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MCAS EL TORO
SSIC #5090.3

OHM Remediation Services Corp.
1202 Kettner Boulevard
San Diego, California 92101

Former Firefighter Training Burn Pit MSC B2
Marine Corps Air Station
El Toro, California

SWDIV Contract No. N68711-93-D-1459 – Delivery Order No. 0112 – Revision 0
OHM Project No. 20242 – Document Control No. SW7184 – December 29, 1999

Site Assessment Report

Appendix A - Tentative Reuse Parcel Location of MSC B2; Appendix B - Excerpts From EBS;
Appendix C - Excerpts From Draft Final Phase II Remedial Investigation Report; Appendix D - Site Inspection Log;
Appendix E - Geophysical Survey Data; Appendix F - Field Soil Boring Logs;
Appendix G - Laboratory Analytical Reports; Appendix H - Land Survey Data

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OHM Remediation Services Corp.
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OHM TRANSMITTAL/DELIVERABLE RECEIPT

CONTRACT N68711-93-D-1459 **DOCUMENT CONTROL NO: SW7184**

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Southwest Division
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San Diego, California 92132-5190

Date: 03-Jan-00

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Location: MCAS EL TORO

FROM: Stewart Bornhoft, Program Manager

Edwin G. Bond, Contracts Manager

DESCRIPTION OF ENCLOSURE: **Site Assessment Report, Former Firefighter Training Burn Pit MSC B2, dated December 29, 1999**

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Acronyms and Abbreviations

bgs	below ground surface
BRAC	Base Realignment and Closure Act
BTEX	benzene, toluene, ethylbenzene and total xylenes
CA LUFT	California Leaking Underground Fuel Tank
CDM	Camp, Dresser & McKee, Inc.
DCN	Document Control Number
DO	Delivery Order
EPA	U.S. Environmental Protection Agency
ft	foot
ft/ft	feet per foot
gpm	gallons per minute
GPR	ground penetrating radar
JEG	Jacobs Engineering Group Inc.
MCAS	Marine Corps Air Station
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
msl	mean sea level
MTBE	methyl tert-butyl ether
OHM	OHM Remediation Services Corp.
OWS	oil / water separator
PRG	preliminary remediation goals, USEPA Region 9
ROICC	Resident Officer In Charge of Construction
Station	Marine Corps Air Station El Toro
SWDIV	Southwest Division Naval Facilities Engineering Command
TPH	total petroleum hydrocarbons
UST	underground storage tank
VOC	volatile organic compound
µg/kg	micrograms per kilogram
µg/L	micrograms per liter

Section 1
Introduction

This report describes the site verification activities at the Former Burn Pit, Miscellaneous Site of Concern (MSC) B2, at the Marine Corps Air Station El Toro, California (herein after referred to as the Station). OHM Remediation Services Corp. (OHM) performed the work under Delivery Order (DO) 0112 for the Southwest Division Naval Facilities Engineering Command (SWDIV) under Remedial Action Contract No. N68711-93-D-1459.

Former Burn Pit MSC B2 is being addressed under the Station's Petroleum Corrective Action Program, as summarized in SWDIV memorandum dated August 1998 (SWDIV, 1998). As a result, OHM conducted verification drilling and sampling activities in the vicinity of the former fire fighting training burn pit, MSC B2, to evaluate the subsurface conditions and to ascertain whether or not a release had occurred into the vadose zone. Analytical results from the verification drilling activities did not indicate that a significant release had occurred from MSC B2. As a result, no further action status is recommended for MSC B2.

The Station is located in Orange County, California, approximately 45 miles southeast of the City of Los Angeles, and 1 mile north of the intersection of Interstate 5 (Santa Ana Freeway) and Interstate 405 (San Diego Freeway). The City of Lake Forest is less than 2 miles southeast, and East Irvine is approximately 1 mile to the northwest. The Station covers approximately 4,700 acres. The location of the Station is shown on Figure 1-1, Facility Location Map.

The Station officially closed on July 2, 1999 in accordance with the Base Closure and Realignment Act of 1993 (BRAC III). According to the El Toro Community Reuse Plan (County of Orange, 1997), MSC B2 is located within the tentatively identified Airfield area. The County of Orange issued the Preferred Land Use Plan (also known as Concept B) in September 1999; and that plan also identified the MSC B2 location within the Airfield area. The El Toro Community Reuse Plan working maps are provided in Appendix A, Tentative Reuse Parcel Location of MSC B2.

1.1 Site Description and Background

The MSC B2 is located in the Northwest quadrant of the Station, northwest of the Bee Canyon Wash, and southeast of Marshburn Channel. The former burn pit, identified as structure 850, is located northwest of the intersection of the north-south and east-west runways, as shown on Figure 1-2, Location Map.

OHM reviewed available background documents, including the Base Realignment and Closure (BRAC) Cleanup Plan (SWDIV, 1999), the Final Environmental Baseline Survey Report (Jacobs Engineering Group, 1995), and IRP Site 16 Remedial Investigation (RI) Report (BNI, 1997). The BRAC Cleanup Plan listed MSC B2 as an inactive burn pit

adjacent to IRP Site 16. MSC B2 is located adjacent to former burn pit MSC B1 and Installation Program (IRP) Site 16 - Crash Crew Pit Number 2.

The MSC B2 is a concrete basin that was constructed in 1988 and designed to contain burning petroleum hydrocarbon liquids (jet fuel – JP5) during fire fighting training. Former Burn Pit MSC B2 was reportedly used only once in 1988, when it was discovered that the concrete structure had deteriorated during the burning because an improper type of concrete type was used in its construction (Jacobs, 1995). No significant cracks were observed in the floor of the pit; however, use of the concrete lined burn pit was discontinued. Excerpts from the Final Environmental Baseline Survey (EBS) Report (JEG, 1995) are enclosed as Appendix B.

1.2 IRP Site 16 Remedial Investigation

The Former Burn Pit MSC B2 is located on the southeast side of the IRP Site 16. Because of the close proximity of the IRP Site 16 to MSC B2, review of the information collected during the RI at IRP Site 16 is pertinent to this evaluation. Excerpts from the Draft Final Phase II Remedial Investigation Report , OU-3A sites, Marine Corps Air Station El Toro, California (BNI, 1997) are included in Appendix C.

The IRP site 16 was composed of three units: Unit 1 - three unlined earthen pits and a buffer zone, Unit 2 - the main pit, and Unit 3 - a low drainage swale northwest of the unlined pits. The Remedial Investigation (RI) was conducted in two phases collecting soil samples and groundwater samples. Soil samples were analyzed for the presence of petroleum hydrocarbons, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides and herbicides, dioxins, phosphorus, and metals, reflecting the constituents burned during firefighting training. Groundwater samples were analyzed for petroleum hydrocarbons, VOCs, SVOCs, pesticides, cyanide, metals, and general chemistry.

The IRP Site 16 RI identified chlorinated solvents in the vadose zone and groundwater, and metals concentrations above background levels in the vadose zone. The RI concluded that the metals in the shallow soils in concentrations above background levels do not appear to pose an unacceptable risk to a potential on-site resident. The residual contamination in the vadose zone and the groundwater at IRP Site 16 will continue to be managed under the Installation Restoration Program.

Section 2
Environmental Setting

This section summarizes the general physiographic, geologic, and hydrogeologic setting in the vicinity of MSC B2.

2.1 Physiography and Topography

The Station is located on the southeastern edge of the Tustin Plain and extends into the Santa Ana Mountains. The Tustin Plain slopes gently toward the west-southwest with land surface elevations ranging from approximately 215 feet above mean sea level (msl) at the western corner to approximately 410 feet msl at the eastern edge of the Station. Elevations within the portion of the Station in the Santa Ana Mountains extend upward to 800 feet msl near the northeast corner of the Station. The topography in the area of MSC B2 is relatively flat, with an elevation approximately 330 feet above msl datum.

2.2 Geology

The Station is situated on alluvial materials derived mainly from the Santa Ana Mountains. These Holocene materials consist of coarse-grained stream channel deposits and fine-grained overbank deposits that are up to 300 feet thick (Herndon and Reilly, 1989).

The Holocene alluvial materials conformably overlie Pleistocene sediments predominantly composed of interlayered fine-grained lagoonal and near-shore marine deposits. These materials become increasingly mixed with beach sands, terrace deposits, and stream channel deposits in the eastern portion of the Tustin Plain and along the eastern plain edges. The Quaternary deposits form a heterogeneous mixture of silts and clays, with interbedded sands and fine gravels up to 500 feet thick in the western portion of the Tustin Plain (Singer, 1973).

2.3 Hydrogeology

The Station is situated within the Irvine Groundwater Subbasin. The Irvine Subbasin is located within the southeast segment of the Main Orange County Groundwater Basin. Regional groundwater flow in the Subbasin has been to the west and northwest since the 1940s and is controlled locally by large groundwater withdrawal depressions. From 1969 to 1982, an average gradient of 0.0046 feet per foot (ft/ft) to the northwest was reported in the principal aquifer zone of the Irvine area (Banks, 1984). Phase I remedial investigation data indicated a similar groundwater flow direction in the shallower groundwater zone, with a slightly higher gradient of 0.008 ft/ft (JEG, 1993).

The depth to groundwater beneath the Station ranges from approximately 45 feet below ground surface (bgs) in the foothills to 240 feet bgs in the deepest portion of the Irvine Subbasin. The depth to groundwater in the vicinity of MSC B2 is estimated to be

approximately 169 feet bgs, based on available water-level data from nearby Phase I wells 16_DBMW52, 16_UGMW33 and 16_DGMW81. These data are presented in the Groundwater Monitoring Report (Camp Dresser & McKee, Inc. [CDM] Federal Programs, 1997), and summarized in Table 2-1. The well locations are shown in Figure 1-2.

Analyses of groundwater samples collected from the Phase I wells did not indicate the presence of TPH as JP-5 or of the volatile organic compounds (VOCs) benzene, toluene, ethylbenzene, or total xylenes (BTEX). Trace amounts of Freon, not associated with MSC B2, were detected in the groundwater samples collected from monitoring well 16_DBMW52 (CDM, 1997).

Section 3
Field Activities

OHM performed field activities at MSC B2 to assess whether a possible petroleum hydrocarbon release had occurred from use of the former burn pit. Field activities included a site inspection; a geophysical survey; collection and analyses of soil samples from four verification soil borings; and a land survey.

Fieldwork was performed in accordance with the following approved Preliminary Draft DO 0024 documents: Work Plan, Contractor Quality Control Plan Addendum, Waste Management Plan, Chemical Data Acquisition Plan (OHM, 1995a), and Site-Specific Health and Safety Plan (OHM, 1995b).

3.1 Site Inspection

OHM personnel conducted a site inspection on May 18, 1999 to prepare for the field sampling activities at MSC B2 using as-built drawings. Based on the existing landmarks, OHM proposed the location of the soil borings in the vicinity of the former burn pit. A copy of the Site Inspection Log is included in Appendix D, Site Inspection Log.

3.2 Utility Clearance and Geophysical Survey

The utility clearance consisted of reviewing site-specific utility maps obtained from the Station, reviewing the site inspection log, performing a geophysical survey of the site, and notifying Underground Service Alert of the intent to drill.

On May 18, 1999, Spectrum-Gasch Geophysical conducted a geophysical survey of the MSC B2 vicinity using a utility locator and ground-penetrating radar (GPR), to locate the presence of underground utilities in the vicinity of proposed drilling areas. The results of the analog utility locator and GPR surveys indicated the presence of electrical lines and sewer lines. A copy of the geophysical survey data is included in Appendix E, Geophysical Survey Data.

3.3 Verification Drilling Activities

On May 26, 27, and 28, 1999, OHM advanced four soil borings in the vicinity of the MSC B2 (MSC B2 SB-01, SB-03, and SB-04 to a depth of 100 feet bgs and MSC B2 SB-02 to a depth of 50 feet bgs). Boring SB-02 was abridged at approximately 50 feet depth because sampling equipment was lost in the borehole, forcing abandonment. These boring locations were selected based on a review of as-built drawings and the geophysical survey. The soil boring locations are shown on Figure 3-1, Site Plan.

Drilling and Sampling Techniques

BC^2 Environmental Corporation (an OHM subcontractor) advanced these borings with a CME 75 drilling rig using hollow-stem auger techniques. The drilling rig was decontaminated with a pressure washer between each boring. A total of 17 soil samples (including two duplicate samples) were collected from four soil borings using a California-modified split-spoon sampler. The sampling equipment was decontaminated between each boring and between each sample interval. Samples were collected at nominal depth intervals approximately 15, 20, 50, and 100 feet bgs, except in the case of boring SB02 where samples were collected at 15, 20, and 50 feet bgs. Selected soil samples collected from the borings were submitted for laboratory analyses. Following the completion of sampling activities, the soil borings were backfilled with cement-bentonite grout to the surface.

The field boring logs, describing soils underlying the site and indicating soil sample collection intervals, are presented in Appendix F, Field Soil Boring Logs. These boring logs indicate that the subsurface soil in the vicinity of the MSC B2 is predominantly composed of interbedded poorly graded sand, silty sand, and silt.

Sample Tracking and Analytical Methods

Sample handling, documentation, and packaging, was conducted in accordance with the procedures described in the approved Draft Work Plan (OHM, 1995a). The soil samples were analyzed for:

- Total petroleum hydrocarbons (TPH) as JP-5 using California Leaking Underground Fuel Tank (CA LUFT) Manual Method 8015 modified;
- Metals by U.S. Environmental Protection Agency (USEPA) Method 6010A;
- Mercury by USEPA Method 7470A; and for
- Volatile organic compounds (VOCs), including methyl tert-butyl ether (MTBE), using USEPA Method 8260A.

TPH as JP5 was detected in trace quantities, with a maximum estimated concentration of 11 "J" mg/kg (sample number 20242-828) at 21 feet depth. VOC analytes (including MTBE) were not detected at or above laboratory reporting limits in any of the soil samples from borings MSC B2 SB-01 through SB-04. With the exception of arsenic, TAL metal analytes were detected at concentrations below the current USEPA Region 9 Preliminary Remediation Goals (PRG); mercury was not detected in concentrations at or above the laboratory reporting limits in any of the soil samples. Arsenic, typically found in soil at the Station, was detected in maximum concentration of 4.7 mg/kg, which is greater than the residential PRG (0.93 mg/kg), but less than background (6.86 mg/kg) (BNI, 1997).

These results do not indicate the presence of a release from the former burn pit (MSC-B2) to the vadose zone. The analytical results of the soil samples collected from the verification borings, the background concentrations and PRGs are presented in Table 3-1 and summarized in Figure 3-1. Laboratory analytical reports are provided in Appendix G, Laboratory Analytical Reports.

Disposal of Soil Cuttings

Soil cuttings generated during drilling operations were drummed, labeled, and stored at the Station's Central Treatment Facility (CTF) compound, operated by OHM, pending analytical results. Analyses of the boring samples indicated that the soils were non-hazardous. The drummed soils were placed in the clean soil stockpile at the CTF.

3.4 Land Surveying

After completing the verification drilling, the soil boring locations were surveyed on June 1, 1999 by Cal Vada Surveying, Inc., a California-registered land surveyor. The surveyed locations were measured to ± 0.01 foot per foot horizontally and tied to the California State Plane Coordinate Systems, North American Datum 1983. The surveyed elevations were measured to ±0.01 feet vertically and tied to mean sea level datum. The surveyed plan for the former MSC B2 is presented as Appendix H, Land Survey Plan.

Section 4
Conclusions and Recommendations

The following observations and conclusions are based upon information from surveys, existing records, and soil sampling data from verification soil borings:

- MSC B2 was reportedly used only once in 1988 (JEG, 1995). Use of this burn pit was discontinued following the discovery of damage to the concrete structure. As a result, only a small volume of fuel, as a source material, was present at this site.
- The depth to groundwater is estimated to be approximately 169 feet bgs based on historical data from nearby Phase I monitoring wells 16_DBMW52, 16_UGMW33, and 16_DGMW81.
- Analysis of groundwater from the Phase I groundwater monitoring wells 16_DBMW52, 16_UGMW33, and 16_DGMW81 did not indicate the presence of BTEX constituents.
- MSC B2 site was evaluated by OHM for a potential release of petroleum hydrocarbons. Four verification soil borings were advanced at the site, and 17 soil samples were collected. The maximum TPH-JP5 concentration was 11 mg/kg "J" (qualified as an estimated value) at boring MSC B2 SB02. VOC analytes, including BTEX and MTBE, were not detected in concentrations equal to or greater than the stated reporting limits in any of the soil samples.
- MSC B2 soils were also evaluated for the presence of metals, including mercury. Except for arsenic, all metals concentrations were below the current Residential PRGs, and arsenic was below the background concentration.

Based on the information provided by the site verification activities, the residual levels of petroleum hydrocarbons and metals do not appear to pose a significant threat to human health or the environment. Therefore, on behalf of the Station, OHM recommends that this report be submitted to the California Regional Water Quality Control Board, Santa Ana Region, and that "No Further Action" status be requested for MSC B2.

Section 5
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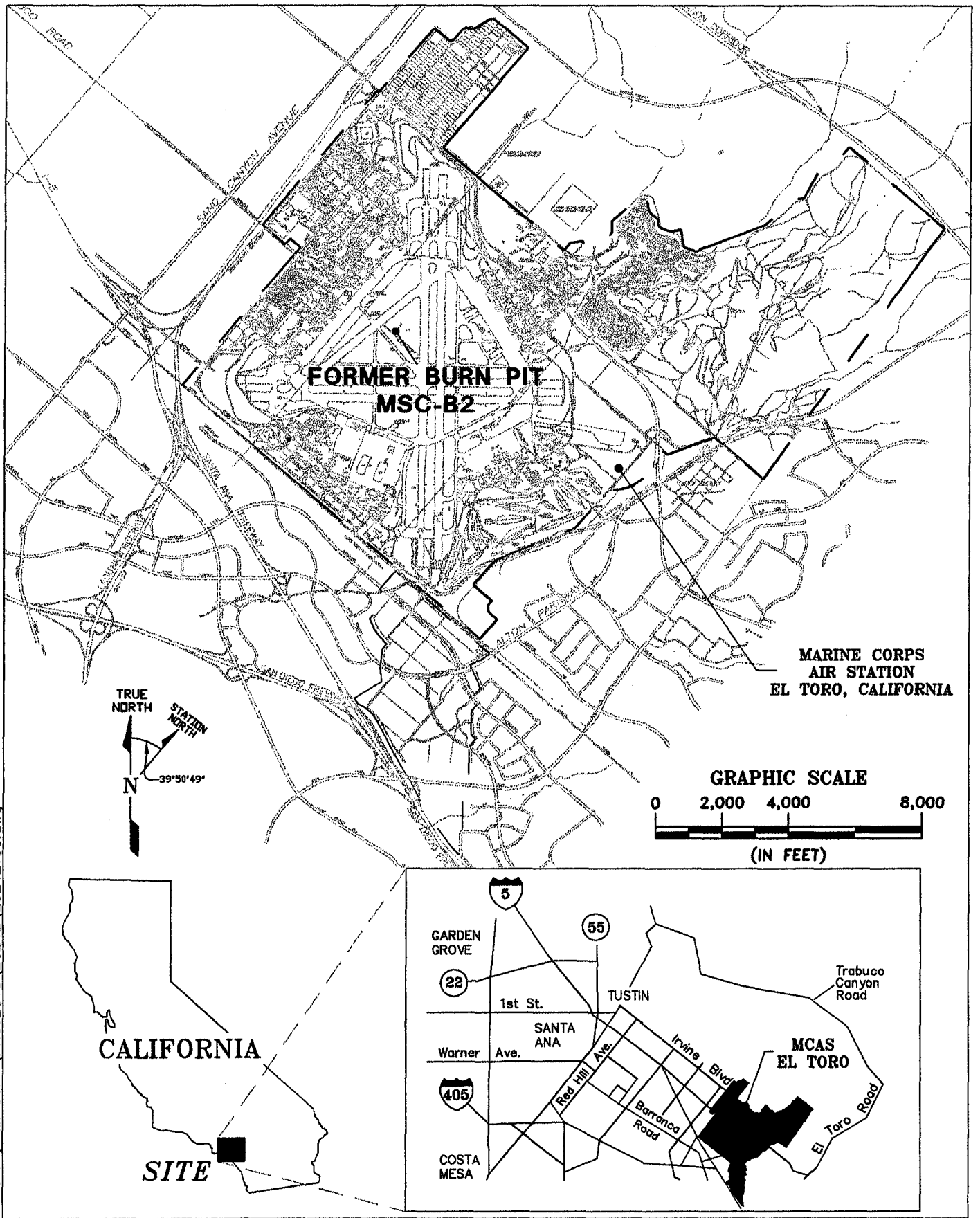
Figures



OHM Remediation Services Corp.
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SAN DIEGO, CA

CONTRACT NAME: SWDIV

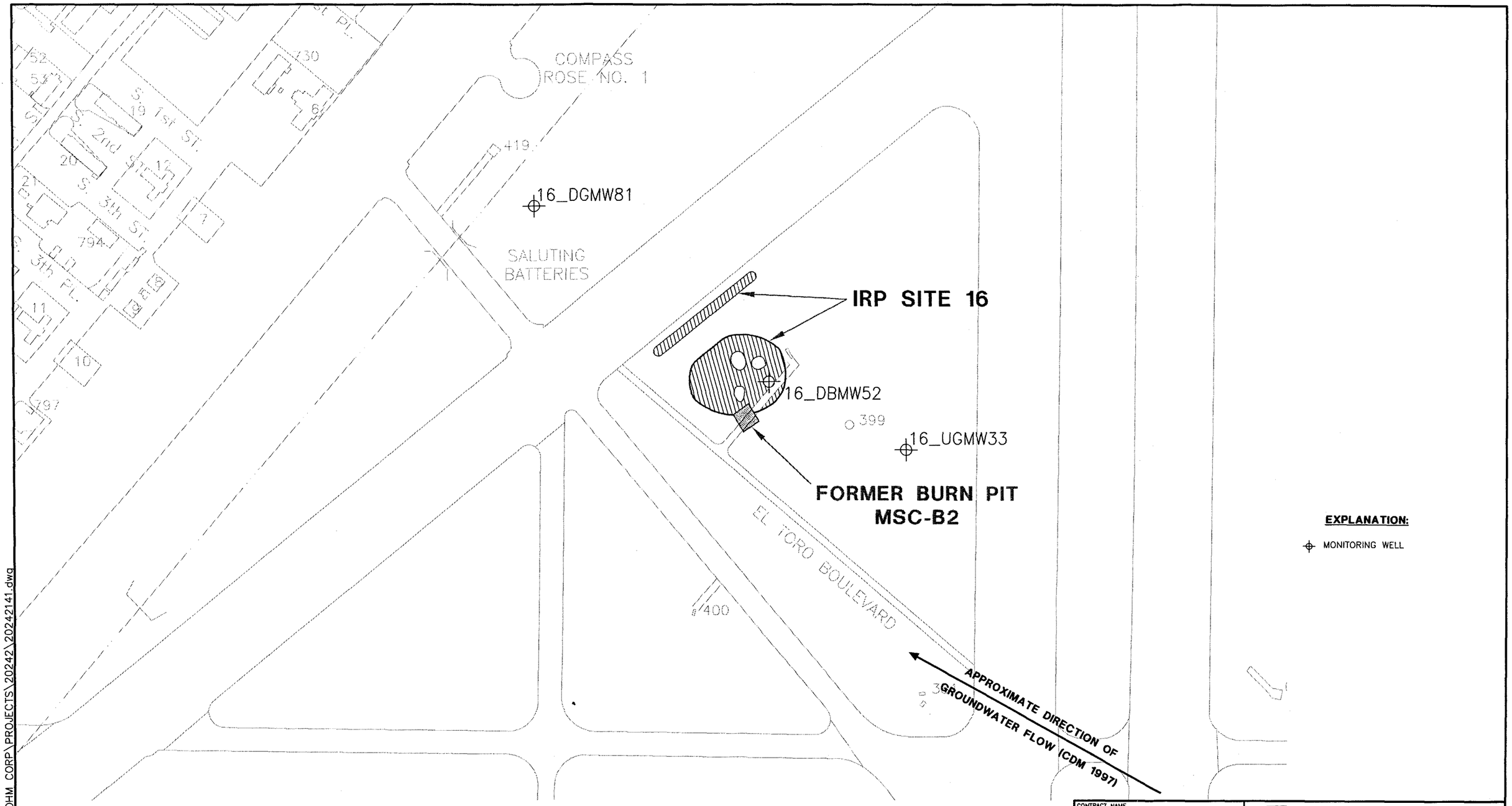
DRAWN BY	DATE
R. PIRMORADIAN	12/06/99
CHECKED BY	DATE
APPROVED BY	DATE
PROJECT MANAGER	DATE

FACILITY LOCATION MAP
FORMER BURN PIT
MSC-B2

MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

AUTOCAD FILE No.	PLOT SCALE	SHEET	OF	SCALE	DOCUMENT CONTROL No.	OHM PROJECT No.	FIGURE No.	REVISION
20242130.DWG	1=1	1	1	1"=4,000'	SW7184	20242	FIG 1-1	0

Dec 06, 1999 - 10:57:03 I:\OHM CORP\PROJECTS\20242\20242130.dwg



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	12/22/99
CHECKED BY	
DATE	
APPROVED BY	
DATE	
PROJECT MANAGER	
DATE	
AUTOCAD FILE No.	20242141.DWG

OHM Remediation Services Corp.
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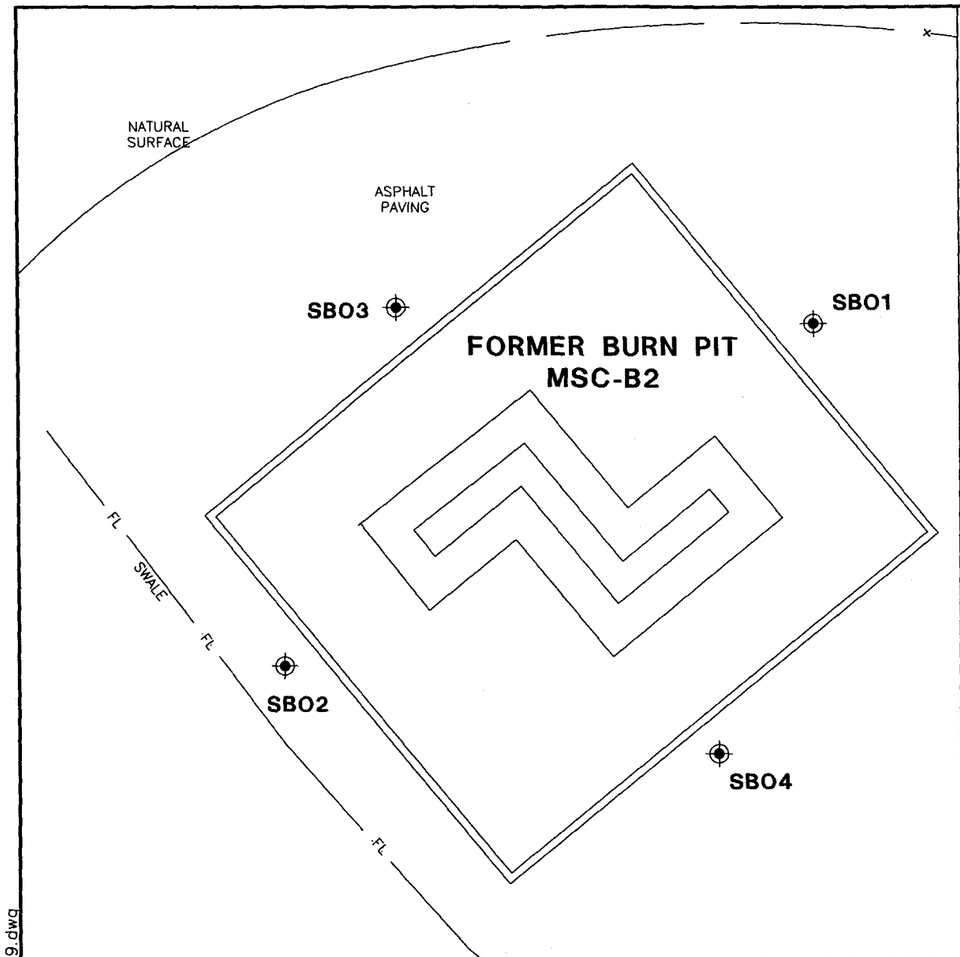
IRVINE, CA

LOCATION MAP
FORMER BURN PIT
MSC-B2

MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

SCALE	SHEET	OF	DOCUMENT CONTROL No.	OHM PROJECT No.	DRAWING No.
1"=300'	1	1	SW7184	20242	FIG 1-2

Dec 22, 1999 - 17:24:10 I:\OHM CORP\PROJECTS\20242\20242141.dwg



Boring Number	Location Northing (NAD 83)	Easting (NAD 83)	Elevation (ft amsl)	Sample: Number	Depth (ft bgs)	CA LUFT-8015M TPH as: JP-5 mg/kg	EPA 8260A VOCs: Benzene µg/kg	Toluene µg/kg	Ethylbenzene µg/kg	Xylenes (total) µg/kg	MTBE µg/kg	EPA 6010A Arsenic mg/kg
MSC-B2-SB01												
	2,192,762.03	6,110,722.84	329.91									
				20242-820	16	10 U	5.2 U	5.2 U	5.2 U	16 U	10 U	1.5
				20242-821	26	3 J	5.8 U	5.8 U	5.8 U	18 U	12 U	2.4
				20242-822	51	3 J	5.7 U	5.7 U	5.7 U	17 U	11 U	3.2
				20242-823	101	3 J	5.7 U	5.7 U	5.7 U	17 U	11 U	3.5
MSC-B2-SB02												
	2,192,820.89	6,110,680.83	329.92									
				20242-824	15.5	5 J	5.5 U	5.5 U	5.5 U	17 U	11 U	2.4
				20242-825	20.5	3 J	5.8 U	5.8 U	5.8 U	17 U	12 U	1.7
				20242-826	20	4 J	5.5 U	5.5 U	5.5 U	16 U	11 U	3.0
				20242-837	52	3 J	5.5 U	5.5 U	5.5 U	17 U	11 U	2.6
MSC-B2-SB03												
	2,192,818.79	6,110,735.44	330.05									
				20242-827	16	3 J	5.3 U	5.3 U	5.3 U	16 U	11 U	1.7
				20242-828	21	11 J	6.5 U	6.5 U	6.5 U	19 U	13 U	4.7
				20242-829	51	3 J	5.7 U	5.7 U	5.7 U	17 U	11 U	3.7
				20242-830	101	3 J	5.7 U	5.7 U	5.7 U	17 U	11 U	2.6
MSC-B2-SB04												
	2,192,773.71	6,110,665.92	329.77									
				20242-832	16	3 J	5.3 U	5.3 U	5.3 U	16 U	11 U	1.4
				20242-833	15.5	3 J	5.3 U	5.3 U	5.3 U	16 U	11 U	1.1
				20242-834	20.5	3 J	5.2 U	5.2 U	5.2 U	16 U	10 U	1.1
				20242-835	51	3 J	5.7 U	5.7 U	5.7 U	17 U	11 U	1.8
				20242-836	100	3 J	5.5 U	5.5 U	5.5 U	17 U	11 U	1.9

NOTE: Analytical results indicate that arsenic was in concentrations above the residential PRG, but below background level in all the samples.

Explanation:
NAD 83 - North American Datum, 1983.
ft amsl - Feet above mean sea level datum.
ft bgs - Feet below ground surface.
CA LUFT - California leaking underground fuel tank.
EPA - US Environmental Protection Agency
J - Estimated value.
mg/kg - Milligrams per kilogram.
TPH - Total petroleum hydrocarbons.
U - Not detected at or above the stated reporting limit.
µg/kg - Micrograms per kilogram.

EXPLANATION:

SAMPLE POINTS

CHAIN LINK FENCE

DATE OF SURVEY: 06-01-99

N

GRAPHIC SCALE
0 10 20 40
(IN FEET)

REVISIONS			
REV. No.	DESCRIPTION	DATE	APPROVED
01	97102-134.DWG BY CALVADA SURVEYING INC.	6/1/99	

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DRAWN BY: R. PIRMORADIAN DATE: 12/27/99
CHECKED BY DATE
APPROVED BY DATE
PROJECT MANAGER DATE
AUTOCAD FILE No. 20242129.DWG

SITE PLAN
FORMER BURN PIT
MSC-B2

MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

SCALE	SHEET	OF	DOCUMENT CONTROL No.	OHM PROJECT No.	DRAWING No.
1"=20'	1	1	SW7184	20242	FIG 3-1

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Tables

Table 2-1
Monitoring Well Data Summary – Burn Pit MSC B2 Vicinity

Monitoring Well Identification Number	Approximate Distance from MSC B2 (feet)	Direction from MSC B2	Surface Elevation (feet, msl)	Screened Interval Top (feet, bgs)	Screened Interval Base (feet, msl)	Well Total Depth (feet, bgs)	Depth to Groundwater (feet, bgs)
16_DBMW52	150	north	332	182	222	227	162.42
16_UGMW33	450	east	337	180	220	225	165.26
16_DGMW81	950	northwest	323	176	216	221	158.32

bgs - below ground surface
MSC - miscellaneous site of concern
msl - mean sea level

Table 3 - 1
Summary of Analytical Results for Soil Samples — MSC B2

Sample Identification					20242-820	20242-821	20242-822	20242-823	20242-824
Location Code					MSC-B2-SB01	MSC-B2-SB01	MSC-B2-SB01	MSC-B2-SB01	MSC-B2-SB02
Date Sampled					05/27/99	05/27/99	05/27/99	05/27/99	05/27/99
Depth (feet below ground surface)					16.0	26.0	51.0	101.0	15.5
	Unit	**Background**	**PRG Residential**	**PRG Industrial**					
CA LUFT 8015M									
TPH as JP-5	mg/kg	NE	NE	NE	10 U	3 J	3 J	3 J	5 J
EPA 6010A									
Antimony	mg/kg	3.06	31	820	0.12 U	0.13 U	0.13 U	0.13 U	0.12 U
Arsenic	mg/kg	6.86	0.39	2.7	1.5	2.4	3.2	3.5	2.4
Barium	mg/kg	173	5400	100000	57.5	95.8	163	125	140
Beryllium	mg/kg	0.669	150	2200	0.0028 U	0.0032 U	0.0031 U	0.0031 U	0.0030 U
Cadmium	mg/kg	2.35	9	810	0.80	0.29	0.45	0.18 J	0.31
Chromium	mg/kg	26.9	210	450	3.6	7.1	14.7	14.7	8.1
Cobalt	mg/kg	6.98	4700	100000	1.9	4.7	7.2	7.2	4.9
Copper	mg/kg	10.5	2900	76000	4.9	4.8	9.5	6.8	5.5
Lead	mg/kg	15.1	400	1000	1.3	2.3	4.4	4.2	2.2
Molybdenum	mg/kg	NE	390	10000	0.38 J	0.047 U	0.046 U	0.046 U	0.044 U
Nickel	mg/kg	15.3	150	41000	2.4	4.8	10.4	8.7	5.2
Selenium	mg/kg	0.32	390	10000	0.18 U	0.20 U	0.19 U	0.32 J	0.28 J
Silver	mg/kg	0.539	390	10000	0.049 U	0.055 U	0.054 U	0.054 U	0.052 U
Thallium	mg/kg	0.42	5.5	140	0.10 U	0.12 U	0.11 U	0.11 U	0.11 U
Vanadium	mg/kg	71.8	550	14000	12.4	26.5	38.4	42.9	31.8
Zinc	mg/kg	77.9	23000	100000	14.6	29.6	50.9	42.0	32.8
EPA 7470A									
Mercury	mg/kg	0.22	23	610	0.073 U	0.082 U	0.080 U	0.080 U	0.078 U
EPA 8260A									
1,1,1-Trichloroethane	µg/kg	NE	770000	1400000	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
1,1,2,2-Tetrachloroethane	µg/kg	NE	380	900	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
1,1,2-Trichloroethane	µg/kg	NE	840	1900	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
1,1-Dichloroethane	µg/kg	NE	590000	2100000	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
1,1-Dichloroethene	µg/kg	NE	54	120	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
1,2-Dichloroethane	µg/kg	NE	350	760	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
1,2-Dichloropropane	µg/kg	NE	350	770	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
2-Butanone (MEK)	µg/kg	NE	7300000	28000000	52 UJ	58 UJ	57 UJ	57 UJ	55 UJ
2-Chloroethyl vinyl ether	µg/kg	NE	NE	NE	52 U	58 U	57 U	57 U	55 U
2-Hexanone	µg/kg	NE	NE	NE	52 U	58 U	57 U	57 U	55 U
4-Methyl-2-pentanone (MIBK)	µg/kg	NE	790000	2900000	52 U	58 U	57 U	57 U	55 U

Table 3 - 1
Summary of Analytical Results for Soil Samples — MSC B2

Sample Identification					20242-820	20242-821	20242-822	20242-823	20242-824
Location Code					MSC-B2-SB01	MSC-B2-SB01	MSC-B2-SB01	MSC-B2-SB01	MSC-B2-SB02
Date Sampled					05/27/99	05/27/99	05/27/99	05/27/99	05/27/99
Depth (feet below ground surface)					16.0	26.0	51.0	101.0	15.5
	Unit	Background	PRG Residential	PRG Industrial					
Acetone	µg/kg	NE	1600000	6200000	52 U	58 U	11 J	57 U	55 U
Benzene	µg/kg	NE	670	1500	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Bromodichloromethane	µg/kg	NE	1000	2400	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Bromoform	µg/kg	NE	62000	310000	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Bromomethane	µg/kg	NE	3900	13000	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Carbon disulfide	µg/kg	NE	360000	720000	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Carbon tetrachloride	µg/kg	NE	240	530	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Chlorobenzene	µg/kg	NE	150000	540000	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Chloroethane	µg/kg	NE	3000	6500	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Chloroform	µg/kg	NE	240	520	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Chloromethane	µg/kg	NE	1200	2700	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
cis-1,2-Dichloroethene	µg/kg	NE	43000	150000	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
cis-1,3-Dichloropropene	µg/kg	NE	82	180	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Dibromochloromethane	µg/kg	NE	1100	2700	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Ethylbenzene	µg/kg	NE	230000	230000	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Methyl tert-butyl ether (MTBE)	µg/kg	NE	NE	NE	10 U	12 U	11 U	11 U	11 U
Methylene chloride	µg/kg	NE	8900	21000	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Styrene	µg/kg	NE	1700000	1700000	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Tetrachloroethene	µg/kg	NE	5700	19000	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Toluene	µg/kg	NE	520000	520000	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
trans-1,2-Dichloroethene	µg/kg	NE	63000	210000	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
trans-1,3-Dichloropropene	µg/kg	NE	82	180	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Trichloroethene	µg/kg	NE	2800	6100	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Vinyl acetate	µg/kg	NE	430000	1400000	52 U	58 U	57 U	57 U	55 U
Vinyl chloride	µg/kg	NE	22	49	5.2 U	5.8 U	5.7 U	5.7 U	5.5 U
Xylenes (total)	µg/kg	NE	210000	210000	16 U	18 U	17 U	17 U	17 U

Table 3 - 1
Summary of Analytical Results for Soil Samples — MSC B2

Sample Identification					20242-825	20242-826	20242-837	20242-827	20242-828
Location Code					MSC-B2-SB02	MSC-B2-SB02 (DUP)	MSC-B2-SB02	MSC-B2-SB03	MSC-B2-SB03
Date Sampled					05/27/99	05/27/99	05/28/99	05/28/99	05/28/99
Depth (feet below ground surface)					20.5	20.0	52.0	16.0	21.0
	Unit	**Background**	**PRG Residential**	**PRG Industrial**					
CA LUFT 8015M									
TPH as JP-5	mg/kg	NE	NE	NE	3 J	4 J	3 J	3 J	11 J
EPA 6010A									
Antimony	mg/kg	3.06	31	820	0.13 U	0.12 U	0.12 U	0.12 U	0.14 U
Arsenic	mg/kg	6.86	0.39	2.7	1.7	3.0	2.6	1.7	4.7
Barium	mg/kg	173	5400	100000	83.3	158	81.6	79.4	196
Beryllium	mg/kg	0.669	150	2200	0.0031 U	0.0030 U	0.0030 U	0.0029 U	0.0035 U
Cadmium	mg/kg	2.35	9	810	0.17 J	0.22 J	0.28	0.26	0.42
Chromium	mg/kg	26.9	210	450	5.4	7.5	8.9	4.4	18.8
Cobalt	mg/kg	6.98	4700	100000	3.2	5.9	4.1	2.8	10.8
Copper	mg/kg	10.5	2900	76000	3.8	5.1	4.3	12.8	11.5
Lead	mg/kg	15.1	400	1000	1.5	2.0	2.3	1.2	4.2
Molybdenum	mg/kg	NE	390	10000	0.29 J	0.044 U	0.22 U	0.21 U	0.052 U
Nickel	mg/kg	15.3	150	41000	3.8	4.2	5.3	3.5	10.5
Selenium	mg/kg	0.32	390	10000	0.20 U	0.55	0.26 J	0.18 U	0.95
Silver	mg/kg	0.539	390	10000	0.054 U	0.051 U	0.052 U	0.050 U	0.061 U
Thallium	mg/kg	0.42	5.5	140	0.12 U	0.11 U	0.11 U	0.11 U	0.13 U
Vanadium	mg/kg	71.8	550	14000	19.8	32.7	27.8	17.4	65.2
Zinc	mg/kg	77.9	23000	100000	21.2	37.2	26.6	25.1	75.3
EPA 7470A									
Mercury	mg/kg	0.22	23	610	0.081 U	0.077 U	0.077 U	0.074 U	0.091 U
EPA 8260A									
1,1,1-Trichloroethane	µg/kg	NE	770000	1400000	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
1,1,2,2-Tetrachloroethane	µg/kg	NE	380	900	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
1,1,2-Trichloroethane	µg/kg	NE	840	1900	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
1,1-Dichloroethane	µg/kg	NE	590000	2100000	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
1,1-Dichloroethene	µg/kg	NE	54	120	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
1,2-Dichloroethane	µg/kg	NE	350	760	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
1,2-Dichloropropane	µg/kg	NE	350	770	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
2-Butanone (MEK)	µg/kg	NE	7300000	28000000	58 UJ	55 UJ	55 UJ	53 UJ	65 UJ
2-Chloroethyl vinyl ether	µg/kg	NE	NE	NE	58 U	55 U	55 U	53 U	65 U
2-Hexanone	µg/kg	NE	NE	NE	58 U	55 U	55 U	53 U	65 U
4-Methyl-2-pentanone (MIBK)	µg/kg	NE	790000	2900000	58 U	55 U	55 U	53 U	65 U

Table 3 - 1
Summary of Analytical Results for Soil Samples — MSC B2

Sample Identification					20242-825	20242-826	20242-837	20242-827	20242-828
Location Code					MSC-B2-SB02	MSC-B2-SB02 (DUP)	MSC-B2-SB02	MSC-B2-SB03	MSC-B2-SB03
Date Sampled					05/27/99	05/27/99	05/28/99	05/28/99	05/28/99
Depth (feet below ground surface)					20.5	20.0	52.0	16.0	21.0
	Unit	**Background**	**PRG Residential**	**PRG Industrial**					
Acetone	µg/kg	NE	1600000	6200000	15 J	55 U	55 U	53 U	65 U
Benzene	µg/kg	NE	670	1500	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Bromodichloromethane	µg/kg	NE	1000	2400	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Bromoform	µg/kg	NE	62000	310000	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Bromomethane	µg/kg	NE	3900	13000	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Carbon disulfide	µg/kg	NE	360000	720000	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Carbon tetrachloride	µg/kg	NE	240	530	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Chlorobenzene	µg/kg	NE	150000	540000	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Chloroethane	µg/kg	NE	3000	6500	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Chloroform	µg/kg	NE	240	520	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Chloromethane	µg/kg	NE	1200	2700	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
cis-1,2-Dichloroethene	µg/kg	NE	43000	150000	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
cis-1,3-Dichloropropene	µg/kg	NE	82	180	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Dibromochloromethane	µg/kg	NE	1100	2700	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Ethylbenzene	µg/kg	NE	230000	230000	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Methyl tert-butyl ether (MTBE)	µg/kg	NE	NE	NE	12 U	11 U	11 U	11 U	13 U
Methylene chloride	µg/kg	NE	8900	21000	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Styrene	µg/kg	NE	1700000	1700000	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Tetrachloroethene	µg/kg	NE	5700	19000	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Toluene	µg/kg	NE	520000	520000	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
trans-1,2-Dichloroethene	µg/kg	NE	63000	210000	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
trans-1,3-Dichloropropene	µg/kg	NE	82	180	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Trichloroethene	µg/kg	NE	2800	6100	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Vinyl acetate	µg/kg	NE	430000	1400000	58 U	55 U	55 U	53 U	65 U
Vinyl chloride	µg/kg	NE	22	49	5.8 U	5.5 U	5.5 U	5.3 U	6.5 U
Xylenes (total)	µg/kg	NE	210000	210000	17 U	16 U	17 U	16 U	19 U

Table 3 - 1
Summary of Analytical Results for Soil Samples — MSC B2

Sample Identification					20242-829	20242-830	20242-832	20242-833	20242-834
Location Code					MSC-B2-SB03	MSC-B2-SB03	MSC-B2-SB04	MSC-B2-SB04 (DUP)	MSC-B2-SB04
Date Sampled					05/28/99	05/28/99	05/28/99	05/28/99	05/28/99
Depth (feet below ground surface)					51.0	101.0	16.0	15.5	20.5
	Unit	**Background**	**PRG Residential**	**PRG Industrial**					
CA LUFT 8015M									
TPH as JP-5	mg/kg	NE	NE	NE	3 J	3 J	3 J	3 J	3 J
EPA 6010A									
Antimony	mg/kg	3.06	31	820	0.13 U	0.13 U	0.12 U	0.12 U	0.11 U
Arsenic	mg/kg	6.86	0.39	2.7	3.7	2.6	1.4	1.1	1.1
Barium	mg/kg	173	5400	100000	169	104	65.9	75.5	55.8
Beryllium	mg/kg	0.669	150	2200	0.0031 U	0.066 J	0.0029 U	0.0028 U	0.0028 U
Cadmium	mg/kg	2.35	9	810	0.67	0.44	0.21 U	0.21 U	0.52
Chromium	mg/kg	26.9	210	450	17.1	13.1	3.5	4.2	3.4
Cobalt	mg/kg	6.98	4700	100000	8.3	6.0	2.8	2.7	2.1
Copper	mg/kg	10.5	2900	76000	8.1	6.2	2.8	3.2	3.0
Lead	mg/kg	15.1	400	1000	4.0	3.9	1.1	1.5	0.89
Molybdenum	mg/kg	NE	390	10000	0.23 U	0.23 U	0.21 U	0.21 U	0.042 U
Nickel	mg/kg	15.3	150	41000	12.5	8.8	2.5	2.4	2.3
Selenium	mg/kg	0.32	390	10000	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U
Silver	mg/kg	0.539	390	10000	0.054 U	0.054 U	0.050 U	0.049 U	0.049 U
Thallium	mg/kg	0.42	5.5	140	0.11 U	0.11 U	0.11 U	0.11 U	0.10 U
Vanadium	mg/kg	71.8	550	14000	50.7	35.2	15.9	16.0	13.3
Zinc	mg/kg	77.9	23000	100000	52.1	40.3	18.0	18.1	14.6
EPA 7470A									
Mercury	mg/kg	0.22	23	610	0.080 U	0.080 U	0.074 U	0.074 U	0.073 U
EPA 8260A									
1,1,1-Trichloroethane	µg/kg	NE	770000	1400000	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
1,1,2,2-Tetrachloroethane	µg/kg	NE	380	900	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
1,1,2-Trichloroethane	µg/kg	NE	840	1900	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
1,1-Dichloroethane	µg/kg	NE	590000	2100000	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
1,1-Dichloroethene	µg/kg	NE	54	120	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
1,2-Dichloroethane	µg/kg	NE	350	760	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
1,2-Dichloropropane	µg/kg	NE	350	770	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
2-Butanone (MEK)	µg/kg	NE	7300000	28000000	57 UJ	57 UJ	53 UJ	53 UJ	52 UJ
2-Chloroethyl vinyl ether	µg/kg	NE	NE	NE	57 U	57 U	53 U	53 U	52 U
2-Hexanone	µg/kg	NE	NE	NE	57 U	57 U	53 U	53 U	25 J
4-Methyl-2-pentanone (MIBK)	µg/kg	NE	790000	2900000	57 U	57 U	53 U	53 U	52 U

Table 3 - 1
Summary of Analytical Results for Soil Samples — MSC B2

Sample Identification					20242-829	20242-830	20242-832	20242-833	20242-834
Location Code					MSC-B2-SB03	MSC-B2-SB03	MSC-B2-SB04	MSC-B2-SB04 (DUP)	MSC-B2-SB04
Date Sampled					05/28/99	05/28/99	05/28/99	05/28/99	05/28/99
Depth (feet below ground surface)					51.0	101.0	16.0	15.5	20.5
	Unit	Background	PRG Residential	PRG Industrial					
Acetone	µg/kg	NE	1600000	6200000	57 U	57 U	53 U	53 U	45 J
Benzene	µg/kg	NE	670	1500	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Bromodichloromethane	µg/kg	NE	1000	2400	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Bromoform	µg/kg	NE	62000	310000	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Bromomethane	µg/kg	NE	3900	13000	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Carbon disulfide	µg/kg	NE	360000	720000	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Carbon tetrachloride	µg/kg	NE	240	530	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Chlorobenzene	µg/kg	NE	150000	540000	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Chloroethane	µg/kg	NE	3000	6500	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Chloroform	µg/kg	NE	240	520	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Chloromethane	µg/kg	NE	1200	2700	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
cis-1,2-Dichloroethene	µg/kg	NE	43000	150000	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
cis-1,3-Dichloropropene	µg/kg	NE	82	180	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Dibromochloromethane	µg/kg	NE	1100	2700	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Ethylbenzene	µg/kg	NE	230000	230000	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Methyl tert-butyl ether (MTBE)	µg/kg	NE	NE	NE	11 U	11 U	11 U	11 U	10 U
Methylene chloride	µg/kg	NE	8900	21000	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Styrene	µg/kg	NE	1700000	1700000	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Tetrachloroethene	µg/kg	NE	5700	19000	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Toluene	µg/kg	NE	520000	520000	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
trans-1,2-Dichloroethene	µg/kg	NE	63000	210000	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
trans-1,3-Dichloropropene	µg/kg	NE	82	180	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Trichloroethene	µg/kg	NE	2800	6100	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Vinyl acetate	µg/kg	NE	430000	1400000	57 U	57 U	53 U	53 U	52 U
Vinyl chloride	µg/kg	NE	22	49	5.7 U	5.7 U	5.3 U	5.3 U	5.2 U
Xylenes (total)	µg/kg	NE	210000	210000	17 U	17 U	16 U	16 U	16 U

Table 3 - 1
Summary of Analytical Results for Soil Samples — MSC B2

Sample Identification					20242-835	20242-836
Location Code					MSC-B2-SB04	MSC-B2-SB04
Date Sampled					05/28/99	05/28/99
Depth (feet below ground surface)					51.0	100.0
	Unit	Background	PRG Residential	PRG Industrial		
CA LUFT 8015M						
TPH as JP-5	mg/kg	NE	NE	NE	3 J	3 J
EPA 6010A						
Antimony	mg/kg	3.06	31	820	0.12 U	0.12 U
Arsenic	mg/kg	6.86	0.39	2.7	1.8	1.9
Barium	mg/kg	173	5400	100000	305	388
Beryllium	mg/kg	0.669	150	2200	0.0031 U	0.0030 U
Cadmium	mg/kg	2.35	9	810	1.3	2.3
Chromium	mg/kg	26.9	210	450	10.1	16.2
Cobalt	mg/kg	6.98	4700	100000	2.4	2.8
Copper	mg/kg	10.5	2900	76000	3.9	6.5
Lead	mg/kg	15.1	400	1000	1.6	1.6
Molybdenum	mg/kg	NE	390	10000	1.2	1.6
Nickel	mg/kg	15.3	150	41000	5.5	6.8
Selenium	mg/kg	0.32	390	10000	0.35 J	0.28 J
Silver	mg/kg	0.539	390	10000	0.053 U	0.052 U
Thallium	mg/kg	0.42	5.5	140	0.11 U	0.11 U
Vanadium	mg/kg	71.8	550	14000	17.4	21.5
Zinc	mg/kg	77.9	23000	100000	16.3	21.9
EPA 7470A						
Mercury	mg/kg	0.22	23	610	0.079 U	0.077 U
EPA 8260A						
1,1,1-Trichloroethane	µg/kg	NE	770000	1400000	5.7 U	5.5 U
1,1,2,2-Tetrachloroethane	µg/kg	NE	380	900	5.7 U	5.5 U
1,1,2-Trichloroethane	µg/kg	NE	840	1900	5.7 U	5.5 U
1,1-Dichloroethane	µg/kg	NE	590000	2100000	5.7 U	5.5 U
1,1-Dichloroethene	µg/kg	NE	54	120	5.7 U	5.5 U
1,2-Dichloroethane	µg/kg	NE	350	760	5.7 U	5.5 U
1,2-Dichloropropane	µg/kg	NE	350	770	5.7 U	5.5 U
2-Butanone (MEK)	µg/kg	NE	7300000	28000000	57 UJ	55 UJ
2-Chloroethyl vinyl ether	µg/kg	NE	NE	NE	57 U	55 U
2-Hexanone	µg/kg	NE	NE	NE	57 U	55 U
4-Methyl-2-pentanone (MIBK)	µg/kg	NE	790000	2900000	57 U	55 U

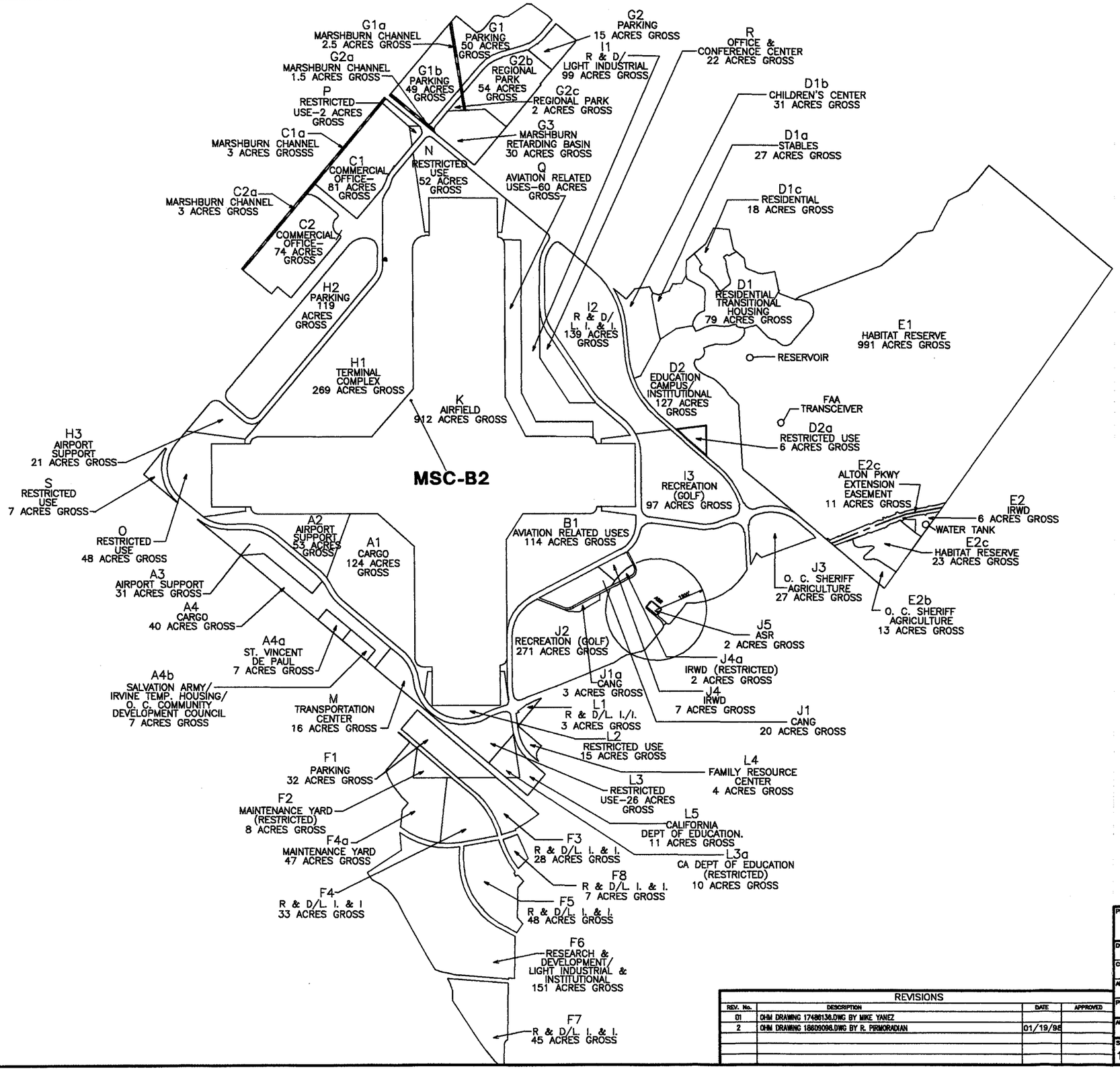
Table 3 - 1
Summary of Analytical Results for Soil Samples — MSC B2

Sample Identification					20242-835	20242-836
Location Code					MSC-B2-SB04	MSC-B2-SB04
Date Sampled					05/28/99	05/28/99
Depth (feet below ground surface)					51.0	100.0
	Unit	**Background**	**PRG Residential**	**PRG Industrial**		
Acetone	µg/kg	NE	1600000	6200000	57 U	55 U
Benzene	µg/kg	NE	670	1500	5.7 U	5.5 U
Bromodichloromethane	µg/kg	NE	1000	2400	5.7 U	5.5 U
Bromoform	µg/kg	NE	62000	310000	5.7 U	5.5 U
Bromomethane	µg/kg	NE	3900	13000	5.7 U	5.5 U
Carbon disulfide	µg/kg	NE	360000	720000	5.7 U	5.5 U
Carbon tetrachloride	µg/kg	NE	240	530	5.7 U	5.5 U
Chlorobenzene	µg/kg	NE	150000	540000	5.7 U	5.5 U
Chloroethane	µg/kg	NE	3000	6500	5.7 U	5.5 U
Chloroform	µg/kg	NE	240	520	5.7 U	5.5 U
Chloromethane	µg/kg	NE	1200	2700	5.7 U	5.5 U
cis-1,2-Dichloroethene	µg/kg	NE	43000	150000	5.7 U	5.5 U
cis-1,3-Dichloropropene	µg/kg	NE	82	180	5.7 U	5.5 U
Dibromochloromethane	µg/kg	NE	1100	2700	5.7 U	5.5 U
Ethylbenzene	µg/kg	NE	230000	230000	5.7 U	5.5 U
Methyl tert-butyl ether (MTBE)	µg/kg	NE	NE	NE	11 U	11 U
Methylene chloride	µg/kg	NE	8900	21000	5.7 U	5.5 U
Styrene	µg/kg	NE	1700000	1700000	5.7 U	5.5 U
Tetrachloroethene	µg/kg	NE	5700	19000	5.7 U	5.5 U
Toluene	µg/kg	NE	520000	520000	5.7 U	5.5 U
trans-1,2-Dichloroethene	µg/kg	NE	63000	210000	5.7 U	5.5 U
trans-1,3-Dichloropropene	µg/kg	NE	82	180	5.7 U	5.5 U
Trichloroethene	µg/kg	NE	2800	6100	5.7 U	5.5 U
Vinyl acetate	µg/kg	NE	430000	1400000	57 U	55 U
Vinyl chloride	µg/kg	NE	22	49	5.7 U	5.5 U
Xylenes (total)	µg/kg	NE	210000	210000	17 U	17 U

Table 3 - 1
Summary of Analytical Results for Soil Samples — MSC B2

CA LUFT - California leaking underground fuel tank
EPA - US Environmental Protection Agency
J - estimated value
M - modified
mg/kg - milligrams per kilogram
OHM - OHM Remediation Services Corp.
PRG - Preliminary Remediation Goal, EPA Region IX, October 1999
TPH - total petroleum hydrocarbons
U - not detected at or above the stated reporting limit
UJ - estimated reporting limit
µg/kg - micrograms per kilogram

Appendix A
Tentative Reuse Parcel Location of MSC B2



GRAPHIC SCALE
0 600 1,200 2,400
(IN FEET)

REVISIONS

REV. No.	DESCRIPTION	DATE	APPROVED
01	OHM DRAWING 17486136.DWG BY MIKE YANEZ		
2	OHM DRAWING 18809096.DWG BY R. PIRMORADIAN	01/19/98	

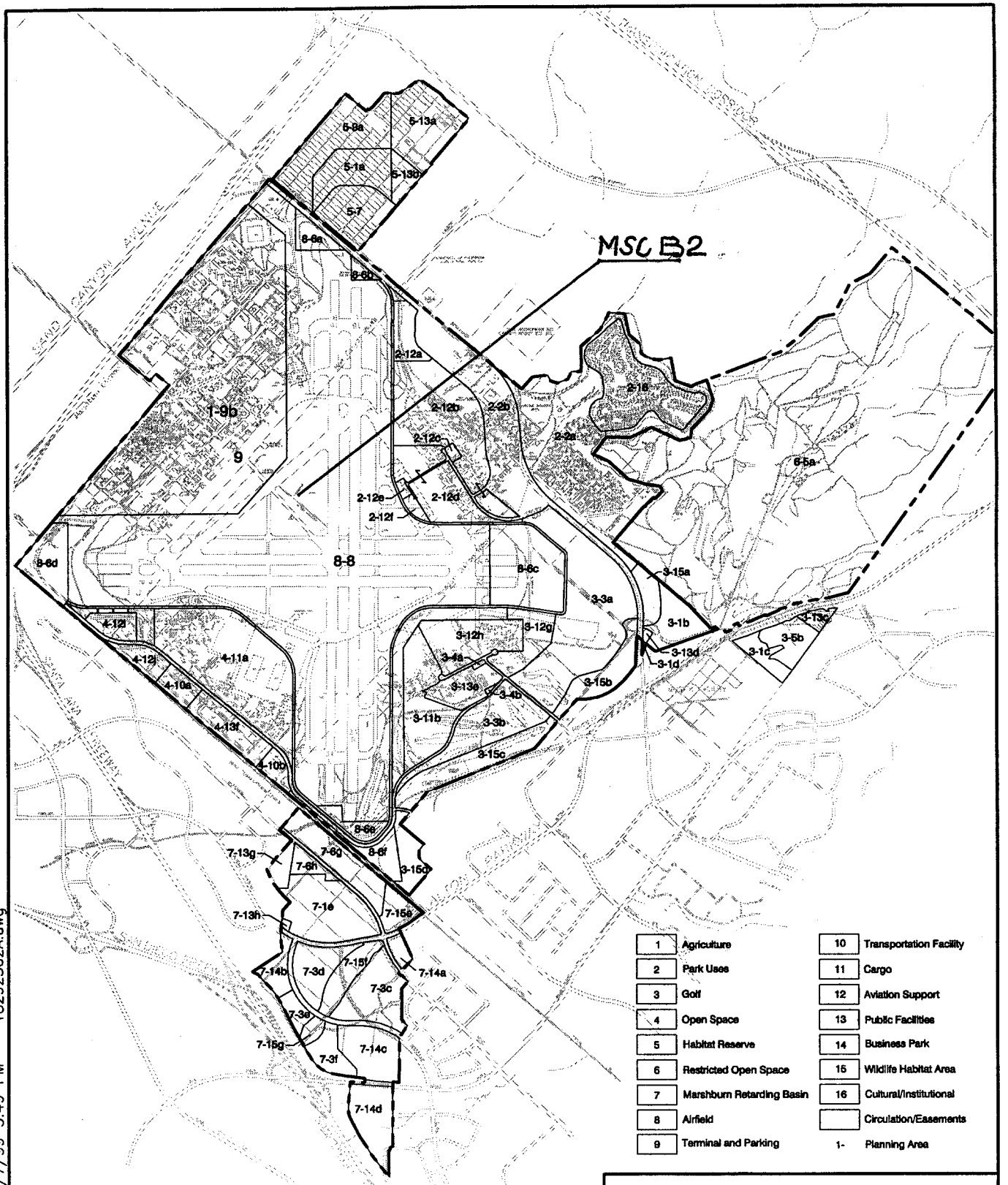
PROJECT	SWDIV
DRAWN BY	R. PIRMORADIAN — DATE 09/16/99
CHECKED BY	DATE
APPROVED BY	DATE
PROJECT MANAGER	DATE
AUTOCAD FILE No.	20242132.DWG

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

EL TORO COMMUNITY REUSE PLAN
1997 WORKING MAP LAND USES/
CONVEYANCES GROSS ACRES
FIRE FIGHTER TRAINING BURN PIT (MSC–B2)
MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

SCALE	SHEET	OF	DOCUMENT CONTROL No.	OHM PROJECT No.	DRAWING No.
1"=2,400'	1	1	SW7184	20242	FIG A–1

Sept 16, 1999 – 11:52:17 i:\OHM CORP\PROJECTS\20242\20242132.dwg



SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND

MCAS EL TORO, CA

PREFERRED LAND USE PLAN

FILE NO.	FIGURE 2	DATE
18292502.DWG		12/7/99

Witzel-Yanez Design 12/7/99 3:49 PM 18292502A.dwg

Appendix B
Excerpts From EBS

MARINE CORPS AIR STATION EL TORO
EL TORO, CALIFORNIA
INSTALLATION RESTORATION PROGRAM
FINAL ENVIRONMENTAL BASELINE SURVEY REPORT

01 April 1995

Revision 0

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

THROUGH:
CONTRACT #N68711-89-D-9296
CTO #284
DOCUMENT CONTROL NO:
CLE-C01-01F284-S2-0004

WITH:
Jacobs Engineering Group Inc.
401 West A Street, Suite 1905
San Diego, California 92101

In association with:
International Technology Corporation
CH2M HILL

MARINE CORPS AIR STATION EL TORO
EL TORO, CALIFORNIA
INSTALLATION RESTORATION PROGRAM
FINAL ENVIRONMENTAL BASELINE SURVEY REPORT

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401 West A Street, Suite 1905
San Diego, California 92101

In association with:
International Technology Corporation
CH2M HILL

M. W. Arends 3/31/95

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

Max Pan 3-31-95

Max Pan, P.E. Date
CLEAN Technical Reviewer
IT Corporation

northernmost portion of the Station. The second pesticide storage area located in the southernmost portion of the Station, which is leased by Magarro Farms. Both of these storage areas were included in the Confirmation Sampling Program performed at the Station in late 1994 (refer to Section 5.0 for a summary of the sampling results).

Fire Training Burn Pits. The Station has two concrete-lined burn pits located adjacent to IRP Site 16 (Crash Crew Pit No. 2). Both pits were constructed in 1988, but only one is currently used. The western burn pit was only used one time. It was then retired (i.e., left in place) because the builder used an improper type of concrete that deteriorated during the initial burn event; however, no significant cracks are evident in the floor of the pit. Burns typically last 3 to 10 minutes and are conducted approximately 4 to 6 times per month. Only JP-5 is burned in the remaining pit.

Silver Recovery Units. Silver recovery units are used in the Station's general photography laboratory (Building 443) and medical clinic (Building 439). The silver recovery units currently in Building 443 were formerly located in Building 312 (moved in 1988). All three of these buildings are identified as LOCs.

Drum Storage Area. During a routine site visit to MCAS El Toro in 1991, the Jacobs Team discovered a drum storage area located in the southeast quadrant of the Station, east of DRMO Storage Yard No. 3. The storage area contained hazardous waste that was generated overseas during Desert Storm

Appendix C
Excerpts From Draft Final Phase II Remedial Investigation Report

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

Contract No. N68711-92-D-4670

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY

CLEAN II

DRAFT FINAL PHASE II REMEDIAL INVESTIGATION REPORT OU-3A SITE 16, CRASH CREW PIT NO. 2 ATTACHMENT J MARINE CORPS AIR STATION EL TORO, CALIFORNIA

CTO-0079/0391

June 1997

Prepared by:

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

The risk results presented for Site 16 should not be taken as a characterization of absolute risk. The estimated cancer and noncancer risks in presented are based on numerous assumptions, most of which are conservative. As a result of the cumulative effect of these conservative assumptions, the estimated risks are thought to substantially overestimate the actual risks at the site.

7.2 CONCLUSIONS

The Phase II RI was conducted using the seven-step U.S. EPA DQO process (U.S. EPA 1993). Using this process, four site-specific DQOs that formed the basis for the investigation were developed for Site 16 in the Work Plan. The RI has successfully met these DQOs as summarized in Table 7-1 and discussed below.

1. *Do contaminants in shallow soil (less than 10 feet bgs) within each unit exceed established background concentrations and PRGs, and/or do they present an unacceptable risk to human health or the environment?*

   TAL metals above their respective background concentrations and VOCs and PAHs in shallow soil at Site 16 do not appear to pose an unacceptable risk to a potential on-site resident (or on-site industrial worker) based upon the reported range of concentrations in shallow soil and the calculated risk values. The results of the habitat assessment indicated an absence of significant plant and wildlife habitat at Site 16.

2. *Has the extent of the impacted soil been defined for the shallow-soil interval?*

   Yes. The extent of the impacted soil had been defined in shallow soil. The BCT agreed that the nature and extent of shallow-soil contamination associated with TAL metals, VOCs, and PAHs in Units 1, 2, and 3 has been defined in a sufficient manner to reach a decision for future actions.

3. *Does the impacted soil extend below a depth of 10 feet bgs?*

   Yes. VOCs were identified in soil samples to the groundwater table. Petroleum hydrocarbons were also identified in deeper subsurface soil. TAL metals above their respective background concentrations are also present to depths of at least 10 feet bgs. Chemicals in soil at Site 16 have impacted groundwater beneath the site.

4. *Do the media being evaluated for a response action qualify for Early Action?*

   No. The chemicals identified in soil at Site 16 do not pose an imminent risk to human health or the environment. Although these chemicals appear to have migrated to groundwater at the site, due to the location of Site 16 in the middle of the runways groundwater is not expected to impact receptors at the present time.

Table 7-1
OU[a]-3A Phase II RI[b] Site 16 Results

DQO[c] Decisions (Section 1)	Physical Characteristics (Section 3)	Nature and Extent (Section 4)	Fate and Transport (Section 5)	Risk Assessment (Section 6)[d]	Recommendation
1. Assess whether COPCs[e] in shallow soil exceed screening levels (background and PRGs[f]) and/or present unacceptable risk.	Site is level except for the main pit, which has been not filled in. Surface soil at the site is partially vegetated. Surface drainage from the site appears to flow northwest to a storm drain, which eventually discharges into the Bee Canyon Wash.	VOCs[g], PAHs[h], petroleum hydrocarbons, and TAL[i] metals are present in shallow and deeper subsurface soil throughout at the site.	Four potential migration pathways are air, surface water, soil infiltration, and groundwater. VOCs infiltrated through vadose zone and are present in groundwater.	Risk to a resident is 1.6E-6/1.8E-6, and the risk to an industrial worker is 1.4E-6/1.7E-6 for cancer at Units 1 and 2. Risk to a resident is 1.9E-5/2.0E-5 and the risk to an industrial worker is 6.7E-6/6.9E-6 for cancer at Unit 3. Risk to a resident is 8.0E-5 for cancer from groundwater beneath the site.	No remedial action is necessary at Unit 3. Remedial action is necessary at Units 1 and 2 to reduce VOCs in the vadose zone and/or contain their migration through the vadose zone and to prevent or minimize further degradation of the shallow aquifer beneath the site.
2. Determine the extent of contamination in shallow soil (< 10 feet bgs[j]).	—[k]	VOCs, PAHs, petroleum hydrocarbons, and TAL metals are present in shallow soil. BCT[l] agrees extent of contamination in shallow soil is defined sufficiently to reach a decision for future actions.	—	—	No further action necessary.

(table continues)

Table 7-1 (continued)

DQO[c] Decisions (Section 1)	Physical Characteristics (Section 3)	Nature and Extent (Section 4)	Fate and Transport (Section 5)	Risk Assessment (Section 6)[d]	Recommendation
3a. Determine if extent of contamination extends into deeper subsurface soil (> 10 feet bgs).	—	Deeper subsurface soil sampling was performed as part of the Phase II RI Work Plan because petroleum hydrocarbon contamination was identified below 10 feet bgs in the Phase I RI. BCT agrees extent of contamination in deeper subsurface soil is defined sufficiently to reach a decision for future actions.	—	—	Remedial action is necessary to contain migration of VOCs through the vadose zone to prevent or minimize further groundwater degradation.
3b. If soil contamination extends to groundwater, determine whether groundwater has been impacted.	—	Groundwater samples collected from HydroPunch and monitoring wells identified VOCs in the groundwater. Plume extends approximately 100 feet off-site.	Past practices at the site introduced large volumes of water into the pits at the site mobilizing VOCs through soil, which eventually reached groundwater. Due to present site conditions of low net infiltration rates, transport of VOCs downward in the soil at this time appears to be reduced greatly.	Risk to a resident is 8.0E-5 for cancer from groundwater beneath the site.	Remedial action is necessary to reduce VOCs in the saturated zone and/or contain their migration through the saturated zone and to prevent or minimize further degradation of the shallow aquifer beneath the site.

(table continues)

Table 7-1 (continued)

DQO[c] Decisions (Section 1)	Physical Characteristics (Section 3)	Nature and Extent (Section 4)	Fate and Transport (Section 5)	Risk Assessment (Section 6)[d]	Recommendation
4. Determine if site qualifies for Early Action.	—	VOCs, PAHs, petroleum hydrocarbons, and TAL metals are present in shallow and deeper subsurface soil throughout at the site.	Four potential migration pathways are air, surface water, soil infiltration, and groundwater. VOCs infiltrated through vadose zone and are present in groundwater.	Site does not appear to be an imminent threat to human health or the environment.	No early action necessary

Notes:
- [a] OU – operable unit
- [b] RI – Remedial Investigation
- [c] DQO – data quality objective
- [d] United States Environmental Protection Agency (U.S. EPA)/California Environmental Protection Agency
- [e] COPC – chemicals of potential concern
- [f] PRG – (U.S. EPA) preliminary remediation goal
- [g] VOC – volatile organic compound
- [h] PAH – polynuclear aromatic hydrocarbon
- [i] TAL – target analyte list
- [j] bgs – below ground surface
- [k] — – not applicable
- [l] BCT – Base Realignment and Closure (BRAC) Cleanup Team

Appendix D
Site Inspection Log

SITE ASSESSMENT LOG
MCAS El Toro
REMEDIATION OF VARIOUS UST SITES
20242, D.O. 112

~~UST~~ MSC SITE: MSC B2

Field Observations by: D. Rawal & Jack **Date:** 5/18/98

~~**Former UST**~~ MSC **area**: Paved or Unpaved

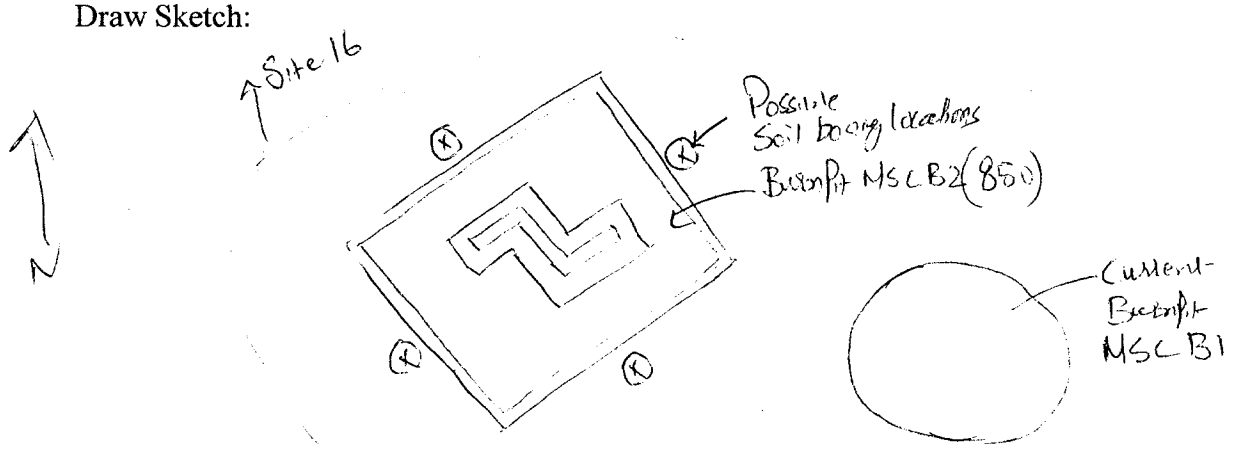
Paved: Concrete or Asphalt Concrete Paved Surrounding to Former Burn Pit MSC B2,
Unpaved: Open dirt area No,
Any Visible Sprinkler System: Yes No

-Nearest Building or Structure Distance: Bldg/Structure 851 & UST/OWS 850,

-Any Underground Piping/Lines, or Transformer Observed: None, Geophysical Survey to be Performed to find any lines with Fuel.
-Overhead Utility Lines/Poles: None, Flightline,

-Site Setup Constrains: Yes Access Via Radio Tower for drilling also, two way Communication with Tower for Rig Access to Burnpit Site.

Draw Sketch:



Additional Field Notes: ~~UST~~ UST/OWS 850, 851

No Stains or Spills were observed around the Burnpit. Seems to be Intact Only used once. No Fuel Remaining. Very Close to IRP Site 16. BNI is working on Site 16 RI, Soil, Vapor & Groundwater Sampling

Appendix E
Geophysical Survey Data

L.59

SPECTRUM

GASCH
• GEOPHYSICS •

Results of Subsurface Investigation

Site 16 (MCS B2 - Inactive Burn Pit, Bldg. 399-VOR)
Marine Corps Air Station El Toro
Irvine, California

Prepared for: **OHM Remediation Corporation**
Irvine, California

Date of Investigation: **May 18, 1999**

Prepared by:

Jim Hoser
Project Manager
Spectrum-Gasch Geophysics
15260 Sky High Road
Escondido, CA 92025

REGISTERED GEOPHYSICIST
LAURA L. CATHCART
No. 1017
Exp. 12/99
STATE OF CALIFORNIA

Laura Cathcart
Registered Geophysicist No. 1017

Warranty:

Spectrum-Gasch Geophysics was retained to conduct a subsurface investigation of the above facility to characterize the shallow subsurface. Our findings are subject to certain limitations due to site conditions and the instruments employed. We conducted this investigation in a manner consistent with our profession using similar methods. No other warranty as to the performance or deliverables is expressed or implied.

Contents

Introduction

Methods

Results and Conclusions

Figure 1	Area of Subsurface Investigation, MCS B2 - Inactive Burn Pit, MCAS El Toro, Irvine, California
Figure 2	Area of Subsurface Investigation, Building 399 - VOR, MCAS El Toro, Irvine, California
Appendix A	Base Utility Maps for Site 16

Results of Subsurface Investigation
Site 16 (MCS B2 - Inactive Burn Pit, Bldg. 399 - VOR)
MCAS El Toro
Irvine, California

Introduction

On May 18, 1999 Spectrum-Gasch Geophysics conducted a subsurface investigation of Site 16 at MCAS El Toro in Irvine, California. The purpose was to investigate two areas within Site 16 for detectable subsurface utilities. Four proposed borings were investigated at MCS B2 - Inactive Burn Pit- and an area of approximately 100 by 120 feet was investigated at Building 399 -VOR.

Methods

The equipment used in this investigation consisted of a Fisher TW-6 shallow-focus terrain conductivity meter, Dynatel 500A cable locator, Radiodetection RD400 utility locator, and a GSSI SIR-3 ground penetrating radar (GPR) unit coupled to a 500-MHz antenna.

GPR and EM utility-locating methods were used in the areas of interest to delineate the surface trace of detectable conduits and to identify buried objects having no surface expression. The following paragraphs discuss the methods used.

1.) The areas were investigated for detectable subsurface utilities or other buried features. Utilities which were exposed above ground in the vicinity of each area were directly connected to, traced out, and mapped on a site map (Figures 1 and 2).

2.) The areas were investigated with a passive electromagnetic receiver tuned to 50/60 Hz, radio, and audio frequencies to detect buried utilities that might reradiate an electromagnetic field.

3.) The areas were investigated with two crew members operating a matched frequency transmitter and receiver. We conducted bi-directional traverses to detect increases in signal strength which might suggest subsurface utilities. Each suspected signal increase was further investigated to discern a signal-propagating utility.

4.) GPR data from eight traverses at the MCS B2 - Inactive Burn Pit and four traverses at Building 399 - VOR were collected. A map of these traverses is presented in Figures 1 and 2, respectively. GPR data were produced in the form of vertical cross sections and interpreted in the field for anomalies whose signatures might indicate the presence of subsurface conduits or other features of interest.

Results and Conclusions

MCS B2 - Inactive Burn Pit

Four proposed boring sites were investigated for detectable subsurface utilities and their locations were marked on the ground using white spray paint. The surface trace of detected utilities was marked on the ground with spray paint using a color code established by the American Public Works Association. A site map with geophysical interpretation of the proposed boring locations is presented in Figure 1. Drilling and excavation activities should be kept a minimum of two feet away from detected utilities.

The penetration depth of the GPR signal was approximately 1 foot in the areas investigated. As a consequence, some subsurface utilities may not have been detected due to the shallow penetration of the GPR. Because of this limitation, Spectrum cannot guarantee that all nonmetallic conduits, such as sewers and pvc water lines, have been identified within the area of investigation.

Base utility maps for this area are included in Appendix A.

Building 399 - VOR

The surface trace of detected utilities was marked on the ground with spray paint using a color code established by the American Public Works Association. A site map with geophysical interpretation of the area investigated is presented in Figure 2. Drilling and excavation activities should be kept a minimum of two feet away from detected utilities.

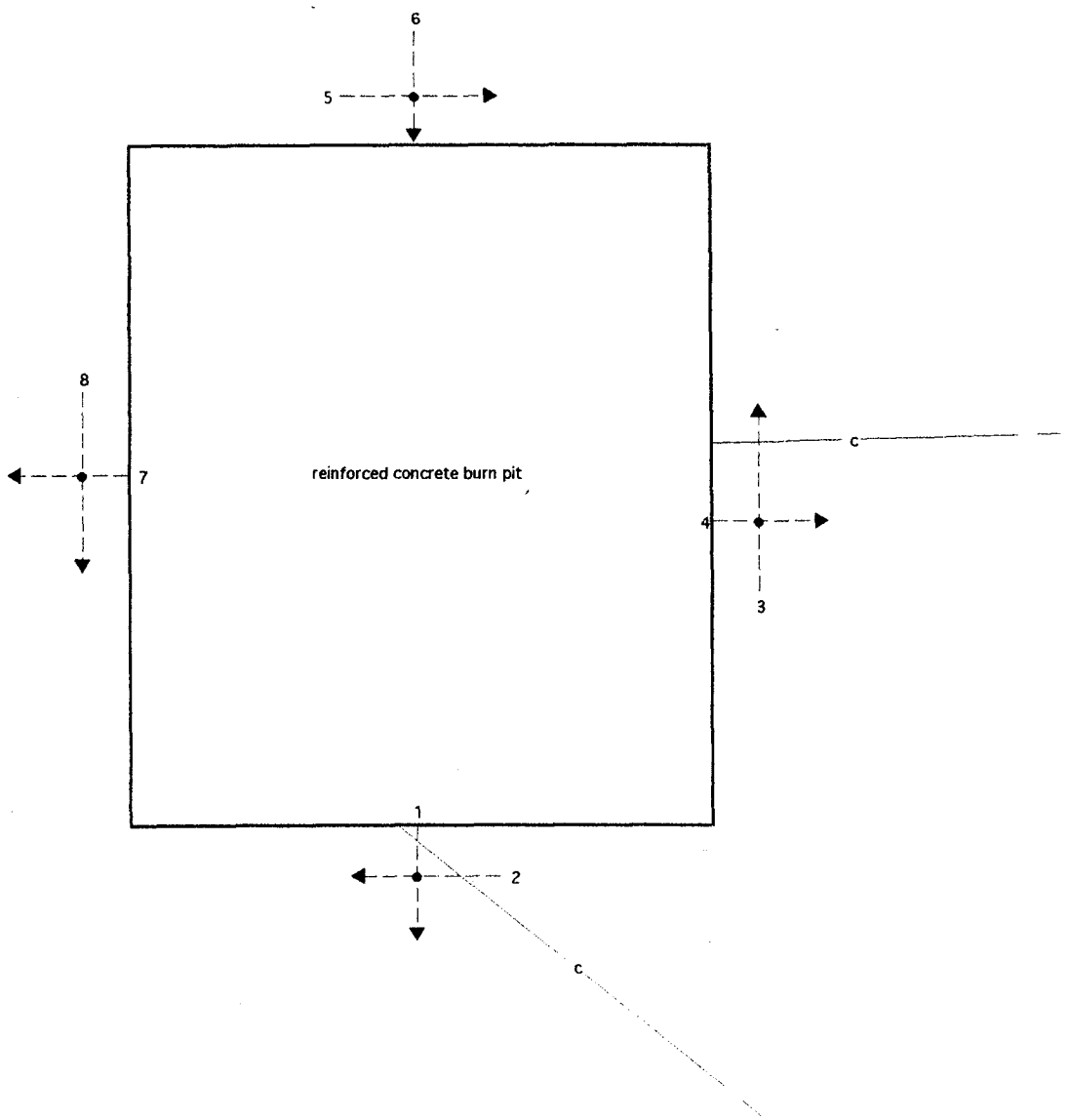
The penetration depth of the GPR signal was approximately 1 foot in the area investigated. As a consequence, some subsurface utilities may not have been detected due to the shallow penetration of the GPR. Because of this limitation, Spectrum cannot guarantee that all nonmetallic conduits, such as sewers and pvc water lines, have been identified within the area of investigation.

One technique that allows for higher resolution of the GPR signal as well as deeper penetration involves the use of a GSSI SIR-10A GPR unit coupled to a bi-static antenna array. This arrangement uses two coupled antennas to achieve greater resolution and deeper penetration depending on the near-surface soils. Although more expensive, this system is ideal for areas where deeper penetration is needed to locate utilities or USTs.

Base utility maps for this area are included in Appendix A.

FIGURE 1
AREA OF SUBSURFACE INVESTIGATION
MCS B2 - INACTIVE BURN PIT
MCAS EL TORO
IRVINE, CALIFORNIA

SPECTRUM-GASCH
GEOPHYSICS
15260 Sky High Road, Escondido, CA 92025



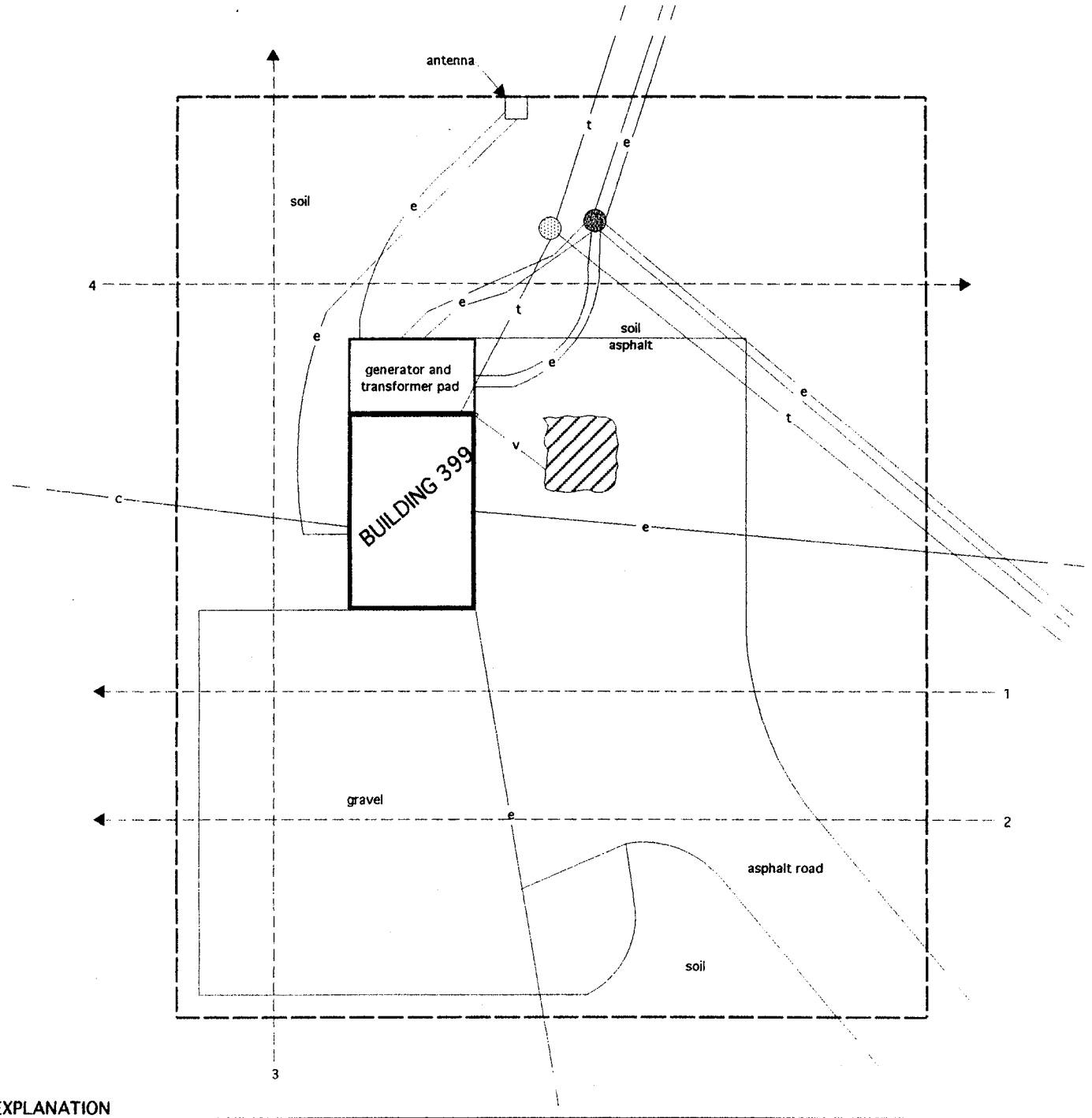
EXPLANATION

1 ---▶ GPR traverse with number • Proposed borings	CONDUITS — c — Conduit ——— Trend continues	N 0 10 20 One inch equals approximately 20 feet	Project Number: 9905182F Date of Investigation: May 18, 1999 Map by J. Pfoser

Not all below ground facilities may be represented on this map

FIGURE 2
AREA OF SUBSURFACE INVESTIGATION
BUILDING 399 - VOR
MCAS EL TORO
IRVINE, CALIFORNIA

SPECTRUM-GASCH
GEOPHYSICS
15260 Sky High Road, Escondido, CA 92025



EXPLANATION

Area of subsurface investigation	CONDUITS		
Telephone Vault	c	Conduit	
Electric vault	e	Electric	
1 GPR traverse with number	t	Telephone	
UST excavation	v	Vent	
		Trend continues	

N

0 10 20
One inch equals approximately 20 feet

Project Number: 9905182F
Date of Investigation: May 18, 1999
Map by J. Pfoser

Not all below ground facilities may be represented on this map

IT Corporation
1230 Columbia Street, Suite 1200
San Diego, CA 92101-8517
Tel. 619.239.1690
Fax. 619.239.1238

A Member of The IT Group

Appendix A

Intentionally not submitted by IT Corporation.

Appendix F
Field Soil Boring Logs

OHM Remediation Services Corp.

Geologic Log

BOREHOLE No. MSC-B2-SB01
Sheet 1 of 3

PROJECT No. 20242 DATE 5-27-99
CLIENT SWDIV
LOCATION Burn Pit Site (MSC B2), MCAS, El Toro
LOGGED BY A. Siddiqui

Drilling Co. BC²
Drill rig model CME 75
Driller Cameron
Drilling method HSA. Hole dia. 8"
Boring completion data grouted to surface

Depth to water				
Time	not Encountered			
Date				

Time	PID/FID HNu/OVA (ppm)	Blows/6 in. or Pressure (psi)	Recovery (in/ft)	Sample Number	Depth	Sample Interval	Well Detail	Soil/Rock Symbol	Graphic Log	FIELD SOIL DESCRIPTION
										6" asphalt at surface. Top 15' Hand augered
				20242-820						
0917		10	3		15					Poorly Graded sand with gravel
		17	6					SP		Yellowish Brown (10YR5/4),
		21	6	X	16½					90% fine to medium grained sand, 10% fine to coarse subrounded gravel (max 3/4"), trace fines, slightly moist, medium dense. No odor.
0922		15	0		20					No Recovery
		21	4							
		24	4		21½					
				20242-821						
0927	2000	10	6		25					
		10	6					SP		Same as above
		27	6	X	26½			SM		Silty Sand: Dark yellowish Brown (10YR3/6), 70% fine sand 30% low plastic fines, slightly moist, med. dense, No odor
										25
0932		17	6		30			ML		Silt: Dark yell. Brown (10YR3/4), 90% low to med. plastic fines, 10% fine sand, moist, Hard.
		21	6							
		23	6		31½					

OHM REMEDIATION SERVICES CORP.

LOCATION: MCAS El Toro

DATE: 5/27/99

BOREHOLE NUMBER: MSC DB2-SB01

SHEET 2 OF ___

TIME	DEPTH	PID/FID HNU OVA (PPM)	BLOWS/ 6 IN PRESSURE (PSI)	RECOVERY	SAMPLE NUMBER	SAMPLE INTERVAL	WELL DETAIL	SOIL/ROCK SYSMBOL	GRAPHIC LOG	FIELD SOIL DESCRIPTION
										37'
0936			12 17 25	6 6 6	40' 41½	X		SM		Silty sand. Dark. Yel. Brn. (10YR 3/6), 60%, fine sand, 40%, low to med. plast. fines, slty moist, med. dense.
		X 20242-822								interfingering ML/SM
										45'
0949			10 19 27	6 6 6	50 51½	X		ML		Sandy silt. DK yell. Brn. (10YR 4/6), 70%, low plastic fines, 30% v. fine sand, slty moist, hard. No odor.
										interfingering ML/SM
1001			18 27 33	6 6 6	60 60½	X		ML		Sandy silt. DK Yel. Brn. (10YR 3/6), 85%, low-M. P. fines, 15%, v. F. sand, slty moist, hard. interbedded w/ sand lenses.
										66'
1010			14 29 38	6 6 6	70 71½	X		SP		Poorly Graded sand, Yel. Brn (10YR 5/4), 95%, F-M sand, <5% fines. Slty moist. dense.
										auger shake & chatter 84' – 86' gravels sub-angular to subrounded up to 1" show up in cuttings.
										87'
1026			15 26 31	6 6 6	90 90½	X		ML		Sandy silt. DK. Yel. Brn (10YR 3/6), 90% low plastic fines, 10% v. fine sand, slty moist, hard.

OHM
REMEDIATION
SERVICES CORP.

LOCATION: MCAS, EL TORO
DATE: 5/27/99

BOREHOLE NUMBER: MSC B2-SB01
SHEET 3 OF 3

TIME	DEPTH	PID/FID HNU OVA (PPM)	BLOWS/ 6 IN PRESSURE (PSI)	RECOVERY	SAMPLE NUMBER	SAMPLE INTERVAL	WELL DETAIL	SOIL/ROCK SYSMBOL	GRAPHIC LOG	FIELD SOIL DESCRIPTION
	20-22									
1041		30	22		99½					Sandy silt, Olive Brn (2.5Y 4/4)
			29					ML		90% low p. fine, 10% V.F. sand,
	X	/	32		X					silty moist, hard.
					101					

9 Samples

4 w/ sleeve

10th @ 20' no recovery

11th @ 80' not collected Driller forgot.

<C:/EXCEL/Borelog.xls>

OHM Remediation Services Corp.

Geologic Log

BOREHOLE No. MSCB2-SB02
Sheet 1 of 1

PROJECT No. 920242 DATE 5/27/99
CLIENT SWDIV
LOCATION Burn Pit, MCAS, El Toro
LOGGED BY A. SIDDIQUI

Drilling Co. BC² Environmental
Drill rig model CME 75
Driller Cameron
Drilling method HSA Hole dia. 8"

Boring completion data grouted to surface

Depth to water				
Time	Not	Encountered		
Date				

Time	PID/FID HNu/OVA (ppm)	Blows/6 in. or Pressure (psi)	Recovery (ft/ft)	Sample Number	Depth	Sample Interval	Well Detail	Soil/Rock Symbol	Graphic Log	FIELD SOIL DESCRIPTION
										Top 6" asphalt
				824						Top 14 feet Hand auger.
				202						
1422	3.0	10	6	202			14½'	SM		Silty Sand, Dark yellowish Brown (10YR 4/4) 80% fine sand, 20% fines, slightly moist, med. dense.
		17	6							
		30	6	X			16'			
							18'			18
1426	0	14	6	826			19½	SP-SM		Poorly Graded Sand with silt Brown (10YR 4/3), 90% fine sand, 10% fines, slightly moist, dense.
		23	6	X						
		29	6	X			21			
				825						
							27'			27
1431	20	15	6				29½	ML		Sandy Silt, - Dk. yel. Brown (10YR 3/4) 70% low plastic fines, 30% very fine sand, slightly moist, hard.
		17	6							
		27	6				31			
										Rigs Hammer swivel Broke. at 40'.
12/27/99				837						
12/28/99				202						
1705		13	6				51½	ML		Sandy silt -, Dk. yel. Brn (10YR 3/4), 70% median plastic fine, 30% fine sand, slightly moist, hard.
		18	6							
		26	6	X			53'			
										T-D.

OHM Remediation Services Corp.

Geologic Log

BOREHOLE No. MSCB2-SB03
Sheet 1 of 2

PROJECT No. 920242 DATE 5-28-99
CLIENT SWDIV
LOCATION MCSB2 (Burn Pit), MCAS, EC Tort.
LOGGED BY A. SIDDIQUY

Drilling Co. BC2
Drill rig model CME 85
Driller Ramon
Drilling method HSA Hole dia. 8".
Boring completion data grouted to surface

Depth to water			
Time	Not	Encountered	
Date			

Time	PID/FID HNu/OVA (ppm)	Blows/6 in. or Pressure (psi)	Recovery (ft/ft)	Sample Number	Depth	Sample Interval	Well Detail	Soil/Rock Symbol	Graphic Log	FIELD SOIL DESCRIPTION
										Top 6" asphalt. Top 15 feet Hand augered. PID is not working.
0820		7 11 14	6 6 6	0820-827 X	15 16½'	X		SP		Poorly Graded Sand, - Dk yel. Brn (10YR 3/6), 95% fine sand, 25% fines, trace subrounded gravel composed of silt stone, sltly moist, med. dense.
0825		11 13 17	6 6 6	0825-828 X	20 21½	X		SP		Poorly Graded sand, Yel. Brn (10YR 5/4) 95% fine to med. to coarse sand, (mostly fine) 25% fines, sltly moist, med. dense, at places grades ~~to~~ into SW. in the shoe of sampler well sorted silty sand.
0834		13 17 19	6 6 6		30 31½'	X		ML		Sandy Silt, Brown (7.5YR 4/4), 90% med. plastic fines, 10% v. fine sand, sltly moist, hard. some clay wt
0843		11 15 21	6 6 6		40 41½'	X		SM		Silty Sand - Brown (7.5YR 4/4), ~~10YR 4/4~~ 80% fine sand, 20% fines, sltly moist, Med-dense,

OHM
REMEDIATION
SERVICES CORP.

LOCATION: MCAS Tel Toro
DATE: 5-28-99

BOREHOLE NUMBER: MSCB2-SB03
SHEET 2 OF 2

TIME	DEPTH	PID/FID HNU OVA (PPM)	BLOWS/6 IN PRESSURE (PSI)	RECOVERY	SAMPLE NUMBER	SAMPLE INTERVAL	WELL DETAIL	SOIL/ROCK SYSMBOL	GRAPHIC LOG	FIELD SOIL DESCRIPTION
					82 9					
0850			15	6	50		50	ML		~~Sandy Silt~~
			21	6						
			25	6	X		51½	SM		Silty Sand - Dk Yell. Brown, (10YR 3/6) 70%. F. sand 30% low to med. plastic fines, slty moist, med dense. interbedded with sandy silt 51'
0903			13	6	60			ML		Sandy Silts - Dk Yel. Brn. (10YR 4/4) 60%. non plastic fine. 40% v. fine sand, slty moist, hard. interbedded w/ SM.
			16	6						
			22	6	61½					
0916			17	6	70			ML		Sandy Silt - Dk Yel. Brn (10YR 4/4), 75% low p. fines 25% v. fine sand, slty moist, hard. interbedded w/ SM. Caliche at places.
			20	6						
			44	6	71½					
0930			18	6	80			SM		Silty Sand - Dk. Yel. Brn (10YR 4/6) 70%. v. fine sand, 30% non-plastic fines. slty moist, dense.
			24	6						
			30	6	81½					
0947			16	6	90			SM		Silty Sand - Dk Yel. Brn. (10YR 3/6) 75% v. fine sand. 25% low to med. plastic fines, slty moist, dense, interbedded w/ sandy silt.
			21	6						
			32	6	91½					
1035			16	6	100		100	SM		Silty Sand Dk. Yel. Brn (10YR 3/4), 60% v. fine sand 40% low-med. plastic fines, slty moist, dense
			26	6						
			37	6	X		101½			

OHM Remediation Services Corp.

Geologic Log

BOREHOLE No. MSCB2-SB04
Sheet ____ of ____

PROJECT No. 20242 DATE 5/28/99
CLIENT SWDIV
LOCATION Burn Pit, MCAS, El Toro
LOGGED BY A. Siddiqui

Drilling Co. BC2 Environmental Corp.
Drill rig model CME 85
Driller Ramon
Drilling method HSA Hole dia. 8"
Boring completion data grouted to surface

Depth to water				
Time	NA	[illegible]		
Date				

Time	PID/FID HNu/OVA (ppm)	Blows/6 in. or Pressure (psi)	Recovery (ft/ft)	Sample Number	Depth	Sample Interval	Well Detail	Soil/Rock Symbol	Graphic Log	FIELD SOIL DESCRIPTION
				20242-833						6-inch asphalt at surface. Top 14-feet hand augered.
		10	6				15	SP		Poorly Graded Sand, Yell. Brown (10YR 5/4), 95% fine to medium sand, trace fine sub angular gravel, <5% fines, slightly moist, medium dense.
1515		13	6	X						
1512		17	6	X			16½'			
				832						
1523		12	6	834			20	SP		Poorly Graded Sand, - Yell. Brown (10YR 5/4), 95% fine to medium sand, 5% fine sub angular to sub rounded gravel (15 m.m max), slightly moist, trace fines, dense.
		19	6							
		34	4	X			21½'			
1545		8	6	835			50	ML		Sandy silt, - Dark yell. Brown (10YR 3/4), 80% medium plastic fines, 20% fine sand, slightly moist, very stiff.
		12	6							
		21	6	X			51½			
1655		17	6	836			99	ML		Sandy silt, - Dark yell. Brown (10YR 3/4), 85% med. plastic fines, 15% fine sand, slightly moist, hard.
		21	6							
		29	6	X			100½'			

T.D. 100½'

Appendix G
Laboratory Analytical Reports

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

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

BURN PIT #2 222520
NBS-0200/230 FORM 0019 REV. 2-97

OHM's LAB COORDINATOR: Dwayne Ishida	LAB COORDINATOR'S PHONE: (949) 660-7561	LAB COORDINATOR'S FAX: (949) 475-5433	LABORATORY SERVICE ID: 993897	LABORATORY CONTACT:	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: Burn Pit #2	PROJECT LOCATION: MCS Burn Pit #2	PROJECT NUMBER: 20242	LABORATORY PHONE:	LABORATORY FAX:	RECIPIENT NAME: Dwayne Ishida
PROJECT CONTACT: Lisa Bienkowski	PROJECT PHONE NUMBER: (949) 660-7537	PROJECT FAX: (949) 475-5433	LABORATORY ADDRESS: APCL		ADDRESS: 3347 Michelson Dr #200
PROJECT ADDRESS: MCAS El Toro	CITY, STATE AND ZIPCODE: El Toro, CA	CLIENT: SWDIV	CITY, STATE AND ZIPCODE: Chino Hills, CA		CITY, STATE, AND ZIPCODE: Irvine, CA 92612
PROJECT MANAGER: Bill Sedlak	PROJECT MANAGER'S PHONE: (949) 261-1661	PROJECT MANAGER'S FAX:			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: TPH-ext (JP5)	8260 + MTBE	T22 Metals	Comments: APCL
1	20242-819	W	5/27/99	0800	4°C/HCl	2	III	5d		X		
2	20242-820	S	↓	0917	4°C	1	↓	↓	X	X	X	
3	20242-821	S	↓	0927	↓	1	↓	↓	X	X	X	
4	20242-822	S	↓	0950	↓	1	↓	↓	X	X	X	
5	20242-823	S	↓	1040	↓	1	↓	↓	X	X	X	
6	20242-824	S	5/27/99	1423	4°C	1	III	5d	X	X	X	
7	20242-825	S	↓	1428	↓	1	IV	↓	X	X	X	
8	20242-826	S	↓	1429	↓	1	IV	↓	X	X	X	
9												
10												

SAMPLES COLLECTED BY: D. Ishida

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	[signature]	5/27/99	[illegible]	
[signature]	[signature]	5/28/99	0800	
[signature]	[signature]	5/28/99	1705	

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

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

BURNPIT#2

Sample Point Location	Sample Type G	C	F	QC
(1) Trip Blank				X
(2) MSC-B2-SB01 @ 16'			X	
(3) @ 26'			X	
(4) @ 51'			X	
(5) @ 101'			X	
(6) MSC-B2-SB02 @ 15.5'			X	
(7) @ 20.5'			X	
(8) @ 20'			FD	X
(9) na				
(10)				

Comments

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

993897

COMPLETED BW 6-4

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

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY
218439
FORM 0019 REV. 2-97

BURN PIT #2

OHM's LAB COORDINATOR: LISA BIENKOWSKI	LAB COORDINATOR'S PHONE: 949-660-7561	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 993897	LABORATORY CONTACT: JIM LIN	MAIL REPORT (COMPANY NAME): IT GROUP
PROJECT NAME: BURN PIT #2	PROJECT LOCATION: MCAS BURN PIT #2	PROJECT NUMBER: 20242	LABORATORY PHONE: 909-590-1828	LABORATORY FAX:	RECIPIENT NAME: DNA HNR ISHIDA
PROJECT CONTACT: LISA BIENKOWSKI	PROJECT PHONE NUMBER: 949-660-7561	PROJECT FAX: 949-475-5433	LABORATORY ADDRESS: 1360 MAGNOLIA AVE		ADDRESS: 3347 MICHELSON STR 200
PROJECT ADDRESS: MCAS EL TORO	CITY, STATE AND ZIPCODE: EL TORO CA	CLIENT: SWPIV	CITY, STATE AND ZIPCODE: CHINO, CA.		CITY, STATE, AND ZIPCODE: IRVINE, CA.
PROJECT MANAGER: BILL SKOLAK	PROJECT MANAGER'S PHONE: 949-261-6441	PROJECT MANAGER'S FAX: —			

WBS-02001230

Item	Sample Identifier	Matrix	Date 1999	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: TPH-EXT (SPS)	8260 LMTBE	722 METALS					Comments
1	20242-827	S	5-28	0825	4°C	1	III	5DA	X	X	X					
2	20242-828	S	5-28	0830	4°C	1	III	5DA	X	X	X					
3	20242-829	S	5-28	0850	4°C	1	III	5DA	X	X	X					
4	20242-830	S	5-28	1030	4°C	1	III	5DA	X	X	X					
5	20242-831	W	5-28	1400	HCL HNO3	6	III	5DA	X	X	X					
6	20242-832	S	5-28	1512	4°C	1	III	5DA	X	X	X					
7	20242-833	S	5-28	1515	4°C	1	IV	5DA	X	X	X					
8	20242-834	S	5-28	1523	4°C	1	III	5DA	X	X	X					
9	20242-835	S	5-28	1545	4°C	1	III	5DA	X	X	X					
10	20242-836	S	5-28	1655	4°C	1	III	5DA	X	X	X					
	20242-837	S	5-28	1700	4°C	1	III	5DA	X	X	X					

SAMPLE SLEEVE FROM 'X'

SAMPLES COLLECTED BY: C. PARRISH
COURIER AND AIR BILL NUMBER: COURIER
COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Cary Parrish	[signature]	5-28-99	1705	

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

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

BURN PIT #2

Sample Point Location	Sample Type: G	C	F	QC
1. MSC-B2-SB03 @ 16.5	X			
2. @ 21.5	X			
3. @ 51.5	X			
4. @ 101.5	X			
~~5. MSC-B2-SB0 @ 16.5~~				
~~6. DUPLICATE OF B2 @ 16~~				
5. EQ RINSATE	X			X
6. MSC B2-SB04 @ 16.5	X			
7. DUPLICATE OF B32 @ 16.0	X			X
8. MSC-B2-SB04 @ 21.5	X			
9. " @ 51.5	X			
10. " @ 100.5	X			
11. MSC-B2-SB02 @ 52.5	X			

Comments

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

993897

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-2	Received Date:	05/28/1999
Sample ID:	**20242-820**	Sample Matrix	Soil	Moisture %:	4.4
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2898	Prep. No:	-	Anal. Time:	15:30
Data File Name:	3897-02	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	52	<52	U
2	BENZENE	71-43-2	µg/kg	5.2	<5.2	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.2	<5.2	U
4	BROMOFORM	75-25-2	µg/kg	5.2	<5.2	U
5	BROMOMETHANE	74-83-9	µg/kg	5.2	<5.2	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	52	<52	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5.2	<5.2	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.2	<5.2	U
9	CHLOROBENZENE	108-90-7	µg/kg	5.2	<5.2	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.2	<5.2	U
11	CHLOROETHANE	75-00-3	µg/kg	5.2	<5.2	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	52	<52	U
13	CHLOROFORM	67-66-3	µg/kg	5.2	<5.2	U
14	CHLOROMETHANE	74-87-3	µg/kg	5.2	<5.2	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.2	<5.2	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.2	<5.2	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.2	<5.2	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.2	<5.2	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.2	<5.2	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.2	<5.2	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.2	<5.2	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.2	<5.2	U
23	ETHYLBENZENE	100-41-4	µg/kg	5.2	<5.2	U
24	2-HEXANONE	591-78-6	µg/kg	52	<52	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5.2	<5.2	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	52	<52	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	10	<10	U
28	STYRENE	100-42-5	µg/kg	5.2	<5.2	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.2	<5.2	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5.2	<5.2	U
31	TOLUENE	108-88-3	µg/kg	5.2	<5.2	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.2	<5.2	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.2	<5.2	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5.2	<5.2	U
35	VINYL ACETATE	108-05-4	µg/kg	52	<52	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5.2	<5.2	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	16	<16	U

Surrogates	Control Limit, %	Surro. Rec.%

105423

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	98
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	99
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	83
4	TOLUENE-D8	2037-26-5	80-119	112
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	101
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	89
3	FLUOROBENZENE	462-06-6	50-200	114
# of out-of-control				0

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

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

105424

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-3	Received Date:	05/28/1999
Sample ID:	**20242-821**	Sample Matrix	Soil	Moisture %:	14.3
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2898	Prep. No:	-	Anal. Time:	15:57
Data File Name:	3897-03	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	58	<58	U
2	BENZENE	71-43-2	µg/kg	5.8	<5.8	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.8	<5.8	U
4	BROMOFORM	75-25-2	µg/kg	5.8	<5.8	U
5	BROMOMETHANE	74-83-9	µg/kg	5.8	<5.8	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	58	<58	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5.8	<5.8	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.8	<5.8	U
9	CHLOROBENZENE	108-90-7	µg/kg	5.8	<5.8	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.8	<5.8	U
11	CHLOROETHANE	75-00-3	µg/kg	5.8	<5.8	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	58	<58	U
13	CHLOROFORM	67-66-3	µg/kg	5.8	<5.8	U
14	CHLOROMETHANE	74-87-3	µg/kg	5.8	<5.8	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.8	<5.8	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.8	<5.8	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.8	<5.8	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.8	<5.8	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.8	<5.8	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.8	<5.8	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.8	<5.8	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.8	<5.8	U
23	ETHYLBENZENE	100-41-4	µg/kg	5.8	<5.8	U
24	2-HEXANONE	591-78-6	µg/kg	58	<58	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5.8	<5.8	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	58	<58	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	12	<12	U
28	STYRENE	100-42-5	µg/kg	5.8	<5.8	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.8	<5.8	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5.8	<5.8	U
31	TOLUENE	108-88-3	µg/kg	5.8	<5.8	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.8	<5.8	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.8	<5.8	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5.8	<5.8	U
35	VINYL ACETATE	108-05-4	µg/kg	58	<58	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5.8	<5.8	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	18	<18	U

Surrogates	Control Limit, %	Surro. Rec.%

105425

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	96
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	98
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	83
4	TOLUENE-D8	2037-26-5	80-119	109
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	100
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	87
3	FLUOROBENZENE	462-06-6	50-200	110
# of out-of-control				0

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

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

105426

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-4	Received Date:	05/28/1999
Sample ID:	**20242-822**	Sample Matrix	Soil	Moisture %:	12.5
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2898	Prep. No:	–	Anal. Time:	20:31
Data File Name:	3897-04A	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	57	11	J
2	BENZENE	71-43-2	µg/kg	5.7	<5.7	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.7	<5.7	U
4	BROMOFORM	75-25-2	µg/kg	5.7	<5.7	U
5	BROMOMETHANE	74-83-9	µg/kg	5.7	<5.7	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	57	<57	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5.7	<5.7	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.7	<5.7	U
9	CHLOROBENZENE	108-90-7	µg/kg	5.7	<5.7	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.7	<5.7	U
11	CHLOROETHANE	75-00-3	µg/kg	5.7	<5.7	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	57	<57	U
13	CHLOROFORM	67-66-3	µg/kg	5.7	<5.7	U
14	CHLOROMETHANE	74-87-3	µg/kg	5.7	<5.7	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.7	<5.7	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.7	<5.7	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.7	<5.7	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.7	<5.7	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.7	<5.7	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.7	<5.7	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.7	<5.7	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.7	<5.7	U
23	ETHYLBENZENE	100-41-4	µg/kg	5.7	<5.7	U
24	2-HEXANONE	591-78-6	µg/kg	57	<57	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5.7	<5.7	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	57	<57	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	<11	U
28	STYRENE	100-42-5	µg/kg	5.7	<5.7	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.7	<5.7	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5.7	<5.7	U
31	TOLUENE	108-88-3	µg/kg	5.7	<5.7	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.7	<5.7	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.7	<5.7	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5.7	<5.7	U
35	VINYL ACETATE	108-05-4	µg/kg	57	<57	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5.7	<5.7	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	17	<17	U

Surrogates	Control Limit, %	Surro. Rec.%

105427

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	92
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	103
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	97
4	TOLUENE-D8	2037-26-5	80-119	99
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	74
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	52
3	FLUOROBENZENE	462-06-6	50-200	77
# of out-of-control				0

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

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

105428

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-5	Received Date:	05/28/1999
Sample ID:	**20242-823**	Sample Matrix	Soil	Moisture %:	12.3
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2898	Prep. No:	–	Anal. Time:	16:52
Data File Name:	3897-05	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	57	<57	U
2	BENZENE	71-43-2	µg/kg	5.7	<5.7	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.7	<5.7	U
4	BROMOFORM	75-25-2	µg/kg	5.7	<5.7	U
5	BROMOMETHANE	74-83-9	µg/kg	5.7	<5.7	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	57	<57	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5.7	<5.7	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.7	<5.7	U
9	CHLOROBENZENE	108-90-7	µg/kg	5.7	<5.7	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.7	<5.7	U
11	CHLOROETHANE	75-00-3	µg/kg	5.7	<5.7	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	57	<57	U
13	CHLOROFORM	67-66-3	µg/kg	5.7	<5.7	U
14	CHLOROMETHANE	74-87-3	µg/kg	5.7	<5.7	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.7	<5.7	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.7	<5.7	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.7	<5.7	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.7	<5.7	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.7	<5.7	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.7	<5.7	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.7	<5.7	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.7	<5.7	U
23	ETHYLBENZENE	100-41-4	µg/kg	5.7	<5.7	U
24	2-HEXANONE	591-78-6	µg/kg	57	<57	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5.7	<5.7	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	57	<57	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	<11	U
28	STYRENE	100-42-5	µg/kg	5.7	<5.7	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.7	<5.7	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5.7	<5.7	U
31	TOLUENE	108-88-3	µg/kg	5.7	<5.7	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.7	<5.7	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.7	<5.7	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5.7	<5.7	U
35	VINYL ACETATE	108-05-4	µg/kg	57	<57	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5.7	<5.7	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	17	<17	U

Surrogates	Control Limit, %	Surro. Rec.%

105429

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	104
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	107
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	96
4	TOLUENE-D8	2037-26-5	80-119	116
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	80
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	65
3	FLUOROBENZENE	462-06-6	50-200	86
# of out-of-control				0

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

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

105430

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-6	Received Date:	05/28/1999
Sample ID:	**20242-824**	Sample Matrix	Soil	Moisture %:	9.9
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2898	Prep. No:	–	Anal. Time:	20:58
Data File Name:	3897-06A	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) Y	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	55	<55	U
2	BENZENE	71-43-2	µg/kg	5.5	<5.5	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.5	<5.5	U
4	BROMOFORM	75-25-2	µg/kg	5.5	<5.5	U
5	BROMOMETHANE	74-83-9	µg/kg	5.5	<5.5	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	55	<55	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5.5	<5.5	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.5	<5.5	U
9	CHLOROBENZENE	108-90-7	µg/kg	5.5	<5.5	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.5	<5.5	U
11	CHLOROETHANE	75-00-3	µg/kg	5.5	<5.5	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	55	<55	U
13	CHLOROFORM	67-66-3	µg/kg	5.5	<5.5	U
14	CHLOROMETHANE	74-87-3	µg/kg	5.5	<5.5	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.5	<5.5	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.5	<5.5	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.5	<5.5	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.5	<5.5	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.5	<5.5	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.5	<5.5	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.5	<5.5	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.5	<5.5	U
23	ETHYLBENZENE	100-41-4	µg/kg	5.5	<5.5	U
24	2-HEXANONE	591-78-6	µg/kg	55	<55	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5.5	<5.5	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	55	<55	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	<11	U
28	STYRENE	100-42-5	µg/kg	5.5	<5.5	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.5	<5.5	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5.5	<5.5	U
31	TOLUENE	108-88-3	µg/kg	5.5	<5.5	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.5	<5.5	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.5	<5.5	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5.5	<5.5	U
35	VINYL ACETATE	108-05-4	µg/kg	55	<55	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5.5	<5.5	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	17	<17	U

Surrogates	Control Limit, %	Surro. Rec.%

105431

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	103
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	110
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	100
4	TOLUENE-D8	2037-26-5	80-119	108
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	77
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	55
3	FLUOROBENZENE	462-06-6	50-200	80
# of out-of-control				0

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

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

105432

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-7	Received Date:	05/28/1999
Sample ID:	**20242-825**	Sample Matrix	Soil	Moisture %:	13.2
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2898	Prep. No:	–	Anal. Time:	21:26
Data File Name:	3897-07A	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	58	15	J
2	BENZENE	71-43-2	µg/kg	5.8	<5.8	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.8	<5.8	U
4	BROMOFORM	75-25-2	µg/kg	5.8	<5.8	U
5	BROMOMETHANE	74-83-9	µg/kg	5.8	<5.8	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	58	<58	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5.8	<5.8	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.8	<5.8	U
9	CHLOROBENZENE	108-90-7	µg/kg	5.8	<5.8	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.8	<5.8	U
11	CHLOROETHANE	75-00-3	µg/kg	5.8	<5.8	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	58	<58	U
13	CHLOROFORM	67-66-3	µg/kg	5.8	<5.8	U
14	CHLOROMETHANE	74-87-3	µg/kg	5.8	<5.8	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.8	<5.8	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.8	<5.8	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.8	<5.8	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.8	<5.8	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.8	<5.8	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.8	<5.8	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.8	<5.8	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.8	<5.8	U
23	ETHYLBENZENE	100-41-4	µg/kg	5.8	<5.8	U
24	2-HEXANONE	591-78-6	µg/kg	58	<58	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5.8	<5.8	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	58	<58	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	12	<12	U
28	STYRENE	100-42-5	µg/kg	5.8	<5.8	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.8	<5.8	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5.8	<5.8	U
31	TOLUENE	108-88-3	µg/kg	5.8	<5.8	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.8	<5.8	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.8	<5.8	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5.8	<5.8	U
35	VINYL ACETATE	108-05-4	µg/kg	58	<58	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5.8	<5.8	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	17	<17	U

Surrogates	Control Limit, %	Surro. Rec.%

105433

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	92
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	102
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	96
4	TOLUENE-D8	2037-26-5	80-119	97
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	78
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	58
3	FLUOROBENZENE	462-06-6	50-200	82
# of out-of-control				0

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

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

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-8	Received Date:	05/28/1999
Sample ID:	**20242-826**	Sample Matrix	Soil	Moisture %:	8.6
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2898	Prep. No:	–	Anal. Time:	18:14
Data File Name:	3897-08	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	55	<55	U
2	BENZENE	71-43-2	µg/kg	5.5	<5.5	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.5	<5.5	U
4	BROMOFORM	75-25-2	µg/kg	5.5	<5.5	U
5	BROMOMETHANE	74-83-9	µg/kg	5.5	<5.5	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	55	<55	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5.5	<5.5	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.5	<5.5	U
9	CHLOROBENZENE	108-90-7	µg/kg	5.5	<5.5	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.5	<5.5	U
11	CHLOROETHANE	75-00-3	µg/kg	5.5	<5.5	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	55	<55	U
13	CHLOROFORM	67-66-3	µg/kg	5.5	<5.5	U
14	CHLOROMETHANE	74-87-3	µg/kg	5.5	<5.5	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.5	<5.5	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.5	<5.5	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.5	<5.5	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.5	<5.5	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.5	<5.5	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.5	<5.5	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.5	<5.5	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.5	<5.5	U
23	ETHYLBENZENE	100-41-4	µg/kg	5.5	<5.5	U
24	2-HEXANONE	591-78-6	µg/kg	55	<55	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5.5	<5.5	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	55	<55	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	<11	U
28	STYRENE	100-42-5	µg/kg	5.5	<5.5	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.5	<5.5	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5.5	<5.5	U
31	TOLUENE	108-88-3	µg/kg	5.5	<5.5	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.5	<5.5	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.5	<5.5	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5.5	<5.5	U
35	VINYL ACETATE	108-05-4	µg/kg	55	<55	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5.5	<5.5	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	16	<16	U

Surrogates	Control Limit, %	Surro. Rec.%

105437

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	103
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	99
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	95
4	TOLUENE-D8	2037-26-5	80-119	107
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	88
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	64
3	FLUOROBENZENE	462-06-6	50-200	95
# of out-of-control				0

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

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

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-9	Received Date:	05/28/1999
Sample ID:	**20242-827**	Sample Matrix	Soil	Moisture %:	5.7
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2898	Prep. No:	–	Anal. Time:	21:53
Data File Name:	3897-09A	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	53	<53	U
2	BENZENE	71-43-2	µg/kg	5.3	<5.3	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.3	<5.3	U
4	BROMOFORM	75-25-2	µg/kg	5.3	<5.3	U
5	BROMOMETHANE	74-83-9	µg/kg	5.3	<5.3	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	53	<53	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5.3	<5.3	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.3	<5.3	U
9	CHLOROBENZENE	108-90-7	µg/kg	5.3	<5.3	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.3	<5.3	U
11	CHLOROETHANE	75-00-3	µg/kg	5.3	<5.3	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	53	<53	U
13	CHLOROFORM	67-66-3	µg/kg	5.3	<5.3	U
14	CHLOROMETHANE	74-87-3	µg/kg	5.3	<5.3	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.3	<5.3	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.3	<5.3	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.3	<5.3	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.3	<5.3	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.3	<5.3	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.3	<5.3	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.3	<5.3	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.3	<5.3	U
23	ETHYLBENZENE	100-41-4	µg/kg	5.3	<5.3	U
24	2-HEXANONE	591-78-6	µg/kg	53	<53	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5.3	<5.3	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	53	<53	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	<11	U
28	STYRENE	100-42-5	µg/kg	5.3	<5.3	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.3	<5.3	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5.3	<5.3	U
31	TOLUENE	108-88-3	µg/kg	5.3	<5.3	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.3	<5.3	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.3	<5.3	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5.3	<5.3	U
35	VINYL ACETATE	108-05-4	µg/kg	53	<53	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5.3	<5.3	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	16	<16	U

Surrogates	Control Limit, %	Surro. Rec. %

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Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	98
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	109
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	105
4	TOLUENE-D8	2037-26-5	80-119	102
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	76
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	55
3	FLUOROBENZENE	462-06-6	50-200	76
# of out-of-control				0

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

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

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-10	Received Date:	05/28/1999
Sample ID:	**20242-828**	Sample Matrix	Soil	Moisture %:	23.0
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2898	Prep. No:	–	Anal. Time:	19:09
Data File Name:	3897-10	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	65	<65	U
2	BENZENE	71-43-2	µg/kg	6.5	<6.5	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	6.5	<6.5	U
4	BROMOFORM	75-25-2	µg/kg	6.5	<6.5	U
5	BROMOMETHANE	74-83-9	µg/kg	6.5	<6.5	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	65	<65	U
7	CARBON DISULFIDE	75-15-0	µg/kg	6.5	<6.5	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	6.5	<6.5	U
9	CHLOROBENZENE	108-90-7	µg/kg	6.5	<6.5	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	6.5	<6.5	U
11	CHLOROETHANE	75-00-3	µg/kg	6.5	<6.5	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	65	<65	U
13	CHLOROFORM	67-66-3	µg/kg	6.5	<6.5	U
14	CHLOROMETHANE	74-87-3	µg/kg	6.5	<6.5	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	6.5	<6.5	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	6.5	<6.5	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	6.5	<6.5	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	6.5	<6.5	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	6.5	<6.5	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	6.5	<6.5	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	6.5	<6.5	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	6.5	<6.5	U
23	ETHYLBENZENE	100-41-4	µg/kg	6.5	<6.5	U
24	2-HEXANONE	591-78-6	µg/kg	65	<65	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	6.5	<6.5	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	65	<65	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	13	<13	U
28	STYRENE	100-42-5	µg/kg	6.5	<6.5	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	6.5	<6.5	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	6.5	<6.5	U
31	TOLUENE	108-88-3	µg/kg	6.5	<6.5	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	6.5	<6.5	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	6.5	<6.5	U
34	TRICHLOROETHENE	79-01-6	µg/kg	6.5	<6.5	U
35	VINYL ACETATE	108-05-4	µg/kg	65	<65	U
36	VINYL CHLORIDE	75-01-4	µg/kg	6.5	<6.5	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	19	<19	U

Surrogates	Control Limit, %	Surro. Rec. %

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Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	105
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	100
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	92
4	TOLUENE-D8	2037-26-5	80-119	110
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	90
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	67
3	FLUOROBENZENE	462-06-6	50-200	99
# of out-of-control				0

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

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

105444

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-11	Received Date:	05/28/1999
Sample ID:	**20242-829**	Sample Matrix	Soil	Moisture %:	12.2
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2898	Prep. No:	–	Anal. Time:	19:36
Data File Name:	3897-11	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) Y	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	57	<57	U
2	BENZENE	71-43-2	µg/kg	5.7	<5.7	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.7	<5.7	U
4	BROMOFORM	75-25-2	µg/kg	5.7	<5.7	U
5	BROMOMETHANE	74-83-9	µg/kg	5.7	<5.7	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	57	<57	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5.7	<5.7	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.7	<5.7	U
9	CHLOROBENZENE	108-90-7	µg/kg	5.7	<5.7	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.7	<5.7	U
11	CHLOROETHANE	75-00-3	µg/kg	5.7	<5.7	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	57	<57	U
13	CHLOROFORM	67-66-3	µg/kg	5.7	<5.7	U
14	CHLOROMETHANE	74-87-3	µg/kg	5.7	<5.7	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.7	<5.7	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.7	<5.7	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.7	<5.7	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.7	<5.7	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.7	<5.7	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.7	<5.7	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.7	<5.7	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.7	<5.7	U
23	ETHYLBENZENE	100-41-4	µg/kg	5.7	<5.7	U
24	2-HEXANONE	591-78-6	µg/kg	57	<57	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5.7	<5.7	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	57	<57	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	<11	U
28	STYRENE	100-42-5	µg/kg	5.7	<5.7	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.7	<5.7	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5.7	<5.7	U
31	TOLUENE	108-88-3	µg/kg	5.7	<5.7	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.7	<5.7	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.7	<5.7	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5.7	<5.7	U
35	VINYL ACETATE	108-05-4	µg/kg	57	<57	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5.7	<5.7	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	17	<17	U

Surrogates	Control Limit, %	Surro. Rec. %

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105445

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	103
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	110
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	100
4	TOLUENE-D8	2037-26-5	80-119	107
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	76
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	54
3	FLUOROBENZENE	462-06-6	50-200	80
# of out-of-control				0

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

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

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-12	Received Date:	05/28/1999
Sample ID:	**20242-830**	Sample Matrix	Soil	Moisture %:	12.5
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2898	Prep. No:	–	Anal. Time:	20:04
Data File Name:	3897-12	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	57	< 57	U
2	BENZENE	71-43-2	µg/kg	5.7	< 5.7	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.7	< 5.7	U
4	BROMOFORM	75-25-2	µg/kg	5.7	< 5.7	U
5	BROMOMETHANE	74-83-9	µg/kg	5.7	< 5.7	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	57	< 57	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5.7	< 5.7	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.7	< 5.7	U
9	CHLOROBENZENE	108-90-7	µg/kg	5.7	< 5.7	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.7	< 5.7	U
11	CHLOROETHANE	75-00-3	µg/kg	5.7	< 5.7	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	57	< 57	U
13	CHLOROFORM	67-66-3	µg/kg	5.7	< 5.7	U
14	CHLOROMETHANE	74-87-3	µg/kg	5.7	< 5.7	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.7	< 5.7	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.7	< 5.7	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.7	< 5.7	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.7	< 5.7	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.7	< 5.7	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.7	< 5.7	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.7	< 5.7	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.7	< 5.7	U
23	ETHYLBENZENE	100-41-4	µg/kg	5.7	< 5.7	U
24	2-HEXANONE	591-78-6	µg/kg	57	< 57	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5.7	< 5.7	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	57	< 57	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	< 11	U
28	STYRENE	100-42-5	µg/kg	5.7	< 5.7	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.7	< 5.7	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5.7	< 5.7	U
31	TOLUENE	108-88-3	µg/kg	5.7	< 5.7	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.7	< 5.7	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.7	< 5.7	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5.7	< 5.7	U
35	VINYL ACETATE	108-05-4	µg/kg	57	< 57	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5.7	< 5.7	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	17	< 17	U

Surrogates	Control Limit, %	Surro. Rec. %

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Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	104
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	107
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	98
4	TOLUENE-D8	2037-26-5	80-119	109
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	79
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	58
3	FLUOROBENZENE	462-06-6	50-200	84
# of out-of-control				0

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

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

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-14	Received Date:	05/28/1999
Sample ID:	**20242-832**	Sample Matrix	Soil	Moisture %:	5.8
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2881	Prep. No:	–	Anal. Time:	01:10
Data File Name:	3897-14	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	53	< 53	U
2	BENZENE	71-43-2	µg/kg	5.3	< 5.3	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.3	< 5.3	U
4	BROMOFORM	75-25-2	µg/kg	5.3	< 5.3	U
5	BROMOMETHANE	74-83-9	µg/kg	5.3	< 5.3	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	53	< 53	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5.3	< 5.3	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.3	< 5.3	U
9	CHLOROBENZENE	108-90-7	µg/kg	5.3	< 5.3	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.3	< 5.3	U
11	CHLOROETHANE	75-00-3	µg/kg	5.3	< 5.3	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	53	< 53	U
13	CHLOROFORM	67-66-3	µg/kg	5.3	< 5.3	U
14	CHLOROMETHANE	74-87-3	µg/kg	5.3	< 5.3	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.3	< 5.3	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.3	< 5.3	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.3	< 5.3	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.3	< 5.3	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.3	< 5.3	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.3	< 5.3	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.3	< 5.3	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.3	< 5.3	U
23	ETHYLBENZENE	100-41-4	µg/kg	5.3	< 5.3	U
24	2-HEXANONE	591-78-6	µg/kg	53	< 53	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5.3	< 5.3	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	53	< 53	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	< 11	U
28	STYRENE	100-42-5	µg/kg	5.3	< 5.3	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.3	< 5.3	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5.3	< 5.3	U
31	TOLUENE	108-88-3	µg/kg	5.3	< 5.3	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.3	< 5.3	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.3	< 5.3	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5.3	< 5.3	U
35	VINYL ACETATE	108-05-4	µg/kg	53	< 53	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5.3	< 5.3	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	16	< 16	U

Surrogates	Control Limit, %	Surro. Rec. %

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Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	97
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	99
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	85
4	TOLUENE-D8	2037-26-5	80-119	111
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	87
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	80
3	FLUOROBENZENE	462-06-6	50-200	93
# of out-of-control				0

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

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

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-15	Received Date:	05/28/1999
Sample ID:	**20242-833**	Sample Matrix	Soil	Moisture %:	5.0
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2881	Prep. No:	–	Anal. Time:	01:38
Data File Name:	3897-15	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) Y	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	μg/kg	53	< 53	U
2	BENZENE	71-43-2	μg/kg	5.3	< 5.3	U
3	BROMODICHLOROMETHANE	75-27-4	μg/kg	5.3	< 5.3	U
4	BROMOFORM	75-25-2	μg/kg	5.3	< 5.3	U
5	BROMOMETHANE	74-83-9	μg/kg	5.3	< 5.3	U
6	2-BUTANONE (MEK)	78-93-3	μg/kg	53	< 53	U
7	CARBON DISULFIDE	75-15-0	μg/kg	5.3	< 5.3	U
8	CARBON TETRACHLORIDE	56-23-5	μg/kg	5.3	< 5.3	U
9	CHLOROBENZENE	108-90-7	μg/kg	5.3	< 5.3	U
10	DIBROMOCHLOROMETHANE	124-48-1	μg/kg	5.3	< 5.3	U
11	CHLOROETHANE	75-00-3	μg/kg	5.3	< 5.3	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	μg/kg	53	< 53	U
13	CHLOROFORM	67-66-3	μg/kg	5.3	< 5.3	U
14	CHLOROMETHANE	74-87-3	μg/kg	5.3	< 5.3	U
15	1,1-DICHLOROETHANE	75-34-3	μg/kg	5.3	< 5.3	U
16	1,2-DICHLOROETHANE	107-06-2	μg/kg	5.3	< 5.3	U
17	1,1-DICHLOROETHENE	75-35-4	μg/kg	5.3	< 5.3	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	μg/kg	5.3	< 5.3	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	μg/kg	5.3	< 5.3	U
20	1,2-DICHLOROPROPANE	78-87-5	μg/kg	5.3	< 5.3	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	μg/kg	5.3	< 5.3	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	μg/kg	5.3	< 5.3	U
23	ETHYLBENZENE	100-41-4	μg/kg	5.3	< 5.3	U
24	2-HEXANONE	591-78-6	μg/kg	53	< 53	U
25	METHYLENE CHLORIDE	75-09-2	μg/kg	5.3	< 5.3	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	μg/kg	53	< 53	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	μg/kg	11	< 11	U
28	STYRENE	100-42-5	μg/kg	5.3	< 5.3	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	μg/kg	5.3	< 5.3	U
30	TETRACHLOROETHENE	127-18-4	μg/kg	5.3	< 5.3	U
31	TOLUENE	108-88-3	μg/kg	5.3	< 5.3	U
32	1,1,1-TRICHLOROETHANE	71-55-6	μg/kg	5.3	< 5.3	U
33	1,1,2-TRICHLOROETHANE	79-00-5	μg/kg	5.3	< 5.3	U
34	TRICHLOROETHENE	79-01-6	μg/kg	5.3	< 5.3	U
35	VINYL ACETATE	108-05-4	μg/kg	53	< 53	U
36	VINYL CHLORIDE	75-01-4	μg/kg	5.3	< 5.3	U
37	XYLENES (TOTAL)	1330-20-7	μg/kg	16	< 16	U

Surrogates Control Limit, % Surro. Rec. %

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Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	97
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	99
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	88
4	TOLUENE-D8	2037-26-5	80-119	111
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	83
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	75
3	FLUOROBENZENE	462-06-6	50-200	87
# of out-of-control				0

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

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

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-16	Received Date:	05/28/1999
Sample ID:	**20242-834**	Sample Matrix	Soil	Moisture %:	3.8
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/07/99	Anal. Date:	06/07/99
Batch No:	99G2951	Prep. No:	–	Anal. Time:	19:18
Data File Name:	3897-16	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	52	45	J
2	BENZENE	71-43-2	µg/kg	5.2	<5.2	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.2	<5.2	U
4	BROMOFORM	75-25-2	µg/kg	5.2	<5.2	U
5	BROMOMETHANE	74-83-9	µg/kg	5.2	<5.2	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	52	<52	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5.2	<5.2	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.2	<5.2	U
9	CHLOROBENZENE	108-90-7	µg/kg	5.2	<5.2	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.2	<5.2	U
11	CHLOROETHANE	75-00-3	µg/kg	5.2	<5.2	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	52	<52	U
13	CHLOROFORM	67-66-3	µg/kg	5.2	<5.2	U
14	CHLOROMETHANE	74-87-3	µg/kg	5.2	<5.2	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.2	<5.2	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.2	<5.2	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.2	<5.2	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.2	<5.2	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.2	<5.2	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.2	<5.2	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.2	<5.2	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.2	<5.2	U
23	ETHYLBENZENE	100-41-4	µg/kg	5.2	<5.2	U
24	2-HEXANONE	591-78-6	µg/kg	52	25	J
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5.2	<5.2	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	52	<52	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	10	<10	U
28	STYRENE	100-42-5	µg/kg	5.2	<5.2	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.2	<5.2	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5.2	<5.2	U
31	TOLUENE	108-88-3	µg/kg	5.2	<5.2	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.2	<5.2	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.2	<5.2	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5.2	<5.2	U
35	VINYL ACETATE	108-05-4	µg/kg	52	<52	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5.2	<5.2	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	16	<16	U

Surrogates	Control Limit, %	Surr. Rec. %

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Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	90
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	105
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	91
4	TOLUENE-D8	2037-26-5	80-119	108
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	84
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	88
3	FLUOROBENZENE	462-06-6	50-200	79
# of out-of-control				0

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

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

105458

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-17	Received Date:	05/28/1999
Sample ID:	**20242-835**	Sample Matrix	Soil	Moisture %:	11.7
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2881	Prep. No:	–	Anal. Time:	02:32
Data File Name:	3897-17	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.					
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	57	<57	U
2	BENZENE	71-43-2	µg/kg	5.7	<5.7	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.7	<5.7	U
4	BROMOFORM	75-25-2	µg/kg	5.7	<5.7	U
5	BROMOMETHANE	74-83-9	µg/kg	5.7	<5.7	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	57	<57	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5.7	<5.7	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.7	<5.7	U
9	CHLOROBENZENE	108-90-7	µg/kg	5.7	<5.7	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.7	<5.7	U
11	CHLOROETHANE	75-00-3	µg/kg	5.7	<5.7	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	57	<57	U
13	CHLOROFORM	67-66-3	µg/kg	5.7	<5.7	U
14	CHLOROMETHANE	74-87-3	µg/kg	5.7	<5.7	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.7	<5.7	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.7	<5.7	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.7	<5.7	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.7	<5.7	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.7	<5.7	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.7	<5.7	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.7	<5.7	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.7	<5.7	U
23	ETHYLBENZENE	100-41-4	µg/kg	5.7	<5.7	U
24	2-HEXANONE	591-78-6	µg/kg	57	<57	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5.7	<5.7	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	57	<57	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	<11	U
28	STYRENE	100-42-5	µg/kg	5.7	<5.7	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.7	<5.7	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5.7	<5.7	U
31	TOLUENE	108-88-3	µg/kg	5.7	<5.7	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.7	<5.7	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.7	<5.7	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5.7	<5.7	U
35	VINYL ACETATE	108-05-4	µg/kg	57	<57	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5.7	<5.7	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	17	<17	U

Surrogates	Control Limit, %	Surro. Rec. %

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Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	95
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	97
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	84
4	TOLUENE-D8	2037-26-5	80-119	110
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	86
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	80
3	FLUOROBENZENE	462-06-6	50-200	90
# of out-of-control				0

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

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

105460

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-18	Received Date:	05/28/1999
Sample ID:	**20242-836**	Sample Matrix	Soil	Moisture %:	9.5
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2881	Prep. No:	–	Anal. Time:	02:59
Data File Name:	3897-18	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.					
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	55	< 55	U
2	BENZENE	71-43-2	µg/kg	5.5	< 5.5	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.5	< 5.5	U
4	BROMOFORM	75-25-2	µg/kg	5.5	< 5.5	U
5	BROMOMETHANE	74-83-9	µg/kg	5.5	< 5.5	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	55	< 55	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5.5	< 5.5	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.5	< 5.5	U
9	CHLOROBENZENE	108-90-7	µg/kg	5.5	< 5.5	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.5	< 5.5	U
11	CHLOROETHANE	75-00-3	µg/kg	5.5	< 5.5	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	55	< 55	U
13	CHLOROFORM	67-66-3	µg/kg	5.5	< 5.5	U
14	CHLOROMETHANE	74-87-3	µg/kg	5.5	< 5.5	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.5	< 5.5	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.5	< 5.5	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.5	< 5.5	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.5	< 5.5	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.5	< 5.5	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.5	< 5.5	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.5	< 5.5	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.5	< 5.5	U
23	ETHYLBENZENE	100-41-4	µg/kg	5.5	< 5.5	U
24	2-HEXANONE	591-78-6	µg/kg	55	< 55	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5.5	< 5.5	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	55	< 55	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	< 11	U
28	STYRENE	100-42-5	µg/kg	5.5	< 5.5	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.5	< 5.5	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5.5	< 5.5	U
31	TOLUENE	108-88-3	µg/kg	5.5	< 5.5	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.5	< 5.5	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.5	< 5.5	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5.5	< 5.5	U
35	VINYL ACETATE	108-05-4	µg/kg	55	< 55	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5.5	< 5.5	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	17	< 17	U

Surrogates	Control Limit, %	Surro. Rec. %

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Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	99
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	103
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	89
4	TOLUENE-D8	2037-26-5	80-119	111
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	83
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	75
3	FLUOROBENZENE	462-06-6	50-200	87
# of out-of-control				0

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

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

105462

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-19	Received Date:	05/28/1999
Sample ID:	**20242-837**	Sample Matrix	Soil	Moisture %:	9.3
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2881	Prep. No:	–	Anal. Time:	03:27
Data File Name:	3897-19	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) Y	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	55	<55	U
2	BENZENE	71-43-2	µg/kg	5.5	<5.5	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.5	<5.5	U
4	BROMOFORM	75-25-2	µg/kg	5.5	<5.5	U
5	BROMOMETHANE	74-83-9	µg/kg	5.5	<5.5	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	55	<55	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5.5	<5.5	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.5	<5.5	U
9	CHLOROBENZENE	108-90-7	µg/kg	5.5	<5.5	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.5	<5.5	U
11	CHLOROETHANE	75-00-3	µg/kg	5.5	<5.5	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	55	<55	U
13	CHLOROFORM	67-66-3	µg/kg	5.5	<5.5	U
14	CHLOROMETHANE	74-87-3	µg/kg	5.5	<5.5	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.5	<5.5	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.5	<5.5	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.5	<5.5	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.5	<5.5	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.5	<5.5	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.5	<5.5	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.5	<5.5	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.5	<5.5	U
23	ETHYLBENZENE	100-41-4	µg/kg	5.5	<5.5	U
24	2-HEXANONE	591-78-6	µg/kg	55	<55	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5.5	<5.5	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	55	<55	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	<11	U
28	STYRENE	100-42-5	µg/kg	5.5	<5.5	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.5	<5.5	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5.5	<5.5	U
31	TOLUENE	108-88-3	µg/kg	5.5	<5.5	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.5	<5.5	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.5	<5.5	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5.5	<5.5	U
35	VINYL ACETATE	108-05-4	µg/kg	55	<55	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5.5	<5.5	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	17	<17	U

Surrogates Control Limit, % Surro. Rec. %

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Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	96
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	100
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	94
4	TOLUENE-D8	2037-26-5	80-119	109
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	75
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	66
3	FLUOROBENZENE	462-06-6	50-200	78
# of out-of-control				0

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

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

105464

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Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-2	Received Date:	05/28/1999
Sample ID:	**20242-820**	Sample Matrix	Soil	Moisture %:	4.4
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	08:11
Data File Name:	3897.002	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	10	< 10	U

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-149	77
# of out-of-control				0

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

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

105618

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-3	Received Date:	05/28/1999
Sample ID:	**20242-821**	Sample Matrix	Soil	Moisture %:	14.3
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	08:37
Data File Name:	3897.003	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	12	3	J

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-149	79
# of out-of-control				0

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

105619

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Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-4	Received Date:	05/28/1999
Sample ID:	**20242-822**	Sample Matrix	Soil	Moisture %:	12.5
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	09:04
Data File Name:	3897.004	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	11	3	J

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-149	73
# of out-of-control				0

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

105622

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Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-5	Received Date:	05/28/1999
Sample ID:	**20242-823**	Sample Matrix	Soil	Moisture %:	12.3
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	09:30
Data File Name:	3897.005	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	11	3	J

Surrogates		Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28} 630-02-4	50-149	78
# of out-of-control			0

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

105625

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-6	Received Date:	05/28/1999
Sample ID:	**20242-824**	Sample Matrix	Soil	Moisture %:	9.9
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	09:57
Data File Name:	3897.006	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	11	5	J

Surrogates		Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28} 630-02-4	50-149	77
# of out-of-control			0

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

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Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-7	Received Date:	05/28/1999
Sample ID:	**20242-825**	Sample Matrix	Soil	Moisture %:	13.2
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	10:24
Data File Name:	3897.007	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	12	3	J

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-149	75
# of out-of-control				0

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

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Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-8	Received Date:	05/28/1999
Sample ID:	**20242-826**	Sample Matrix	Soil	Moisture %:	8.6
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	11:44
Data File Name:	3897.008	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	11	4	J

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-149	75
# of out-of-control				0

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

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Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-9	Received Date:	05/28/1999
Sample ID:	**20242-827**	Sample Matrix	Soil	Moisture %:	5.7
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	12:11
Data File Name:	3897.009	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	11	3	J

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-149	74
# of out-of-control				0

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

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Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-10	Received Date:	05/28/1999
Sample ID:	**20242-828**	Sample Matrix	Soil	Moisture %:	23.0
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	12:37
Data File Name:	3897.010	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	13	11	J

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

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

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Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-11	Received Date:	05/28/1999
Sample ID:	**20242-829**	Sample Matrix	Soil	Moisture %:	12.2
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	13:04
Data File Name:	3897.011	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	11	3	J

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-149	83
# of out-of-control				0

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

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Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-12	Received Date:	05/28/1999
Sample ID:	**20242-830**	Sample Matrix	Soil	Moisture %:	12.5
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	13:31
Data File Name:	3897.012	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	11	3	J

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-149	77
# of out-of-control				0

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

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Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-14	Received Date:	05/28/1999
Sample ID:	**20242-832**	Sample Matrix	Soil	Moisture %:	5.8
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	13:57
Data File Name:	3897.014	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	11	3	J

Surrogates		Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28} 630-02-4	50-149	73
# of out-of-control			0

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

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Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-15	Received Date:	05/28/1999
Sample ID:	**20242-833**	Sample Matrix	Soil	Moisture %:	5.0
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	14:24
Data File Name:	3897.015	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	11	3	J

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-149	76
# of out-of-control				0

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

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Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-16	Received Date:	05/28/1999
Sample ID:	**20242-834**	Sample Matrix	Soil	Moisture %:	3.8
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	14:51
Data File Name:	3897.016	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	10	3	J

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-149	79
# of out-of-control				0

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

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Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-17	Received Date:	05/28/1999
Sample ID:	**20242-835**	Sample Matrix	Soil	Moisture %:	11.7
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	15:18
Data File Name:	3897.017	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	11	3	J

Surrogates		Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28} 630-02-4	50-149	72
# of out-of-control			0

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

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Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-18	Received Date:	05/28/1999
Sample ID:	**20242-836**	Sample Matrix	Soil	Moisture %:	9.5
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	15:45
Data File Name:	3897.018	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	11	3	J

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-149	83
# of out-of-control				0

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

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Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-19	Received Date:	05/28/1999
Sample ID:	**20242-837**	Sample Matrix	Soil	Moisture %:	9.3
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	17:06
Data File Name:	3897.019	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	11	3	J

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-149	79
# of out-of-control				0

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

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Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-2	Received Date:	05/28/1999
Sample ID:	**20242-820**	Sample Matrix	Soil	Moisture %:	4.4
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	5.2	<0.12	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.31	1.5		P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1.0	57.5		P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.21	<0.0028	U	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.21	0.80		P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.52	3.6		P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.52	1.9		P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.52	4.9		P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.31	1.3		P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.21	<0.073	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.21	0.38		P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.31	2.4		P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.52	<0.18	U	P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.52	<0.049	U	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	5.2	<0.10	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.52	12.4		P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.52	14.6		P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

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Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-3	Received Date:	05/28/1999
Sample ID:	**20242-821**	Sample Matrix	Soil	Moisture %:	14.3
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	5.8	< 0.13	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.35	2.4		P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1.2	95.8		P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.23	< 0.0032	U	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.23	0.29		P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.58	7.1		P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.58	4.7		P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.58	4.8		P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.35	2.3		P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.23	< 0.082	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.23	< 0.047	U	P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.35	4.8		P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.58	< 0.20	U	P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.58	< 0.055	U	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	5.8	< 0.12	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.58	26.5		P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.58	29.6		P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

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Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-4	Received Date:	05/28/1999
Sample ID:	**20242-822**	Sample Matrix	Soil	Moisture %:	12.5
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	5.7	< 0.13	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.34	3.2		P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1.1	163		P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.23	< 0.0031	U	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.23	0.45		P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.57	14.7		P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.57	7.2		P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.57	9.5		P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.34	4.4		P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.23	< 0.080	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.23	< 0.046	U	P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.34	10.4		P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.57	< 0.19	U	P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.57	< 0.054	U	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	5.7	< 0.11	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.57	38.4		P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.57	50.9		P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

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Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-5	Received Date:	05/28/1999
Sample ID:	**20242-823**	Sample Matrix	Soil	Moisture %:	12.3
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	5.7	< 0.13	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.34	3.5		P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1.1	125		P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.23	< 0.0031	U	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.23	0.18	B	P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.57	14.7		P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.57	7.2		P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.57	6.8		P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.34	4.2		P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.23	< 0.080	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.23	< 0.046	U	P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.34	8.7		P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.57	0.32	B	P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.57	< 0.054	U	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	5.7	< 0.11	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.57	42.9		P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.57	42.0		P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

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Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-6	Received Date:	05/28/1999
Sample ID:	**20242-824**	Sample Matrix	Soil	Moisture %:	9.9
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	5.5	< 0.12	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.33	2.4		P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1.1	140		P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.22	< 0.0030	U	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.22	0.31		P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.55	8.1		P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.55	4.9		P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.55	5.5		P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.33	2.2		P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.22	< 0.078	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.22	< 0.044	U	P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.33	5.2		P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.55	0.28	B	P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.55	< 0.052	U	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	5.5	< 0.11	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.55	31.8		P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.55	32.8		P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

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Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-7	Received Date:	05/28/1999
Sample ID:	**20242-825**	Sample Matrix	Soil	Moisture %:	13.2
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	5.8	< 0.13	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.35	1.7		P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1.2	83.3		P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.23	< 0.0031	U	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.23	0.17	B	P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.58	5.4		P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.58	3.2		P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.58	3.8		P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.35	1.5		P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.23	< 0.081	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.23	0.29		P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.35	3.8		P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.58	< 0.20	U	P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.58	< 0.054	U	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	5.8	< 0.12	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.58	19.8		P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.58	21.2		P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

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Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/27/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-8	Received Date:	05/28/1999
Sample ID:	**20242-826**	Sample Matrix	Soil	Moisture %:	8.6
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	5.5	< 0.12	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.33	3.0		P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1.1	158		P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.22	< 0.0030	U	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.22	0.22	B	P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.55	7.5		P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.55	5.9		P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.55	5.1		P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.33	2.0		P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.22	< 0.077	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.22	< 0.044	U	P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.33	4.2		P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.55	0.55		P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.55	< 0.051	U	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	5.5	< 0.11	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.55	32.7		P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.55	37.2		P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

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Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-9	Received Date:	05/28/1999
Sample ID:	**20242-827**	Sample Matrix	Soil	Moisture %:	5.7
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	5.3	< 0.12	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.32	1.7		P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1.1	79.4		P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.21	< 0.0029	U	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.21	0.26		P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.53	4.4		P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.53	2.8		P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.53	12.8		P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.32	1.2		P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.21	< 0.074	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.21	0.19	B	P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.32	3.5		P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.53	< 0.18	U	P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.53	< 0.050	U	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	5.3	< 0.11	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.53	17.4		P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.53	25.1		P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

AMENDED

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Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-10	Received Date:	05/28/1999
Sample ID:	**20242-828**	Sample Matrix	Soil	Moisture %:	23.0
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	6.5	< 0.14	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.39	4.7		P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1.3	196		P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.26	< 0.0035	U	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.26	0.42		P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.65	18.8		P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.65	10.8		P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.65	11.5		P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.39	4.2		P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.26	< 0.091	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.26	< 0.052	U	P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.39	10.5		P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.65	0.95		P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.65	< 0.061	U	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	6.5	< 0.13	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.65	65.2		P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.65	75.3		P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

AMENDED

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Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-11	Received Date:	05/28/1999
Sample ID:	**20242-829**	Sample Matrix	Soil	Moisture %:	12.2
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	5.7	< 0.13	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.34	3.7		P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1.1	169		P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.23	< 0.0031	U	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.23	0.67		P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.57	17.1		P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.57	8.3		P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.57	8.1		P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.34	4.0		P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.23	< 0.080	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.23	0.20	B	P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.34	12.5		P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.57	< 0.19	U	P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.57	< 0.054	U	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	5.7	< 0.11	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.57	50.7		P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.57	52.1		P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

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Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-12	Received Date:	05/28/1999
Sample ID:	**20242-830**	Sample Matrix	Soil	Moisture %:	12.5
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	5.7	<0.13	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.34	2.6		P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1.1	104		P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.23	0.066	B	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.23	0.44		P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.57	13.1		P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.57	6.0		P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.57	6.2		P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.34	3.9		P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.23	<0.080	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.23	0.20	B	P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.34	8.8		P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.57	<0.19	U	P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.57	<0.054	U	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	5.7	<0.11	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.57	35.2		P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.57	40.3		P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

AMENDED
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Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-14	Received Date:	05/28/1999
Sample ID:	**20242-832**	Sample Matrix	Soil	Moisture %:	5.8
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	5.3	< 0.12	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.32	1.4		P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1.1	65.9		P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.21	< 0.0029	U	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.21	0.14	B	P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.53	3.5		P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.53	2.8		P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.53	2.8		P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.32	1.1		P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.21	< 0.074	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.21	0.077	B	P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.32	2.5		P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.53	< 0.18	U	P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.53	< 0.050	U	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	5.3	< 0.11	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.53	15.9		P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.53	18.0		P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

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Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-15	Received Date:	05/28/1999
Sample ID:	**20242-833**	Sample Matrix	Soil	Moisture %:	5.0
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	5.3	< 0.12	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.32	1.1		P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1.1	75.5		P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.21	< 0.0028	U	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.21	0.15	B	P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.53	4.2		P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.53	2.7		P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.53	3.2		P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.32	1.5		P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.21	< 0.074	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.21	0.17	B	P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.32	2.4		P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.53	< 0.18	U	P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.53	< 0.049	U	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	5.3	< 0.11	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.53	16.0		P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.53	18.1		P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

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Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-16	Received Date:	05/28/1999
Sample ID:	**20242-834**	Sample Matrix	Soil	Moisture %:	3.8
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	5.2	<0.11	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.31	1.1		P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1.0	55.8		P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.21	<0.0028	U	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.21	0.52		P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.52	3.4		P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.52	2.1		P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.52	3.0		P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.31	0.89		P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.21	<0.073	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.21	<0.042	U	P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.31	2.3		P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.52	<0.18	U	P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.52	<0.049	U	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	5.2	<0.10	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.52	13.3		P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.52	14.6		P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

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Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-17	Received Date:	05/28/1999
Sample ID:	**20242-835**	Sample Matrix	Soil	Moisture %:	11.7
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	5.7	< 0.12	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.34	1.8		P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1.1	305		P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.23	< 0.0031	U	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.23	1.3		P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.57	10.1		P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.57	2.4		P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.57	3.9		P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.34	1.6		P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.23	< 0.079	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.23	1.2		P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.34	5.5		P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.57	0.35	B	P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.57	< 0.053	U	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	5.7	< 0.11	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.57	17.4		P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.57	16.3		P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

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Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-18	Received Date:	05/28/1999
Sample ID:	**20242-836**	Sample Matrix	Soil	Moisture %:	9.5
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	5.5	< 0.12	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.33	1.9		P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1.1	388		P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.22	< 0.0030	U	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.22	2.3		P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.55	16.2		P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.55	2.8		P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.55	6.5		P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.33	1.6		P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.22	< 0.077	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.22	1.6		P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.33	6.8		P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.55	0.28	B	P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.55	< 0.052	U	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	5.5	< 0.11	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.55	21.5		P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.55	21.9		P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

AMENDED

AUG 11 1999

105749

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	05/28/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99-3897-19	Received Date:	05/28/1999
Sample ID:	**20242-837**	Sample Matrix	Soil	Moisture %:	9.3
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	5.5	< 0.12	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.33	2.6		P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1.1	81.6		P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.22	< 0.0030	U	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.22	0.28		P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.55	8.9		P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.55	4.1		P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.55	4.3		P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.33	2.3		P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.22	< 0.077	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.22	0.098	B	P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.33	5.3		P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.55	0.26	B	P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.55	< 0.052	U	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	5.5	< 0.11	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.55	27.8		P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.55	26.6		P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

AMENDED

AUG 11 1999

105750

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	06/04/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99G2930-MB-01	Received Date:	06/04/1999
Sample ID:	99G2930-MB-01	Sample Matrix	Water	Moisture %:	-
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: G
Anal. Method:	8260	Prep. Date:	06/04/99	Anal. Date:	06/04/99
Batch No:	99G2930	Prep. No:	-	Anal. Time:	22:47
Data File Name:	G2930K01	Sample Amount:	25 mL	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	25 mL	Heated Purge: (Y/N) N	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/L	50	< 50	U
2	BENZENE	71-43-2	µg/L	5	< 5	U
3	BROMODICHLOROMETHANE	75-27-4	µg/L	5	< 5	U
4	BROMOFORM	75-25-2	µg/L	5	< 5	U
5	BROMOMETHANE	74-83-9	µg/L	5	< 5	U
6	2-BUTANONE (MEK)	78-93-3	µg/L	50	< 50	U
7	CARBON DISULFIDE	75-15-0	µg/L	5	< 5	U
8	CARBON TETRACHLORIDE	56-23-5	µg/L	5	< 5	U
9	CHLOROBENZENE	108-90-7	µg/L	5	< 5	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/L	5	< 5	U
11	CHLOROETHANE	75-00-3	µg/L	5	< 5	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/L	50	< 50	U
13	CHLOROFORM	67-66-3	µg/L	5	< 5	U
14	CHLOROMETHANE	74-87-3	µg/L	5	< 5	U
15	1,1-DICHLOROETHANE	75-34-3	µg/L	5	< 5	U
16	1,2-DICHLOROETHANE	107-06-2	µg/L	5	< 5	U
17	1,1-DICHLOROETHENE	75-35-4	µg/L	5	< 5	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	5	< 5	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	5	< 5	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/L	5	< 5	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	5	< 5	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	5	< 5	U
23	ETHYLBENZENE	100-41-4	µg/L	5	< 5	U
24	2-HEXANONE	591-78-6	µg/L	50	< 50	U
25	METHYLENE CHLORIDE	75-09-2	µg/L	5	< 5	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	50	< 50	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/L	10	< 10	U
28	STYRENE	100-42-5	µg/L	5	< 5	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	5	< 5	U
30	TETRACHLOROETHENE	127-18-4	µg/L	5	< 5	U
31	TOLUENE	108-88-3	µg/L	5	< 5	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	5	< 5	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	5	< 5	U
34	TRICHLOROETHENE	79-01-6	µg/L	5	< 5	U
35	VINYL ACETATE	108-05-4	µg/L	50	< 50	U
36	VINYL CHLORIDE	75-01-4	µg/L	5	< 5	U
37	XYLENES (TOTAL)	1330-20-7	µg/L	15	< 15	U

Surrogates	Control Limit, %	Surro. Rec.%

105407

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	80-119	105
2	DIBROMOFLUOROMETHANE	1868-53-7	79-120	110
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-119	103
4	TOLUENE-D8	2037-26-5	81-118	89
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	93
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	100
3	FLUOROBENZENE	462-06-6	50-200	96
# of out-of-control				0

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

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

105408

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	06/02/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99G2898-MB-01	Received Date:	06/02/1999
Sample ID:	**99G2898-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2898	Prep. No:	–	Anal. Time:	11:08
Data File Name:	G2898K01	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	50	<50	U
2	BENZENE	71-43-2	µg/kg	5	<5	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5	<5	U
4	BROMOFORM	75-25-2	µg/kg	5	<5	U
5	BROMOMETHANE	74-83-9	µg/kg	5	<5	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	50	<50	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5	<5	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5	<5	U
9	CHLOROBENZENE	108-90-7	µg/kg	5	<5	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5	<5	U
11	CHLOROETHANE	75-00-3	µg/kg	5	<5	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	50	<50	U
13	CHLOROFORM	67-66-3	µg/kg	5	<5	U
14	CHLOROMETHANE	74-87-3	µg/kg	5	<5	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5	<5	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5	<5	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5	<5	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5	<5	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5	<5	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5	<5	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5	<5	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5	<5	U
23	ETHYLBENZENE	100-41-4	µg/kg	5	<5	U
24	2-HEXANONE	591-78-6	µg/kg	50	<50	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5	<5	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	50	<50	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	10	<10	U
28	STYRENE	100-42-5	µg/kg	5	<5	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5	<5	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5	<5	U
31	TOLUENE	108-88-3	µg/kg	5	<5	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5	<5	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5	<5	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5	<5	U
35	VINYL ACETATE	108-05-4	µg/kg	50	<50	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5	<5	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	15	<15	U

Surrogates	Control Limit, %	Surro. Rec.%

105409

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	103
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	106
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	89
4	TOLUENE-D8	2037-26-5	80-119	109
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	90
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	71
3	FLUOROBENZENE	462-06-6	50-200	95
# of out-of-control				0

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

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

105410

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	06/04/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99G2929-MB-01	Received Date:	06/04/1999
Sample ID:	**99G2929-MB-01**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: G
Anal. Method:	8260	Prep. Date:	06/04/99	Anal. Date:	06/04/99
Batch No:	99G2929	Prep. No:	-	Anal. Time:	12:25
Data File Name:	G2929K01	Sample Amount:	25 mL	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	25 mL	Heated Purge: (Y/N) N	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/L	50	< 50	U
2	BENZENE	71-43-2	µg/L	5	< 5	U
3	BROMODICHLOROMETHANE	75-27-4	µg/L	5	< 5	U
4	BROMOFORM	75-25-2	µg/L	5	< 5	U
5	BROMOMETHANE	74-83-9	µg/L	5	< 5	U
6	2-BUTANONE (MEK)	78-93-3	µg/L	50	< 50	U
7	CARBON DISULFIDE	75-15-0	µg/L	5	< 5	U
8	CARBON TETRACHLORIDE	56-23-5	µg/L	5	< 5	U
9	CHLOROBENZENE	108-90-7	µg/L	5	< 5	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/L	5	< 5	U
11	CHLOROETHANE	75-00-3	µg/L	5	< 5	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/L	50	< 50	U
13	CHLOROFORM	67-66-3	µg/L	5	< 5	U
14	CHLOROMETHANE	74-87-3	µg/L	5	< 5	U
15	1,1-DICHLOROETHANE	75-34-3	µg/L	5	< 5	U
16	1,2-DICHLOROETHANE	107-06-2	µg/L	5	< 5	U
17	1,1-DICHLOROETHENE	75-35-4	µg/L	5	< 5	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	5	< 5	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	5	< 5	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/L	5	< 5	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	5	< 5	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	5	< 5	U
23	ETHYLBENZENE	100-41-4	µg/L	5	< 5	U
24	2-HEXANONE	591-78-6	µg/L	50	< 50	U
25	METHYLENE CHLORIDE	75-09-2	µg/L	5	< 5	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	50	< 50	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/L	10	< 10	U
28	STYRENE	100-42-5	µg/L	5	< 5	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	5	< 5	U
30	TETRACHLOROETHENE	127-18-4	µg/L	5	< 5	U
31	TOLUENE	108-88-3	µg/L	5	< 5	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	5	< 5	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	5	< 5	U
34	TRICHLOROETHENE	79-01-6	µg/L	5	< 5	U
35	VINYL ACETATE	108-05-4	µg/L	50	< 50	U
36	VINYL CHLORIDE	75-01-4	µg/L	5	< 5	U
37	XYLENES (TOTAL)	1330-20-7	µg/L	15	< 15	U

Surrogates	Control Limit, %	Surro. Rec.%

105413

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	80-119	106
2	DIBROMOFLUOROMETHANE	1868-53-7	79-120	101
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-119	94
4	TOLUENE-D8	2037-26-5	81-118	93
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	98
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	107
3	FLUOROBENZENE	462-06-6	50-200	102
# of out-of-control				0

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

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

105414

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	06/01/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99G2881-MB-01	Received Date:	06/01/1999
Sample ID:	**99G2881-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/01/99	Anal. Date:	06/01/99
Batch No:	99G2881	Prep. No:	–	Anal. Time:	19:14
Data File Name:	G2881K02	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	50	<50	U
2	BENZENE	71-43-2	µg/kg	5	<5	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5	<5	U
4	BROMOFORM	75-25-2	µg/kg	5	<5	U
5	BROMOMETHANE	74-83-9	µg/kg	5	<5	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	50	<50	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5	<5	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5	<5	U
9	CHLOROBENZENE	108-90-7	µg/kg	5	<5	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5	<5	U
11	CHLOROETHANE	75-00-3	µg/kg	5	<5	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	50	<50	U
13	CHLOROFORM	67-66-3	µg/kg	5	<5	U
14	CHLOROMETHANE	74-87-3	µg/kg	5	<5	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5	<5	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5	<5	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5	<5	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5	<5	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5	<5	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5	<5	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5	<5	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5	<5	U
23	ETHYLBENZENE	100-41-4	µg/kg	5	<5	U
24	2-HEXANONE	591-78-6	µg/kg	50	<50	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5	<5	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	50	<50	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	10	<10	U
28	STYRENE	100-42-5	µg/kg	5	<5	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5	<5	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5	<5	U
31	TOLUENE	108-88-3	µg/kg	5	<5	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5	<5	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5	<5	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5	<5	U
35	VINYL ACETATE	108-05-4	µg/kg	50	<50	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5	<5	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	15	<15	U

Surrogates	Control Limit, %	Surro. Rec.%

105415

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	117
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	107
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	88
4	TOLUENE-D8	2037-26-5	80-119	119
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	78
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	60
3	FLUOROBENZENE	462-06-6	50-200	85
# of out-of-control				0

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

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

105416

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	06/07/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99G2951-MB-01	Received Date:	06/07/1999
Sample ID:	**99G2951-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	06/07/99	Anal. Date:	06/07/99
Batch No:	99G2951	Prep. No:	–	Anal. Time:	10:41
Data File Name:	G2951K01	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	50	<50	U
2	BENZENE	71-43-2	µg/kg	5	<5	U
3	BROMODICHLOROMETHANE	75-27-4	µg/kg	5	<5	U
4	BROMOFORM	75-25-2	µg/kg	5	<5	U
5	BROMOMETHANE	74-83-9	µg/kg	5	<5	U
6	2-BUTANONE (MEK)	78-93-3	µg/kg	50	<50	U
7	CARBON DISULFIDE	75-15-0	µg/kg	5	<5	U
8	CARBON TETRACHLORIDE	56-23-5	µg/kg	5	<5	U
9	CHLOROBENZENE	108-90-7	µg/kg	5	<5	U
10	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5	<5	U
11	CHLOROETHANE	75-00-3	µg/kg	5	<5	U
12	2-CHLOROETHYL VINYL ETHER	110-75-8	µg/kg	50	<50	U
13	CHLOROFORM	67-66-3	µg/kg	5	<5	U
14	CHLOROMETHANE	74-87-3	µg/kg	5	<5	U
15	1,1-DICHLOROETHANE	75-34-3	µg/kg	5	<5	U
16	1,2-DICHLOROETHANE	107-06-2	µg/kg	5	<5	U
17	1,1-DICHLOROETHENE	75-35-4	µg/kg	5	<5	U
18	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5	<5	U
19	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5	<5	U
20	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5	<5	U
21	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5	<5	U
22	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5	<5	U
23	ETHYLBENZENE	100-41-4	µg/kg	5	<5	U
24	2-HEXANONE	591-78-6	µg/kg	50	<50	U
25	METHYLENE CHLORIDE	75-09-2	µg/kg	5	<5	U
26	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	50	<50	U
27	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	10	<10	U
28	STYRENE	100-42-5	µg/kg	5	<5	U
29	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5	<5	U
30	TETRACHLOROETHENE	127-18-4	µg/kg	5	<5	U
31	TOLUENE	108-88-3	µg/kg	5	<5	U
32	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5	<5	U
33	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5	<5	U
34	TRICHLOROETHENE	79-01-6	µg/kg	5	<5	U
35	VINYL ACETATE	108-05-4	µg/kg	50	<50	U
36	VINYL CHLORIDE	75-01-4	µg/kg	5	<5	U
37	XYLENES (TOTAL)	1330-20-7	µg/kg	15	<15	U

Surrogates	Control Limit, %	Surro. Rec.%

105419

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	85
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	107
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	105
4	TOLUENE-D8	2037-26-5	80-119	95
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	96
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	88
3	FLUOROBENZENE	462-06-6	50-200	104
# of out-of-control				0

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

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

105420

FORM-3B

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Soil
		Batch No:	99G2881		
LCS Filename:	G2881L02	Date Analyzed:	060199	Time Analyzed:	19:41
LCSD Filename:	-	Date Analyzed:	-	Time Analyzed:	-

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
BENZENE	µg/kg	50	0	48.6	97	76-118
CHLOROBENZENE	µg/kg	50	0	55.1	110	76-116
1,1-DICHLOROETHENE	µg/kg	50	0	39.5	79	71-125
TOLUENE	µg/kg	50	0	52.4	105	77-114
TRICHLOROETHENE	µg/kg	50	0	49.7	99	69-121
# of Out-of-control					0	

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D - Spiked components diluted out

Comments: _____

105470

FORM-3B

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Soil
		Batch No:	99G2881		
MS Filename:	G2881M02	Date Analyzed:	060299	Time Analyzed:	03:54
MSD Filename:	G2881N02	Date Analyzed:	060299	Time Analyzed:	04:22
MS Sample No:	**DEHSP003**	Sample Lab ID:	99-3875-3	Moisture, %	8.4

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
BENZENE	µg/kg	54.6	0	54.1	99	75-119
CHLOROBENZENE	µg/kg	54.6	0	55.5	102	76-117
1,1-DICHLOROETHENE	µg/kg	54.6	0	45.8	84	69-127
TOLUENE	µg/kg	54.6	0	57.0	104	75-117
TRICHLOROETHENE	µg/kg	54.6	0	61.4	112	66-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
BENZENE	µg/kg	54.6	49.7	91	8	22	75-119
CHLOROBENZENE	µg/kg	54.6	54.1	99	3	21	76-117
1,1-DICHLOROETHENE	µg/kg	54.6	41.5	76	10	29	69-127
TOLUENE	µg/kg	54.6	54.5	100	4	21	75-117
TRICHLOROETHENE	µg/kg	54.6	54.9	101	10	29	66-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-3A

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Water
		Batch No:	99G2929		
LCS Filename:	G2929L01	Date Analyzed:	060499	Time Analyzed:	12:55
LCSD Filename:	-	Date Analyzed:	-	Time Analyzed:	-

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
BENZENE	µg/L	20	0	19.7	99	76-121
CHLOROBENZENE	µg/L	20	0	18.4	92	77-122
1,1-DICHLOROETHENE	µg/L	20	0	21.1	106	71-126
TOLUENE	µg/L	20	0	19.5	98	77-120
TRICHLOROETHENE	µg/L	20	0	20.2	101	73-124
# of Out-of-control					0	

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D - Spiked components diluted out

Comments: _____

105484

FORM-3A

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Water
		Batch No:	99G2929		
MS Filename:	G2929M01	Date Analyzed:	060499	Time Analyzed:	13:24
MSD Filename:	G2929N01	Date Analyzed:	060499	Time Analyzed:	13:54
MS Sample No:	**GPH2**	Sample Lab ID:	99-3917-3		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
BENZENE	µg/L	20	0	21.4	107	72-126
CHLOROBENZENE	µg/L	20	0	20.2	101	69-131
1,1-DICHLOROETHENE	µg/L	20	0	22.0	110	66-133
TOLUENE	µg/L	20	0	21.3	107	70-129
TRICHLOROETHENE	µg/L	20	0	22.1	111	65-134
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
BENZENE	µg/L	20	20.1	101	6	27	72-126
CHLOROBENZENE	µg/L	20	18.9	95	6	31	69-131
1,1-DICHLOROETHENE	µg/L	20	21.1	106	4	34	66-133
TOLUENE	µg/L	20	20.1	101	6	30	70-129
TRICHLOROETHENE	µg/L	20	21.0	105	6	35	65-134
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

105485

FORM-3B

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Soil
		Batch No:	99G2951		
LCS Filename:	G2951L01	Date Analyzed:	060799	Time Analyzed:	11:09
LCSD Filename:	-	Date Analyzed:	-	Time Analyzed:	-

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
BENZENE	μg/kg	50	0	50.0	100	76-118
CHLOROBENZENE	μg/kg	50	0	48.9	98	76-116
1,1-DICHLOROETHENE	μg/kg	50	0	45.4	91	71-125
TOLUENE	μg/kg	50	0	48.2	96	77-114
TRICHLOROETHENE	μg/kg	50	0	57.9	116	69-121
# of Out-of-control					0	

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D - Spiked components diluted out

Comments: _____

105486

FORM-3B

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Soil
		Batch No:	99G2951		
MS Filename:	G2951M01	Date Analyzed:	060799	Time Analyzed:	11:36
MSD Filename:	G2951N01	Date Analyzed:	060799	Time Analyzed:	12:03
MS Sample No:	**27-58SB-002-24**	Sample Lab ID:	99-3977-3	Moisture, %	5.0

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
BENZENE	µg/kg	52.6	0	49.5	94	75-119
CHLOROBENZENE	µg/kg	52.6	0	51.2	97	76-117
1,1-DICHLOROETHENE	µg/kg	52.6	0	43.1	82	69-127
TOLUENE	µg/kg	52.6	0	50.8	97	75-117
TRICHLOROETHENE	µg/kg	52.6	0	56.4	107	66-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
BENZENE	µg/kg	52.6	44.9	85	10	22	75-119
CHLOROBENZENE	µg/kg	52.6	47.5	90	7	21	76-117
1,1-DICHLOROETHENE	µg/kg	52.6	38.5	73	12	29	69-127
TOLUENE	µg/kg	52.6	46.2	88	10	21	75-117
TRICHLOROETHENE	µg/kg	52.6	53.4	102	5	29	66-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

105487

FORM-3A

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Water
		Batch No:	99G2930		
LCS Filename:	G2930L01	Date Analyzed:	060499	Time Analyzed:	23:16
LCSD Filename:	-	Date Analyzed:	-	Time Analyzed:	-

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
BENZENE	μg/L	20	0	20.2	101	76-121
CHLOROBENZENE	μg/L	20	0	18.2	91	77-122
1,1-DICHLOROETHENE	μg/L	20	0	19.8	99	71-126
TOLUENE	μg/L	20	0	18.9	95	77-120
TRICHLOROETHENE	μg/L	20	0	19.5	98	73-124
# of Out-of-control					0	

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D - Spiked components diluted out

Comments: _____

105488

FORM-3A

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Water
		Batch No:	99G2930		
MS Filename:	G2930M01	Date Analyzed:	060499	Time Analyzed:	23:46
MSD Filename:	G2930N01	Date Analyzed:	060599	Time Analyzed:	00:16
MS Sample No:	**T-214-001**	Sample Lab ID:	99-3956-1		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
BENZENE	µg/L	20	0	20.1	101	72-126
CHLOROBENZENE	µg/L	20	0	18.8	94	69-131
1,1-DICHLOROETHENE	µg/L	20	0	20.4	102	66-133
TOLUENE	µg/L	20	0	19.6	98	70-129
TRICHLOROETHENE	µg/L	20	18	37.8	99	65-134
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
BENZENE	µg/L	20	20.2	101	0	27	72-126
CHLOROBENZENE	µg/L	20	18.3	92	2	31	69-131
1,1-DICHLOROETHENE	µg/L	20	21.3	107	5	34	66-133
TOLUENE	µg/L	20	19.5	98	0	30	70-129
TRICHLOROETHENE	µg/L	20	37.6	98	1	35	65-134
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

105489

FORM-3B

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Soil
		Batch No:	99G2898		
LCS Filename:	G2898L01	Date Analyzed:	060299	Time Analyzed:	11:35
LCSD Filename:	-	Date Analyzed:	-	Time Analyzed:	-

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
BENZENE	μg/kg	50	0	46.4	93	76-118
CHLOROBENZENE	μg/kg	50	0	51.9	104	76-116
1,1-DICHLOROETHENE	μg/kg	50	0	37.2	74	71-125
TOLUENE	μg/kg	50	0	49.3	99	77-114
TRICHLOROETHENE	μg/kg	50	0	47.2	94	69-121
# of Out-of-control					0	

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D - Spiked components diluted out

Comments: _____

105490

FORM-3B

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Soil
		Batch No:	99G2898		
MS Filename:	G2898M01	Date Analyzed:	060299	Time Analyzed:	12:03
MSD Filename:	G2898N01	Date Analyzed:	060299	Time Analyzed:	12:30
MS Sample No:	**20242-820**	Sample Lab ID:	99-3897-2	Moisture, %	4.4

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
BENZENE	µg/kg	52.3	0	47.2	90	75-119
CHLOROBENZENE	µg/kg	52.3	0	51.7	99	76-117
1,1-DICHLOROETHENE	µg/kg	52.3	0	36.7	70	69-127
TOLUENE	µg/kg	52.3	0	49.2	94	75-117
TRICHLOROETHENE	µg/kg	52.3	0	51.9	99	66-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
BENZENE	µg/kg	52.3	46.3	89	1	22	75-119
CHLOROBENZENE	µg/kg	52.3	53.6	102	3	21	76-117
1,1-DICHLOROETHENE	µg/kg	52.3	36.7	70	0	29	69-127
TOLUENE	µg/kg	52.3	50.9	97	3	21	75-117
TRICHLOROETHENE	µg/kg	52.3	55.2	106	7	29	66-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

105495

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	06/02/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99G2895-MB-01	Received Date:	06/02/1999
Sample ID:	**99G2895-MB-01**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Method Blank	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	06/02/99	Anal. Date:	06/02/99
Batch No:	99G2895	Prep. No:	1 of 1	Anal. Time:	17:14
Data File Name:	2895G.K01	Sample Amount:	1000 mL	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/L	0.5	<0.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-149	84
# of out-of-control				0

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

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

105615

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	06/01/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99G2890-MB-01	Received Date:	06/01/1999
Sample ID:	**99G2890-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	3550	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	06/01/99	Anal. Date:	06/02/99
Batch No:	99G2890	Prep. No:	1 of 1	Anal. Time:	05:04
Data File Name:	2890G.K01	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS JP-5	TBD-0011	mg/kg	10	< 10	U

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-149	83
# of out-of-control				0

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

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

105616

FORM-3C

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Water
		Batch No:	99G2895		
LCS Filename:	2895G.L01	Date Analyzed:	060299	Time Analyzed:	17:39
LCSD Filename:	2895G.J01	Date Analyzed:	060299	Time Analyzed:	18:31

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
TPH AS DIESEL	mg/L	1	0	1.14	114	57-126
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
TPH AS DIESEL	mg/L	1	1.15	115	1	47	57-126
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D - Spiked components diluted out

Comments: _____

105670

FORM-3C

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Water
		Batch No:	99G2895		
MS Filename:	2895G.M02	Date Analyzed:	060299	Time Analyzed:	19:48
MSD Filename:	2895G.N02	Date Analyzed:	060299	Time Analyzed:	20:14
MS Sample No:	**EFF-052699**	Sample Lab ID:	99-3914-1		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
TPH AS DIESEL	mg/L	2.0	0	2.31	116	52-147
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
TPH AS DIESEL	mg/L	2.0	2.40	120	3	47	52-147
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

105671

FORM-3D

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Soil
		Batch No:	99G2890		
LCS Filename:	2890G.L01	Date Analyzed:	060299	Time Analyzed:	06:24
LCSD Filename:	2890G.J01	Date Analyzed:	060299	Time Analyzed:	06:51

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
TPH AS DIESEL	mg/kg	50	0	51.2	102	51-134
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
TPH AS DIESEL	mg/kg	50	55.8	112	9	50	51-134
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D - Spiked components diluted out

Comments: _____

105672

FORM-3D

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Soil
		Batch No:	99G2890		
MS Filename:	2890G.M01	Date Analyzed:	060299	Time Analyzed:	07:18
MSD Filename:	2890G.N01	Date Analyzed:	060299	Time Analyzed:	07:44
MS Sample No:	**20242-827**	Sample Lab ID:	99-3897-9	Moisture, %	5.7

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
TPH AS DIESEL	mg/kg	53.0	0	47.8	90	50-149
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
TPH AS DIESEL	mg/kg	53.0	47.1	89	1	50	50-149
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

105675

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	06/02/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99M1911-MB-01	Received Date:	06/02/1999
Sample ID:	**99M1911-MB-01**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Method Blank				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	μg/L	10	<2.2	U	P		99M1911L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	μg/L	5	<1.6	U	P		99M1911L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	μg/L	10	<0.46	U	P		99M1911L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	μg/L	2	<0.053	U	P		99M1911L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	μg/L	2	<0.22	U	P		99M1911L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	μg/L	5	<0.44	U	P		99M1911L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	μg/L	5	<0.34	U	P		99M1911L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	μg/L	10	<0.97	U	P		99M1911L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	μg/L	5	<1.3	U	P		99M1911L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	μg/L	0.5	<0.14	U	CV		99M1921N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	μg/L	5	<0.79	U	P		99M1911L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	μg/L	5	<0.48	U	P		99M1911L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	μg/L	10	<3.3	U	P		99M1911L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	μg/L	10	1.4	B	P		99M1911L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	μg/L	10	<2.0	U	P		99M1911L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	μg/L	10	<0.65	U	P		99M1911L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	μg/L	5	<0.38	U	P		99M1911L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

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Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Collection Date:	06/02/1999
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	
		Lab Sample ID:	99M1913-MB-01	Received Date:	06/02/1999
Sample ID:	**99M1913-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	5	<0.11	U	P		99M1913L	06/02/99	06/02/99	1	6010
ARSENIC	7440-38-2	mg/kg	0.3	<0.080	U	P		99M1913L	06/02/99	06/02/99	1	6010
BARIUM	7440-39-3	mg/kg	1	<0.023	U	P		99M1913L	06/02/99	06/02/99	1	6010
BERYLLIUM	7440-41-7	mg/kg	0.2	<0.0027	U	P		99M1913L	06/02/99	06/02/99	1	6010
CADMIUM	7440-43-9	mg/kg	0.2	<0.011	U	P		99M1913L	06/02/99	06/02/99	1	6010
CHROMIUM	7440-47-3	mg/kg	0.5	<0.022	U	P		99M1913L	06/02/99	06/02/99	1	6010
COBALT	7440-48-4	mg/kg	0.5	<0.017	U	P		99M1913L	06/02/99	06/02/99	1	6010
COPPER	7440-50-8	mg/kg	0.5	<0.049	U	P		99M1913L	06/02/99	06/02/99	1	6010
LEAD	7439-92-1	mg/kg	0.3	<0.065	U	P		99M1913L	06/02/99	06/02/99	1	6010
MERCURY	7439-97-6	mg/kg	0.2	<0.070	U	CV		99M1918N	06/02/99	06/02/99	1	7470
MOLYBDENUM	7439-98-7	mg/kg	0.2	<0.040	U	P		99M1913L	06/02/99	06/02/99	1	6010
NICKEL	7440-02-0	mg/kg	0.3	<0.024	U	P		99M1913L	06/02/99	06/02/99	1	6010
SELENIUM	7782-49-2	mg/kg	0.5	<0.17	U	P		99M1913L	06/02/99	06/02/99	1	6010
SILVER	7440-22-4	mg/kg	0.5	0.14	B	P		99M1913L	06/02/99	06/02/99	1	6010
THALLIUM	7440-28-0	mg/kg	5	<0.10	U	P		99M1913L	06/02/99	06/02/99	1	6010
VANADIUM	7440-62-2	mg/kg	0.5	<0.033	U	P		99M1913L	06/02/99	06/02/99	1	6010
ZINC	7440-66-6	mg/kg	0.5	<0.019	U	P		99M1913L	06/02/99	06/02/99	1	6010

Not Detected is shown as IDL moisture-corrected if applicable

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

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

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

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

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

105731

FORM-5A Metal

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 7470

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Soil
		Batch No:	99M1918N		
MS Filename:	-	Date Analyzed:	060299	Time Analyzed:	11:01
MSD Filename:	-	Date Analyzed:	060299	Time Analyzed:	11:03
MS Sample No:	20242-820	Sample Lab ID:	99-3897-2	Moisture, %	4.4

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
MERCURY	mg/kg	0.870	0	0.871	100	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
MERCURY	mg/kg	0.870	0.879	101	1	20	75-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

105763

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FORM-5A Metal

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 6010

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Soil
		Batch No:	99M1913L		
MS Filename:	-	Date Analyzed:	060299	Time Analyzed:	11:44
MSD Filename:	-	Date Analyzed:	060299	Time Analyzed:	11:48
MS Sample No:	20242-820	Sample Lab ID:	99-3897-2	Moisture, %	4.4

Spiked Components	Unit	Spike Added	Concentration Unspiked	MS	MS Rec% #	QC Limit, % REC
ANTIMONY	mg/kg	26.1	0	27.3	105	75-125
ARSENIC	mg/kg	26.1	1.5	26.9	97	75-125
BARIUM	mg/kg	209	57.5	291	112	75-125
BERYLLIUM	mg/kg	10.5	0	11.2	107	75-125
CADMIUM	mg/kg	13.1	0.80	14.5	105	75-125
CHROMIUM	mg/kg	157	3.6	173	108	75-125
COBALT	mg/kg	52.3	1.9	57.6	107	75-125
COPPER	mg/kg	52.3	4.9	62.0	109	75-125
LEAD	mg/kg	157	1.3	170	107	75-125
MOLYBDENUM	mg/kg	105	0.38	111	105	75-125
NICKEL	mg/kg	52.3	2.4	58.5	107	75-125
SELENIUM	mg/kg	26.1	0	28.3	108	75-125
SILVER	mg/kg	52.3	0	54.9	105	75-125
THALLIUM	mg/kg	209	0	217	104	75-125
VANADIUM	mg/kg	105	12.4	124	106	75-125
ZINC	mg/kg	26.1	14.6	43.1	109	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	REC
ANTIMONY	mg/kg	26.1	27.3	105	0	20	75-125
ARSENIC	mg/kg	26.1	26.8	97	0	20	75-125
BARIUM	mg/kg	209	290	111	1	20	75-125
BERYLLIUM	mg/kg	10.5	11.2	107	0	20	75-125
CADMIUM	mg/kg	13.1	14.5	105	0	20	75-125
CHROMIUM	mg/kg	157	172	107	1	20	75-125
COBALT	mg/kg	52.3	57.5	106	1	20	75-125
COPPER	mg/kg	52.3	61.4	108	1	20	75-125
LEAD	mg/kg	157	168	106	1	20	75-125
MOLYBDENUM	mg/kg	105	111	105	0	20	75-125
NICKEL	mg/kg	52.3	58.2	107	0	20	75-125
SELENIUM	mg/kg	26.1	28.3	108	0	20	75-125
SILVER	mg/kg	52.3	55.0	105	0	20	75-125
THALLIUM	mg/kg	209	218	104	0	20	75-125

105764

FORM-5A Metal

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 6010

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Soil
		Batch No:	99M1913L		
MS Filename:	-	Date Analyzed:	060299	Time Analyzed:	11:44
MSD Filename:	-	Date Analyzed:	060299	Time Analyzed:	11:48
MS Sample No:	20242-820	Sample Lab ID:	99-3897-2	Moisture, %	4.4

Continued *Batch No.: 99M1913L Method: 6010 Page: 2*

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
VANADIUM	mg/kg	105	124	106	0	20	75-125
ZINC	mg/kg	26.1	42.6	107	2	20	75-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

105765

non clie

FORM-5A Metal

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 7470

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Water
		Batch No:	99M1921N		
MS Filename:	-	Date Analyzed:	060299	Time Analyzed:	12:07
MSD Filename:	-	Date Analyzed:	060299	Time Analyzed:	12:10
MS Sample No:	**EFF**	Sample Lab ID:	99-3885-1		

Spiked Components	Unit	Spike Added	Concentration Unspiked	MS	MS Rec% #	QC Limit, % REC
MERCURY	μg/L	5.0	0	4.95	99	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	REC
MERCURY	μg/L	5.0	4.97	99	0	20	75-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

105780

non client

FORM-5A Metal

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 6010

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Water
		Batch No:	99M1911L		
MS Filename:	-	Date Analyzed:	060299	Time Analyzed:	09:41
MSD Filename:	-	Date Analyzed:	060299	Time Analyzed:	09:45
MS Sample No:	U8-013	Sample Lab ID:	99-3899-2		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
ANTIMONY	µg/L	500	0	543	109	75-125
ARSENIC	µg/L	500	0	485	97	75-125
BARIUM	µg/L	4000	136	4450	108	75-125
BERYLLIUM	µg/L	200	0	216	108	75-125
CADMIUM	µg/L	250	0	270	108	75-125
CHROMIUM	µg/L	3000	0	3230	108	75-125
COBALT	µg/L	1000	0	1050	105	75-125
COPPER	µg/L	1000	0	1040	104	75-125
LEAD	µg/L	3000	0	3150	105	75-125
MOLYBDENUM	µg/L	2000	0	2110	106	75-125
NICKEL	µg/L	1000	0	1050	105	75-125
SELENIUM	µg/L	500	0	541	108	75-125
SILVER	µg/L	1000	0	1050	105	75-125
THALLIUM	µg/L	4000	0	4050	101	75-125
VANADIUM	µg/L	2000	0	2130	107	75-125
ZINC	µg/L	500	0	547	109	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
ANTIMONY	µg/L	500	543	109	0	20	75-125
ARSENIC	µg/L	500	482	96	1	20	75-125
BARIUM	µg/L	4000	4420	107	1	20	75-125
BERYLLIUM	µg/L	200	215	108	0	20	75-125
CADMIUM	µg/L	250	269	108	0	20	75-125
CHROMIUM	µg/L	3000	3220	107	1	20	75-125
COBALT	µg/L	1000	1050	105	0	20	75-125
COPPER	µg/L	1000	1030	103	1	20	75-125
LEAD	µg/L	3000	3140	105	0	20	75-125
MOLYBDENUM	µg/L	2000	2090	105	1	20	75-125
NICKEL	µg/L	1000	1050	105	0	20	75-125
SELENIUM	µg/L	500	539	108	0	20	75-125
SILVER	µg/L	1000	1050	105	0	20	75-125
THALLIUM	µg/L	4000	4040	101	0	20	75-125

105766

non clean

FORM-5A Metal

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 6010

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Water
		Batch No:	99M1911L		
MS Filename:	-	Date Analyzed:	060299	Time Analyzed:	09:41
MSD Filename:	-	Date Analyzed:	060299	Time Analyzed:	09:45
MS Sample No:	U8-013	Sample Lab ID:	99-3899-2		

Continued *Batch No.: 99M1911L Method: 6010 Page: 2*

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
VANADIUM	μg/L	2000	2120	106	1	20	75-125
ZINC	μg/L	500	541	108	1	20	75-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

105767

FORM-7 Metal

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 7470

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Soil
		Batch No:	99M1918N		
LCS Filename:	-	Date Analyzed:	060299	Time Analyzed:	10:51
LCSD Filename:	-	Date Analyzed:	060299	Time Analyzed:	10:53

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
MERCURY	mg/kg	0.833	0	0.833	100	80-120
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
MERCURY	mg/kg	0.833	0.830	100	0	20	80-120
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D - Spiked components diluted out

Comments: _____

105775

FORM-7 Metal

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 6010

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Soil
		Batch No:	99M1913L		
LCS Filename:	-	Date Analyzed:	060299	Time Analyzed:	11:26
LCSD Filename:	-	Date Analyzed:	060299	Time Analyzed:	11:30

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
ANTIMONY	mg/kg	25	0	27.6	110	80-120
ARSENIC	mg/kg	25	0	24.8	99	80-120
BARIUM	mg/kg	200	0	216	108	80-120
BERYLLIUM	mg/kg	10	0	10.9	109	80-120
CADMIUM	mg/kg	12.5	0	13.8	110	80-120
CHROMIUM	mg/kg	150	0	163	109	80-120
COBALT	mg/kg	50	0	54.7	109	80-120
COPPER	mg/kg	50	0	52.4	105	80-120
LEAD	mg/kg	150	0	162	108	80-120
MOLYBDENUM	mg/kg	100	0	108	108	80-120
NICKEL	mg/kg	50	0	54.4	109	80-120
SELENIUM	mg/kg	25	0	27.3	109	80-120
SILVER	mg/kg	50	0	51.8	104	80-120
THALLIUM	mg/kg	200	0	212	106	80-120
VANADIUM	mg/kg	100	0	108	108	80-120
ZINC	mg/kg	25	0	27.6	110	80-120
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
ANTIMONY	mg/kg	25	27.4	110	0	20	80-120
ARSENIC	mg/kg	25	24.6	98	1	20	80-120
BARIUM	mg/kg	200	216	108	0	20	80-120
BERYLLIUM	mg/kg	10	10.9	109	0	20	80-120
CADMIUM	mg/kg	12.5	13.7	110	0	20	80-120
CHROMIUM	mg/kg	150	163	109	0	20	80-120
COBALT	mg/kg	50	54.5	109	0	20	80-120
COPPER	mg/kg	50	52.4	105	0	20	80-120
LEAD	mg/kg	150	162	108	0	20	80-120
MOLYBDENUM	mg/kg	100	107	107	1	20	80-120
NICKEL	mg/kg	50	54.5	109	0	20	80-120
SELENIUM	mg/kg	25	27.1	108	1	20	80-120
SILVER	mg/kg	50	51.8	104	0	20	80-120
THALLIUM	mg/kg	200	211	106	0	20	80-120

105776

FORM-7 Metal

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 6010

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Soil
		Batch No:	99M1913L		
LCS Filename:	-	Date Analyzed:	060299	Time Analyzed:	11:26
LCSD Filename:	-	Date Analyzed:	060299	Time Analyzed:	11:30

Continued *Batch No.: 99M1913L Method: 6010 Page: 2*

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
VANADIUM	mg/kg	100	108	108	0	20	80-120
ZINC	mg/kg	25	27.6	110	0	20	80-120
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D - Spiked components diluted out

Comments: _____

105777

FORM-7 Metal

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 7470

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Water
		Batch No:	99M1921N		
LCS Filename:	-	Date Analyzed:	060299	Time Analyzed:	11:57
LCSD Filename:	-	Date Analyzed:	060299	Time Analyzed:	11:59

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
MERCURY	μg/L	5.0	0	4.88	98	80-120
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
MERCURY	μg/L	5.0	4.90	98	0	20	80-120
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

105768

FORM-7 Metal

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 6010

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Water
		Batch No:	99M1911L		
LCS Filename:	-	Date Analyzed:	060299	Time Analyzed:	09:19
LCSD Filename:	-	Date Analyzed:	060299	Time Analyzed:	09:22

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
ANTIMONY	µg/L	500	0	555	111	80-120
ARSENIC	µg/L	500	0	490	98	80-120
BARIUM	µg/L	4000	0	4500	113	80-120
BERYLLIUM	µg/L	200	0	223	112	80-120
CADMIUM	µg/L	250	0	278	111	80-120
CHROMIUM	µg/L	3000	0	3340	111	80-120
COBALT	µg/L	1000	0	1120	112	80-120
COPPER	µg/L	1000	0	1080	108	80-120
LEAD	µg/L	3000	0	3270	109	80-120
MOLYBDENUM	µg/L	2000	0	2170	109	80-120
NICKEL	µg/L	1000	0	1110	111	80-120
SELENIUM	µg/L	500	0	547	109	80-120
SILVER	µg/L	1000	0	1070	107	80-120
THALLIUM	µg/L	4000	0	4210	105	80-120
VANADIUM	µg/L	2000	0	2200	110	80-120
ZINC	µg/L	500	0	561	112	80-120
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
ANTIMONY	µg/L	500	551	110	1	20	80-120
ARSENIC	µg/L	500	488	98	0	20	80-120
BARIUM	µg/L	4000	4420	111	2	20	80-120
BERYLLIUM	µg/L	200	219	110	2	20	80-120
CADMIUM	µg/L	250	276	110	1	20	80-120
CHROMIUM	µg/L	3000	3280	109	2	20	80-120
COBALT	µg/L	1000	1090	109	3	20	80-120
COPPER	µg/L	1000	1060	106	2	20	80-120
LEAD	µg/L	3000	3210	107	2	20	80-120
MOLYBDENUM	µg/L	2000	2130	107	2	20	80-120
NICKEL	µg/L	1000	1090	109	2	20	80-120
SELENIUM	µg/L	500	542	108	1	20	80-120
SILVER	µg/L	1000	1050	105	2	20	80-120
THALLIUM	µg/L	4000	4180	105	0	20	80-120

105778

FORM-7 Metal

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 6010

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993897
Project ID:	Burn Pit #2	Project No:	20242	Sample Matrix:	Water
		Batch No:	99M1911L		
LCS Filename:	-	Date Analyzed:	060299	Time Analyzed:	09:19
LCSD Filename:	-	Date Analyzed:	060299	Time Analyzed:	09:22

Continued *Batch No.: 99M1911L* *Method: 6010* *Page: 2*

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
VANADIUM	μg/L	2000	2160	108	2	20	80-120
ZINC	μg/L	500	549	110	2	20	80-120
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D - Spiked components diluted out

Comments: _____

105779

Applied P & Ch Laboratory

Wet Analysis Results for Method ASTM-D2216

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Anal. Method	ASTM-D2216
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	

Component Name: Moisture, percent in soil
CAS No: 7732-18-5

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
99-3897-2	20242-820	Soil	05/27/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	4.4	
99-3897-3	20242-821	Soil	05/27/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	14.3	
99-3897-4	20242-822	Soil	05/27/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	12.5	
99-3897-5	20242-823	Soil	05/27/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	12.3	
99-3897-6	20242-824	Soil	05/27/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	9.9	
99-3897-7	20242-825	Soil	05/27/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	13.2	
99-3897-8	20242-826	Soil	05/27/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	8.6	
99-3897-9	20242-827	Soil	05/27/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	5.7	
99-3897-10	20242-828	Soil	05/27/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	23.0	
99-3897-11	20242-829	Soil	05/27/99	05/28/99	06/01/99	99W4121	%Moisture	0.5	12.2	
99-3897-12	20242-830	Soil	05/27/99	05/28/99	06/01/99	99W4121	%Moisture	0.5	12.5	
99-3897-14	20242-832	Soil	05/27/99	05/28/99	06/01/99	99W4121	%Moisture	0.5	5.9	
99-3897-15	20242-833	Soil	05/27/99	05/28/99	06/01/99	99W4121	%Moisture	0.5	5.0	
99-3897-16	20242-834	Soil	05/27/99	05/28/99	06/01/99	99W4121	%Moisture	0.5	3.8	
99-3897-17	20242-835	Soil	05/27/99	05/28/99	06/01/99	99W4121	%Moisture	0.5	11.7	
99-3897-18	20242-836	Soil	05/27/99	05/28/99	06/01/99	99W4121	%Moisture	0.5	9.5	
99-3897-19	20242-837	Soil	05/27/99	05/28/99	06/01/99	99W4121	%Moisture	0.5	9.3	

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

105793

Applied P & Ch Laboratory

Wet Analysis Results for Method ASTM-D2216

Client Name:	OHM Remediation Services (Irvine)	Project No:	20242	Anal. Method	ASTM-D2216
Project ID:	Burn Pit #2	Service ID:	993897	Collected by:	

Component Name: Moisture, percent in soil

CAS No: 7732-18-5

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
99-3897-2	20242-820	Soil	05/27/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	4.4	
99-3897-3	20242-821	Soil	05/27/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	14.3	
99-3897-4	20242-822	Soil	05/27/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	12.5	
99-3897-5	20242-823	Soil	05/27/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	12.3	
99-3897-6	20242-824	Soil	05/27/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	9.9	
99-3897-7	20242-825	Soil	05/27/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	13.2	
99-3897-8	20242-826	Soil	05/27/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	8.6	
99-3897-9	20242-827	Soil	05/28/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	5.7	
99-3897-10	20242-828	Soil	05/28/99	05/28/99	06/01/99	99W4120	%Moisture	0.5	23.0	
99-3897-11	20242-829	Soil	05/28/99	05/28/99	06/01/99	99W4121	%Moisture	0.5	12.2	
99-3897-12	20242-830	Soil	05/28/99	05/28/99	06/01/99	99W4121	%Moisture	0.5	12.5	
99-3897-14	20242-832	Soil	05/28/99	05/28/99	06/01/99	99W4121	%Moisture	0.5	5.9	
99-3897-15	20242-833	Soil	05/28/99	05/28/99	06/01/99	99W4121	%Moisture	0.5	5.0	
99-3897-16	20242-834	Soil	05/28/99	05/28/99	06/01/99	99W4121	%Moisture	0.5	3.8	
99-3897-17	20242-835	Soil	05/28/99	05/28/99	06/01/99	99W4121	%Moisture	0.5	11.7	
99-3897-18	20242-836	Soil	05/28/99	05/28/99	06/01/99	99W4121	%Moisture	0.5	9.5	
99-3897-19	20242-837	Soil	05/28/99	05/28/99	06/01/99	99W4121	%Moisture	0.5	9.3	

Note: Q - Qualifier.

Qualifier: U - Not Detected or less than MDL

B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

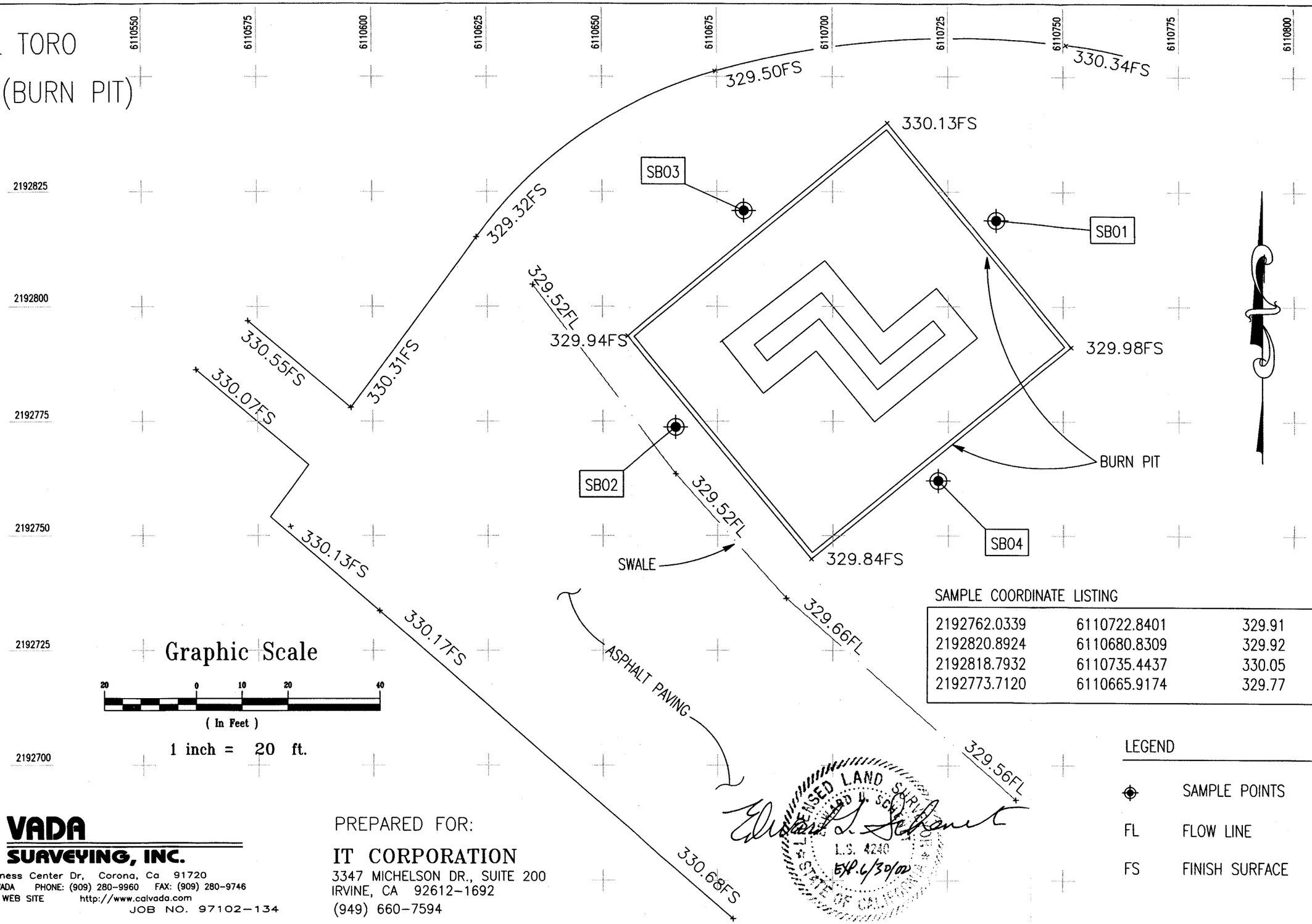
AMENDED

AUG 11 1999

105793

Appendix H
Land Survey Data

MCAS, EL TORO
MSC B2 (BURN PIT)



SAMPLE COORDINATE LISTING

2192762.0339	6110722.8401	329.91	SB-01
2192820.8924	6110680.8309	329.92	SB-02
2192818.7932	6110735.4437	330.05	SB-03
2192773.7120	6110665.9174	329.77	SB-04

LEGEND

- ⊕ SAMPLE POINTS
- FL FLOW LINE
- FS FINISH SURFACE

DATE OF SURVEY: 6-1-99

LICENSED LAND SURVEYOR EDWARD L. SCHMIDT L.S. 4240 EXP. 6/30/00 STATE OF CALIFORNIA

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

JOB NO. 97102-134

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