ext Btch ID:	CPC017S	% Moisture :	NA
Calib. Ref.:	WC08006A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND) | ND	.7	.0081 | .0072
PCB-1221	(ND) | ND	.7	.033 | .037
PCB-1232	(ND) | ND	.7	.014 | .013
PCB-1242	(ND) | ND	.7	.027 | .032
PCB-1248	(ND) | ND	.7	.035 | .039
PCB-1254	(ND) | ND	.7	.0057 | .006
PCB-1260	(ND) | ND	.7	.0062 | .0089

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(93) | 110	35-135
DECACHLOROBIPHENYL	101 | (101)	25-143

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

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

IENT: IT CORPORATION
OJECT: MCAS EL TORO/18609/D.O. 70
TCH NO.: 00B180A
THOD: SW3550B/8082

.TRIX:	SOIL			% MOISTURE:	13.1
LUTION FACTOR:	1	1	1		
.MPLE ID:	18609-2838				
.B SAMP ID:	B180-07	B180-07M	B180-07S		
.B FILE ID:	WC08015A	WC08016A	WC08017A		
.TE EXTRACTED:	03/08/0021:00	03/08/0021:00	03/08/0021:00	DATE COLLECTED:	02/29/00
.TE ANALYZED:	03/09/0001:54	03/09/0002:19	03/09/0002:45	DATE RECEIVED:	02/29/00
:EP. BATCH:	CPC017S	CPC017S	CPC017S		
.LIB. REF:	WC08006A	WC08006A	WC08006A		

: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 (%)	MAX RPD (%)
:B-1016	(ND)|ND	.192	.15J|(.18J)	78|(94)	.192	(.2J)|.19J	(104)|99	(29)|5	50-150	50
:B-1260	(.048J)|.044J	.192	.15J|(.16J)	53|(60)	.192	.15J|(.16J)	53|(60)	0|(0)	50-150	50

JRROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
etrachloro-m-xylene	.0153	(.014)|.022	(92)|141*	.0153	(.015)|.027	(97)|178*	35-133
ecachlorobiphenyl	.0153	(.016)|.015	101|(100)	.0153	(.016)|.016	104|(104)	25-143

Out side of QC Limit.

5016

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 10805

SWMU88 Excavation

FORM 0019 REV. 9-99

IT'S LAB COORDINATOR: M. Concepcion	LAB COORDINATOR'S PHONE: 949-660-7537	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: C123	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: El Toro - D070	PROJECT LOCATION: MCAS El Toro	PROJECT NUMBER: 94-708186097	LABORATORY PHONE: 310-618-8889	LABORATORY FAX: 310-618-818	RECIPIENT NAME: Duwayne Ishida
PROJECT CONTACT: M. Concepcion	PROJECT PHONE NUMBER: 949-451-1667	PROJECT FAX: 949-475-5433	LABORATORY ADDRESS: 630 Maple		ADDRESS: 3347 Michelson #1200
PROJECT ADDRESS: —	CITY, STATE AND ZIP CODE: —	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Torrance, CA		CITY, STATE AND ZIP CODE: Irvine, CA 92606
PROJECT MANAGER: B. Sedlak	PROJECT MANAGER'S PHONE: 949-660-5446	PROJECT MANAGER'S FAX: —			

Item	Sample Identifier	Matrix	2000 Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: Pest PCB	Comments
1	18609-2845	S	3-13	1350	4°C	2	3	72hr	X	
2	18609-2846	S	3-13	1400	4°C	2	3	72hr	X	
3	18609-2847	S	3-13	1420	4°C	2	3	72hr	X	
4	18609-2848	S	3-13	1445	4°C	2	3	72hr	X	
5	18609-2849	S	3-14	0940	4°C	2	3	72hr	X	
6	18609-2850	S	3-14	0945	4°C	2	3	72hr	X	
7	18609-2851	S	3-14	0950	4°C	2	3	72hr	X	
8	18609-2852	S	3-14	1040	4°C	2	3	72hr	X	
9	18609-2853	S	3-14	1045	4°C	2	3	72hr	X	
10										

SAMPLES COLLECTED BY: W. Sefferson

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	[signature]	3-14-00	1600	

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

SWMU88 Excavation (Confirmation Sample)

Sample Point Location	G	C	F	QC
(1) SWMU88-EX1-01 bottom floor at 3'	X			
(2) SWMU88-EX1-02 bottom floor at 3'	X			
(3) SWMU88-EX2-03 bottom floor at 3'	X			
(4) SWMU88-EX3-01 bottom floor at 3'	X			
(5) SWMU88-EX4-03 bottom floor at 3'	X			
(6) SWMU88-EX4-02 bottom floor at 3'	X			
(7) SWMU88-EX4-03 bottom floor at 3'	X			
(8) SWMU88-EX5-01 bottom floor at 3'	X			
(9) SWMU88-EX5-02 bottom floor at 3'	X			

Comments: Due 3/20/00

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

4898/1305

4704A 3a
↓ 3b

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

Date: 04-17-2000
EMAX Batch No.: 00C123

Attn: 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 03/14/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2845	C123-01	03/13/00	Soil	Pesticides and PCBs by GC
18609-2846	C123-02	03/13/00	Soil	Pesticides and PCBs by GC
18609-2847	C123-03	03/13/00	Soil	Pesticides and PCBs by GC
18609-2848	C123-04	03/13/00	Soil	Pesticides and PCBs by GC
18609-2849	C123-05	03/14/00	Soil	Pesticides and PCBs by GC
18609-2850	C123-06	03/14/00	Soil	Pesticides and PCBs by GC
18609-2851	C123-07	03/14/00	Soil	Pesticides and PCBs by GC
18609-2852	C123-08	03/14/00	Soil	Pesticides and PCBs by GC
18609-2853	C123-09	03/14/00	Soil	Pesticides and PCBs by GC

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

SW3550A/8081
PESTICIDES/PCBS

nt	: IT CORPORATION	Date Collected:	03/13/00
ct	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2845	Date Analyzed:	03/16/00 20:33
Lab Samp ID:	C123-01	Dilution Factor:	1
Lab File ID:	WC15104A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	22.6
Calib. Ref.:	WC15097A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|.011	.0025	.00052|.00044
GAMMA-BHC (LINDANE)	.00091J|(ND)	.026	.00041|.00053
BETA-BHC	.0023J|(ND)	.043	.00033|.00022
HEPTACHLOR	.012J|(ND)	.026	.00047|.0005
DELTA-BHC	.0011J|(ND)	.014	.00029|.00027
ALDRIN	(ND)|ND	.019	.00031|.00025
HEPTACHLOR EPOXIDE	(ND)|.00043J	.027	.00038|.00038
GAMMA-CHLORDANE	.0023J|(ND)	.019	.00053|.00096
ALPHA-CHLORDANE	(ND)|ND	.019	.00078|.0005
ENDOSULFAN I	(ND)|ND	.027	.00061|.00055
4,4'-DDE	(ND)|ND	.054	.00058|.0006
DIELDRIN	.0016J|(ND)	.045	.00037|.00028
ENDRIN	(ND)|ND	.047	.0003|.00028
4,4'-DDD	(ND)|ND	.0039	.00042|.00045
ULFAN II	.0014J|(ND)	.031	.00057|.00055
DDT	(.0066)|.0064	.0039	.00029|.00029
ENDRIN ALDEHYDE	(ND)|.0017J	.021	.00026|.00017
ENDOSULFAN SULFATE	(ND)|ND	.047	.00051|.00044
METHOXYCHLOR	(ND)|ND	.074	.00029|.00025
TOXAPHENE	(ND)|ND	.9	.0016|.0027

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	64|(130)	35-135
DECACHLOROBIPHENYL	(90)|84	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	03/13/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2845	Date Analyzed:	03/16/00 20:33
Lab Samp ID:	C123-01	Dilution Factor:	1
Lab File ID:	WC15104A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	22.6
Calib. Ref.:	WC15100A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.9	.01|.0093
PCB-1221	(ND)|ND	.9	.043|.048
PCB-1232	(ND)|ND	.9	.018|.017
PCB-1242	(ND)|ND	.9	.035|.041
PCB-1248	(ND)|ND	.9	.045|.05
PCB-1254	(ND)|ND	.9	.0074|.0078
PCB-1260	(.025J)|.02J	.9	.0081|.012

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	64|(130)	35-135
DECACHLOROBIPHENYL	(90)|84	25-143

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

SW3550A/8081
PESTICIDES/PCBS

Client : IT CORPORATION	Date Collected: 03/13/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 03/14/00
Batch No. : 00C123	Date Extracted: 03/15/00 22:00
Sample ID: 18609-2846	Date Analyzed: 03/16/00 21:50
Lab Samp ID: C123-02	Dilution Factor: 1
Lab File ID: WC15107A	Matrix : SOIL
Ext Btch ID: CPC033S	% Moisture : 19.0
Calib. Ref.: WC15097A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(.0016J)|.012	.0023	.0005|.00042
GAMMA-BHC (LINDANE)	.00098J|(ND)	.025	.00039|.0005
BETA-BHC	.0025J|(ND)	.041	.00032|.00021
HEPTACHLOR	.012J|(ND)	.025	.00045|.00048
DELTA-BHC	.0013J|(ND)	.014	.00027|.00026
ALDRIN	(ND)|ND	.019	.0003|.00024
HEPTACHLOR EPOXIDE	(ND)|ND	.026	.00036|.00037
GAMMA-CHLORDANE	.0021J|(ND)	.019	.00051|.00091
ALPHA-CHLORDANE	(ND)|ND	.019	.00074|.00048
ENDOSULFAN I	(ND)|ND	.026	.00059|.00052
4,4'-DDE	(ND)|ND	.052	.00055|.00057
DIELDRIN	(ND)|ND	.043	.00035|.00027
ENDRIN	(ND)|ND	.044	.00029|.00026
4,4'-DDD	(ND)|ND	.0037	.0004|.00043
ENDOSULFAN II	(ND)|ND	.03	.00055|.00052
4,4'-DDT	(ND)|ND	.0037	.00028|.00028
ENDRIN ALDEHYDE	(ND)|ND	.02	.00025|.00016
ENDOSULFAN SULFATE	(ND)|ND	.044	.00049|.00042
METHOXYCHLOR	(ND)|ND	.07	.00027|.00024
TOXAPHENE	(ND)|ND	.86	.0015|.0026

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(62)|145*	35-135
DECACHLOROBIPHENYL	(90)|85	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	03/13/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2846	Date Analyzed:	03/16/00 21:50
Lab Samp ID:	C123-02	Dilution Factor:	1
Lab File ID:	WC15107A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	19.0
Calib. Ref.:	WC15100A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.86	.010|.0089
PCB-1221	(ND)|ND	.86	.041|.046
PCB-1232	(ND)|ND	.86	.017|.016
PCB-1242	(ND)|ND	.86	.034|.039
PCB-1248	(ND)|ND	.86	.043|.048
PCB-1254	(ND)|ND	.86	.007|.0074
PCB-1260	(ND)|ND	.86	.0077|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(62)|145*	35-135
DECACHLOROBIPHENYL	(90)|85	25-143

PQL: Practical Quantitation Limit
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( ) included the reported column
* Out side of QC Limit

SW3550A/8081
PESTICIDES/PCBS

nt	: IT CORPORATION	Date Collected:	03/13/00
t	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2847	Date Analyzed:	03/16/00 23:06
Lab Samp ID:	C123-03	Dilution Factor:	1
Lab File ID:	WC15110A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	21.0
Calib. Ref.:	WC15097A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND) | .013	.0024	.00051 | .00043
GAMMA-BHC (LINDANE)	.0011J | (ND)	.025	.0004 | .00052
BETA-BHC	.002J | (ND)	.042	.00032 | .00022
HEPTACHLOR	.013J | (ND)	.025	.00046 | .00049
DELTA-BHC	.0012J | (ND)	.014	.00028 | .00026
ALDRIN	(ND) | ND	.019	.0003 | .00024
HEPTACHLOR EPOXIDE	(ND) | .00099J	.027	.00037 | .00038
GAMMA-CHLORDANE	(.0014J) | .0014J	.019	.00052 | .00094
ALPHA-CHLORDANE	(ND) | ND	.019	.00076 | .00049
ENDOSULFAN I	(ND) | ND	.027	.0006 | .00054
4,4'-DDE	.0016J | (.00085J)	.053	.00057 | .00058
DIELDRIN	.0041J | (.0012J)	.044	.00036 | .00028
ENDRIN	.00085J | (ND)	.046	.0003 | .00027
4,4'-DDD	(.0044) | .0017J	.0038	.00041 | .00044
ENDOSULFAN II	(ND) | ND	.03	.00056 | .00054
4,4'-DDT	(.011) | .017	.0038	.00029 | .00028
ENDRIN ALDEHYDE	(.0023J) | .0058J	.02	.00025 | .00016
ULFAN SULFATE	(ND) | ND	.046	.0005 | .00043
YCHLOR	.0035J | (ND)	.072	.00028 | .00025
TOXAPHENE	(ND) | ND	.89	.0015 | .0026

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(72) | 153*	35-135
DECACHLOROBIPHENYL	(92) | 87	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	03/13/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2847	Date Analyzed:	03/16/00 23:06
Lab Samp ID:	C123-03	Dilution Factor:	1
Lab File ID:	WC15110A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	21.0
Calib. Ref.:	WC15100A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.89	.01|.0091
PCB-1221	(ND)|ND	.89	.042|.047
PCB-1232	(ND)|ND	.89	.017|.017
PCB-1242	(ND)|ND	.89	.034|.04
PCB-1248	(ND)|ND	.89	.044|.049
PCB-1254	(ND)|ND	.89	.0072|.0076
PCB-1260	(.072J)|.068J	.89	.0079|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(72)|153*	35-135
DECACHLOROBIPHENYL	(92)|87	25-143

PQL: Practical Quantitation Limit
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( ) included the reported column
* Out side of QC Limit

SW3550A/8081
PESTICIDES/PCBS

ent	: IT CORPORATION	Date Collected:	03/13/00
ct	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2848	Date Analyzed:	03/17/00 05:02
Lab Samp ID:	C123-04	Dilution Factor:	1
Lab File ID:	WC15124A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	18.7
Calib. Ref.:	WC15120A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(.0025)|.0075	.0023	.00049|.00042
GAMMA-BHC (LINDANE)	(ND)|ND	.025	.00039|.0005
BETA-BHC	(ND)|.0017J	.041	.00031|.00021
HEPTACHLOR	.01J|(.0041J)	.025	.00045|.00048
DELTA-BHC	.0019J|(ND)	.014	.00027|.00026
ALDRIN	(ND)|ND	.018	.00029|.00024
HEPTACHLOR EPOXIDE	(ND)|.0027J	.026	.00036|.00037
GAMMA-CHLORDANE	(.0011J)|.002J	.018	.00051|.00091
ALPHA-CHLORDANE	(ND)|ND	.018	.00074|.00048
ENDOSULFAN I	(ND)|ND	.026	.00058|.00052
4,4'-DDE	.0034J|(.0021J)	.052	.00055|.00057
DIELDRIN	.0055J|(.0012J)	.043	.00035|.00027
ENDRIN	.0011J|(ND)	.044	.00029|.00026
4,4'-DDD	.006|(.0016J)	.0037	.0004|.00042
ENDOSULFAN II	(ND)|ND	.03	.00055|.00052
4,4'-DDT	.023|(.027)	.0037	.00028|.00027
ENDRIN ALDEHYDE	(.001J)|.0086J	.02	.00024|.00016
SULFAN SULFATE	.00075J|(ND)	.044	.00048|.00042
XYCHLOR	.0045J|(ND)	.07	.00027|.00024
TOXAPHENE	(ND)|ND	.86	.0015|.0026

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(82)|147*	35-135
DECACHLOROBIPHENYL	(92)|89	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	03/13/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2848	Date Analyzed:	03/17/00 05:02
Lab Samp ID:	C123-04	Dilution Factor:	1
Lab File ID:	WC15124A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	18.7
Calib. Ref.:	WC15123A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.86	.0099|.0088
PCB-1221	(ND)|ND	.86	.041|.046
PCB-1232	(ND)|ND	.86	.017|.016
PCB-1242	(ND)|ND	.86	.033|.039
PCB-1248	(ND)|ND	.86	.043|.048
PCB-1254	(ND)|ND	.86	.007|.0074
PCB-1260	(.095J)|.094J	.86	.0077|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(82)|147*	35-135
DECACHLOROBIPHENYL	(92)|89	25-143

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

SW3550A/8081
PESTICIDES/PCBS

...ent	: IT CORPORATION	Date Collected:	03/14/00
...ct	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
... No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2849	Date Analyzed:	03/16/00 23:31
Lab Samp ID:	C123-05	Dilution Factor:	1
Lab File ID:	WC15111A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	9.6
Calib. Ref.:	WC15097A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	.0076	.0021	.00044	.00038
GAMMA-BHC (LINDANE)	.0007J	(ND)	.022	.00035	.00045
BETA-BHC	.0015J	(ND)	.037	.00028	.00019
HEPTACHLOR	.0082J	(ND)	.022	.0004	.00043
DELTA-BHC	.00083J	(ND)	.012	.00025	.00023
ALDRIN	(ND)	ND	.017	.00026	.00021
HEPTACHLOR EPOXIDE	(ND)	.00099J	.023	.00033	.00033
GAMMA-CHLORDANE	.0008J	(ND)	.017	.00046	.00082
ALPHA-CHLORDANE	(ND)	ND	.017	.00067	.00043
ENDOSULFAN I	(ND)	ND	.023	.00052	.00047
4,4'-DDE	.0026J	(.0016J)	.046	.0005	.00051
DIELDRIN	.003J	(.00075J)	.039	.00032	.00024
ENDRIN	.00054J	(ND)	.04	.00026	.00024
4,4'-DDD	(ND)	ND	.0033	.00036	.00038
ENDOSULFAN II	(ND)	ND	.027	.00049	.00047
4,4'-DDT	(.013)	.014	.0033	.00025	.00025
ENDRIN ALDEHYDE	(ND)	.0047J	.018	.00022	.00014
...SULFAN SULFATE	(ND)	ND	.04	.00044	.00038
...XYCHLOR	(ND)	ND	.063	.00025	.00022
TOXAPHENE	(ND)	ND	.77	.0013	.0023

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
TETRACHLORO-M-XYLENE	(87)	147*	35-135
DECACHLOROBIPHENYL	(97)	92	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2849	Date Analyzed:	03/16/00 23:31
Lab Samp ID:	C123-05	Dilution Factor:	1
Lab File ID:	WC15111A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	9.6
Calib. Ref.:	WC15100A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.77	.0089|.0079
PCB-1221	(ND)|ND	.77	.037|.041
PCB-1232	(ND)|ND	.77	.015|.015
PCB-1242	(ND)|ND	.77	.03|.035
PCB-1248	(ND)|ND	.77	.039|.043
PCB-1254	(ND)|ND	.77	.0063|.0067
PCB-1260	(.054J)|.048J	.77	.0069|.0099

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(87)|147*	35-135
DECACHLOROBIPHENYL	(97)|92	25-143

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

SW3550A/8081
PESTICIDES/PCBS

Client	: IT CORPORATION	Date Collected:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2850	Date Analyzed:	04/06/00 13:39
Lab Samp ID:	C123-06	Dilution Factor:	10
Lab File ID:	WD04093A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	10.8
Calib. Ref.:	WD04080A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND) | ND	.021	.0045 | .0038
GAMMA-BHC (LINDANE)	(ND) | ND	.22	.0035 | .0046
BETA-BHC	(ND) | ND	.37	.0029 | .0019
HEPTACHLOR	(ND) | ND	.22	.0041 | .0044
DELTA-BHC	(ND) | ND	.12	.0025 | .0023
ALDRIN	(ND) | ND	.17	.0027 | .0022
HEPTACHLOR EPOXIDE	(.017J) | .04J	.24	.0033 | .0033
GAMMA-CHLORDANE	(.012J) | .053J	.17	.0046 | .0083
ALPHA-CHLORDANE	.0095J | (ND)	.17	.0067 | .0043
ENDOSULFAN I	(ND) | ND	.24	.0053 | .0048
4,4'-DDE	(.21J) | .18J	.47	.005 | .0052
DIELDRIN	.14J | (.045J)	.39	.0032 | .0025
ENDRIN	.037J | (ND)	.4	.0026 | .0024
4,4'-DDD	(.11) | .075	.034	.0037 | .0039
ENDOSULFAN II	(ND) | ND	.27	.005 | .0048
4,4'-DDT	(.82E) | 1.3E	.034	.0025 | .0025
ENDRIN ALDEHYDE	(.042J) | .21	.18	.0022 | .0015
[illegible]ULFAN SULFATE	.024J | (.025J)	.4	.0044 | .0038
[illegible]YCHLOR	.1J | (ND)	.64	.0025 | .0022
T[illegible]HENE	(ND) | ND	7.8	.013 | .023

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(DO) | DO	35-135
DECACHLOROBIPHENYL	(DO) | DO	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:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2850DL	Date Analyzed:	04/06/00 16:34
Lab Samp ID:	C123-06T	Dilution Factor:	40
Lab File ID:	WD04097A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	10.8
Calib. Ref.:	WD04081A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|ND	.085	.018|.015
GAMMA-BHC (LINDANE)	(ND)|ND	.9	.014|.018
BETA-BHC	(ND)|ND	1.5	.011|.0078
HEPTACHLOR	(ND)|ND	.9	.016|.017
DELTA-BHC	(ND)|ND	.49	.010|.0094
ALDRIN	(ND)|ND	.67	.011|.0086
HEPTACHLOR EPOXIDE	(ND)|ND	.94	.013|.013
GAMMA-CHLORDANE	(ND)|ND	.67	.019|.033
ALPHA-CHLORDANE	(ND)|ND	.67	.027|.017
ENDOSULFAN I	(ND)|ND	.94	.021|.019
4,4'-DDE	(.22J)|.17J	1.9	.02|.021
DIELDRIN	.17J|(ND)	1.6	.013|.0098
ENDRIN	.041J|(ND)	1.6	.011|.0096
4,4'-DDD	.15|(.061J)	.13	.015|.015
ENDOSULFAN II	.11J|(ND)	1.1	.02|.019
4,4'-DDT	.8|(1.2)	.13	.01|.01
ENDRIN ALDEHYDE	(.083J)|.2J	.72	.0089|.0058
ENDOSULFAN SULFATE	(ND)|ND	1.6	.018|.015
METHOXYCHLOR	(ND)|ND	2.6	.010|.0088
TOXAPHENE	(ND)|ND	31	.054|.093

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(DO)|DO	35-135
DECACHLOROBIPHENYL	(DO)|DO	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2850	Date Analyzed:	03/17/00 05:27
Lab Samp ID:	C123-06	Dilution Factor:	10
Lab File ID:	WC15125A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	10.8
Calib. Ref.:	WC15123A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	7.8	.09|.08
PCB-1221	(ND)|ND	7.8	.37|.42
PCB-1232	(ND)|ND	7.8	.15|.15
PCB-1242	(ND)|ND	7.8	.3|.36
PCB-1248	(ND)|ND	7.8	.39|.43
PCB-1254	(ND)|ND	7.8	.064|.067
PCB-1260	(1.9J)|1.9J	7.8	.07|.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(69)|164*	35-135
DECACHLOROBIPHENYL	(107)|91	25-143

PQL: Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
(Included the reported column
* Out side of QC Limit

SW3550A/8081
PESTICIDES/PCBS

Client	: IT CORPORATION	Date Collected:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2851	Date Analyzed:	03/16/00 23:57
Lab Samp ID:	C123-07	Dilution Factor:	1
Lab File ID:	WC15112A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	15.9
Calib. Ref.:	WC15097A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(.0015J)|.011	.0023	.00048|.0004
GAMMA-BHC (LINDANE)	.00095J|(ND)	.024	.00037|.00048
BETA-BHC	.002J|(ND)	.039	.0003|.00021
HEPTACHLOR	.011J|(ND)	.024	.00043|.00046
DELTA-BHC	.0012J|(ND)	.013	.00026|.00025
ALDRIN	(ND)|ND	.018	.00028|.00023
HEPTACHLOR EPOXIDE	(ND)|.0016J	.025	.00035|.00035
GAMMA-CHLORDANE	.0013J|(ND)	.018	.00049|.00088
ALPHA-CHLORDANE	(ND)|ND	.018	.00072|.00046
ENDOSULFAN I	(ND)|ND	.025	.00056|.0005
4,4'-DDE	(.0066J)|.005J	.05	.00053|.00055
DIELDRIN	.0054J|(.0014J)	.042	.00034|.00026
ENDRIN	.0012J|(ND)	.043	.00028|.00025
4,4'-DDD	.0036|(ND)	.0036	.00039|.00041
ENDOSULFAN II	(ND)|ND	.029	.00053|.00051
4,4'-DDT	(.04)|.046	.0036	.00027|.00027
ENDRIN ALDEHYDE	(.0018J)|.0077J	.019	.00024|.00015
ENDOSULFAN SULFATE	(.00067J)|.0011J	.043	.00047|.00041
METHOXYCHLOR	.0055J|(ND)	.068	.00026|.00023
TOXAPHENE	(ND)|ND	.83	.0014|.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(74)|158*	35-135
DECACHLOROBIPHENYL	(92)|84	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2851	Date Analyzed:	03/16/00 23:57
Lab Samp ID:	C123-07	Dilution Factor:	1
Lab File ID:	WC15112A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	15.9
Calib. Ref.:	WC15100A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.83	.0096|.0085
PCB-1221	(ND)|ND	.83	.039|.044
PCB-1232	(ND)|ND	.83	.016|.016
PCB-1242	(ND)|ND	.83	.032|.038
PCB-1248	(ND)|ND	.83	.042|.046
PCB-1254	(ND)|ND	.83	.0068|.0072
PCB-1260	(.096J)|.087J	.83	.0074|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(74)|158*	35-135
DECACHLOROBIPHENYL	(92)|84	25-143

PQL: Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
ND: Not included the reported column
* Out side of QC Limit

SW3550A/8081
PESTICIDES/PCBS

Client	: IT CORPORATION	Date Collected:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2852	Date Analyzed:	03/17/00 00:22
Lab Samp ID:	C123-08	Dilution Factor:	1
Lab File ID:	WC15113A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	13.9
Calib. Ref.:	WC15097A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(.0011J)	.007	.0022	.00047	.00039
GAMMA-BHC (LINDANE)	(ND)	.00087J	.023	.00037	.00047
BETA-BHC	.0012J	(ND)	.038	.0003	.0002
HEPTACHLOR	.0094J	(.0028J)	.023	.00042	.00045
DELTA-BHC	.00088J	(ND)	.013	.00026	.00024
ALDRIN	(ND)	ND	.017	.00028	.00022
HEPTACHLOR EPOXIDE	(ND)	ND	.024	.00034	.00034
GAMMA-CHLORDANE	.0009J	(.00099J)	.017	.00048	.00086
ALPHA-CHLORDANE	(ND)	ND	.017	.0007	.00045
ENDOSULFAN I	(ND)	ND	.024	.00055	.00049
4,4'-DDE	.0019J	(.001J)	.049	.00052	.00054
DIELDRIN	.0035J	(.00076J)	.041	.00033	.00025
ENDRIN	.0007J	(ND)	.042	.00027	.00025
4,4'-DDD	(ND)	ND	.0035	.00038	.0004
ENDOSULFAN II	(ND)	ND	.028	.00052	.00049
4,4'-DDT	(.011)	.015	.0035	.00026	.00026
ENDRIN ALDEHYDE	(.0017J)	.0049J	.019	.00023	.00015
ENDOSULFAN SULFATE	(ND)	ND	.042	.00046	.0004
METHOXYCHLOR	.0028J	(ND)	.066	.00026	.00023
TOXAPHENE	(ND)	ND	.81	.0014	.0024

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
TETRACHLORO-M-XYLENE	(79)	147*	35-135
DECACHLOROBIPHENYL	(90)	84	25-143

PQL: Practical Quantitation Limit
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( ) included the reported column

SW3550B/8082
PCBs

nt	: IT CORPORATION	Date Collected:	03/14/00
ct	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: DOC123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2852	Date Analyzed:	03/17/00 00:22
Lab Samp ID:	C123-08	Dilution Factor:	1
Lab File ID:	WC15113A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	13.9
Calib. Ref.:	WC15100A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.81	.0094|.0083
PCB-1221	(ND)|ND	.81	.038|.043
PCB-1232	(ND)|ND	.81	.016|.015
PCB-1242	(ND)|ND	.81	.032|.037
PCB-1248	(ND)|ND	.81	.041|.045
PCB-1254	(ND)|ND	.81	.0066|.007
PCB-1260	(.066J)|.059J	.81	.0072|.01

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(79)|147*	35-135
DECACHLOROBIPHENYL	(90)|84	25-143

PQL: Practical Quantitation Limit
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ncluded the reported column
* Out side of QC Limit

SW3550A/8081
PESTICIDES/PCBS

Client : IT CORPORATION	Date Collected: 03/14/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 03/14/00
Batch No. : 00C123	Date Extracted: 03/15/00 22:00
Sample ID: 18609-2853	Date Analyzed: 04/06/00 14:30
Lab Samp ID: C123-09	Dilution Factor: 2
Lab File ID: WD04095A	Matrix : SOIL
Ext Btch ID: CPC033S	% Moisture : 9.3
Calib. Ref.: WD04080A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND) | .01	.0042	.00089 | .00075
GAMMA-BHC (LINDANE)	(ND) | ND	.044	.00069 | .0009
BETA-BHC	(ND) | ND	.073	.00056 | .00038
HEPTACHLOR	.0098J | (.0032J)	.044	.0008 | .00086
DELTA-BHC	(ND) | ND	.024	.00049 | .00046
ALDRIN	(ND) | ND	.033	.00053 | .00042
HEPTACHLOR EPOXIDE	(ND) | .0052J	.046	.00065 | .00065
GAMMA-CHLORDANE	(ND) | .0084J	.033	.00091 | .0016
ALPHA-CHLORDANE	(ND) | ND	.033	.0013 | .00086
ENDOSULFAN I	(ND) | ND	.046	.001 | .00093
4,4'-DDE	.01J | (.0061J)	.093	.00099 | .001
DIELDRIN	.019J | (.0063J)	.077	.00063 | .00048
ENDRIN	.0076J | (ND)	.079	.00052 | .00047
4,4'-DDD	.0097 | (ND)	.0066	.00072 | .00076
ENDOSULFAN II	(ND) | ND	.053	.00098 | .00094
4,4'-DDT	(.034) | .082	.0066	.0005 | .00049
ENDRIN ALDEHYDE	(.0073J) | .032J	.035	.00044 | .00029
ENDOSULFAN SULFATE	.0037J | (.0045J)	.079	.00087 | .00075
METHOXYCHLOR	.015J | (ND)	.13	.00049 | .00043
TOXAPHENE	(ND) | ND	1.5	.0026 | .0046

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(107) | 193*	35-135
DECACHLOROBIPHENYL	(100) | 94	25-143

PQL: Practical Quantitation Limit
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( ) included the reported column

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2853	Date Analyzed:	03/17/00 00:48
Lab Samp ID:	C123-09	Dilution Factor:	1
Lab File ID:	WC15114A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	9.3
Calib. Ref.:	WC15100A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.77	.0089|.0079
PCB-1221	(ND)|ND	.77	.036|.041
PCB-1232	(ND)|ND	.77	.015|.015
PCB-1242	(ND)|ND	.77	.03|.035
PCB-1248	(ND)|ND	.77	.039|.043
PCB-1254	(ND)|ND	.77	.0063|.0066
PCB-1260	(.28J)|.26J	.77	.0069|.0098

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(81)|143*	35-135
DECACHLOROBIPHENYL	(91)|88	25-143

PQL: Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
(ND) Not included the reported column
* Out side of QC Limit

SW3550A/8081
PESTICIDES/PCBS

Client	: IT CORPORATION	Date Collected:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2853DL	Date Analyzed:	03/17/00 14:47
Lab Samp ID:	C123-09T	Dilution Factor:	2
Lab File ID:	WC15147A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	9.3
Calib. Ref.:	WC15142A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|.0081	.0042	.00089|.00075
GAMMA-BHC (LINDANE)	(ND)|ND	.044	.00069|.0009
BETA-BHC	(ND)|ND	.073	.00056|.00038
HEPTACHLOR	.0086J|(.0023J)	.044	.0008|.00086
DELTA-BHC	(ND)|ND	.024	.00049|.00046
ALDRIN	(ND)|ND	.033	.00053|.00042
HEPTACHLOR EPOXIDE	(ND)|.0031J	.046	.00065|.00065
GAMMA-CHLORDANE	(ND)|.0046J	.033	.00091|.0016
ALPHA-CHLORDANE	(ND)|ND	.033	.0013|.00086
ENDOSULFAN I	(ND)|ND	.046	.001|.00093
4,4'-DDE	.0094J|(.0054J)	.093	.00099|.001
DIELDRIN	.015J|(.0043J)	.077	.00063|.00048
ENDRIN	.0039J|(ND)	.079	.00052|.00047
4,4'-DDD	.0089|(ND)	.0066	.00072|.00076
ENDOSULFAN II	(ND)|ND	.053	.00098|.00094
4,4'-DDT	(.039)|.073	.0066	.0005|.00049
ENDRIN ALDEHYDE	(.006J)|.025J	.035	.00044|.00029
ENDOSULFAN SULFATE	(.0048J)|.0036J	.079	.00087|.00075
METHOXYCHLOR	.021J|(.0057J)	.13	.00049|.00043
TOXAPHENE	(ND)|ND	1.5	.0026|.0046

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(81)|143*	35-135
DECACHLORODIPHENYL	(98)|89	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:	03/15/00
Batch No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	MBLK1S	Date Analyzed:	03/16/00 19:17
Lab Samp ID:	CPC033SB	Dilution Factor:	1
Lab File ID:	WC15101A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	NA
Calib. Ref.:	WC15097A	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

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(94)|89	35-135
DECACHLOROBIPHENYL	(88)|81	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/15/00
Batch No.	: 00C123	Date Extracted:	03/15/00 22:00
Sample ID:	MBLK1S	Date Analyzed:	03/16/00 19:17
Lab Samp ID:	CPC033SB	Dilution Factor:	1
Lab File ID:	WC15101A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	NA
Calib. Ref.:	WC15100A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.7	.0081|.0072
PCB-1221	(ND)|ND	.7	.033|.037
PCB-1232	(ND)|ND	.7	.014|.013
PCB-1242	(ND)|ND	.7	.027|.032
PCB-1248	(ND)|ND	.7	.035|.039
PCB-1254	(ND)|ND	.7	.0057|.006
PCB-1260	(ND)|ND	.7	.0062|.0089

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(94)|89	35-135
DECACHLOROBIPHENYL	(88)|81	25-143

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

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
JOB NO.: 00C123
METHOD: SW3550A/8081

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MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPC033SB CPC033SL
LAB FILE ID: WC15101A WC15102A
DATE EXTRACTED: 03/15/0022:00 03/15/0022:00 DATE COLLECTED: NA
DATE ANALYZED: 03/16/0019:17 03/16/0019:42 DATE RECEIVED: 03/15/00
PREP. BATCH: CPC033S CPC033S
CALIB. REF: WC15097A WC15097A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
gamma-BHC (Lindane)	(ND)|ND	.00667	(.00645J)|.00614J	(97)|92	33-130
Heptachlor	(ND)|ND	.00667	(.00608J)|.00556J	(91)|83	35-138
Aldrin	(ND)|ND	.00667	.00653J|(.00685J)	98|(103)	37-126
Dieldrin	(ND)|ND	.0133	(.0125J)|.0121J	(94)|91	32-142
Endrin	(ND)|ND	.0133	(.0132J)|.0128J	(99)|96	33-144
4,4'-DDT	(ND)|ND	.0133	(.0079)|.00782	(59)|59	25-153

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SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Tetrachloro-m-xylene	.0133	(.0127)|.012	(95)|90	35-133
Decachlorobiphenyl	.0133	(.012)|.0112	(90)|84	25-143

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00C123
METHOD: SW3550B/8082

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPC033SB CPC034SL
LAB FILE ID: WC15101A WC15103A
DATE EXTRACTED: 03/15/0022:00 03/15/0022:00 DATE COLLECTED: NA
DATE ANALYZED: 03/16/0019:17 03/16/0020:08 DATE RECEIVED: 03/15/00
PREP. BATCH: CPC033S CPC033S
CALIB. REF: WC15100A WC15100A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
PCB-1016	(ND)|ND	.167	.141J|(.15J)	85|(90)	50-150
PCB-1260	(ND)|ND	.167	(.152J)|.147J	(91)|88	50-150

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Tetrachloro-m-xylene	.0133	(.0127)|.0121	(96)|91	35-133
Decachlorobiphenyl	.0133	(.0123)|.0112	(92)|84	25-143

EMAX QUALITY CONTROL DATA
- MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00C123
METHOD: SW3550A/8081

MATRIX: SOIL % MOISTURE: 22.6
DILUTION FACTOR: 1 1
SAMPLE ID: 18609-2845
LAB SAMP ID: C123-01 C123-01M
LAB FILE ID: WC15104A WC15105A
DATE EXTRACTED: 03/15/0022:00 03/15/0022:00 DATE COLLECTED: 03/13/00
DATE ANALYZED: 03/16/0020:33 03/16/0020:59 DATE RECEIVED: 03/14/00
PREP. BATCH: CPC033S CPC033S
CALIB. REF: WC15097A WC15097A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	QC LIMIT (%)
gamma-BHC (Lindane)	.00091J|(ND)	.00862	(.0096J)|.0077J	(101)|89	33-130
Heptachlor	.012J|(ND)	.00862	.013J|(.01J)	12*|(116)	35-138
Aldrin	(ND)|ND	.00862	.011J|(.0075J)	128*|(87)	37-126
Dieldrin	.0016J|(ND)	.0172	(.017J)|.016J	(89)|93	32-142
Endrin	(ND)|ND	.0172	(.017J)|.016J	(99)|93	33-144
4,4'-DDT	(.0066)|.0064	.0172	.023|(.024)	95|(102)	25-153

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	QC LIMIT (%)
Tetrachloro-m-xylene	.0172	(.01)|.021	60|(121)	35-133
Decachlorobiphenyl	.0172	(.014)|.013	(83)|77	25-143

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

.IENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: 00C123
ETHOD: SW3550B/8082

ATRIX:	SOIL			% MOISTURE:	19.0
ILUTION FACTOR:	1	1	1		
AMPLE ID:	18609-2846				
AB SAMP ID:	C123-02	C123-02M	C123-02S		
AB FILE ID:	WC15107A	WC15108A	WC15109A		
ATE EXTRACTED:	03/15/0022:00	03/15/0022:00	03/15/0022:00	DATE COLLECTED:	03/13/00
ATE ANALYZED:	03/16/0021:50	03/16/0022:15	03/16/0022:40	DATE RECEIVED:	03/14/00
REP. BATCH:	CPC033S	CPC033S	CPC033S		
ALIB. REF:	WC15100A	WC15100A	WC15100A		

CCESSION:

ARAMETER	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 (%)
CB-1016	(ND)|ND	.206	(.15J)|.14J	(73)|68	.206	(.2J)|.18J	(97)|87	(29)|25	50-150	50
CB-1260	(ND)|ND	.206	(.17J)|.16J	(83)|78	.206	(.18J)|.17J	(87)|83	(6)|6	50-150	50

URROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
etrachloro-m-xylene	.0165	(.0083)|.015	50|(89)	.0165	(.013)|.022	(76)|134	35-133
ecachlorobiphenyl	.0165	(.014)|.013	(86)|79	.0165	(.015)|.014	(91)|85	25-143

Out side of QC Limit.

5031

MPLETED 4W 3/3/010

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 10807

SWMU 88 Excavation

FORM 0019 REV. 9-99

IT'S LAB COORDINATOR: M. Concepcion	LAB COORDINATOR'S PHONE: 949-660-7550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 000127	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: El Toro - DOTO	PROJECT LOCATION: MCAS El Toro, CA	PROJECT NUMBER: 181609	LABORATORY PHONE: 310-618-8889	LABORATORY FAX: 310-618-0818	RECIPIENT NAME: Duwayne Ishida
PROJECT CONTACT: M. Concepcion	PROJECT PHONE NUMBER: 949-451-1667	PROJECT FAX: 949-475-5433	LABORATORY ADDRESS: 630 Maple Dr		ADDRESS: 33471 Michelson #202
PROJECT ADDRESS: —	CITY, STATE AND ZIP CODE: —	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Torrance, CA		CITY, STATE AND ZIP CODE: Irvine, CA 92606
PROJECT MANAGER: R. Setlak	PROJECT MANAGER'S PHONE: 949-660-5446	PROJECT MANAGER'S FAX: —			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8081/8082 (Ext. TPCL)							Comments
1	181609-2854	S	3-14	1100	4°C	2	3	72hr	X							need results by Friday.
2	181609-2855	S	3-14	1105	4°C	2	4	72hr	X							
3	181609-2856	S	3-14	1315	4°C	2	3	72hr	X							
4	181609-2857	S	3-14	1370	4°C	2	3	72hr	X							
5	181609-2858	S	3-14	1350	4°C	2	3	72hr	X							
6																
7																
8																
9																
10																

W.S. 3-14-00

SAMPLES COLLECTED BY: W. Sifferman

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Wayne Sifferman	[illegible]	3/14/00	3:00	

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

SWMU 88 - Excavation (Confirmation Sample)

Sample Point Location	G	C	F	QC
① SWMU 88-EX6-01 bottom floor at 3'	X			
② SWMU 88-EX6-01 (Dup) bottom floor at 3'	X			X
③ SWMU 88-EX1-03 bottom floor at 3'	X			
④ SWMU 88-EX1-04 bottom floor at 3'	X			
⑤ SWMU 88-EX1-05 bottom floor at 3'	X			

Comments: Due 3/20/00

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

AL

4898/725

4704B

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

Date: 04-17-2000
EMAX Batch No.: 00C127

Attn: 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 03/14/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2854	C127-01	03/14/00	Soil	Pesticides and PCBs by GC
18609-2855	C127-02	03/14/00	Soil	Pesticides and PCBs by GC
18609-2856	C127-03	03/14/00	Soil	Pesticides and PCBs by GC
18609-2857	C127-04	03/14/00	Soil	Pesticides and PCBs by GC
18609-2858	C127-05	03/14/00	Soil	Pesticides and PCBs by GC

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

SW3550A/8081
PESTICIDES/PCBS

Client	: IT CORPORATION	Date Collected:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Lab Job No.	: 00C127	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2854	Date Analyzed:	03/17/00 15:13
Lab Samp ID:	C127-01	Dilution Factor:	1
Lab File ID:	WC15148A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	18.5
Calib. Ref.:	WC15142A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|.0099	.0023	.00049|.00042
GAMMA-BHC (LINDANE)	(ND)|ND	.025	.00039|.0005
BETA-BHC	(ND)|ND	.04	.00031|.00021
HEPTACHLOR	.0079J|(ND)	.025	.00045|.00048
DELTA-BHC	.0011J|(ND)	.013	.00027|.00026
ALDRIN	(ND)|ND	.018	.00029|.00024
HEPTACHLOR EPOXIDE	(ND)|ND	.026	.00036|.00036
GAMMA-CHLORDANE	.001J|(ND)	.018	.00051|.00091
ALPHA-CHLORDANE	(ND)|ND	.018	.00074|.00048
ENDOSULFAN I	(ND)|ND	.026	.00058|.00052
4,4'-DDE	.0016J|(.0009J)	.052	.00055|.00057
DIELDRIN	.0023J|(.0011J)	.043	.00035|.00027
ENDRIN	(ND)|ND	.044	.00029|.00026
4,4'-DDD	(ND)|ND	.0037	.0004|.00042
ENDOSULFAN II	(ND)|ND	.029	.00055|.00052
4,4'-DDT	(.0085)|.013	.0037	.00028|.00027
ENDRIN ALDEHYDE	(ND)|.0029J	.02	.00024|.00016
ENDOSULFAN SULFATE	(ND)|ND	.044	.00048|.00042
METHOXYCHLOR	(ND)|ND	.07	.00027|.00024
TOXAPHENE	(ND)|ND	.86	.0015|.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(83)|166*	35-135
DECACHLOROBIPHENYL	(92)|86	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C127	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2854	Date Analyzed:	03/17/00 15:13
Lab Samp ID:	C127-01	Dilution Factor:	1
Lab File ID:	WC15148A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	18.5
Calib. Ref.:	WC15123A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.86	.0099|.0088
PCB-1221	(ND)|ND	.86	.041|.046
PCB-1232	(ND)|ND	.86	.017|.016
PCB-1242	(ND)|ND	.86	.033|.039
PCB-1248	(ND)|ND	.86	.043|.048
PCB-1254	(ND)|ND	.86	.007|.0074
PCB-1260	(.04J)|.033J	.86	.0077|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(83)|166*	35-135
DECACHLOROBIPHENYL	(92)|86	25-143

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

SW3550A/8081
PESTICIDES/PCBS

Client	: IT CORPORATION	Date Collected:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C127	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2855	Date Analyzed:	03/17/00 15:38
Lab Samp ID:	C127-02	Dilution Factor:	2
Lab File ID:	WC15149A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	17.2
Calib. Ref.:	WC15142A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|.0034J	.0046	.00097|.00082
GAMMA-BHC (LINDANE)	(ND)|ND	.048	.00076|.00098
BETA-BHC	(ND)|ND	.08	.00062|.00042
HEPTACHLOR	(ND)|.0021J	.048	.00088|.00094
DELTA-BHC	(ND)|ND	.027	.00054|.0005
ALDRIN	(ND)|ND	.036	.00058|.00046
HEPTACHLOR EPOXIDE	(ND)|.0026J	.051	.00071|.00072
GAMMA-CHLORDANE	(.0017J)|.0029J	.036	.0010|.0018
ALPHA-CHLORDANE	(ND)|ND	.036	.0015|.00094
ENDOSULFAN I	(ND)|ND	.051	.0011|.001
4,4'-DDE	.0055J|(.0032J)	.1	.0011|.0011
DIELDRIN	.014J|(.0038J)	.085	.00069|.00053
ENDRIN	.0034J|(ND)	.087	.00057|.00052
4,4'-DDD	.0088|(ND)	.0072	.00079|.00083
ENDOSULFAN II	(ND)|ND	.058	.0011|.001
4,4'-DDT	(.04)|.067	.0072	.00055|.00054
ENDRIN ALDEHYDE	(.0045J)|.024J	.039	.00048|.00031
ENDOSULFAN SULFATE	(.0015J)|.0027J	.087	.00095|.00083
METHOXYCHLOR	.013J|(ND)	.14	.00054|.00047
TOXAPHENE	(ND)|ND	1.7	.0029|.005

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(87)|136*	35-135
DECACHLOROBIPHENYL	(83)|74	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C127	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2855	Date Analyzed:	03/17/00 15:38
Lab Samp ID:	C127-02	Dilution Factor:	2
Lab File ID:	WC15149A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	17.2
Calib. Ref.:	WC15123A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	1.7	.019|.017
PCB-1221	(ND)|ND	1.7	.08|.09
PCB-1232	(ND)|ND	1.7	.033|.032
PCB-1242	(ND)|ND	1.7	.066|.077
PCB-1248	(ND)|ND	1.7	.085|.094
PCB-1254	(ND)|ND	1.7	.014|.015
PCB-1260	(.23J)|.2J	1.7	.015|.022

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(87)|136*	35-135
DECACHLOROBIPHENYL	(83)|74	25-143

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

SW3550A/8081
PESTICIDES/PCBS

Client : IT CORPORATION	Date Collected: 03/14/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 03/14/00
Lab No. : 00C127	Date Extracted: 03/15/00 22:00
Sample ID: 18609-2856	Date Analyzed: 03/17/00 01:13
Lab Samp ID: C127-03	Dilution Factor: 1
Lab File ID: WC15115A	Matrix : SOIL
Ext Btch ID: CPC033S	% Moisture : 15.9
Calib. Ref.: WC15097A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND)|.01	.0023	.00048|.0004
GAMMA-BHC (LINDANE)	(ND)|ND	.024	.00037|.00048
BETA-BHC	.0012J|(ND)	.039	.0003|.00021
HEPTACHLOR	.011J|(ND)	.024	.00043|.00046
DELTA-BHC	.0013J|(ND)	.013	.00026|.00025
ALDRIN	(ND)|ND	.018	.00028|.00023
HEPTACHLOR EPOXIDE	(ND)|ND	.025	.00035|.00035
GAMMA-CHLORDANE	.00063J|(ND)	.018	.00049|.00088
ALPHA-CHLORDANE	(ND)|ND	.018	.00072|.00046
ENDOSULFAN I	(ND)|ND	.025	.00056|.0005
4,4'-DDE	(ND)|ND	.05	.00053|.00055
DIELDRIN	(ND)|ND	.042	.00034|.00026
ENDRIN	(ND)|ND	.043	.00028|.00025
4,4'-DDD	(ND)|ND	.0036	.00039|.00041
ENDOSULFAN II	(ND)|ND	.029	.00053|.00051
4,4'-DDT	(ND)|ND	.0036	.00027|.00027
ENDRIN ALDEHYDE	(ND)|ND	.019	.00024|.00015
ENDOSULFAN SULFATE	(ND)|ND	.043	.00047|.00041
METHOXYCHLOR	(ND)|ND	.068	.00026|.00023
TOXAPHENE	(ND)|ND	.83	.0014|.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(71)|150*	35-135
DECACHLOROBIPHENYL	(95)|90	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C127	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2856	Date Analyzed:	03/17/00 01:13
Lab Samp ID:	C127-03	Dilution Factor:	1
Lab File ID:	WC15115A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	15.9
Calib. Ref.:	WC15100A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.83	.0096|.0085
PCB-1221	(ND)|ND	.83	.039|.044
PCB-1232	(ND)|ND	.83	.016|.016
PCB-1242	(ND)|ND	.83	.032|.038
PCB-1248	(ND)|ND	.83	.042|.046
PCB-1254	(ND)|ND	.83	.0068|.0072
PCB-1260	(ND)|ND	.83	.0074|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(71)|150*	35-135
DECACHLOROBIPHENYL	(95)|90	25-143

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

SW3550A/8081
PESTICIDES/PCBS

Client	: IT CORPORATION	Date Collected:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
No.	: 00C127	Date Extracted:	03/15/00 22:00
Sample ID	: 18609-2857	Date Analyzed:	03/17/00 01:39
Lab Samp ID	: C127-04	Dilution Factor:	1
Lab File ID	: WC15116A	Matrix	: SOIL
Ext Btch ID	: CPC033S	% Moisture	: 15.5
Calib. Ref.	: WC15097A	Instrument ID	: GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(.0019J)|.0084	.0022	.00048|.0004
GAMMA-BHC (LINDANE)	.001J|(ND)	.024	.00037|.00048
BETA-BHC	.0022J|(ND)	.039	.0003|.0002
HEPTACHLOR	.010J|(ND)	.024	.00043|.00046
DELTA-BHC	.0013J|(ND)	.013	.00026|.00025
ALDRIN	(ND)|ND	.018	.00028|.00023
HEPTACHLOR EPOXIDE	(ND)|.00084J	.025	.00035|.00035
GAMMA-CHLORDANE	.00093J|(.0011J)	.018	.00049|.00088
ALPHA-CHLORDANE	(ND)|ND	.018	.00071|.00046
ENDOSULFAN I	(ND)|ND	.025	.00056|.0005
4,4'-DDE	(.0013J)|.002J	.05	.00053|.00055
DIELDRIN	(.0021J)|.0021J	.041	.00034|.00026
ENDRIN	(ND)|ND	.043	.00028|.00025
4,4'-DDD	(ND)|ND	.0036	.00039|.00041
ENDOSULFAN II	(ND)|ND	.028	.00053|.0005
[illegible]'-DDT	(.016)|.012	.0036	.00027|.00026
[illegible] ALDEHYDE	(.0019J)|.0035J	.019	.00024|.00015
ENDOSULFAN SULFATE	(ND)|.0014J	.043	.00047|.0004
METHOXYCHLOR	(ND)|ND	.067	.00026|.00023
TOXAPHENE	(ND)|ND	.83	.0014|.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	58|(120)	35-135
DECACHLOROBIPHENYL	(89)|84	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C127	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2857	Date Analyzed:	03/17/00 01:39
Lab Samp ID:	C127-04	Dilution Factor:	1
Lab File ID:	WC15116A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	15.5
Calib. Ref.:	WC15100A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.83	.0096|.0085
PCB-1221	(ND)|ND	.83	.039|.044
PCB-1232	(ND)|ND	.83	.016|.016
PCB-1242	(ND)|ND	.83	.032|.038
PCB-1248	(ND)|ND	.83	.041|.046
PCB-1254	(ND)|ND	.83	.0067|.0071
PCB-1260	(.044J)|.039J	.83	.0074|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	58|(120)	35-135
DECACHLOROBIPHENYL	(89)|84	25-143

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

SW3550A/8081
PESTICIDES/PCBS

Client	: IT CORPORATION	Date Collected:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C127	Date Extracted:	03/15/00 22:00
Sample ID:	18609-2858	Date Analyzed:	04/06/00 12:23
Lab Samp ID:	C127-05	Dilution Factor:	1
Lab File ID:	WD04090A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	18.9
Calib. Ref.:	WD04080A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	.012	.0023	.0005	.00042
GAMMA-BHC (LINDANE)	.0015J	(ND)	.025	.00039	.0005
BETA-BHC	(ND)	ND	.041	.00032	.00021
HEPTACHLOR	.0057J	(.0042J)	.025	.00045	.00048
DELTA-BHC	.0012J	(ND)	.014	.00027	.00026
ALDRIN	(ND)	ND	.018	.00029	.00024
HEPTACHLOR EPOXIDE	(ND)	.0061J	.026	.00036	.00037
GAMMA-CHLORDANE	(.0028J)	.0088J	.018	.00051	.00091
ALPHA-CHLORDANE	(ND)	ND	.018	.00074	.00048
ENDOSULFAN I	(ND)	ND	.026	.00058	.00052
4,4'-DDE	(.0064J)	.0063J	.052	.00055	.00057
DIELDRIN	.014J	(.0076J)	.043	.00035	.00027
ENDRIN	.0045J	(ND)	.044	.00029	.00026
4,4'-DDD	.0063	(ND)	.0037	.0004	.00043
ENDOSULFAN II	(.00069J)	.0018J	.03	.00055	.00052
4,4'-DDT	(.019)	.061E	.0037	.00028	.00027
ENDRIN ALDEHYDE	(.0061J)	.02J	.02	.00025	.00016
ENDOSULFAN SULFATE	.0024J	(.0038J)	.044	.00049	.00042
METHOXYCHLOR	.013J	(ND)	.07	.00027	.00024
TOXAPHENE	(ND)	ND	.86	.0015	.0026

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
TETRACHLORO-M-XYLENE	(107)	195*	35-135
DECACHLOROBIPHENYL	(95)	92	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:	03/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/14/00
Batch No.	: 00C127	Date Extracted:	03/15/00 22:00
Sample ID:	18609-28580L	Date Analyzed:	04/06/00 12:48
Lab Samp ID:	C127-05T	Dilution Factor:	2
Lab File ID:	WD04091A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	18.9
Calib. Ref.:	WD04080A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	.016	.0047	.00099	.00084
GAMMA-BHC (LINDANE)	(ND)	ND	.049	.00078	.001
BETA-BHC	(ND)	ND	.081	.00063	.00043
HEPTACHLOR	.0061J	(.004J)	.049	.0009	.00096
DELTA-BHC	.0019J	(ND)	.027	.00055	.00052
ALDRIN	(ND)	ND	.037	.00059	.00047
HEPTACHLOR EPOXIDE	(ND)	.006J	.052	.00073	.00073
GAMMA-CHLORDANE	(.0032J)	.0089J	.037	.001	.0018
ALPHA-CHLORDANE	(ND)	ND	.037	.0015	.00096
ENDOSULFAN I	(ND)	ND	.052	.0012	.001
4,4'-DDE	.0087J	(.004J)	.1	.0011	.0011
DIELDRIN	(.016J)	.012J	.086	.00071	.00054
ENDRIN	.0059J	(ND)	.089	.00058	.00053
4,4'-DDD	.0072J	(ND)	.0074	.0008	.00085
ENDOSULFAN II	(ND)	ND	.059	.0011	.001
4,4'-DDT	(.015)	.059	.0074	.00056	.00055
ENDRIN ALDEHYDE	(.0062J)	.02J	.039	.00049	.00032
ENDOSULFAN SULFATE	.0016J	(.0025J)	.089	.00097	.00084
METHOXYCHLOR	.012J	(ND)	.14	.00055	.00048
TOXAPHENE	(ND)	ND	1.7	.003	.0051

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
TETRACHLORO-M-XYLENE	(116)	193*	35-135
DECACHLOROBIPHENYL	(101)	94	25-143

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

SW3550B/8082
PCBs

Client : IT CORPORATION	Date Collected: 03/14/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 03/14/00
Lab No. : 00C127	Date Extracted: 03/15/00 22:00
Sample ID: 18609-2858	Date Analyzed: 03/17/00 02:04
Lab Samp ID: C127-05	Dilution Factor: 1
Lab File ID: WC15117A	Matrix : SOIL
Ext Btch ID: CPC033S	% Moisture : 18.9
Calib. Ref.: WC15100A	Instrument ID : GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.86	.010|.0088
PCB-1221	(ND)|ND	.86	.041|.046
PCB-1232	(ND)|ND	.86	.017|.016
PCB-1242	(ND)|ND	.86	.034|.039
PCB-1248	(ND)|ND	.86	.043|.048
PCB-1254	(ND)|ND	.86	.007|.0074
PCB-1260	(.22J)|.21J	.86	.0077|.011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(88)|181*	35-135
DECACHLOROBIPHENYL	(94)|90	25-143

PQL: Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
* Included the reported column
Outside side of QC Limit

SW3550A/8081
PESTICIDES/PCBS

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/15/00
Batch No.	: 00C127	Date Extracted:	03/15/00 22:00
Sample ID:	MBLK1S	Date Analyzed:	03/16/00 19:17
Lab Samp ID:	CPC033SB	Dilution Factor:	1
Lab File ID:	WC15101A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	NA
Calib. Ref.:	WC15097A	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

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(94)|89	35-135
DECACHLOROBIPHENYL	(88)|81	25-143

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

SW3550B/8082
PCBs

Client	: IT CORPORATION	Date Collected:	NA
ect	: MCAS EL TORO/18609/D.O. 70	Date Received:	03/15/00
No.	: 00C127	Date Extracted:	03/15/00 22:00
Sample ID:	MBLK1S	Date Analyzed:	03/16/00 19:17
Lab Samp ID:	CPC033SB	Dilution Factor:	1
Lab File ID:	WC15101A	Matrix :	SOIL
Ext Btch ID:	CPC033S	% Moisture :	NA
Calib. Ref.:	WC15100A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
PCB-1016	(ND)|ND	.7	.0081|.0072
PCB-1221	(ND)|ND	.7	.033|.037
PCB-1232	(ND)|ND	.7	.014|.013
PCB-1242	(ND)|ND	.7	.027|.032
PCB-1248	(ND)|ND	.7	.035|.039
PCB-1254	(ND)|ND	.7	.0057|.006
PCB-1260	(ND)|ND	.7	.0062|.0089

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(94)|89	35-135
DECACHLOROBIPHENYL	(88)|81	25-143

PQL: Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
ncluded the reported column
t side of QC Limit

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00C127
METHOD: SW3550A/8081

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPC033SB CPC033SL
LAB FILE ID: WC15101A WC15102A
DATE EXTRACTED: 03/15/0022:00 03/15/0022:00 DATE COLLECTED: NA
DATE ANALYZED: 03/16/0019:17 03/16/0019:42 DATE RECEIVED: 03/15/00
PREP. BATCH: CPC033S CPC033S
CALIB. REF: WC15097A WC15097A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
gamma-BHC (Lindane)	(ND)|ND	.00667	(.00645J)|.00614J	(97)|92	33-130
Heptachlor	(ND)|ND	.00667	(.00608J)|.00556J	(91)|83	35-138
Aldrin	(ND)|ND	.00667	.00653J|(.00685J)	98|(103)	37-126
Dieldrin	(ND)|ND	.0133	(.0125J)|.0121J	(94)|91	32-142
Endrin	(ND)|ND	.0133	(.0132J)|.0128J	(99)|96	33-144
4,4'-DDT	(ND)|ND	.0133	(.0079)|.00782	(59)|59	25-153

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Tetrachloro-m-xylene	.0133	(.0127)|.012	(95)|90	35-133
Decachlorobiphenyl	.0133	(.012)|.0112	(90)|84	25-143

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00C127
METHOD: SW3550B/8082

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPC033SB CPC034SL
LAB FILE ID: WC15101A WC15103A
DATE EXTRACTED: 03/15/0022:00 03/15/0022:00 DATE COLLECTED: NA
DATE ANALYZED: 03/16/0019:17 03/16/0020:08 DATE RECEIVED: 03/15/00
PREP. BATCH: CPC033S CPC033S
CALIB. REF: WC15100A WC15100A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
PCB-1016	(ND)|ND	.167	.141J|(.15J)	85|(90)	50-150
PCB-1260	(ND)|ND	.167	(.152J)|.147J	(91)|88	50-150

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Decachloro-m-xylene	.0133	(.0127)|.0121	(96)|91	35-133
Decachlorobiphenyl	.0133	(.0123)|.0112	(92)|84	25-143

Appendix G
Data Validation Report

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: February 15, 2000

LDC Report Date: April 17, 2000

Matrix: Soil

Parameters: Chlorinated Pesticides

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00B082

Sample Identification

18609-2812
18609-2812DL
18609-2813
18609-2813DL
18609-2814
18609-2815

Introduction

This data review covers 6 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.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) 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 with the following exceptions:

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 with the following exceptions:

Date	Standard	Channel	Compound	%D	Associated Samples	Flag	A or P
2/22/00	WB18030B	B	gamma-Chlordane	17	18609-2812DL 18609-2813DL	J (all detects) UJ (all non-detects)	A
			Endosulfan sulfate	18		J (all detects) UJ (all non-detects)	

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 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

All compound quantitation and CRQLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
18609-2812 18609-2813	4,4'-DDT	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A

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 - Data Qualification Summary - SDG 00B082

SDG	Sample	Compound	Flag	A or P	Reason
00B082	18609-2812DL 18609-2813DL	gamma-Chlordane Endosulfan sulfate	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
00B082	18609-2812 18609-2813	4,4'-DDT	J (all detects)	A	Compound quantitation and CRQLs

MCAS El Toro
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 00B082

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: February 15, 2000

LDC Report Date: April 17, 2000

Matrix: Soil

Parameters: Polychlorinated Biphenyls

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00B082

Sample Identification

18609-2812
18609-2813
18609-2814
18609-2815

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 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) 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 multicomponent compounds was performed for the primary (quantitation) column as required by the 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.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl 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
Polychlorinated Biphenyls - Data Qualification Summary - SDG 00B082

No Sample Data Qualified in this SDG

MCAS El Toro
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG 00B082

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: February 15, 2000

LDC Report Date: April 19, 2000

Matrix: Soil

Parameters: Metals

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00B082

Sample Identification

18609-2812
18609-2814

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 and continuing (ICB/CCBs) was based on the maximum contaminant concentration in the ICB/CCBs in the analysis of each analyte. No contaminant concentrations were found above the reporting limit in the initial and continuing blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Barium	0.450 ug/L	All samples in SDG 00B082
	Beryllium	0.410 ug/L	
	Chromium	6.43 ug/L	
	Lead	0.962 ug/L	
	Potassium	1091 ug/L	
	Selenium	4.53 ug/L	
	Silver	9.71 ug/L	
	Thallium	4.24 ug/L	
	Molybdenum	11.4 ug/L	

Sample concentrations were compared to the maximum contaminant concentrations detected in the ICB/CCBs. 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 (MS) 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 (DUP) analyses specified for the samples in this SDG, and therefore duplicate 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 00B082

No Sample Data Qualified in this SDG

MCAS El Toro
Metals - Laboratory Blank Data Qualification Summary - SDG 00B082

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: February 16, 2000

LDC Report Date: April 17, 2000

Matrix: Soil

Parameters: Chlorinated Pesticides

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00B093

Sample Identification

18609-2816
18609-2817
18609-2817DL
18609-2818
18609-2818DL
18609-2819
18609-2819DL

Introduction

This data review covers 7 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.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) 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 with the following exceptions:

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 with the following exceptions:

Date	Standard	Channel	Compound	%D	Associated Samples	Flag	A or P
2/22/00	WB18030B	B	gamma-Chlordane	17	18609-2817DL 18609-2818DL	J (all detects) UJ (all non-detects)	A
			Endosulfan sulfate	18	18609-2819DL	J (all detects) UJ (all non-detects)	

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 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

All compound quantitation and CRQLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
18609-2817 18609-2818 18609-2819	4,4'-DDT	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A

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 - Data Qualification Summary - SDG 00B093

SDG	Sample	Compound	Flag	A or P	Reason
00B093	18609-2817DL 18609-2818DL 18609-2819DL	gamma-Chlordane Endosulfan sulfate	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
00B093	18609-2817 18609-2818 18609-2819	4,4'-DDT	J (all detects)	A	Compound quantitation and CRQLs

MCAS El Toro
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 00B093

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: February 16, 2000

LDC Report Date: April 17, 2000

Matrix: Soil

Parameters: Polychlorinated Biphenyls

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00B093

Sample Identification

18609-2816
18609-2817
18609-2818
18609-2818DL
18609-2819

Introduction

This data review covers 5 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) 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 multicomponent compounds was performed for the primary (quantitation) column as required by the 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.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl 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

All compound quantitation and CRQLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
18609-2818	PCB-1260	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A

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
Polychlorinated Biphenyls - Data Qualification Summary - SDG 00B093

SDG	Sample	Compound	Flag	A or P	Reason
00B093	18609-2818	PCB-1260	J (all detects)	A	Compound quantitation and CRQLs

MCAS El Toro
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG 00B093

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: February 16, 2000

LDC Report Date: April 19, 2000

Matrix: Soil

Parameters: Metals

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00B093

Sample Identification

18609-2816
18609-2818
18609-2816MS
18609-2816MSD

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 Methods 6010 and 7000 for Metals. The metals analyzed were Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, 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 and continuing (ICB/CCBs) was based on the maximum contaminant concentration in the ICB/CCBs in the analysis of each analyte. No contaminant concentrations were found above the reporting limit in the initial and continuing blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Barium	0.450 ug/L	All samples in SDG 00B082
	Beryllium	0.410 ug/L	
	Chromium	6.43 ug/L	
	Lead	0.962 ug/L	
	Selenium	4.53 ug/L	
	Silver	9.71 ug/L	
	Thallium	4.24 ug/L	
	Molybdenum	11.4 ug/L	

Sample concentrations were compared to the maximum contaminant concentrations detected in the ICB/CCBs. 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

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.

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)

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 00B093

No Sample Data Qualified in this SDG

MCAS El Toro
Metals - Laboratory Blank Data Qualification Summary - SDG 00B093

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: February 28, 2000

LDC Report Date: April 17, 2000

Matrix: Soil

Parameters: Chlorinated Pesticides

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00B170

Sample Identification

18609-2821
18609-2823
18609-2824**
18609-2826
18609-2828
18609-2830

**Indicates sample underwent NFESC Level D review.

Introduction

This data review covers 6 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.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) 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	Channel	Compound	%D	Associated Samples	Flag	A or P
3/2/00	WB28057B	B	4,4'-DDT	23	18609-2821 18609-2823	J (all detects) UJ (all non-detects)	A
			Methoxychlor	19	CPB038SB(BLK)	J (all detects) UJ (all non-detects)	

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 15.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide 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 with the following exceptions:

Sample	Channel	Compound	RT (Limits)	Flag	A or P
18609-2824**	A	4,4'-DDT	9.925 (9.954-10.080)	N (all detects)	P

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 18609-2823 and 18609-2824** were identified as field duplicates. No chlorinated pesticides were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD
	18609-2823	18609-2824**	
Dieldrin	0.0016	0.002	22
4,4'-DDT	0.013	0.011	17
Endrin aldehyde	0.0014	0.00096	37

XV. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Chlorinated Pesticides - Data Qualification Summary - SDG 00B170

SDG	Sample	Compound	Flag	A or P	Reason
00B170	18609-2821 18609-2823	4,4'-DDT Methoxychlor	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
00B170	18609-2824**	4,4'-DDT	N (all detects)	P	Target compound identification (RT)

MCAS El Toro
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 00B170

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: February 28, 2000

LDC Report Date: April 17, 2000

Matrix: Soil

Parameters: Polychlorinated Biphenyls

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00B170

Sample Identification

18609-2821
18609-2823
18609-2824**
18609-2826
18609-2828
18609-2830

**Indicates sample underwent NFESC Level D review.

Introduction

This data review covers 6 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) 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 multicomponent compounds was performed for the primary (quantitation) column as required by the 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.

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.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl 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 18609-2823 and 18609-2824** were identified as field duplicates. No polychlorinated biphenyls were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD
	18609-2823	18609-2824**	
PCB-1260	0.03	0.026	14

XV. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Polychlorinated Biphenyls - Data Qualification Summary - SDG 00B170

No Sample Data Qualified in this SDG

MCAS El Toro
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG 00B170

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: February 28, 2000

LDC Report Date: April 17, 2000

Matrix: Soil

Parameters: Chlorinated Pesticides

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00B170A

Sample Identification

18609-2825
18609-2827

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.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) 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 with the following exceptions:

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 with the following exceptions:

Date	Standard	Channel	Compound	%D	Associated Samples	Flag	A or P
3/8/00	WB28214A	A	Endrin ketone	15.49	All samples in SDG 00B170A	J (all detects) UJ (all non-detects)	A

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 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 - Data Qualification Summary - SDG 00B170A

SDG	Sample	Compound	Flag	A or P	Reason
00B170A	18609-2825 18609-2827	Endrin ketone	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)

MCAS El Toro
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 00B170A

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: February 28, 2000

LDC Report Date: April 17, 2000

Matrix: Soil

Parameters: Polychlorinated Biphenyls

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00B170A

Sample Identification

18609-2825
18609-2827

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 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) 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 multicomponent compounds was performed for the primary (quantitation) column as required by the 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.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl 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
Polychlorinated Biphenyls - Data Qualification Summary - SDG 00B170A

No Sample Data Qualified in this SDG

MCAS El Toro
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG 00B170A

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: February 29, 2000

LDC Report Date: May 11, 2000

Matrix: Soil/Water

Parameters: Chlorinated Pesticides & PCBs

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00B180

Sample Identification

18609-2832
18609-2834
18609-2836
18609-2837**
18609-2839
18609-2841

**Indicates sample underwent NFESC Level D review.

Introduction

This data review covers 5 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 (October 1999) 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.

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 with the following exceptions:

Sample	Column	Compound	RT (Limits)	Flag	A or P
18609-2837**	Channel A	4,4'-DDT	9.917 (9.954-10.08)	N (all detects)	P

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 18609-2836 and 18609-2837** 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
	18609-2836	18609-2837**	
PCB-1260	0.84U	0.051	200
Dieldrin	0.042U	0.0041	200
4,4'-DDT	0.0036U	0.015	200
Endrin aldehyde	0.019U	0.003	200
alpha-BHC	0.001	0.0023U	200

XV. Field Blanks

Sample 18609-2841 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 00B180

SDG	Sample	Compound	Flag	A or P	Reason
00B180	18609-2837**	4,4'-DDT	N (all detects)	P	Target compound identification (RT)

MCAS El Toro
Chlorinated Pesticides & PCBs - Laboratory Blank Data Qualification Summary - SDG 00B180

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: March 13 through March 14, 2000

LDC Report Date: April 26, 2000

Matrix: Soil

Parameters: Chlorinated Pesticides

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00C123

Sample Identification

18909-2845
18909-2846
18909-2847
18909-2848
18909-2849
18909-2850
18909-2850DL
18909-2851
18909-2852
18909-2853
18909-2853RE
18909-2845MS

Introduction

This data review covers 12 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8081 for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) 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 with the following exceptions:

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 with the following exceptions:

Date	Standard	Channel	Compound	%D	Associated Samples	Flag	A or P
3/16/00	WC15098B	RTX-CLPestII	4,4'-DDD 4,4'-DDT Methoxychlor	19 18 20	18909-2845 18909-2846 18909-2847 18909-2849 18909-2851 18909-2852 18909-2845MS CPC033SB(BLK)	J (all detects) UJ (all non-detects)	A
3/17/00	WC15121A	RTX-CLPest	Methoxychlor	18	18909-2848	J (all detects) UJ (all non-detects)	A

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 contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. Surrogate recoveries (%R) were not within QC limits for samples 18909-2850 and 18909-2850DL. Since these samples were diluted out, no data were qualified.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

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. 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

All compound quantitation and CRQLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
18909-2850	4,4'-DDT	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A

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 - Data Qualification Summary - SDG 00C123

SDG	Sample	Compound	Flag	A or P	Reason
00C123	18909-2845 18909-2846 18909-2847 18909-2849 18909-2851 18909-2852	4,4'-DDD 4,4'-DDT Methoxychlor	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
00C123	18909-2848	Methoxychlor	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
00C123	18909-2850	4,4'-DDT	J (all detects)	A	Compound quantitation and CRQLs

MCAS El Toro
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 00C123

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: March 13 through March 14, 2000

LDC Report Date: April 24, 2000

Matrix: Soil

Parameters: Polychlorinated Biphenyls

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00C123

Sample Identification

18909-2845
18909-2846
18909-2847
18909-2848
18909-2849
18909-2850
18909-2851
18909-2852
18909-2853
18909-2846MS
18909-2846MSD

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 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) 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 multicomponent compounds was performed for the primary (quantitation) column as required by the 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.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl 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) 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
Polychlorinated Biphenyls - Data Qualification Summary - SDG 00C123

No Sample Data Qualified in this SDG

MCAS El Toro
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG 00C123

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: March 14, 2000

LDC Report Date: April 25, 2000

Matrix: Soil

Parameters: Chlorinated Pesticides

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00C127

Sample Identification

18609-2854
18609-2855**
18609-2856
18609-2857
18609-2858
18609-2858DL

**Indicates sample underwent NFESC Level D review.

Introduction

This data review covers 6 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.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) 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
3/16/00	WC15098B	RTX-CLPestII	4,4'-DDD 4,4'-DDT Methoxychlor	19 18 20	18609-2856 18609-2857 CPC033SB(BLK)	J (all detects) UJ (all non-detects)	A
3/17/00	WC15143A	RTX-CLPest	Endosulfan sulfate Methoxychlor	16 28	18609-2854 18609-2855** 	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A
3/17/00	WC15143B	RTX-CLPestII	Methoxychlor	21	18609-2854 18609-2855**	J (all detects) UJ (all non-detects)	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 15.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide 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) 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 with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
18609-2858	4,4'-DDT	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A

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

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Chlorinated Pesticides - Data Qualification Summary - SDG 00C127

SDG	Sample	Compound	Flag	A or P	Reason
00C127	18609-2856 18609-2857	4,4'-DDD 4,4'-DDT Methoxychlor	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
00C127	18609-2854 18609-2855**	Endosulfan sulfate Methoxychlor	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
00C127	18609-2858	4,4'-DDT	J (all detects)	A	Compound quantitation and CRQLs

MCAS El Toro
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 00C127

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: March 14, 2000

LDC Report Date: April 26, 2000

Matrix: Soil

Parameters: Polychlorinated Biphenyls

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00C127

Sample Identification

18609-2854
18609-2855**
18609-2856
18609-2857
18609-2858

**Indicates sample underwent NFESC Level D review.

Introduction

This data review covers 5 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) 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 multicomponent compounds was performed for the primary (quantitation) column as required by the 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.

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.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl 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) 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

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Polychlorinated Biphenyls - Data Qualification Summary - SDG 00C127

No Sample Data Qualified in this SDG

MCAS El Toro
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG 00C127

No Sample Data Qualified in this SDG