OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

March 18, 1998

Contracting Officer
Naval Facilities Engineering Command, Southwest Division
Mr. Dave Jesperson 57 CS1.DJ
Building 131, 1220 Pacific Highway
San Diego, California 92132-5187

Attn: Ms. Lynn Marie Hornecker, Code 56MC.LMH

Re: Tank Removal and Site Closure Report
Underground Storage Tank (USTs) 326A and 326B
at Marine Corps Air Station El Toro, California
SWDIV Contract No. N68711-93-D-1459
DCN SW 4631, Delivery Order No. 70

This Tank Closure Report summarizes the field activities conducted and associated with the closure of two underground storage tanks (USTs) designated as UST 326A and UST 326B at Marine Corps Air Station, El Toro, California (hereinafter referred to as "the Station"). The location of the Station is shown on Figure 1-1, Facility Location Map.

USTs 326A and 326B were located in the south quadrant of the Station, west of Agua Chinon Wash. Both USTs were approximately 5 feet east of existing Building 326, Storage House and used for storage of JP-5. The UST locations are shown on Figure 1-2.

UST 326B is identified as Solid Waste Management Unit (SWMU) 283 in the Resource Conservation and Recovery Act Facility Assessment (RFA) report (Jacobs Engineering Group Inc. [JEG], 1993.)

As part of the RFA field work, one vertical soil boring was drilled by JEG in close proximity of UST 326B to a total depth of 25 feet below ground surface (bgs). No Petroleum hydrocarbons were detected in any of the six soil samples collected during the drilling of the boring. JEG recommended "No Further Action" for SWMU 283 (JEG 1993). Copies of the RFA report analytical data and sample location map are included in Appendix A, RFA Background Information.

Summary of Field Activities

Field activities were conducted in accordance with the approved *Draft Work Plan, Remediation of Various Underground Tanks at the Marine Corps Air Station El Toro, California, OHM 1995*. Details of the USTs 326A and 326B are described in the Tank Closure Summary Sheet provided as Appendix B.

2031 Main Street ■ Irvine, California 92614-6509 ■ 714-263-1146 ■ FAX: 714-263-1147

Permitting and Utility Investigation
Prior to initiating field activities, OHM completed an Orange County Health Care Agency (OCHCA) Facility Modification Application and received approval (Plan Check No. 97-069) for the removal of USTs 326A and 326B. The OCHCA Facility Modification Application and approval form is provided as Appendix C.

A geophysical survey of the UST 326 site was conducted by OHM subcontractor, Geovision Geophysical Services Inc., to locate the underground utilities in the area. The Geophysical Survey report is provided in Appendix D.

UST Gauging, Removal, and Disposal
USTs 326A and 326B were identified as a 1,700-gallon, concrete UST and a 250-gallon, steel UST, respectively. On October 10, 1997 OHM initiated the initial excavation and exposure of the UST area. After exposure of the top of the UST area, it was discovered that there were two precast concrete vaults side by side. The first concrete vault had some product in it and the second concrete vault had a steel UST that was used as a sump/oil water separator. UST 326B also had some sludge in it. Both concrete vaults were inspected in place and no visible damage was evident. Approximately 270 gallons of liquid product was pumped from both the USTs 326A and 326B vaults. Figure 1-3 shows the schematic of USTs 326A and 326B.

On October 16, 1997, UST 326B was removed from the concrete vault and transported to the Station's central treatment facility (CTF) compound (operated and maintained by OHM under a different phase of the contract) for decontamination using steam water and Alconox detergent. The entire product and vent piping between the USTs 326A and 326B was cut and cement-grouted within the excavation boundary with the concurrence of an OCHCA field inspector. The bottom of concrete vault for UST 326B was at an approximate depth of 12 ½ feet bgs. The bottom of UST 326A vault was at an approximate depth of 9 feet bgs.

After the removal of the steel UST 326B and cleaning of the two vaults, OHM requested permission from the OCHCA field inspector for in-place closure of the precast concrete vaults. At the direction of an OCHCA field inspector, on October 17, 1997 both precast concrete vaults were filled with water and left for 3 days to verify the integrity of the concrete vaults and to check if there were any cracks.

On October 20, 1997, the OCHCA field inspector, Station's Resident Office In Charge of Construction (ROICC) and OHM superintendent visited the 326 site and observed that the water level remained the same and hence there were no leaks in the vaults. Therefore, OCHCA field inspector approved OHM's request to leave the vaults in-place and fill them with 3-inch rock to 2 feet bgs, followed by geotextile fabric, followed by ½-inch base rock to grade.

UST Content Sampling, Analysis, and Results
Per OCHCA field inspector approval, no confirmation soil samples were collected and analyzed. Certified laboratory analytical reports for the content products provided by Applied Physics and Chemistry Laboratory are included in Appendix E, Certified Laboratory Analytical Reports. Photographs of the field activities are provided in Appendix F, Site Activity Photographs.

Waste Management
On October 8, 1997, approximately 220 gallons of liquid was pumped from the two concrete vaults and 50 gallons of sludge from the UST 326B. The liquid content was sampled and the liquid was identified as water with diesel fuel and a range of petroleum hydrocarbons. The liquid from the concrete vaults was transported to the Station's Defense Reutilization and Marketing Office (DRMO) yard for recycling.

One 55-gallon drum containing UST 326B sludge was sampled and disposed off-site as non-RCRA waste to the Chemical Waste Management Facility in Kettleman City. A copy of the waste profile and manifest are included in Appendix G, Waste Profile and Manifest. During exposure of the tanks, two cubic yards of concrete and ¼ ton of steel rebar were removed and transferred to the Station's CTF compound for recycling.

UST 326B was decontaminated using steam water and Alconox detergent. UST 326B was tested to verify the absence of flammable vapors and then transported to Station's CTF compound. UST 326B was certified "clean" by a Marine Chemist prior to transportation to the Station's DRMO yard for recycling. The Marine Chemist Certification and the DRMO receipt are provided as Appendix H.

Approximately 2,500 gallons of rinse water was generated from triple-rinsing the UST 326B, cleaning of the vaults, and vault leak test. Rinse water was then transferred to the CTF compound for treatment through the carbon adsorption system (operated and maintained under another phase of this contract). The treated water was then transferred to the El Toro Golf Course holding tank for re-use.

Land Surveying
After exposure of concrete vaults, a California-registered land surveyor from Cal Vada Surveying, Inc surveyed the excavation limits. The land surveying data for USTs 326A and 326B are presented in Appendix I, Land Survey Data.

Site Restoration
Following the direction of the OCHCA field inspector and with the concurrence of the Station ROICC, the concrete vaults were backfilled in place. On October 22, 1997, OHM initiated the backfilling activities using 3-inch rock from bottom to 2 feet bgs, followed by geotextile fabric, followed by ½-inch base rock to finish grade. The site was restored to original grade. Compaction tests were not performed based on the nature of the materials used for backfill.

A Final Site Inspection was conducted and approved on October 29, 1997 by the Station ROICC and the Building 326 tenant. A copy of the Final Site Inspection Record is included in Appendix J.

Conclusions and Recommendation

Based on the information presented in this report, the following conclusions are reached:

- UST 326B was removed and recycled.
- Post-inspection of the UST vaults showed no deterioration in the structures and the water leak test confirmed the integrity of the pre-cast concrete vaults.
- There was no evidence of spillage or areas of heavy stains observed in and around the excavation.
- There was no groundwater encountered in the excavation. The depth to groundwater is estimated to be approximately 103 feet bgs.
- The concrete vaults were backfilled in place as approved by the OCHCA field inspector.

Based on the information provided in this report, OHM, on behalf of the Station, recommends that a "No Further Action" status be granted by OCHCA for UST 326A and UST 326B (also known as SWMU 283).

Should you have any questions or comments, please feel free to contact the undersigned at (714) 263-1146.

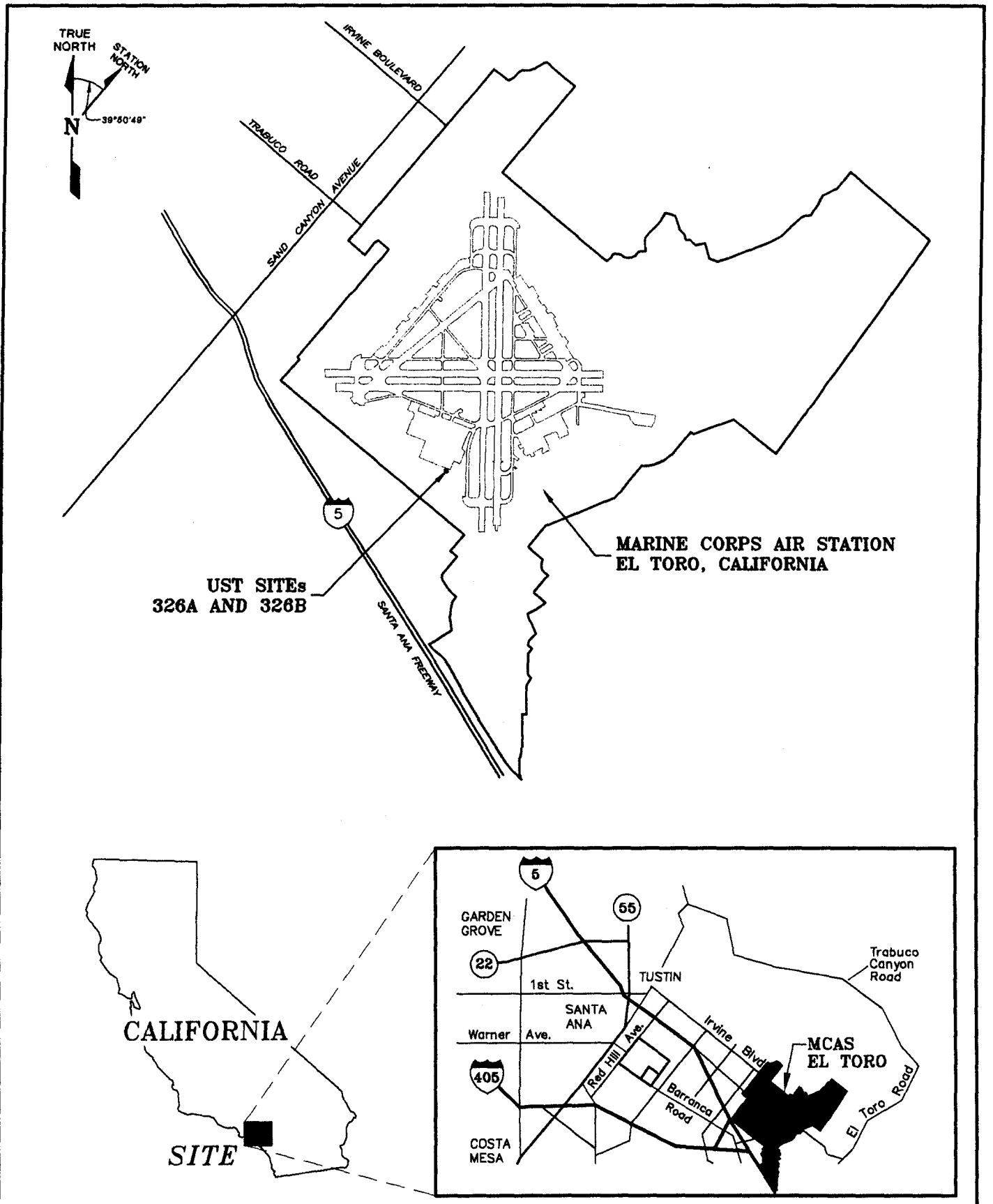
Sincerely,
OHM Remediation Services Corporation

Dhananjay Rawal
Project Engineer

Jay Neuhaus, R.G.
Project Manager

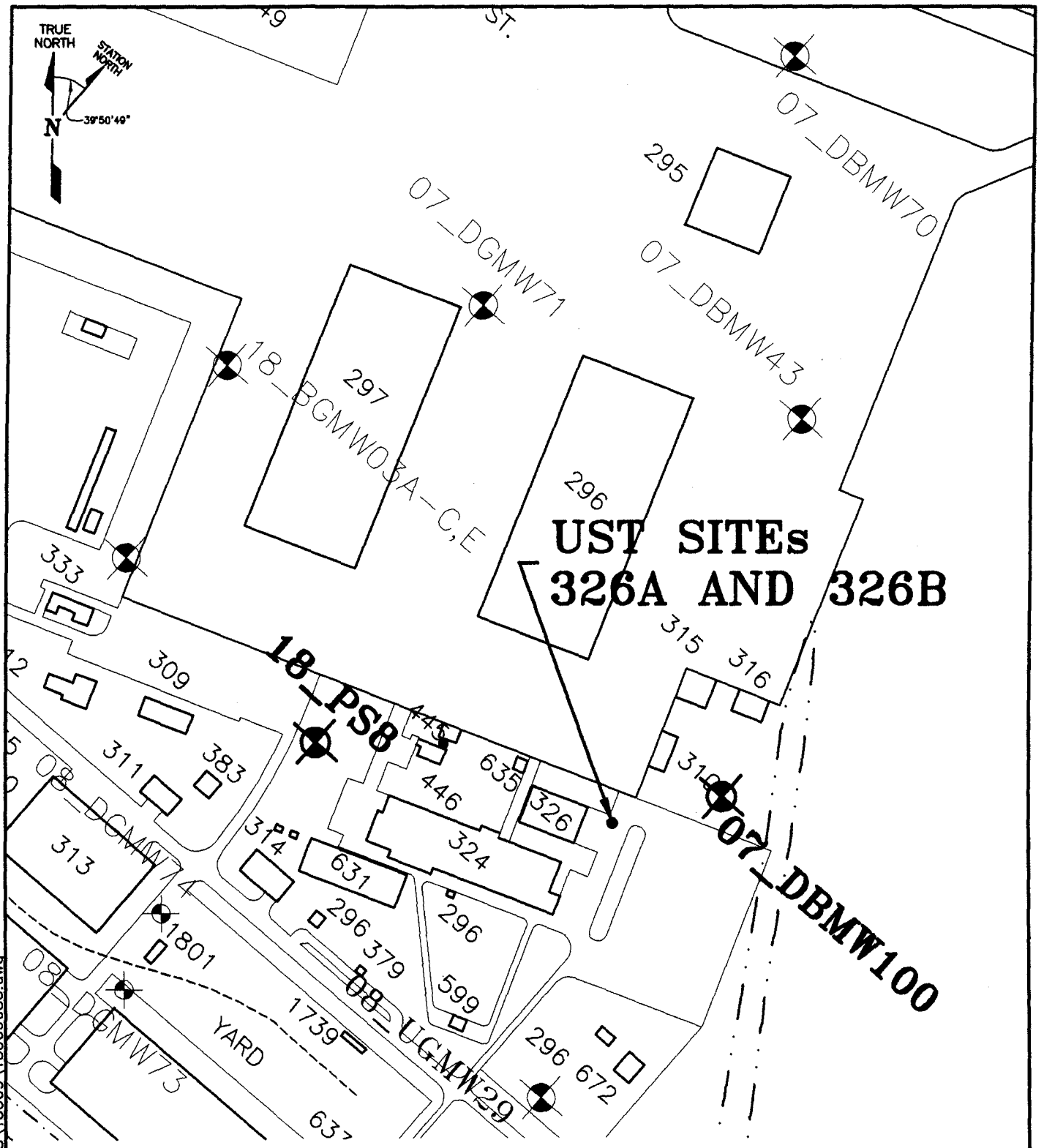
Attachments:

Appendix A	RFA Background Information
Appendix B	Tank Closure Summary Sheet
Appendix C	OCHCA Facility Modification Application
Appendix D	Geophysical Survey Data
Appendix E	Laboratory Analytical Reports
Appendix F	Site Activity Photographs
Appendix G	Waste Profile and Manifest
Appendix H	Marine Chemist Certification and Tank Refuse Disposal Receipt
Appendix I	Land Survey Data
Appendix J	Final Site Inspection Record



OHM Remediation Services Corp. A Subsidiary of OHM Corporation SAN DIEGO, CA	DRAWN BY R. PIRMORADIAN	DATE 02/10/98	FACILITY LOCATION MAP UST SITEs 326A AND 326B MARINE CORPS AIR STATION EL TORO, CALIFORNIA				
	CHECKED BY	DATE					
	APPROVED BY DR	DATE 02/11/98					
CONTRACT NAME SWDIV	PROJECT MANAGER	DATE					
AUTOCAD FILE No. 18609087.DWG	PLOT SCALE 1=1	SHEET 1	OF 1	SCALE NONE	DOCUMENT CONTROL No. SW4631	OHM PROJECT No. 18609	FIGURE No. FIG 1-1	REVISION 0

Feb 10, 1998 - 16:44:46 G:\PROJECTS\18609\18609087.dwg



EXPLANATION:

GROUNDWATER MONITORING WELL

GRAPHIC SCALE

300 0 150 300

(IN FEET)

OHM Remediation Services Corp. A Subsidiary of OHM Corporation SAN DIEGO, CA				DRAWN BY R. PIRMORADIAN	DATE 02/10/98	LOCATION MAP UST SITEs 326A AND 326B MARINE CORPS AIR STATION EL TORO, CALIFORNIA		
				CHECKED BY	DATE			
				APPROVED BY DR	DATE 2/11/98			
CONTRACT NAME SWDIV				PROJECT MANAGER	DATE			
AUTOCAD FILE No. 18609088.DWG	PLOT SCALE 1=1	SHEET 1	OF 1	SCALE AS NOTED	DOCUMENT CONTROL No. SW4631	OHM PROJECT No. 18609	FIGURE No. FIG 1-2	REVISION 0

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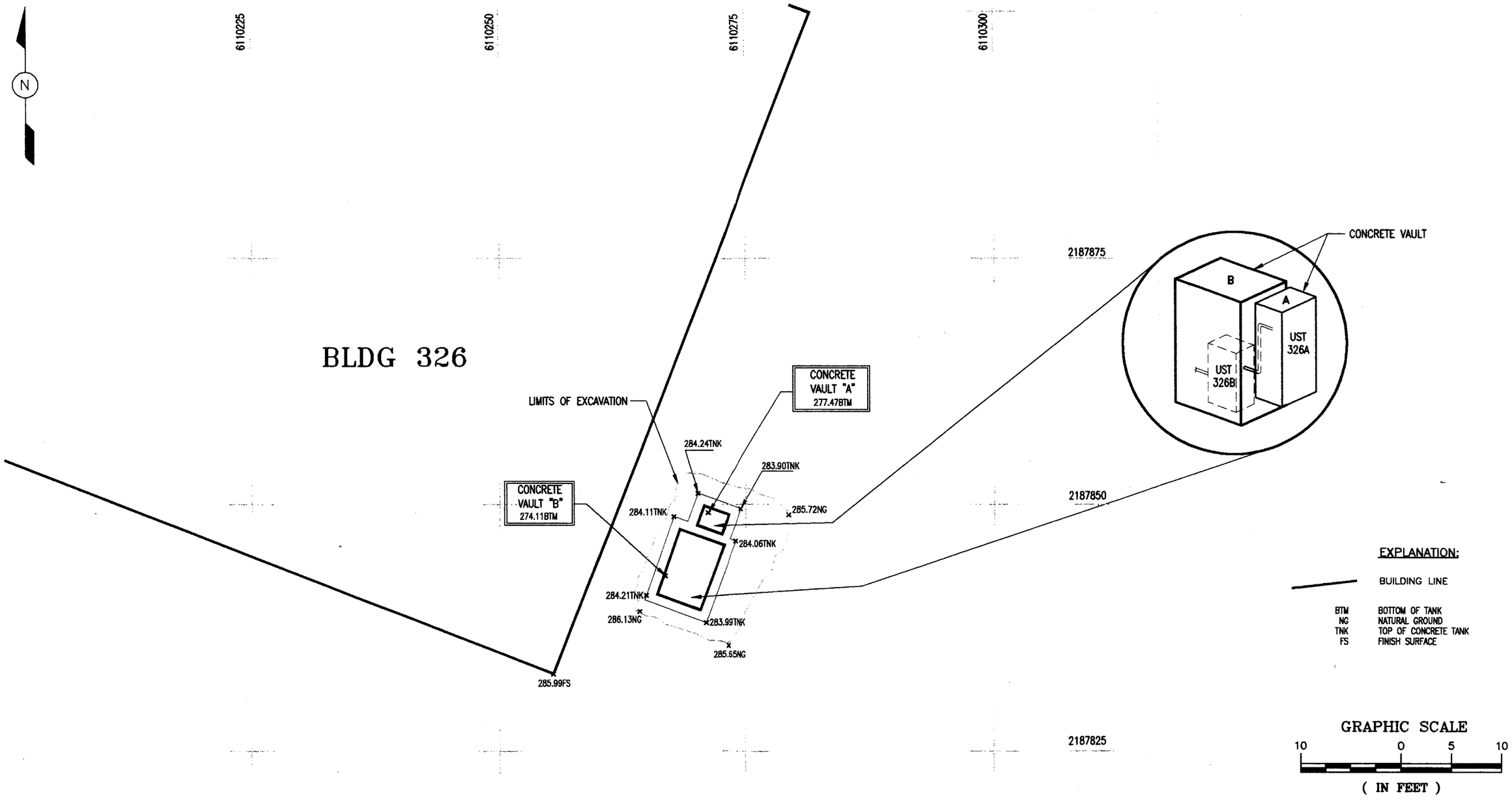

SAMPLE COORDINATE LISTING

DESCRIPTIN	NORTHING	EASTING	ELEV.
256-SB01	2194161.3950	6108615.5786	300.67
256-SB02	2194160.0540	6108611.7401	300.63

REVISIONS

REV. No.	DESCRIPTION	DATE	APPROVED
01	97102-38.DWG BY CALVADA	10/22/97	
02	OHM DRAWING 18609102.DWG BY R. PIRMORADIAN	02/11/98	

CONTRACT NAME: SWDIV

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

DRAWN BY: R. PIRMORADIAN DATE: 02/11/98
CHECKED BY: DATE:
APPROVED BY: DR DATE: 3/1/98
PROJECT MANAGER: DATE:
AUTOCAD FILE No.: 18609102.DWG

SCHEMATIC PLAN
UST SITEs 326A AND 326B

MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

SCALE	SHEET	OF	DOCUMENT CONTROL No.	OHM PROJECT No.	DRAWING No.
AS NOTED	1	1	SW4631	18609	FIG 1-3

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Appendix A
RFA Background Information

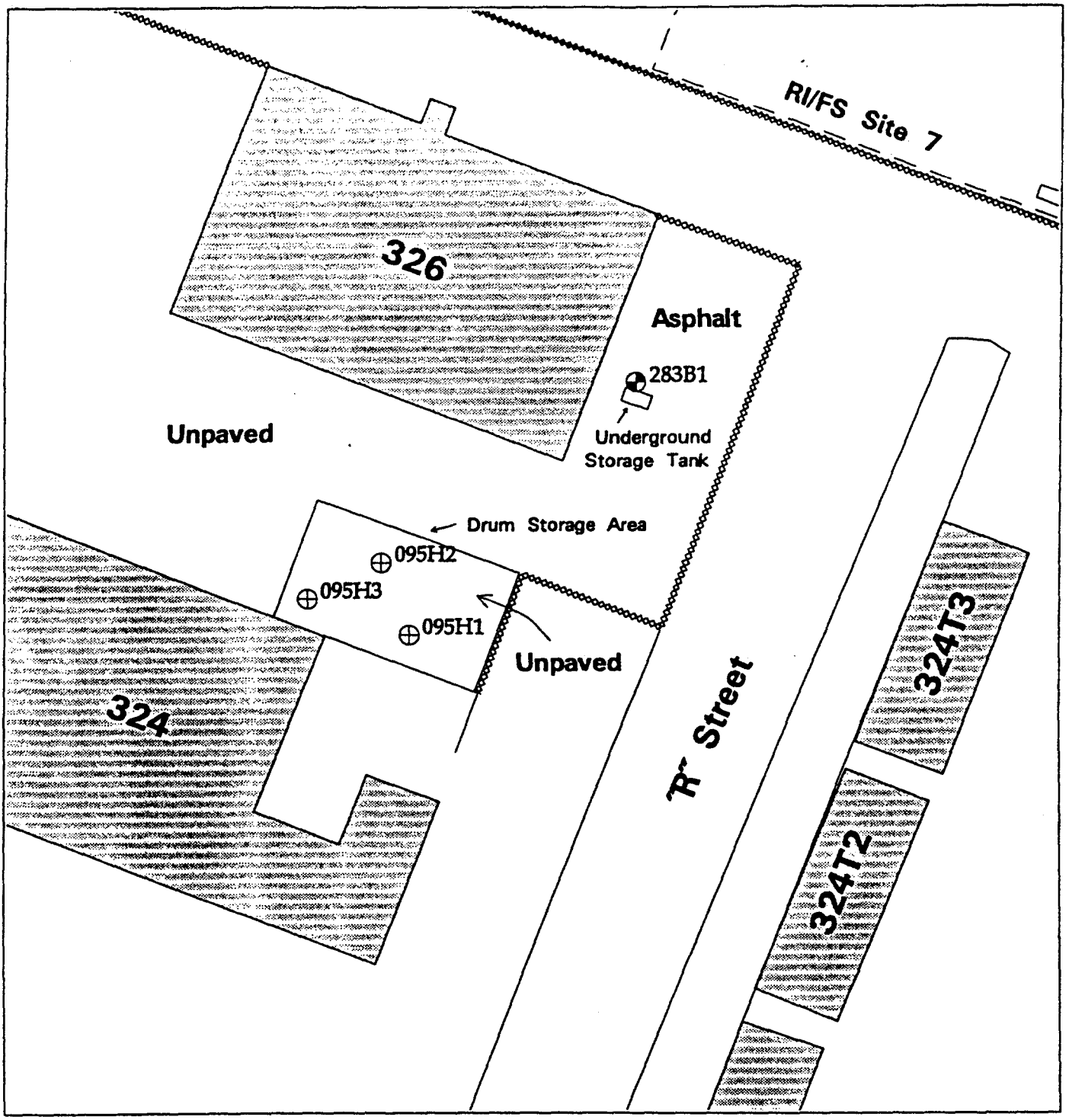


Figure 32 Sample Location Map

Boring Location and Number:

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

Features:

- Building
- Concrete
- Fence
- Railroad

Scale

0 20 40 80 Feet

SWMU/AOC Number and Type:

95 - Engine Test Cell

283 - Underground Storage Tank

MCAS El Toro
RCRA Facility Assessment

MCAS EL TORO RCRA FACILITY ASSESSMENT -- SAMPLING VISIT RESULTS

SWMU/AOC NUMBER	SWMU/AOC TYPE (FIGURE)	BORING NUMBER	SAMPLE DEPTH (FEET)	ANALYTICAL TEST RESULTS							RECOMMENDATIONS	
				TPH (mg/kg)	TFH (mg/kg)		VOCs (ug/kg)	SVOCs (ug/kg)	PESTICIDES/PCBs (ug/kg)	METALS (mg/kg)	Action	Rationale
					Gasoline	Diesel						
283	Underground Storage Tank (32)	B1	5	ND	ND	ND	Methylene Chloride-8 BJ *	NA	NA	NA	NFA	TPH/TFH < 100 ppm VOCs < CRDL
			10	ND	ND	ND	Methylene Chloride-7 BJ * Toluene-2 J TCE-2 J	NA	NA	NA		
			10 (Duplicate)	ND	ND	ND	Methylene Chloride-7 BJ * Toluene-2 J TCE-2 J	NA	NA	NA		CRDL - Contract Required Detection Limit
			15	ND	ND	ND	Methylene Chloride-8 BJ * Toluene-2 J TCE-3 J Acetone-5 BJ *	NA	NA	NA		
			20	ND	ND	ND	Methylene Chloride-7 BJ * Acetone-4 BJ *	NA	NA	NA		
			25	ND	ND	ND	Methylene Chloride-8 BJ * Toluene-2 J TCE-1 J	NA	NA	NA		

Appendix B
Tank Closure Summary Sheet

TANK CLOSURE SUMMARY SHEET

Underground Storage Tank ID:	UST 326A and UST 326B
Location:	Marine Corps Air Station El·Toro, California
Site:	Building 326 West of Agua Chinon Wash
UST Size and Construction:	326A: concrete, 1,700-gallon capacity 326B: steel, 250-gallon capacity
Original Tank Usage:	Storage of JP-5 fuel
UST Contents Disposed:	270 gallons of fuel and water, to DRMO
UST Exposure Date:	October 10, 1997
OCHCA UST Removal Permit No.:	97-069
Confirmation Soil Sample Collected:	not applicable
OCHCA Field Inspector Present:	Yes, during UST inspection
Sample Analysis Methods: (UST Liquid Contents)	Ignitability (EPA Method 1010) BTEX (EPA Method 8020) TPH-gasoline (CA LUFT 8015M) TPH-diesel (CA LUFT 8015M) TPH-motor oil ((CA LUFT 8015M) TRPH (EPA Method 418.1) Metals (EPA Method 6010/7000)
Excavation Backfill:	3-inch rock to 2' bgs. Geotextile fabric on top of 3" rock. ½-inch base rock to grade.
Depth to Groundwater:	103 feet
Reference:	07_DBMW100

Appendix C
Orange County Health Care Agency Modification Application and Approval Forms

COUNTY OF ORANGE

TOM URAM
DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

ENVIRONMENTAL HEALTH DIVISION
ROBERT E. MERRYMAN, REHS, MPH
DEPUTY DIRECTOR

HEALTH CARE AGENCY
PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH DIVISION
2009 E. EDINGER AVENUE
SANTA ANA, CALIFORNIA 92705
(714) 667-3700

PC # 97-069 (1)

FACILITY MODIFICATION APPLICATION
(INSTALLATION/REMOVAL/REPAIR)
(COMPLETE PAGES 1 & 2)

DATE: 3/25/97

FACILITY INFORMATION

NAME: MARINE CORPS AIR STATION ELTORO

STREET ADDRESS: P O BOX 95001

CITY: SANTA ANA CA 92709

TOTAL NUMBER OF TANKS (AFTER INSTALLATION/REMOVAL) AT THIS LOCATION: 0

TYPE OF BUSINESS:
- ☐ GASOLINE STATION
- ☒ GOVERNMENT
- ☐ FARM
- ☐ OTHER

TANK OWNER *NAME (CORP., INDIVIDUAL, PUBLIC AGENCY):*

MCAS ELTORO A/C ENV. & SAFETY

STREET ADDRESS: P O BOX 95001

CITY: SANTA ANA

STATE: CA ZIP 92709-5001

TELEPHONE NO: 714-726-6607

BILLING ADDRESS INFORMATION

BILL TO NAME: OHM REMEDIATION SERVICES

BILL TO ADDRESS: 2031 MAIN STREET

CITY: IRVINE

STATE: CA ZIP 92714

TELEPHONE NO.: 714-263-1146

TYPE OF CONSTRUCTION

INDICATE NO. OF TANK(S) BEING REMOVED/REPAIRED/INSTALLED BELOW: (COMPLETE PAGE 2 - INDICATING THE TANKS TO BE INSTALLED/REMOVED, OR AFFECTED BY THE REPAIR)

- ☐ INSTALLATION(S)
- ☐ REPAIR(S)/RELINE(S) TO USTs
- ☒ CLOSURE(S)/REMOVAL(S)
- ☐ SYSTEM MODIFICATION (E.G. REPIPE, REPAIR TO PIPING)
- ☐ OTHER (SPECIFY) _____

24 HOUR EMERGENCY CONTACT PERSON

DAYS: SCOTT KEHE (NAME) 714-726-2506 (TELEPHONE)

NIGHTS: OHM - 1-800-537-9540 (24) ELTORO - 714-726-9911/2172 (NAME / TELEPHONE)

APPLICANT

NAME: DHANANJAY RAWAL
PLEASE PRINT

SIGNATURE: D Rawal

COMPANY NAME: OHM REMEDIATION SERVICES

TELEPHONE NO: 714-263-9124 x 303

FACILITY OPERATOR (CONTACT PERSON)

NAME: LT HOPE KATCHARIAN, MCASEN

BUSINESS TELEPHONE NO.: 714-726-3386

NOTES: NEW INSTALLATIONS, CLOSURES, REPAIRS AND SYSTEM MODIFICATIONS OF UNDERGROUND STORAGE TANKS REQUIRE THE SUBMITTAL OF (4) SETS OF PLANS TO THIS DIVISION. THESE PLANS MUST BE APPROVED PRIOR TO THE INITIATION OF ANY CONSTRUCTION OR MODIFICATION. ALL PLANS OR REPORTS REQUIRED MUST ACCOMPANY THIS FORM AT THE TIME OF SUBMITTAL.

PLAN APPROVAL AND FEES ARE VALID FOR ONE YEAR. IF TANKS HAVE NOT BEEN REMOVED, INSTALLED OR MODIFIED WITHIN ONE YEAR OF THE APPROVAL DATE, NEW PLANS AND FEES MUST BE SUBMITTED.

OFFICE USE ONLY

PLAN CHECK NO.: _____ FEES PAID: _____ RCVD. BY: _____

PLAN APPROVAL DATE: _____ BY: _____

NUMBER OF TANKS TO RECEIVE A SURCHARGE BILL: _____ NUMBER OF TANKS TO BE ADDED TO BILLING: _____

TANK INFORMATION

PROVIDE THE INFORMATION BELOW FOR ALL TANKS AND PIPING SYSTEMS TO BE INSTALLED, REMOVED OR REPAIRED. ALSO INDICATE THE UPGRADE/CHANGES TO BE MADE TO EACH TANK SYSTEM.

TANK I.D.			651-6 #1	651-7 #2	326A #3	326B #4
MATERIAL STORED	MATERIAL OR WASTE STORED	CURRENTLY	Motor oil	Motor oil	JP-5	JP-5
		PROPOSED	None	None	None	None
		PREVIOUSLY	Unknown	Unknown	Unknown	Unknown
	FUEL TYPE, I.E., UNLEADED		N/A	N/A	N/A	N/A
TANK INFORMATION	TYPE (TANK, SUMP, OTHERS)		TANK,	TANK	TANK	TANK
	DOUBLE WALL/SINGLE WALL		N/A	N/A	N/A	N/A
	UL NUMBER		N/A	N/A	N/A	N/A
	YEAR INSTALLED		1971	1971	1945	1945
	VAULTED/NOT VAULTED		N/A	N/A	N/A	N/A
	PRIMARY	MANUFACTURER	N/A	N/A	N/A	N/A
		CAPACITY (GALLONS)	500	500	1,700	250
		CONSTRUCTION MATERIAL	Steel	Steel	Concrete	Steel
		THICKNESS (UNITS)	N/A			
		INTERIOR LINING	N/A			
	SECONDARY	MANUFACTURER		NA	NA	NA
		CAPACITY (GALLONS)	NA			
		CONSTRUCTION MATERIAL				
		THICKNESS (UNITS)				
	CORROSION PROTECTION			NA	NA	NA
	TYPE OF LEAK DETECTION FOR USTs (LIQUID, PROBE, ETC.)		NA			
	MANUFACTURER OF LEAK DETECTOR					
PIPING	LOCATION (UNDER/ABOVE GROUND)		Underground			
	SUCTION/PRESSURE GRAVITY/UNKNOWN		N/A			NA
	PRIMARY	CONSTRUCTION MATERIAL	NA		NA	
		MANUFACTURER		NA		
	SECONDARY	CONSTRUCTION MATERIAL	NA			NA
		MANUFACTURER			NA	
	TYPE OF LEAK DETECTION FOR PIPING (PRESSURE LOSS DEVICE, ETC.)		NA			
	MANUFACTURER OF LEAK DETECTOR			NA		NA
OVERFILL PROTECTION (TYPE)			NA		NA	
SPILL CONTAINMENT (TYPE)						

Appendix D
Geophysical Survey Data

GEOPHYSICAL SURVEY RESULTS
FOR
SITE 326

MARINE CORPS AIR STATION, EL TORO
SANTA ANA, CALIFORNIA

Prepared for

OHM Remediation Services Corporation
Irvine, California

Prepared by

GEOVISION GEOPHYSICAL SERVICES
1785 Pomona Road, Suite B
Corona, California, 91720

March 24, 1997

GEOVISION JOB NUMBER: 97206-2

1.0 Introduction

A geophysical investigation was carried out on March 24, 1997 for OHM Remediation Services Corporation surrounding Building 326, located at Marine Corps Air Station (MCAS) El Toro, Santa Ana, California. The investigation was conducted to verify and accurately locate the presence of all detectable underground utilities prior to drilling in the surveyed area.

2.0 Field Procedures

GEOVision's standard clearance procedures were used to survey the site to accurately locate underground utilities in the surrounding area. GEOVision field teams used the attached GEOPHYSICAL CLEARANCE FORM to ensure that all appropriate procedures were followed. Procedures that were not appropriate for the site were lined out.

The crew used the Metrotech utility locator in the 82 MHz mode, which picks up any conductive piping in the area, to circle the suspected utility location. One field crew member stood on or near the suspected utility location holding the transmitter, and keeping it constantly oriented on the second crew member who swept out a circle around the suspected utility location. If a line was found, the Metrotech transmitter was then placed on the suspected line while the second crew member tracked the line with the receiver. We also swept the area with the Metrotech in 60 hz mode to locate any live electrical lines. The utility lines found were marked on the ground and located on the map.

The area above the suspected tank was swept using the Fisher deep search metal detector. This instrument is useful for identifying the location of large metal objects such as U.S.T.'s

A GSSI SIR-2 digital Ground Penetrating Radar (GPR) system was used to collect GPR profiles surrounding the site and on the area where the Fisher indicated a possible buried metal object. The enclosed site map shows the locations of all profiles. The profiles were chosen to intercept utilities entering the area to be cleared. Additional profiles along lines 5 feet apart in the possible U.S.T. area were collected. All radar data were collected using the 500 MHz antenna. A marker switch on the antenna handle was used to place 5' spaced fiduciary marks on each profile as the antenna was pulled along the profile lines. All GPR records were stored on the system's hard drive for later processing and archiving, and were printed out onsite using a portable printer. Representative GPR profiles, hand annotated by the operator in the field, are attached.

An accurate, scaled geophysical survey map was then drawn on the back of the GEOPHYSICAL CLEARANCE FORM. All features found by GPR or Metrotech within the surveyed area were marked at the site. They area also show on the enclosed site map.

3.0 Conclusions

Two utility lines were identified in the vicinity of the area to be cleared as indicated on the survey map included in the report. Vent pipe lines were also identified in this area. Sewer and water lines were drawn from physical surface references and base maps. One tank was located at position 2 on the site map, as indicated. The tank perimeter is marked with orange paint.

GE Vision
geophysical services
a division of Agbabian Associates

GEOPHYSICAL CLEARANCE FORM

PROJECT NAME: OHM PROJECT NUMBER 97206.2
LOCATION MCAS EL TORO
DATE 20 MAR 97 TIME 1200h
SITE DESCRIPTION: 326 A & B

GEOPHYSICAL EQUIPMENT

GROUND PENETRATING RADAR (GPR) UNIT: ____ MAGNETOMETER: —
ELECTROMAGNETIC (EM): — EM LINE TRACER (LT): 9890
METAL DETECTOR (MD): FISHER OTHER: ____

PROCEDURES

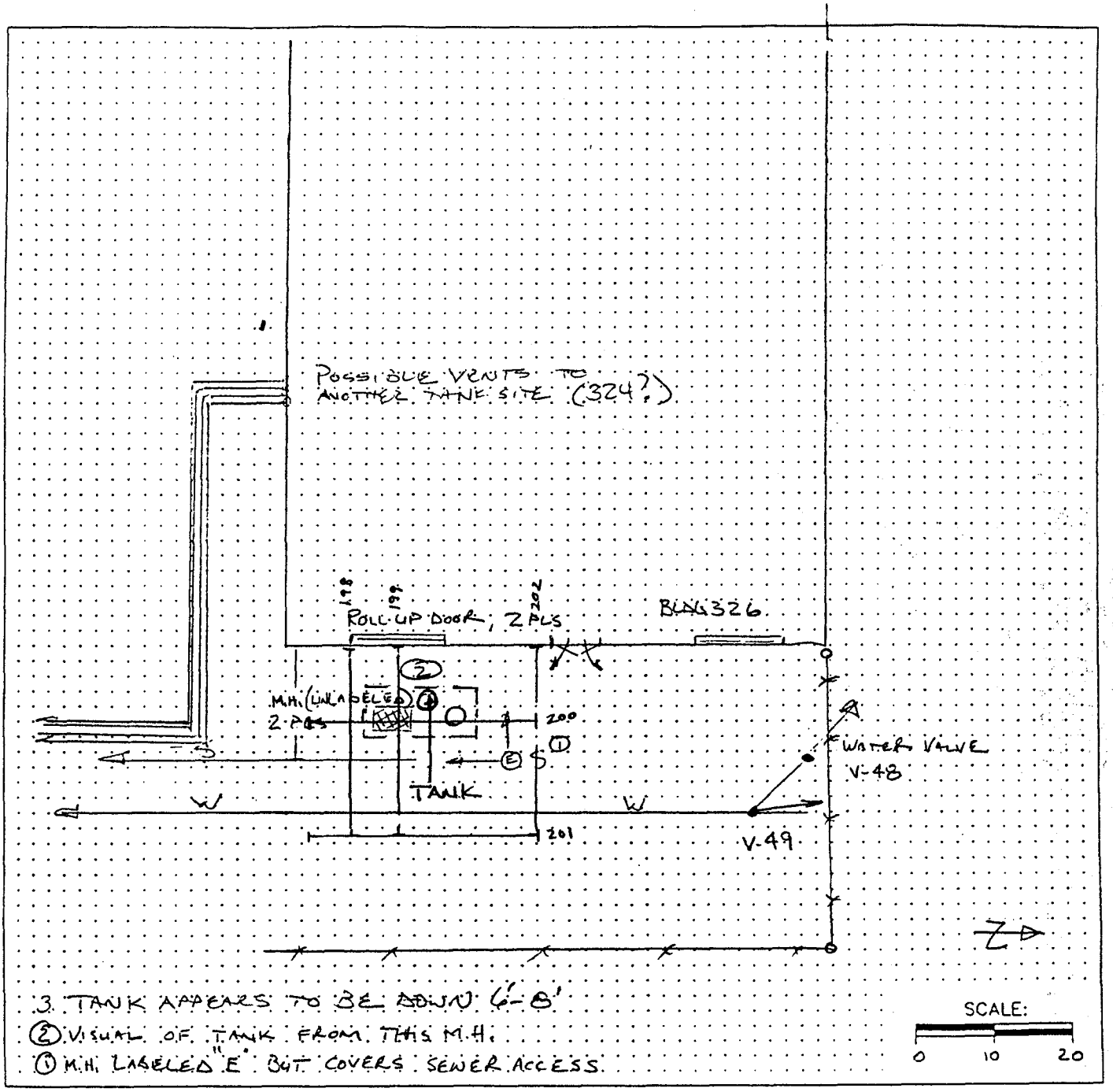
☑ 1. Inspect available utility maps and trace all recorded utilities in the vicinity of the proposed drilling location using LT, and if necessary GPR.
~~☐ 2. Review available geophysical data:~~ ☐ Magnetic ☐ EM-31 ☐ EM-61
☑ 3. Inspect site and trace all pipes evident from field observations (ie. manhole, vault, valve, cracked asphalt, pipe at surface, etc)
☑ 4. Sweep proposed drilling location with LT in 50/60 Hz mode
☑ 5. Hold LT transmitter over proposed drilling location and circle at about a 40 foot radius with reciever tracing all utilities encountered.
(1) ☑ 6. Conduct two perpendicular GPR profiles through proposed borehole.
GPR antenna: 500 MHz
GPR range: 30 ns Estimated depth penetration *: 3-4'
* utility lines below this depth cannot be detected using GPR
☑ 7. Other FISHER USED TO DETERMINE TANK DIMENSION/. UTILITIES MARKED ON GROUND AND MAPPED ON REVERSE. ONE TANK POSITIVELY ID
(1) SITE REQUIRES RADAR PROFILES PRIOR TO CLEARANCE.

FIELD PERSONNEL: R A MERRILL, H. QUINN

SIGNATURE: R A Merrill

CLEARFM.DOC 1995

GEOPHYSICAL SURVEY MAP



LEGEND

GEOPHYSICAL TRAVERSE

UTILITY:
E = ELECTRICAL, T = TELEPHONE,
G = GAS, S = SEWER, SD = STORM DRAIN,
W = WATER, P = PRODUCT LINE,
V = VENT LINE, L = UNKNOWN LINE

AREA W/ POSITIVE RESPONSE FROM METAL DETECTOR

TANK LOCATION

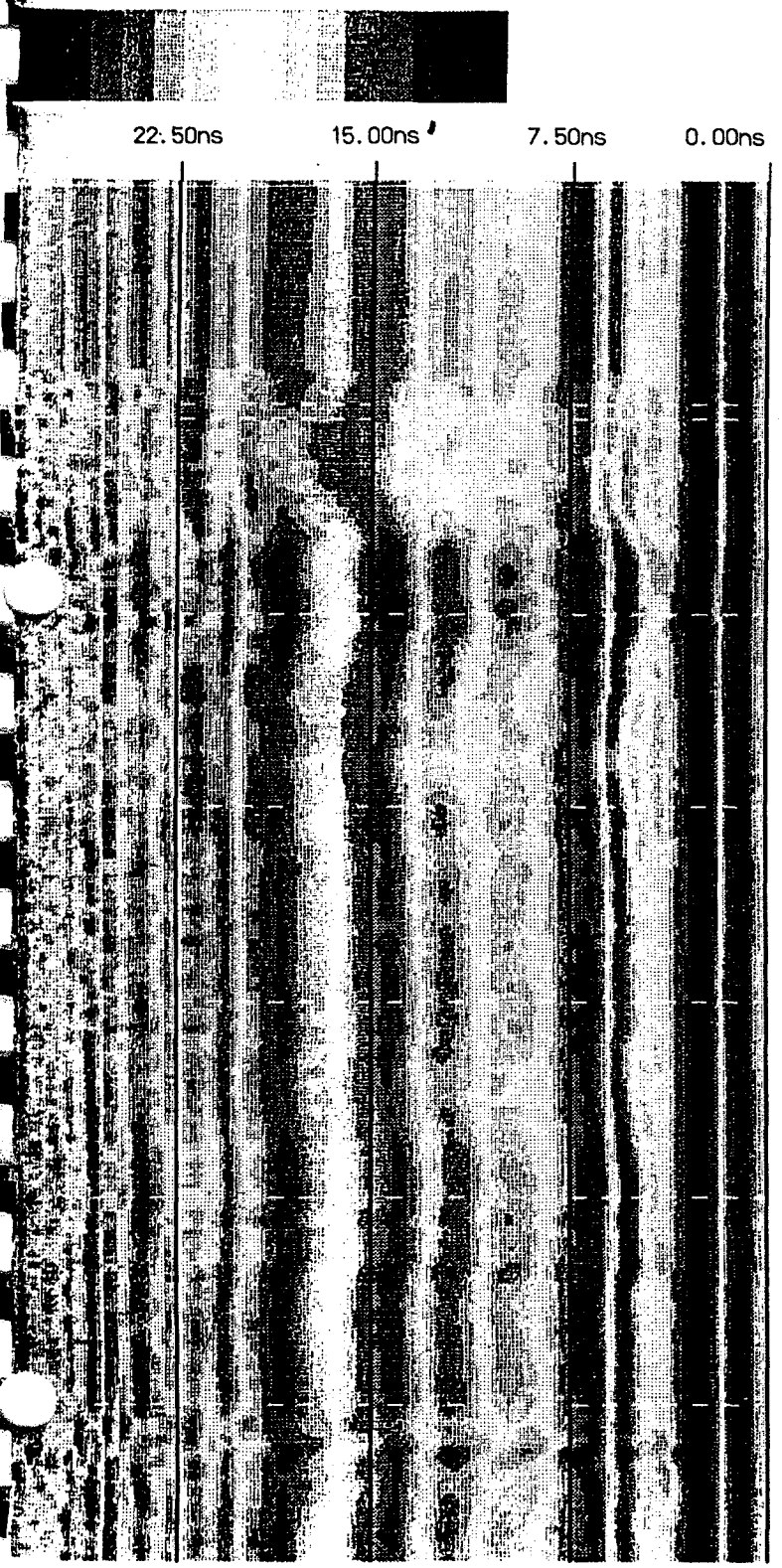
LE201(03/21/97 08:14:08) Samp/Scan 256
Scan/Sec 32.0 Bits: 8
electric: 1.00

ion: 0.0nS Range: 30.0nS
Gain -3 17 36 55 67
IIR LP N=1 F=1100)
(IIR HP N=2 F=50)
IIR STK TC=2)

OHM #3:6
S → N
500 MHZ
5' ticks

Outside tank bed

able #15; Transform #1



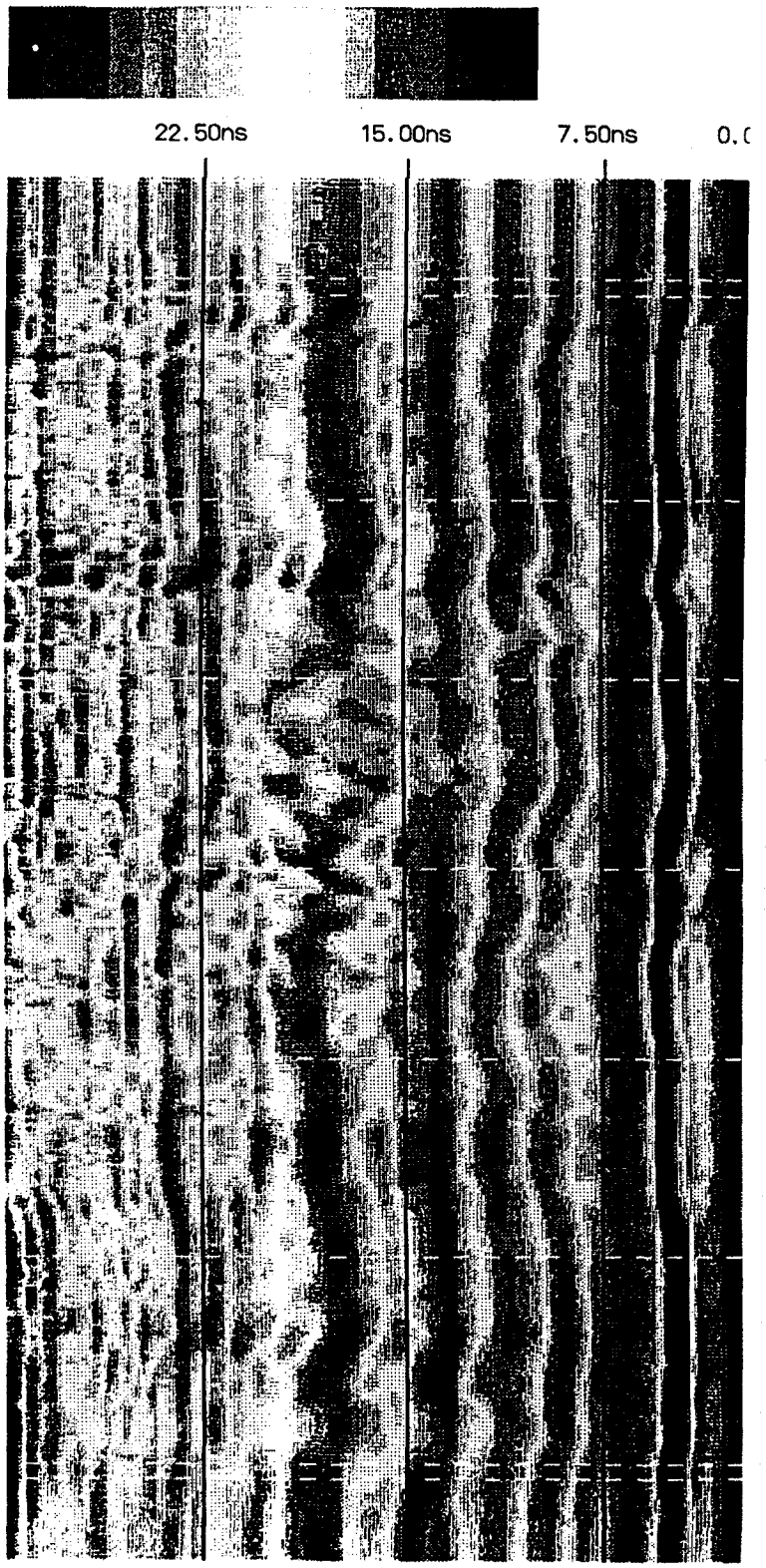
FILE200(03/21/97 08:13:10) Samp/Scan 256
Scan/Sec 32.0 Bits: 8
Dielectric: 1.00

Position: 0.0nS Range: 30.0nS
Range Gain -3 17 36 55 67
V(IIR LP N=1 F=1100)
V(IIR HP N=2 F=50)
H(IIR STK TC=2)

OHM 5 3:
S → N
500 MH
5' tick

tank bed

Table #15; Transform #1



Appendix E
Laboratory Analytical Reports

OHM Remedial Services Corp.

CHAIN-OF-CUSTODY RECORD

Form 001
Field Technical Service
Rev. 08/8

165815

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: DO 70
PROJECT LOCATION: MCAS EL TORO
PROJ. NO.: 18609
PROJECT CONTACT: DWAYNE ISAIDA
PROJECT TELEPHONE NO.: (714) 263-1146
CLIENT'S REPRESENTATIVE: SWDIV
PROJECT MANAGER/SUPERVISOR: BILL SEDLAK - OHM

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): TPH - FULL RANGE; BTEX; TITLE 22 METALS; IGNITABILITY

APCL 5DAY TAT

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	TPH - FULL RANGE	BTEX	TITLE 22 METALS	IGNITABILITY					REMARKS
1	18609-550	9/12/97	1000		X	TRIP BLANK FOR 9-12-97	1		X							
2	18609-551	9/12/97	1105		X	CONTENTS OF TANK A (326 TANK)	5	X	X	X	X					
3	18609-552	9/12/97	1120		X	CONTENTS OF TANK B (TANK 326)	5	X	X	X	X					
4																
5																
6																
7																
8																
9																
10																

9/12/97

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1 TO 3	Mark Bennett	[illegible]	9/12/97	1240
2					
3					
4					

25902

REMARKS: COURIER PICK-UP & DELIVER TO APCL

SAMPLER'S SIGNATURE: Mark Bennett

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	09/12/97
Project ID:	DO70	Service ID:	973962	Collected by:	Dwayne Is
		Lab Sample ID:	97-3962-1	Received Date:	09/12/97
Sample ID:	**18609-550**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	09/17/97	Anal. Date:	09/17/97
Batch No:	97G3765	Prep. No:	–	Anal. Time:	16:47
Data File Name:	3962.001	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) N	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/L	0.05	<0.05	U
2	BENZENE	71-43-2	μg/L	0.5	<0.5	U
3	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
4	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
5	XYLENES (TOTAL)	1330-20-7	μg/L	0.5	<0.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	68-124	91
2	4-BROMO-FLUOROBENZENE (PID)	460-00-4	71-134	97
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	α, α, α-TRIFLUOROTOLUENE	98-08-8	50-200	97
# of out-of-control				0

Not Detected (N.D.) 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

25909

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	09/12/97
Project ID:	DO70	Service ID:	973962	Collected by:	Dwayne Isaida
		Lab Sample ID:	97-3962-2	Received Date:	09/12/97
Sample ID:	**18609-551**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	09/17/97	Anal. Date:	09/17/97
Batch No:	97G3765	Prep. No:	–	Anal. Time:	16:25
Data File Name:	3962.002	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/L	0.05	<0.05	U
2	BENZENE	71-43-2	μg/L	0.5	<0.5	U
3	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
4	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
5	XYLENES (TOTAL)	1330-20-7	μg/L	0.5	<0.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	68-124	93
2	4-BROMO-FLUOROBENZENE (PID)	460-00-4	71-134	107
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	α, α, α-TRIFLUOROTOLUENE	98-08-8	50-200	89
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.
[a]Corresponds to the minimum reading of the thermometer used.

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

25910

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	09/12/97
Project ID:	DO70	Service ID:	973962	Collected by:	Dwayne Isai
		Lab Sample ID:	97-3962-3	Received Date:	09/12/97
Sample ID:	**18609-552**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	09/17/97	Anal. Date:	09/17/97
Batch No:	97G3765	Prep. No:	–	Anal. Time:	16:00
Data File Name:	3962.003	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/L	0.05	0.76	
2	BENZENE	71-43-2	μg/L	0.5	<0.5	U
3	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
4	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
5	XYLENES (TOTAL)	1330-20-7	μg/L	0.5	<0.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	68-124	94
2	4-BROMO-FLUOROBENZENE (PID)	460-00-4	71-134	105
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	α, α, α-TRIFLUOROTOLUENE	98-08-8	50-200	87
# of out-of-control				0

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.
[a]Corresponds to the minimum reading of the thermometer used.

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

25911

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	09/12/97
Project ID:	DO70	Service ID:	973962	Collected by:	Dwayne Isaida
		Lab Sample ID:	97-3962-2	Received Date:	09/12/97
Sample ID:	**18609-551**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	09/16/97	Anal. Date:	09/23/97
Batch No:	97G3761	Prep. No:	1 of 1	Anal. Time:	17:55
Data File Name:	3962.202	Sample Amount:	500 mL	Dilution Factor:	1000
Extract Vol.	5.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/L	500	4800	
2	TPH AS MOTOR OIL	TBD-0002	mg/L	500	700	

Surrogates			Control Limit, %	Surro. Rec.%
1	HEXACOSANE, C_{26}	630-01-3	50-149	3690
# of out-of-control				1

Not Detected (N.D.) is shown as IDL 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

25942

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	09/12/97
Project ID:	DO70	Service ID:	973962	Collected by:	Dwayne Isaida
		Lab Sample ID:	97-3962-3	Received Date:	09/12/97
Sample ID:	**18609-552**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	09/16/97	Anal. Date:	09/23/97
Batch No:	97G3761	Prep. No:	1 of 1	Anal. Time:	18:20
Data File Name:	3962.203	Sample Amount:	500 mL	Dilution Factor:	1000
Extract Vol.	5.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/L	500	2800	
2	TPH AS MOTOR OIL	TBD-0002	mg/L	500	400	J

Surrogates			Control Limit, %	Surro. Rec.%
1	HEXACOSANE, C_{26}	630-01-3	50-149	3100
# of out-of-control				1

[a]Corresponds to the minimum reading of the thermometer used.

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

25944

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	09/12/97
Project ID:	DO70	Service ID:	973962	Collected by:	Dwayne Isaida
		Lab Sample ID:	97-3962-2	Received Date:	09/12/97
Sample ID:	**18609-551**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	µg/L	10	<1.6	U	P		97M2336M	09/15/97	09/16/97	1	6010
ARSENIC	7440-38-2	µg/L	5	<2.1	U	P		97M2336M	09/15/97	09/16/97	1	6010
BARIUM	7440-39-3	µg/L	10	77.1		P		97M2336M	09/15/97	09/16/97	1	6010
BERYLLIUM	7440-41-7	µg/L	2	<0.058	U	P		97M2336M	09/15/97	09/16/97	1	6010
CADMIUM	7440-43-9	µg/L	2	0.66	B	P		97M2336M	09/15/97	09/16/97	1	6010
CHROMIUM	7440-47-3	µg/L	5	7.0		P		97M2336M	09/15/97	09/16/97	1	6010
COBALT	7440-48-4	µg/L	5	<0.26	U	P		97M2336M	09/15/97	09/16/97	1	6010
COPPER	7440-50-8	µg/L	10	47.4		P		97M2336M	09/15/97	09/16/97	1	6010
LEAD	7439-92-1	µg/L	5	22.4		P		97M2336M	09/15/97	09/16/97	1	6010
MERCURY	7439-97-6	µg/L	0.5	<0.057	U	CV		97M2350N	09/19/97	09/19/97	1	6010
MOLYBDENUM	7439-98-7	µg/L	5	<0.75	U	P		97M2336M	09/15/97	09/16/97	1	6010
NICKEL	7440-02-0	µg/L	5	3.9	B	P		97M2336M	09/15/97	09/16/97	1	6010
SELENIUM	7782-49-2	µg/L	10	<3.5	U	P		97M2336M	09/15/97	09/16/97	1	6010
SILVER	7440-22-4	µg/L	10	<0.65	U	P		97M2336M	09/15/97	09/16/97	1	6010
THALLIUM	7440-28-0	µg/L	10	<1.2	U	P		97M2336M	09/15/97	09/16/97	1	6010
VANADIUM	7440-62-2	µg/L	10	<0.55	U	P		97M2336M	09/15/97	09/16/97	1	6010
ZINC	7440-66-6	µg/L	5	114		P		97M2336M	09/15/97	09/16/97	1	6010

Not Detected (N.D.) 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

25978

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	09/12/97
Project ID:	DO70	Service ID:	973962	Collected by:	Dwayne Isaida
		Lab Sample ID:	97-3962-3	Received Date:	09/12/97
Sample ID:	**18609-552**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	µg/L	50	268		P		97M2336M	09/15/97	09/16/97	5	6010
ARSENIC	7440-38-2	µg/L	25	63.6		P		97M2336M	09/15/97	09/16/97	5	6010
BARIUM	7440-39-3	µg/L	50	2410		P		97M2336M	09/15/97	09/16/97	5	6010
BERYLLIUM	7440-41-7	µg/L	10	<0.058	U	P		97M2336M	09/15/97	09/16/97	5	6010
CADMIUM	7440-43-9	µg/L	10	662		P		97M2336M	09/15/97	09/16/97	5	6010
CHROMIUM	7440-47-3	µg/L	25	7570		P		97M2336M	09/15/97	09/16/97	5	6010
COBALT	7440-48-4	µg/L	25	297		P		97M2336M	09/15/97	09/16/97	5	6010
COPPER	7440-50-8	µg/L	50	3430		P		97M2336M	09/15/97	09/16/97	5	6010
LEAD	7439-92-1	µg/L	25	14800		P		97M2336M	09/15/97	09/16/97	5	6010
MERCURY	7439-97-6	µg/L	2.5	6.2		CV		97M2350N	09/19/97	09/19/97	5	6010
MOLYBDENUM	7439-98-7	µg/L	25	114		P		97M2336M	09/15/97	09/16/97	5	6010
NICKEL	7440-02-0	µg/L	25	411		P		97M2336M	09/15/97	09/16/97	5	6010
SELENIUM	7782-49-2	µg/L	50	10.5	B	P		97M2336M	09/15/97	09/16/97	5	6010
SILVER	7440-22-4	µg/L	50	27.2	B	P		97M2336M	09/15/97	09/16/97	5	6010
THALLIUM	7440-28-0	µg/L	50	<1.2	U	P		97M2336M	09/15/97	09/16/97	5	6010
VANADIUM	7440-62-2	µg/L	50	245		P		97M2336M	09/15/97	09/16/97	5	6010
ZINC	7440-66-6	µg/L	25	24900		P		97M2336M	09/15/97	09/16/97	5	6010

Not Detected (N.D.) 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

25979

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	09/12/97
Project ID:	DO70	Service ID:	974189	Collected by:	Dwayne Isaida
		Lab Sample ID:	97-4189-1	Received Date:	09/12/97
Sample ID:	**18609-552**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Leach Method:	CIT		

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
STLC CHROMIUM	7440-47-3	mg/L	0.025	1.7		P		97M2430M	10/06/97	10/06/97	1	6010
STLC LEAD	7439-92-1	mg/L	0.025	3.5		P		97M2430M	10/06/97	10/06/97	1	6010

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

26308

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	09/12/97
Project ID:	DO70	Service ID:	974189	Collected by:	Dwayne Isaida
		Lab Sample ID:	97-4189-1	Received Date:	09/12/97
Sample ID:	**18609-552**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Leach Method:	TCLP		

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
TCLP CHROMIUM	7440-47-3	mg/L	0.005	0.40		P		97M2430M	10/06/97	10/06/97	1	6010
TCLP LEAD	7439-92-1	mg/L	0.005	1.3		P		97M2430M	10/06/97	10/06/97	1	6010

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

26307

Applied P & Ch Laboratory

Wet Analysis Results for Method 1010

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Anal. Method	1010
Project ID:	DO70	Service ID:	973962	Collected by:	Dwayne Isaida

Component Name: Ignitability (Flashpoint)
CAS No: 9999-97

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
97-3962-2	18609-551	Water	09/12/97	09/12/97	09/19/97	97W5021	°C [a]	0.5	>100	U
97-3962-3	18609-552	Water	09/12/97	09/12/97	09/19/97	97W5021	°C [a]	0.5	>100	U

Not Detected (N.D.) is shown as PQL, with dilution and moisture corrected if applicable.
[a]Corresponds to the minimum reading of the thermometer used.

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

25999

Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

Amendment (TT) 4/2/97

LAB Form 0019 Field Technical Services Rev. 08/89

201814

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

1 of 1

PROJECT NAME: UST - Contents (Da-70)

PROJECT LOCATION: MCAS El Toro

PROJ. NO.: 18609

PROJECT CONTACT: Thizar Hartt Williams

PROJECT TELEPHONE NO.: 714 263 1146

CLIENT'S REPRESENTATIVE: Lynn Hercules - SWDIV

PROJECT MANAGER/SUPERVISOR: Bill Sellak - OHM

CAS

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	8020 - BTEX	1010 - Ignitability	8015M - 1/4 Extractable	8081 - PCB	6010/7000 - Metals *			REMARKS
1	18609-236	4/1/97	0900		X	Trip Blank for 4/1/97	1	X							
2	18609-237	4/1/97	0930		X	Contents - water from UST 326 B	9	X	X	X	X	X			Hold PCB (8081) analysis (TT) 4/2/97
3	18609-238	4/1/97	0950		X	Contents - water from UST 326 A	9	X	X	X	X	X			Hold PCB (8081) analysis (TT) 4/2/97
4	18609-239	4/1/97	1150		X	Contents - water/oil from UST 651-6	(8) 7 9	X	X	X	X	X			Suspect pure product. Hold PCB (8081) analysis (TT) 4/2/97
5	18609-240	4/1/97	1245		X	Contents - water/oil from UST 651-5 *	7	X	X	X	X	X			Suspect pure product.
6	18609-241	4/1/97	1330		X	Contents - water/oil from UST 651-7	5	X	X	X	X	X			Suspect used motor oil. HOLD PCB (8081) analysis (TT) 4/2/97
7															
8															
9															
10															

B 4/1/97

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-6	B / OHM			
2					
3					
4					

REMARKS
CAS courier pickup
Fax results to Thizar at OHM Irvine
* Filter samples prior to metals analysis

SAMPLER'S SIGNATURE: B

OHM Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

L97011941

LAB COP
Form 001
Field Technical Service
Rev. 08/8

201814

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

1 of 1

PROJECT NAME	PROJECT LOCATION
UST - Contents (DO-70)	MCAS El Toro

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
18609	Thizar Hanna Williams	714 263 1146

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
Lynn Hunter - SWDIV	Bill Sellak - OHM

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): 8020 - BTEX; 1010 - Ignitability; 8015M - TPH Extractable; 8081 - PCB; 6010/7000 - Metals *; CAS

ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	8020 - BTEX	1010 - Ignitability	8015M - TPH Extractable	8081 - PCB	6010/7000 - Metals *	CAS			REMARKS
1	18609-236	4/1/97	0900		X	Trip Blank for 4/1/97	1	X								
2	18609-237	4/1/97	0930		X	Contents - water from UST 326 B	9	X	X	X	X	X				
3	18609-238	4/1/97	0950		X	Contents - water from UST 326 A	9	X	X	X	X	X				
4	18609-239	4/1/97	1150		X	Contents - water/oil from UST 651-6	(B) ~~7~~ 9	X	X	X	X	X				Suspect pure product.
5	18609-240	4/1/97	1245		X	Contents - water/oil from UST 651-5	7	X	X	X	X	X				Suspect pure product.
6	18609-241	4/1/97	1330		X	Contents - water/oil from UST 651-7	5	X	X	X	X	X				Suspect used motor oil.
7																
8																
9																
10																

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-6	(B) / OHM	K Martin	4/2/97	715
2		K Martin	[illegible] 9:20 AM	4/2/97	920
3					
4					

REMARKS
CAS courier pick up
Fax results to Thizar at OHM Irvine
* Filter samples prior to metals analysis
3 day TAT

SAMPLER'S SIGNATURE (B)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

lient:	OHM Remediation Services Corp.	**Service Request:**	L9701194
Project:	UST Contents (DO-70)/18609	**Date Collected:**	4/1/97
Sample Matrix:	Liquid	**Date Received:**	4/2/97

BTEX

Sample Name:	18609-236	Units:	ug/L (ppb)
Lab Code:	L9701194-001	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Benzene	EPA 5030	8020	0.5	1	4/7/97	4/7/97	0.5	U
Toluene	EPA 5030	8020	0.5	1	4/7/97	4/7/97	0.5	U
Ethylbenzene	EPA 5030	8020	0.5	1	4/7/97	4/7/97	0.5	U
Total Xylenes	EPA 5030	8020	1.0	1	4/7/97	4/7/97	1.0	U

Approved By: _____ Date: 4/14/97

:S22/052595

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701194
Project:	UST Contents (DO-70)/18609	**Date Collected:**	4/1/97
Sample Matrix:	Liquid	**Date Received:**	4/2/97

BTEX

Sample Name:	18609-237	Units:	ug/L (ppb)
Lab Code:	L9701194-002	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Benzene	EPA 5030	8020	0.5	1	4/7/97	4/7/97	0.5	U
Toluene	EPA 5030	8020	0.5	1	4/7/97	4/7/97	6.0	
Ethylbenzene	EPA 5030	8020	0.5	1	4/7/97	4/7/97	0.9	
Total Xylenes	EPA 5030	8020	1.0	1	4/7/97	4/7/97	6.1	

Approved By: _____ Date: 4/14/97

1S22/052595

01194VOA JC1 - Sample (2) 4/14/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701194
Project:	UST Contents (DO-70)/18609	**Date Collected:**	4/1/97
Sample Matrix:	Liquid	**Date Received:**	4/2/97

BTEX

Sample Name:	18609-238	Units:	ug/L (ppb)
Lab Code:	L9701194-003	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Benzene	EPA 5030	8020	0.5	1	4/7/97	4/7/97	0.5	U
Toluene	EPA 5030	8020	0.5	1	4/7/97	4/7/97	0.5	U
Ethylbenzene	EPA 5030	8020	0.5	1	4/7/97	4/7/97	0.5	U
Total Xylenes	EPA 5030	8020	1.0	1	4/7/97	4/7/97	1.0	U

Approved By: _____ Date: 4/14/97

:S22 052595

91194VOA.JC1 - Sample (3) 4/14/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701194
Project:	UST Contents (DO-70)/18609	**Date Collected:**	4/1/97
Sample Matrix:	Liquid	**Date Received:**	4/2/97

BTEX

Sample Name: 18609-239
Lab Code: L9701194-004
Test Notes:

Units: ug/Kg (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Benzene	EPA 5030	8020	500	1000	4/7/97	4/7/97	980	
Toluene	EPA 5030	8020	500	1000	4/7/97	4/7/97	35000	
Ethylbenzene	EPA 5030	8020	500	1000	4/7/97	4/7/97	2000	
Total Xylenes	EPA 5030	8020	1000	1000	4/7/97	4/7/97	12000	

Approved By: _____ Date: 4/14/97

1S22/052595

01194VOA.JC1 - Sample (4) 4/14/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701194
Project:	UST Contents (DO-70)/18609	**Date Collected:**	4/1/97
Sample Matrix:	Liquid	**Date Received:**	4/2/97

BTEX

Sample Name:	18609-240	Units:	ug/Kg (ppb)
Lab Code:	L9701194-005	Basis:	NA
Test Notes:	D		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Benzene	EPA 5030	8020	500	1000	4/7/97	4/7/97	500	U
Toluene	EPA 5030	8020	500	1000	4/7/97	4/7/97	500	U
Ethylbenzene	EPA 5030	8020	500	1000	4/7/97	4/7/97	500	U
Total Xylenes	EPA 5030	8020	1000	1000	4/7/97	4/7/97	1000	U

D The MRL is elevated because of matrix interferences and because the sample required diluting.

Approved By: _____ Date: 4/14/97

ISO 052595

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701194
Project:	UST Contents (DO-70)/18609	**Date Collected:**	4/1/97
Sample Matrix:	Liquid	**Date Received:**	4/2/97

BTEX

Sample Name:	18609-241	Units:	ug/Kg (ppb)
Lab Code:	L9701194-006	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Benzene	EPA 5030	8020	500	1000	4/7/97	4/7/97	39000	
Toluene	EPA 5030	8020	500	1000	4/7/97	4/7/97	270000	
Ethylbenzene	EPA 5030	8020	500	1000	4/7/97	4/7/97	120000	
Total Xylenes	EPA 5030	8020	1000	1000	4/7/97	4/7/97	710000	

Approved By: _____ Date: 4/14/97

1S22/052595

01194VOA.JC1 - Sample (6) 4/14/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701194
Project:	UST Contents (DO-70)/18609	**Date Collected:**	4/1/97
Sample Matrix:	Liquid	**Date Received:**	4/2/97

Hydrocarbon Scan / Fuel Characterization

Sample Name:	18609-237	Units:	mg/L (ppm)
Lab Code:	L9701194-002	Basis:	NA
Test Notes:	*		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	8015M	8015M	0.5	1	4/4/97	4/5/97	0.5	U
C13-C22 - DRO	8015M	8015M	0.5	1	4/4/97	4/5/97	0.5	U
C23->C23 - HRO	8015M	8015M	0.5	1	4/4/97	4/5/97	300	
TPH-EXTRACTABLE	8015M	8015M	0.5	1	4/4/97	4/5/97	300	
Fuel Characterization	8015M	8015M		1	4/4/97	4/5/97	Motor oil	

*	Quantified with motor oil
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics

Approved By: _____ Date: 4/14/97

1S22/052595

702

01194PHC IZ1 - Sample 4/10/97

Page No.:

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701194
Project:	UST Contents (DO-70)/18609	**Date Collected:**	4/1/97
Sample Matrix:	Liquid	**Date Received:**	4/2/97

Hydrocarbon Scan / Fuel Characterization

Sample Name:	18609-238	Units:	mg/L (ppm)
Lab Code:	L9701194-003	Basis:	NA
Test Notes:	*/ D		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	8015M	8015M	5	10	4/4/97	4/5/97	5	U
C13-C22 - DRO	8015M	8015M	5	10	4/4/97	4/5/97	5	U
C23->C23 - HRO	8015M	8015M	5	10	4/4/97	4/5/97	2900	
TPH-EXTRACTABLE	8015M	8015M	5	10	4/4/97	4/5/97	2900	
Fuel Characterization	8015M	8015M		10	4/4/97	4/5/97	Motor oil	

*	Quantified with motor oil
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics
D	MRL is elevated because of matrix interferences and because the sample required diluting.

Approved By: _____ Date: 4/14/97

1S22/052595

01194PHC.IZ1 - Sample (2) 4/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701194
Project:	UST Contents (DO-70)/18609	**Date Collected:**	
Sample Matrix:	Liquid	**Date Received:**	4/2/97

Hydrocarbon Scan / Fuel Characterization

Sample Name:	18609-239	Units:	mg/kg (ppm)
Lab Code:	L9701194-004	Basis:	NA
Test Notes:	*/D		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	8015M	8015M	10000	1000	4/4/97	4/5/97	10000	U
C13-C22 - DRO	8015M	8015M	10000	1000	4/4/97	4/5/97	10000	U
C23->C23 - HRO	8015M	8015M	10000	1000	4/4/97	4/5/97	730000	
TPH-EXTRACTABLE	8015M	8015M	10000	1000	4/4/97	4/5/97	730000	
Fuel Characterization	8015M	8015M		1000	4/4/97	4/5/97	motor oil	

*	Quantified with motor oil
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics
D	The MRL is elevated because of matrix interferences and because the sample required diluting.

Approved By: _____ Date: 4/14/97

1S22 052595

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701194
Project:	UST Contents (DO-70)/18609	**Date Collected:**	
Sample Matrix:	Liquid	**Date Received:**	4/2/97

Hydrocarbon Scan / Fuel Characterization

Sample Name:	18609-240	Units:	mg/kg (ppm)
Lab Code:	L9701194-005	Basis:	NA
Test Notes:	*/D		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	8015M	8015M	10000	1000	4/4/97	4/5/97	10000	U
C13-C22 - DRO	8015M	8015M	10000	1000	4/4/97	4/5/97	10000	U
C23->C23 - HRO	8015M	8015M	10000	1000	4/4/97	4/5/97	340000	
TPH-EXTRACTABLE	8015M	8015M	10000	1000	4/4/97	4/5/97	340000	
Fuel Characterization	8015M	8015M		1000	4/4/97	4/5/97	motor oil	

*	Quantified with motor oil
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics
D	The MRL is elevated because of matrix interferences and because the sample required diluting.

Approved By: _____ Date: 4/14/97

1S22/052595

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

ient:	OHM Remediation Services Corp.	**Service Request:**	L9701194
Project:	UST Contents (DO-70)/18609	**Date Collected:**	
Sample Matrix:	Liquid	**Date Received:**	4/2/97

Hydrocarbon Scan / Fuel Characterization

Sample Name:	18609-241	Units:	mg/kg (ppm)
Lab Code:	L9701194-006	Basis:	NA
Test Notes:	*/D		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
C4-C12 - GRO	8015M	8015M	10000	1000	4/4/97	4/7/97	34000	
C13-C22 - DRO	8015M	8015M	10000	1000	4/4/97	4/7/97	10000	U
C23->C23 - HRO	8015M	8015M	10000	1000	4/4/97	4/7/97	800000	
TPH-EXTRACTABLE	8015M	8015M	10000	1000	4/4/97	4/7/97	830000	
Fuel Characterization	8015M	8015M		1000	4/4/97	4/7/97	gas/oil	

*	Quantified with gasoline and motor oil
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics
D	The MRL is elevated because of matrix interferences and because the sample required diluting.

Approved By: _____ Date: 4/14/97

1S22/052595

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701194
Project:	UST Contents (DO-70)/18609	**Date Collected:**	4/1/97
Sample Matrix:	Liquid	**Date Received:**	4/2/97

Polychlorinated Biphenyls (PCBs)

Sample Name:	18609-240	Units:	mg/kg (ppm)
Lab Code:	L9701194-005	Basis:	NA
Test Notes:	D		

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Aroclor 1016	EPA 3580	8081	25	5	4/7/97	4/8/97	25	U
Aroclor 1221	EPA 3580	8081	25	5	4/7/97	4/8/97	25	U
Aroclor 1232	EPA 3580	8081	25	5	4/7/97	4/8/97	25	U
Aroclor 1242	EPA 3580	8081	25	5	4/7/97	4/8/97	25	U
Aroclor 1248	EPA 3580	8081	25	5	4/7/97	4/8/97	25	U
Aroclor 1254	EPA 3580	8081	25	5	4/7/97	4/8/97	25	U
Aroclor 1260	EPA 3580	8081	25	5	4/7/97	4/8/97	25	U

D The MRL is elevated because of matrix interferences and because the sample required diluting.

Approved By: _____ Date: 5/1/97

1S22/052595

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM
Project: UST Contents (DO-70)/18609
Sample Matrix: Water

Service Request: L9701194
Date Collected: 4/1/97
Date Received: 4/2/97

CCR Metals

Sample Name: 18609-237
Lab Code: L9701194-002
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	LAB Qualifier
Antimony, Total	3010	6010	0.05	1	4/7/97	4/8/97	0.05	U
Arsenic, Total	3020	7060	0.005	1	4/7/97	4/7/97	0.005	U
Barium, Total	3010	6010	0.01	1	4/7/97	4/8/97	0.09	
Beryllium, Total	3010	6010	0.005	1	4/7/97	4/8/97	0.005	U
Cadmium, Total	3010	6010	0.005	1	4/7/97	4/8/97	0.005	U
Chromium, Total	3010	6010	0.01	1	4/7/97	4/8/97	0.01	U
Cobalt, Total	3010	6010	0.01	1	4/7/97	4/8/97	0.01	U
Copper, Total	3010	6010	0.01	1	4/7/97	4/8/97	0.01	U
Lead, Total	3010	6010	0.05	1	4/7/97	4/8/97	0.05	U
Mercury, Total	7470	7470	0.001	1	4/7/97	4/8/97	0.001	U
Molybdenum, Total	3010	6010	0.02	1	4/7/97	4/8/97	0.02	U
Nickel, Total	3010	6010	0.04	1	4/7/97	4/8/97	0.04	U
Selenium, Total	3020	7740	0.005	1	4/7/97	4/7/97	0.005	U
Silver, Total	3010	6010	0.01	1	4/7/97	4/8/97	0.01	U
Thallium, Total	3010	6010	0.1	1	4/7/97	4/8/97	0.1	U
Vanadium, Total	3010	6010	0.01	1	4/7/97	4/8/97	0.01	U
Zinc, Total	3010	6010	0.02	1	4/7/97	4/8/97	0.05	

Approved By: _____ Date: 4/14/97

1S44/071096
01194ICP.IZ1 - Sample 4/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM
Project: UST Contents (DO-70)/18609
Sample Matrix: Water

Service Request: L9701194
Date Collected: 4/1/97
Date Received: 4/2/97

CCR Metals

Sample Name: 18609-238
Lab Code: L9701194-003
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	LAB Qualifier
Antimony, Total	3010	6010	0.05	1	4/7/97	4/8/97	0.05	U
Arsenic, Total	3020	7060	0.005	1	4/7/97	4/7/97	0.005	U
Barium, Total	3010	6010	0.01	1	4/7/97	4/8/97	0.04	
Beryllium, Total	3010	6010	0.005	1	4/7/97	4/8/97	0.005	U
Cadmium, Total	3010	6010	0.005	1	4/7/97	4/8/97	0.005	U
Chromium, Total	3010	6010	0.01	1	4/7/97	4/8/97	0.01	U
Cobalt, Total	3010	6010	0.01	1	4/7/97	4/8/97	0.01	U
Copper, Total	3010	6010	0.01	1	4/7/97	4/8/97	0.01	U
Lead, Total	3010	6010	0.05	1	4/7/97	4/8/97	0.05	U
Mercury, Total	7470	7470	0.001	1	4/7/97	4/8/97	0.001	U
Molybdenum, Total	3010	6010	0.02	1	4/7/97	4/8/97	0.02	U
Nickel, Total	3010	6010	0.04	1	4/7/97	4/8/97	0.04	U
Selenium, Total	3020	7740	0.005	1	4/7/97	4/7/97	0.005	U
Silver, Total	3010	6010	0.01	1	4/7/97	4/8/97	0.01	U
Thallium, Total	3010	6010	0.1	1	4/7/97	4/8/97	0.1	U
Vanadium, Total	3010	6010	0.01	1	4/7/97	4/8/97	0.01	U
Zinc, Total	3010	6010	0.02	1	4/7/97	4/8/97	0.02	U

Approved By: _____ Date: 4/14/97

1S44/071096
01194ICP.IZ1 - Sample (2) 4/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM
Project: UST Contents (DO-70)/18609
Sample Matrix: Water

Service Request: L9701194
Date Collected: 4/1/97
Date Received: 4/2/97

CCR Metals

Sample Name: 18609-239
Lab Code: L9701194-004
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	LAB Qualifier
Antimony, Total	3010	6010	0.5	10	4/7/97	4/8/97	0.5	U
Arsenic, Total	3020	7060	0.05	10	4/7/97	4/7/97	0.05	U
Barium, Total	3010	6010	0.1	10	4/7/97	4/8/97	0.1	U
Beryllium, Total	3010	6010	0.05	10	4/7/97	4/8/97	0.05	U
Cadmium, Total	3010	6010	0.05	10	4/7/97	4/8/97	0.05	U
Chromium, Total	3010	6010	0.1	10	4/7/97	4/8/97	0.1	U
Cobalt, Total	3010	6010	0.1	10	4/7/97	4/8/97	0.1	U
Copper, Total	3010	6010	0.1	10	4/7/97	4/8/97	0.1	U
Lead, Total	3010	6010	0.5	10	4/7/97	4/8/97	0.5	U
Mercury, Total	7470	7470	0.01	10	4/7/97	4/8/97	0.01	U
Molybdenum, Total	3010	6010	0.2	10	4/7/97	4/8/97	0.2	U
Nickel, Total	3010	6010	0.4	10	4/7/97	4/8/97	0.4	U
Selenium, Total	3020	7740	0.05	10	4/7/97	4/7/97	0.05	U
Silver, Total	3010	6010	0.1	10	4/7/97	4/8/97	0.1	U
Thallium, Total	3010	6010	1	10	4/7/97	4/8/97	1	U
Vanadium, Total	3010	6010	0.1	10	4/7/97	4/8/97	0.1	U
Zinc, Total	3010	6010	0.2	10	4/7/97	4/8/97	42	

Approved By: _____ Date: 4/14/97

1S44/071096
01194ICP.IZ1 - Sample (3) 4/10/97

6925 Canoga Avenue ▪ Canoga Park, CA 91303 ▪ (818) 587-5550 ▪ Fax (818) 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM
Project: UST Contents (DO-70)/18609
Sample Matrix: Water

Service Request: L9701194
Date Collected: 4/1/97
Date Received: 4/2/97

CCR Metals

Sample Name: 18609-240
Lab Code: L9701194-005
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	LAB Qualifier
Antimony, Total	3010	6010	0.5	10	4/7/97	4/8/97	0.5	U
Arsenic, Total	3020	7060	0.05	10	4/7/97	4/7/97	0.05	U
Barium, Total	3010	6010	0.1	10	4/7/97	4/8/97	0.1	U
Beryllium, Total	3010	6010	0.05	10	4/7/97	4/8/97	0.05	U
Cadmium, Total	3010	6010	0.05	10	4/7/97	4/8/97	0.05	U
Chromium, Total	3010	6010	0.1	10	4/7/97	4/8/97	0.1	U
Cobalt, Total	3010	6010	0.1	10	4/7/97	4/8/97	0.1	U
Copper, Total	3010	6010	0.1	10	4/7/97	4/8/97	0.1	U
Lead, Total	3010	6010	0.5	10	4/7/97	4/8/97	0.5	U
Mercury, Total	7470	7470	0.01	10	4/7/97	4/8/97	0.01	U
Molybdenum, Total	3010	6010	0.2	10	4/7/97	4/8/97	0.2	U
Nickel, Total	3010	6010	0.4	10	4/7/97	4/8/97	0.4	U
Selenium, Total	3020	7740	0.05	10	4/7/97	4/7/97	0.05	U
Silver, Total	3010	6010	0.1	10	4/7/97	4/8/97	0.1	U
Thallium, Total	3010	6010	1	10	4/7/97	4/8/97	1	U
Vanadium, Total	3010	6010	0.1	10	4/7/97	4/8/97	0.1	U
Zinc, Total	3010	6010	0.2	10	4/7/97	4/8/97	31	

Approved By: _____ Date: 4/14/97

IS44 071096
01194ICP IZI - Sample (4) 4/16/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: OHM
Project: UST Contents (DO-70)/18609
mple Matrix: Water

Service Request: L9701194
Date Collected: 4/1/97
Date Received: 4/2/97

CCR Metals

Sample Name: 18609-241
Lab Code: L9701194-006
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Digested	Date Analyzed	Result	LAB Qualifier
Antimony, Total	3010	6010	0.5	10	4/7/97	4/8/97	0.5	U
Arsenic, Total	3020	7060	0.05	10	4/7/97	4/7/97	0.05	U
Barium, Total	3010	6010	0.1	10	4/7/97	4/8/97	0.1	U
Beryllium, Total	3010	6010	0.05	10	4/7/97	4/8/97	0.05	U
Cadmium, Total	3010	6010	0.05	10	4/7/97	4/8/97	0.05	U
Chromium, Total	3010	6010	0.1	10	4/7/97	4/8/97	0.1	U
Cobalt, Total	3010	6010	0.1	10	4/7/97	4/8/97	0.1	U
Copper, Total	3010	6010	0.1	10	4/7/97	4/8/97	1.1	
Lead, Total	3010	6010	0.5	10	4/7/97	4/8/97	0.9	
Mercury, Total	7470	7470	0.01	10	4/7/97	4/8/97	0.01	U
Molybdenum, Total	3010	6010	0.2	10	4/7/97	4/8/97	0.2	U
Nickel, Total	3010	6010	0.4	10	4/7/97	4/8/97	0.4	U
Selenium, Total	3020	7740	0.05	10	4/7/97	4/7/97	0.05	U
Silver, Total	3010	6010	0.1	10	4/7/97	4/8/97	0.1	U
Thallium, Total	3010	6010	1	10	4/7/97	4/8/97	1	U
Vanadium, Total	3010	6010	0.1	10	4/7/97	4/8/97	0.1	U
Zinc, Total	3010	6010	0.2	10	4/7/97	4/8/97	4.7	

Approved By: _____ Date: 4/14/97

1S44/071096
01194ICP.IZ1 - Sample (5) 4/10/97

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701194
Project:	UST Contents (DO-70)/18609	**Date Collected:**	4/1/97
Sample Matrix:	Liquid	**Date Received:**	4/2/97

Ignitability

Sample Name:	18609-237	Units:	DEG F
Lab Code:	L9701194-002	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	4/2/97	200	U

Approved By: _____ Date: 4/14/97

1S22/052595

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701194
Project:	UST Contents (DO-70)/18609	**Date Collected:**	4/1/97
Sample Matrix:	Liquid	**Date Received:**	4/2/97

Ignitability

Sample Name:	18609-238	Units:	DEG F
Lab Code:	L9701194-003	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	4/2/97	200	U

Approved By: _____ Date: 4/14/97

1S22/052595

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G1194WET.IZ1 - Sample (2) 4/14/97

Page No.:

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701194
Project:	UST Contents (DO-70)/18609	**Date Collected:**	4/1/97
Sample Matrix:	Liquid	**Date Received:**	4/2/97

Ignitability

Sample Name:	18609-239	Units:	DEG F
Lab Code:	L9701194-004	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	4/2/97	200	U

Approved By: _____ Date: 4/14/97

1S22 052595

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01194WET.IZ1 - Sample (3) 4/14/97

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701194
Project:	UST Contents (DO-70)/18609	**Date Collected:**	4/1/97
Sample Matrix:	Liquid	**Date Received:**	4/2/97

Ignitability

Sample Name:	18609-240	Units:	DEG F
Lab Code:	L9701194-005	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	4/2/97	200	U

Approved By: _____ Date: 4/14/97

1S22/052595

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	OHM Remediation Services Corp.	**Service Request:**	L9701194
Project:	UST Contents (DO-70)/18609	**Date Collected:**	4/1/97
Sample Matrix:	Liquid	**Date Received:**	4/2/97

Ignitability

Sample Name:	18609-241	Units:	DEG F
Lab Code:	L9701194-006	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	Dilution Factor	Date Extracted	Date Analyzed	Result	LAB Qualifier
Ignitability	METHOD	1010	1	NA	4/2/97	200	U

Approved By: _____ Date: 4/14/97

1S22/052595

305

01194WET.IZ1 - Sample (5) 4/14/97

Page No.

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COMPLETED

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

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

209471

FORM 0019 REV. 2-97

OHM's LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
DWAYNE ISHIDA	(714) 263-1146	(714) 263-1147			
PROJECT NAME: UST 326 Contents	PROJECT LOCATION: EL TORO MCAS	PROJECT NUMBER: 18609	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
PROJECT CONTACT: D. ISHIDA	PROJECT PHONE NUMBER: 263-1146	PROJECT FAX: 263-1147	LABORATORY ADDRESS		ADDRESS
PROJECT ADDRESS: 2031 MAIN St.	CITY, STATE AND ZIPCODE: IRVINE, CA	CLIENT: SWDIV	CITY, STATE AND ZIPCODE: CHINO, CA		CITY, STATE AND ZIPCODE
PROJECT MANAGER: BILL SEDLAK	PROJECT MANAGER'S PHONE: 263-1146	PROJECT MANAGER'S FAX: 263-1147			

APCL

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T.	8270	8260	8081	TPH-Extractable	TPH-Purgeable	Metals TTLC 22	Ignitability	Comments
1	18609-596	W	10/13/97	1345	NONE HCL HNO3	10 (1L)	C	72HR	X	X	X	X	X	X	X	
2	18609-597	W	10/13/97	1300	HCL	3	C	5DAY	X	X			X			
3																
4																
5																
6																
7																
8																
9																
10																

10/13/97

SAMPLES COLLECTED BY: WR

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Mendah Bonne	[illegible]	10/14/97	0700	

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

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

Sample Point Location	Sample Type: G	C	F
1) UST 326 Contents	X		
2) TRIP BLANK	X		

Comments

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

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

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY
209471
FORM 0019 REV

OHM's LAB COORDINATOR: DWAYNE Ishida	LAB COORDINATOR'S PHONE: (714) 263-1146	LAB COORDINATOR'S FAX: (714) 263-1147	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
PROJECT NAME: UST 326 Contents	PROJECT LOCATION: EL TORO MCAS	PROJECT NUMBER: 18609	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
PROJECT CONTACT: D. Ishida	PROJECT PHONE NUMBER: 263-1146	PROJECT FAX: 263-1147	LABORATORY ADDRESS		ADDRESS
PROJECT ADDRESS: 2031 MAIN St.	CITY, STATE AND ZIPCODE: IRVINE, CA.	CLIENT: SWDIV	CITY, STATE AND ZIPCODE: CHINO, CA		CITY, STATE AND ZIPCODE
PROJECT MANAGER: Bill SEDLAK	PROJECT MANAGER'S PHONE: 263-1146	PROJECT MANAGER'S FAX: 263-1147			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T.	Analyses: 8270	8260	8081	TPH-Extractable	TPH-Purgeable	metals	Ignitability		Comments
1	18609-596	W	10/13/97	1345	NONE HCL HNO3	10 (MS)	C	72 HR	X	X	X	X	X	X	X		
2	18609-597	W	10/13/97	1300	HCL	3	C	5 DAY	X	X			X				
3																	
4																	
5																	
10																	

APCL

48 hr
TAT

MMB 10/13/97

SAMPLES COLLECTED BY: MMB

COURIER AND AIR BILL NUMBER

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE SUBDIVISION UPON RECEIPT
Mendish Bamal	[illegible signature]	10/14/97	0800	

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

29802

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	10/13/97
Project ID:	UST 326 Contents	Service ID:	974306	Collected by:	
		Lab Sample ID:	97-4306-1	Received Date:	10/14/97
Sample ID:	**18609-1596**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: N
Anal. Method:	M8015V	Prep. Date:	10/14/97	Anal. Date:	10/14/97
Batch No:	97G4037	Prep. No:	–	Anal. Time:	14:48
Data File Name:	4306.001	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

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

Surrogates		Control Limit, %	Surro. Rec.%
1 4-BROMO-FLUOROBENZENE (BFB)	460-00-4	68-124	91
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.
[a]Sample chromatogram contains peaks originated from Diesel.

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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Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	10/13/97
Project ID:	UST 326 Contents	Service ID:	974306	Collected by:	
		Lab Sample ID:	97-4306-2	Received Date:	10/14/97
Sample ID:	**18609-1597**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: N
Anal. Method:	M8015V	Prep. Date:	10/14/97	Anal. Date:	10/14/97
Batch No:	97G4037	Prep. No:	–	Anal. Time:	13:57
Data File Name:	4306.002	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

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

Surrogates		Control Limit, %	Surro. Rec.%
1 4-BROMO-FLUOROBENZENE (BFB)	460-00-4	68-124	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

29929

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	10/13/97
Project ID:	UST 326 Contents	Service ID:	974306	Collected by:	
		Lab Sample ID:	97-4306-1	Received Date:	10/14/97
Sample ID:	**18609-1596**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	10/15/97	Anal. Date:	10/16/97
Batch No:	97G4068	Prep. No:	1 of 1	Anal. Time:	11:20
Data File Name:	4306.101	Sample Amount:	500 mL	Dilution Factor:	1000
Extract Vol.	5.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/L	500	3500	
2	TPH AS MOTOR OIL	TBD-0002	mg/L	500	< 500	U

Surrogates			Control Limit, %	Surro. Rec.%
1	HEXACOSANE, C_{26}	630-01-3	50-149	158
# of out-of-control				1

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

29946

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	10/13/97
Project ID:	UST 326 Contents	Service ID:	974306	Collected by:	
		Lab Sample ID:	97-4306-1	Received Date:	10/14/97
Sample ID:	**18609-1596** [a]	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	10/16/97	Anal. Date:	10/16/97
Batch No:	97G4064	Prep. No:	–	Anal. Time:	00:43
Data File Name:	4306-01A	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) N	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	5	< 5	U
2	BROMOBENZENE	108-86-1	µg/L	5	< 5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	5	< 5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	5	< 5	U
5	BROMOFORM	75-25-2	µg/L	5	< 5	U
6	BROMOMETHANE	74-83-9	µg/L	5	< 5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	5	< 5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	5	< 5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	5	< 5	U
10	CARBON TETRACHLORIDE	56-23-5	µg/L	5	< 5	U
11	CHLOROBENZENE	108-90-7	µg/L	5	0.3	J
12	DIBROMOCHLOROMETHANE	124-48-1	µg/L	5	< 5	U
13	CHLOROETHANE	75-00-3	µg/L	5	< 5	U
14	CHLOROFORM	67-66-3	µg/L	5	0.5	J
15	CHLOROMETHANE	74-87-3	µg/L	5	< 5	U
16	2-CHLOROTOLUENE	95-49-8	µg/L	5	< 5	U
17	4-CHLOROTOLUENE	106-43-4	µg/L	5	< 5	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	5	< 5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	5	< 5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	5	< 5	U
21	DIBROMOMETHANE	74-95-3	µg/L	5	< 5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	5	< 5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	5	< 5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	5	< 5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	5	5	
26	1,1-DICHLOROETHANE	75-34-3	µg/L	5	< 5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	5	< 5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	5	< 5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	5	< 5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	5	< 5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	5	< 5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	5	< 5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	5	< 5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	5	< 5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	5	< 5	U
36	ETHYLBENZENE	100-41-4	µg/L	5	< 5	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/L	5	< 5	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/L	5	< 5	U
39	METHYLENE CHLORIDE	75-09-2	µg/L	5	< 5	U

29809

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	μg/L	5	< 5	U
41	N-PROPYLBENZENE	103-65-1	μg/L	5	< 5	U
42	STYRENE	100-42-5	μg/L	5	< 5	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	μg/L	5	< 5	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	μg/L	5	< 5	U
45	TETRACHLOROETHENE	127-18-4	μg/L	5	< 5	U
46	TOLUENE	108-88-3	μg/L	5	0.3	J
47	1,2,3-TRICHLOROBENZENE	87-61-6	μg/L	5	< 5	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	μg/L	5	< 5	U
49	1,1,1-TRICHLOROETHANE	71-55-6	μg/L	5	< 5	U
50	1,1,2-TRICHLOROETHANE	79-00-5	μg/L	5	< 5	U
51	TRICHLOROETHENE	79-01-6	μg/L	5	3	J
52	TRICHLOROFLUOROMETHANE	75-69-4	μg/L	5	< 5	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	μg/L	5	< 5	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	μg/L	5	< 5	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	μg/L	5	< 5	U
56	VINYL CHLORIDE	75-01-4	μg/L	5	< 5	U
57	XYLENES (TOTAL)	1330-20-7	μg/L	15	< 15	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	89-111	99
2	DIBROMOFLUOROMETHANE	1868-53-7	86-117	103
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-113	105
4	TOLUENE-D8	2037-26-5	88-109	100
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	92
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	83
3	FLUOROBENZENE	462-06-6	50-200	94
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.
[a]Sample also contains 9 μg/L of F-113 and 15.2 μg/L of 2-Butanone.

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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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	10/13/97
Project ID:	UST 326 Contents	Service ID:	974306	Collected by:	
		Lab Sample ID:	97-4306-2	Received Date:	10/14/97
Sample ID:	**18609-1597**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	10/15/97	Anal. Date:	10/15/97
Batch No:	97G4064	Prep. No:	–	Anal. Time:	16:13
Data File Name:	4306-02	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	5	< 5	U
2	BROMOBENZENE	108-86-1	µg/L	5	< 5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	5	< 5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	5	< 5	U
5	BROMOFORM	75-25-2	µg/L	5	< 5	U
6	BROMOMETHANE	74-83-9	µg/L	5	< 5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	5	< 5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	5	< 5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	5	< 5	U
10	CARBON TETRACHLORIDE	56-23-5	µg/L	5	< 5	U
11	CHLOROBENZENE	108-90-7	µg/L	5	< 5	U
12	DIBROMOCHLOROMETHANE	124-48-1	µg/L	5	< 5	U
13	CHLOROETHANE	75-00-3	µg/L	5	< 5	U
14	CHLOROFORM	67-66-3	µg/L	5	< 5	U
15	CHLOROMETHANE	74-87-3	µg/L	5	< 5	U
16	2-CHLOROTOLUENE	95-49-8	µg/L	5	< 5	U
17	4-CHLOROTOLUENE	106-43-4	µg/L	5	< 5	U
18	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	5	< 5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	5	< 5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	5	< 5	U
21	DIBROMOMETHANE	74-95-3	µg/L	5	< 5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	5	< 5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	5	< 5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	5	< 5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	5	< 5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	5	< 5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	5	< 5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	5	< 5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	5	< 5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	5	< 5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	5	< 5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	5	< 5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	5	< 5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	5	< 5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	5	< 5	U
36	ETHYLBENZENE	100-41-4	µg/L	5	< 5	U
37	HEXACHLOROBUTADIENE	87-68-3	µg/L	5	< 5	U
38	P-ISOPROPYLTOLUENE	99-87-6	µg/L	5	< 5	U
39	METHYLENE CHLORIDE	75-09-2	µg/L	5	< 5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	NAPHTHALENE	91-20-3	µg/L	5	< 5	U
41	N-PROPYLBENZENE	103-65-1	µg/L	5	< 5	U
42	STYRENE	100-42-5	µg/L	5	< 5	U
43	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	5	< 5	U
44	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	5	< 5	U
45	TETRACHLOROETHENE	127-18-4	µg/L	5	< 5	U
46	TOLUENE	108-88-3	µg/L	5	< 5	U
47	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	5	< 5	U
48	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	5	< 5	U
49	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	5	< 5	U
50	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	5	< 5	U
51	TRICHLOROETHENE	79-01-6	µg/L	5	< 5	U
52	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	5	< 5	U
53	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	5	< 5	U
54	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	5	< 5	U
55	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	5	< 5	U
56	VINYL CHLORIDE	75-01-4	µg/L	5	< 5	U
57	XYLENES (TOTAL)	1330-20-7	µg/L	15	< 15	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	89-111	99
2	DIBROMOFLUOROMETHANE	1868-53-7	86-117	98
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-113	103
4	TOLUENE-D8	2037-26-5	88-109	99
# 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	90
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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Applied P & Ch Laboratory

Organic Analysis Results for Method 8270

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	10/13/97
Project ID:	UST 326 Contents	Service ID:	974306	Collected by:	
		Lab Sample ID:	97-4306-1	Received Date:	10/14/97
Sample ID:	**18609-1596**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC/MS: Y
Anal. Method:	8270	Prep. Date:	10/15/97	Anal. Date:	10/15/97
Batch No:	97G4058	Prep. No:	1 of 1	Anal. Time:	21:12
Data File Name:	4306-01	Sample Amount:	1000 mL	Dilution Factor:	40
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACENAPHTHENE	83-32-9	µg/L	400	< 400	U
2	ACENAPHTHYLENE	208-96-8	µg/L	400	< 400	U
3	ACETOPHENONE	98-86-2	µg/L	400	< 400	U
4	4-AMINOBIPHENYL	92-67-1	µg/L	400	< 400	U
5	ANILINE	62-53-3	µg/L	400	< 400	U
6	ANTHRACENE	120-12-7	µg/L	400	< 400	U
7	BENZO[A]ANTHRACENE	56-55-3	µg/L	400	< 400	U
8	BENZIDINE	92-87-5	µg/L	800	< 800	U
9	BENZO[A]PYRENE	50-32-8	µg/L	400	< 400	U
10	BENZO[B]FLUORANTHENE	205-99-2	µg/L	400	< 400	U
11	BENZO[G,H,I]PERYLENE	191-24-2	µg/L	400	< 400	U
12	BENZO[K]FLUORANTHENE	207-08-9	µg/L	400	< 400	U
13	BENZOIC ACID	65-85-0	µg/L	2000	< 2000	U
14	BENZYL ALCOHOL	100-51-6	µg/L	800	< 800	U
15	BIS(2-CHLOROETHOXY)METHANE	111-91-1	µg/L	400	< 400	U
16	BIS(2-CHLOROETHYL)ETHER	111-44-4	µg/L	400	< 400	U
17	BIS(2-CHLOROISOPROPYL)ETHER	108-60-1	µg/L	400	< 400	U
18	BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	µg/L	400	110	J
19	4-BROMOPHENYL PHENYL ETHER	101-55-3	µg/L	400	< 400	U
20	BUTYL BENZYL PHTHALATE	85-68-7	µg/L	400	< 400	U
21	3-METHYL-4-CHLOROPHENOL	59-50-7	µg/L	800	< 800	U
22	4-CHLOROANILINE	106-47-8	µg/L	800	< 800	U
23	1-CHLORONAPHTHALENE	90-13-1	µg/L	400	< 400	U
24	2-CHLORONAPHTHALENE	91-58-7	µg/L	400	< 400	U
25	2-CHLOROPHENOL	95-57-8	µg/L	400	< 400	U
26	4-CHLOROPHENYL PHENYL ETHER	7005-72-3	µg/L	400	< 400	U
27	CHRYSENE	218-01-9	µg/L	400	< 400	U
28	DI-N-BUTYLPHTHALATE	84-74-2	µg/L	400	54	J
29	DI-N-OCTYLPHTHALATE	117-84-0	µg/L	400	< 400	U
30	DIBENZ[A,H]ANTHRACENE	53-70-3	µg/L	400	< 400	U
31	DIBENZ(A,J)ACRIDINE	224-42-0	µg/L	400	< 400	U
32	DIBENZOFURAN	132-64-9	µg/L	400	< 400	U
33	1,2-DICHLOROBENZENE	95-50-1	µg/L	400	< 400	U
34	1,3-DICHLOROBENZENE	541-73-1	µg/L	400	< 400	U
35	1,4-DICHLOROBENZENE	106-46-7	µg/L	400	< 400	U
36	3,3'-DICHLOROBENZIDINE	91-94-1	µg/L	400	< 400	U
37	2,4-DICHLOROPHENOL	120-83-2	µg/L	400	< 400	U
38	2,6-DICHLOROPHENOL	87-65-0	µg/L	400	< 400	U
39	DIETHYL PHTHALATE	84-66-2	µg/L	400	< 400	U
40	DIMETHYL PHTHALATE	131-11-3	µg/L	400	< 400	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
41	P-DIMETHYLAMINOAZOBENZENE	60-11-7	µg/L	400	< 400	U
42	7,12-DIMETHYLBENZ(A)ANTHRACENE	57-97-6	µg/L	400	< 400	U
43	2,4-DIMETHYLPHENOL	105-67-9	µg/L	400	< 400	U
44	Å-DIMETHYLPHENYLAMINE	122-09-8	µg/L	2000	< 2000	U
45	2-METHYL-4,6-DINITROPHENOL	534-52-1	µg/L	2000	< 2000	U
46	2,4-DINITROPHENOL	51-28-5	µg/L	2000	< 2000	U
47	2,4-DINITROTOLUENE	121-14-2	µg/L	400	< 400	U
48	2,6-DINITROTOLUENE	606-20-2	µg/L	400	< 400	U
49	DIPHENYLAMINE	122-39-4	µg/L	400	< 400	U
50	1,2-DIPHENYLHYDRAZINE	122-66-7	µg/L	400	< 400	U
51	ETHYL METHANESULFONATE	62-50-0	µg/L	400	< 400	U
52	FLUORANTHENE	206-44-0	µg/L	400	< 400	U
53	FLUORENE	86-73-7	µg/L	400	< 400	U
54	HEXACHLOROBENZENE	118-74-1	µg/L	400	< 400	U
55	HEXACHLOROBUTADIENE	87-68-3	µg/L	400	< 400	U
56	HEXACHLOROCYCLOPENTADIENE	77-47-4	µg/L	400	< 400	U
57	HEXACHLOROETHANE	67-72-1	µg/L	400	< 400	U
58	INDENO[1,2,3-CD]PYRENE	193-39-5	µg/L	400	< 400	U
59	ISOPHORONE	78-59-1	µg/L	400	< 400	U
60	METHYL METHANESULFONATE	66-27-3	µg/L	400	< 400	U
61	3-METHYLCHOLANTHRENE	56-49-5	µg/L	400	< 400	U
62	2-METHYLNAPHTHALENE	91-57-6	µg/L	400	< 400	U
63	4-METHYLPHENOL	106-44-5	µg/L	400	< 400	U
64	2-METHYLPHENOL	95-48-7	µg/L	400	< 400	U
65	NAPHTHALENE	91-20-3	µg/L	400	< 400	U
66	1-NAPHTHYLAMINE	134-32-7	µg/L	400	< 400	U
67	2-NAPHTHYLAMINE	91-59-8	µg/L	400	< 400	U
68	2-NITROANILINE	88-74-4	µg/L	2000	< 2000	U
69	3-NITROANILINE	99-09-2	µg/L	2000	< 2000	U
70	4-NITROANILINE	100-01-6	µg/L	2000	< 2000	U
71	NITROBENZENE	98-95-3	µg/L	400	< 400	U
72	2-NITROPHENOL	88-75-5	µg/L	400	< 400	U
73	4-NITROPHENOL	100-02-7	µg/L	2000	< 2000	U
74	N-NITROSODI-N-PROPYLAMINE	621-64-7	µg/L	400	< 400	U
75	N-NITROSO-DI-N-BUTYLAMINE	924-16-3	µg/L	400	< 400	U
76	N-NITROSODIMETHYLAMINE	62-75-9	µg/L	400	< 400	U
77	N-NITROSODIPHENYLAMINE	86-30-6	µg/L	400	< 400	U
78	N-NITROSOPIPERIDINE	100-75-4	µg/L	400	< 400	U
79	PENTACHLOROBENZENE	608-93-5	µg/L	2000	< 2000	U
80	PENTACHLOROPHENOL	87-86-5	µg/L	2000	< 2000	U
81	PHENACETIN	62-44-2	µg/L	400	< 400	U
82	PHENANTHRENE	85-01-8	µg/L	400	< 400	U
83	PHENOL	108-95-2	µg/L	400	< 400	U
84	2-PICOLINE	109-06-8	µg/L	800	< 800	U
85	PRONAMIDE	23950-58-5	µg/L	400	< 400	U
86	PYRENE	129-00-0	µg/L	400	< 400	U
87	1,2,4,5-TETRACHLOROBENZENE	95-94-3	µg/L	400	< 400	U
88	2,3,4,6-TETRACHLOROEPHENOL	58-90-2	µg/L	400	< 400	U
89	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	400	< 400	U
90	2,4,5-TRICHLOROPHENOL	95-95-4	µg/L	400	< 400	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
91	2,4,6-TRICHLOROPHENOL	88-06-2	µg/L	400	<400	U
Surrogates				Control Limit, %	Surro. Rec.%	
1	2-FLUOROBIPHENYL	321-60-8		43-115	14	
2	2-FLUOROPHENOL	367-12-4		21- 99	4	
3	NITROBENZENE-D5	4165-60-0		35-113	17	
4	PHENOL-D5	4165-62-2		10- 93	12	
5	TERPHENYL-D14	1718-51-0		33-140	26	
6	2,4,6-TRIBROMOPHENOL	118-79-6		10-122	0	
# of out-of-control					5	
Internal Standard				Control Limit, %	IS Rec.%	
1	ACENAPHTHENE-D10	15067-26-2		50-200	92	
2	CHRYSENE-D12	1719-03-5		50-200	96	
3	1,4-DICHLOROBENZENE-D4	3855-82-1		50-200	81	
4	NAPHTHALENE-D8	1146-65-2		50-200	89	
5	PERYLENE-D12	1520-96-3		50-200	78	
6	PHENANTHRENE-D10	1517-22-2		50-200	135	
# 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 8080

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	10/13/97
Project ID:	UST 326 Contents	Service ID:	974306	Collected by:	
		Lab Sample ID:	97-4306-1	Received Date:	10/14/97
Sample ID:	**18609-1596**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: R
Anal. Method:	8080	Prep. Date:	10/15/97	Anal. Date:	10/17/97
Batch No:	97G4059	Prep. No:	1 of 1	Anal. Time:	16:20
Data File Name:	4306.101	Sample Amount:	1000 mL	Dilution Factor:	10
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ALDRIN	309-00-2	µg/L	0.5	<0.5	U
2	BETA-BHC	319-85-7	µg/L	0.5	<0.5	U
3	ALPHA-BHC	319-84-6	µg/L	0.5	<0.5	U
4	DELTA-BHC	319-86-8	µg/L	0.5	<0.5	U
5	GAMMA-BHC	58-89-9	µg/L	0.5	<0.5	U
6	4,4'-DDD	72-54-8	µg/L	1	9.8	
7	4,4'-DDE	72-55-9	µg/L	1	4.3	
8	4,4'-DDT	50-29-3	µg/L	1	2.5	
9	DIELDRIN	60-57-1	µg/L	1	<1	U
10	ENDOSULFAN I	959-98-8	µg/L	0.5	<0.5	U
11	ENDOSULFAN II	33213-65-9	µg/L	1	<1	U
12	ENDOSULFAN SULFATE	1031-07-8	µg/L	5	<5	U
13	ENDRIN	72-20-8	µg/L	1	<1	U
14	ENDRIN ALDEHYDE	7421-93-4	µg/L	1	<1	U
15	ENDRIN KETONE	53494-70-5	µg/L	1	<1	U
16	HEPTACHLOR	76-44-8	µg/L	0.5	<0.5	U
17	HEPTACHLOR EPOXIDE	1024-57-3	µg/L	0.5	<0.5	U
18	METHOXYCHLOR	72-43-5	µg/L	20	<20	U
19	CHLORDANE	57-74-9	µg/L	20	<20	U
20	TOXAPHENE	8001-35-2	µg/L	50	<50	U
21	AROCLOR-1016	12674-11-2	µg/L	20	<20	U
22	AROCLOR-1221	11104-28-2	µg/L	50	<50	U
23	AROCLOR-1232	11141-16-5	µg/L	20	<20	U
24	AROCLOR-1242	53469-21-9	µg/L	20	<20	U
25	AROCLOR-1248	12672-29-6	µg/L	20	<20	U
26	AROCLOR-1254	11097-69-1	µg/L	10	<10	U
27	AROCLOR-1260	11096-82-5	µg/L	10	<10	U

Surrogates			Control Limit, %	Surro. Rec.%
1	DECACHLOROBIPHENYL (DCB)	11-53-0	30-145	140
2	2,4,5,6-TETRACHLORO-M-XYLENE	877-09-8	34-144	74
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	DIBUTYLCHLORENDATE (DBC)	1770-80-5	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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Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	10/13/97
Project ID:	UST 326 Contents	Service ID:	974306	Collected by:	
		Lab Sample ID:	97-4306-1	Received Date:	10/14/97
Sample ID:	**18609-1596**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	µg/L	10	<1.6	U	P		97M2467M	10/14/97	10/14/97	1	6010
ARSENIC	7440-38-2	µg/L	5	3.6	B	P		97M2467M	10/14/97	10/14/97	1	6010
BARIUM	7440-39-3	µg/L	10	174		P		97M2467M	10/14/97	10/14/97	1	6010
BERYLLIUM	7440-41-7	µg/L	2	<0.16	B	P		97M2467M	10/14/97	10/14/97	1	6010
CADMIUM	7440-43-9	µg/L	2	1.7	B	P		97M2467M	10/14/97	10/14/97	1	6010
CHROMIUM	7440-47-3	µg/L	5	8.8		P		97M2467M	10/14/97	10/14/97	1	6010
COBALT	7440-48-4	µg/L	5	2.4	B	P		97M2467M	10/14/97	10/14/97	1	6010
COPPER	7440-50-8	µg/L	10	<0.59	U	P		97M2467M	10/14/97	10/14/97	1	6010
LEAD	7439-92-1	µg/L	5	87.8		P		97M2467M	10/14/97	10/14/97	1	6010
MERCURY	7439-97-6	µg/L	0.5	<0.057	U	CV		97M2471N	10/14/97	10/15/97	1	7470
MOLYBDENUM	7439-98-7	µg/L	5	8.6		P		97M2467M	10/14/97	10/14/97	1	6010
NICKEL	7440-02-0	µg/L	5	25.0		P		97M2467M	10/14/97	10/14/97	1	6010
SELENIUM	7782-49-2	µg/L	10	<3.5	U	P		97M2467M	10/14/97	10/14/97	1	6010
SILVER	7440-22-4	µg/L	10	<0.65	U	P		97M2467M	10/14/97	10/14/97	1	6010
THALLIUM	7440-28-0	µg/L	10	<1.2	U	P		97M2467M	10/14/97	10/14/97	1	6010
VANADIUM	7440-62-2	µg/L	10	7.4	B	P		97M2467M	10/14/97	10/14/97	1	6010
ZINC	7440-66-6	µg/L	5	409		P		97M2467M	10/14/97	10/14/97	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

29982

Applied P & Ch Laboratory

Wet Analysis Results for Method 1010

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Anal. Method	1010
Project ID:	UST 326 Contents	Service ID:	974306	Collected by:	

Component Name: Ignitability (Flashpoint)
CAS No: 9999-97

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
97-4306-1	18609-1596	Water	10/13/97	10/14/97	10/17/97	97W5443	°C	0.5 [a]	>100	

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.
[a]Corresponds to the minimum reading of the thermometer used.

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

3001

Appendix F
Site Photographs

Photograph No. 1: Exposure of UST 326A and 326B Concrete Vaults tops.

Photograph No. 2: Pumping of liquid products from the USTs 326A and 326B

Photograph No. 3: Backfilling of the UST Concrete Vaults with gravel.

Photograph No. 4: Backfilling of the USTs 326A and 326B Vaults to the finish grade.

Appendix G
Waste Profile and Manifest

Chemical Waste Management, Inc.

DZ 4359
Profile #

WASTE PROFILE

(Please carefully read the instructions before completing this form)

Sales #

TSDF requested _____ Technology requested _____
☐ Check here if this is a Recertification ☒ Check here if a Certificate of Destruction or Disposal is required

GENERAL INFORMATION

1. GENERATOR NAME: Commanding General (1AU) Generator USEPA ID: CA6170023208
2. Generator Address MCAS - El Toro P.O. Box 95001, Santa Ana, CA 95001 Billing Address: ☐ Same OHM Remediation Services 5731 W. Las Positas Blvd. Pleasanton, CA 94588
3. Technical Contact/Phone Steve Chandler (714) 263-1146 x431
4. Alternate Contact/Phone: _____ Billing Contact/Phone: Atn: Accounts Payable

PROPERTIES AND COMPOSITION

5. A. Process Generating Waste: site remediation soil
   B. Is the waste from a CERCLA or state mandated cleanup? Yes ☐ No ☒ Location Name: _____
6. Waste Name: lead impacted soil
7. A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes ☐ No ☒
   B. If D001, D002, D003, D012-D043 do any underlying hazardous constituents (UHC's) apply? Yes ☐ No ☒ (if yes, attach UHC form)
   C. Does this waste contain debris (List size and type in chemical composition)? Yes ☐ No ☒
   D. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): n/a State Waste Codes: 611
   E. Does this waste contain any Class I or Class II ozone depleting substances? (List in chemical composition) no
8. Physical state @ 70°F: A. Solid ☒ Liquid ☐ Both ☐ Gas ☐ B. Single Layer ☒ Multilayer ☐ C. Free Liquid range _____ to 0 %
9. A. pH: Range _____ to _____ or Not applicable ☒ B. Strong Odor ☐: describe none
10. Liquid Flash Point: < 73°F ☐ 73-99°F ☐ 100-139°F ☐ 140-199°F ☐ ≥ 200°F ☐ N.A. ☒
11. CHEMICAL COMPOSITION: List ALL constituents (including halogenated organics and UHC's) present in any concentration and forward available analysis

Constituents	Range	Units	Constituents	Units
soil	100	%		
lead less	than 5.0 mg/l TCLP			
(see attached analysis)				

D2 Item 441

TOTAL COMPOSITION MUST EQUAL OR EXCEED 100%

12. OTHER: PCBs if yes, concentration 0 ppm, PCB's regulated by 40 CFR 761 ☐ Pyrophoric ☐ Explosive Water Reactive ☐ Shock Sensitive ☐ Oxidizer ☐ Carcinogen ☐ Infectious ☐ Other _____
13. If Benzene, concentration 0 ppm. Is the waste subject to the Benzene Waste Operation NESHAP? Yes ☐ No ☒ Unknown ☐
14. Is the waste subject to RCRA subpart CC controls? Yes ☐ No ☒ Volatile organic concentration, if known 0 ppmw.
15. If the waste is subject to the land ban and meets the treatment standards, check here: ___ and supply analytical results where applicable.

SHIPPING INFORMATION

16. PACKAGING: Bulk Solid ☐ Type/Size: _____ Bulk Liquid ☐ Type/Size: _____ Drum ☒ Type/Size 55 gal. metal Other _____
17. SHIPPING FREQUENCY: Units 1 Per: ☐ Month ☐ Qtr. ☐ Year ☒ One Time ☐ Other _____

SAMPLING INFORMATION

18. A. Sample source (drum, lagoon, pond, tank, vat, etc.) _____
    Date Sampled: _____ Sampler's Name/Company: OHM Remediation Services
    B. Generator's Agent Supervision Sampling: _____ 19. No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has confirmed the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary.

Signature	Printed (or typed) name and title	Date
[signature]	E. Benavente, EPS	2-23-98

If the waste profile is approved, Chemical Waste Management, Inc. has the appropriate permits and will accept the waste pursuant to our agreement.
CWM Form 6000-D replaces the following forms: CWM-51, CWM 6000, CWM 50-A-2, CWM 50-B and CWM 6000C.

Printed on recycled paper

Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA617002320800 0 0 0 4 — Manifest Document No.

2. Page 1 of 1

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

3. Generator's Name and Mailing Address
Commanding General (1AU)
MCAS-El Toro P.O. Box 95001
Santa Ana CA 92709-5001

4. Generator's Phone: 714 726-2772

A. State Manifest Document Number: 96613468

B. State Generator's ID: HAH013603918

5. Transporter 1 Company Name: (AETS) ADvanced Env. Tech Svcs.

6. US EPA ID Number: NJD980613369

C. State Transporter's ID:

D. Transporter's Phone: (201) 347-7171

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Rd.
Kettleman City, CA 93239

10. US EPA ID Number: CAT000646117

G. State Facility's ID:

H. Facility's Phone: (800) 222-2964

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Lead contaminated soil and debris, Non-RCRA hazardous waste, solid	001	DM	002.50	P	State 811; EPA/Other N/A
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above
lead contaminated soil
lead: 6.55 mg/l (STLC) 5.0 mg/l (TCLP)

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

15. Special Handling Instructions and Additional Information
FAX facility signed manifest to ATN: Steve Chandler at fax number (714) 263-1147, Project #18609, DO#70, emergency number (714) 726-3917, ERG #n/a, CWM Profile #DZ4359

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

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

	Printed/Typed Name	Signature	Month	Day	Year
GENERATOR	Eric Bennette		03	13	96
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials: Mark Jeris		03	13	98
	18. Transporter 2 Acknowledgement of Receipt of Materials				
FACILITY	19. Discrepancy Indication Space				
	20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.				

DO NOT WRITE BELOW THIS LINE.

SC 8022A (4/97)
EPA 8700-22

Yellow: GENERATOR RETAINS

IN CASE OF EMERGENCY OR SPILL CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-8

CALIFORNIA LAND DISPOSAL RESTRICTION NOTIFICATION AND CERTIFICATION

Generator Name	Commanding General (1AU)	Manifest Number	96613468
Generator Address	MCAS - El Toro P.O. Box 95001, Santa Ana, CA	CWM Profile Number	DX4359
California Hazardous Waste Code(s)	611		

This form is submitted to Chemical Waste Management, Inc. in accordance with the requirements of CCR Title 22, Chapter 18, Article 1, which restricts the disposal of certain hazardous wastes. I have marked the appropriate box (boxes A through D) below to indicate how my waste must be managed to cont to the land disposal restrictions. A copy of all applicable treatment standards and waste analysis data, where available, is maintained at the Chemical W Management facility identified on the manifest referenced above. I have entered the appropriate California Waste Code and checked the appropriate bo the table below to indicate the applicable non-RCRA hazardous waste listing from 22 CCR § 66268.29.

✓	State of California Restricted Waste Description Listed in 22 CCR § 66268.29	Prohibition Implementation Date	Corresponding Treatment Standard (from 22 CCR)
	1 Metal-containing aqueous waste identified in 22 CCR 66268.29(a).	01/26/90	66268.107(a)
	2 PCB wastes identified in section 66268.29(b).	01/27/90	66268.110
	3 Auto shredder waste identified in section 66268.29(c)	05/08/91	66268.106(a)(1)
	4 Non-wastewater solvent waste identified in section 66268.29(d).	01/01/96	66268.107(b)
	5 Hazard. us waste foundry sand identified in section 66268.29(e)	01/01/91	66268.106(a)(2)
	6 (reserved) (for oily petroleum wastes)		
	7 Metal-containing solid waste identified in section 66268.29(g).	01/01/96	66268.106(a)(3)
	8 Fly ash, bottom ash, retort ash or baghouse waste identified in 66268.29(h).	01/01/91	66268.106(a)(4)
	9 Baghouse waste from foundries identified in section 66268.29(i).	01/01/91	66268.106(a)(5)
	10 Aqueous and liquid organic waste identified in section 66268.29(j).	01/01/96	66268.112
X	11 Solid waste containing organics identified in section 66268.29(k).	01/01/96	66268.113
	12 (reserved) (for liquid redox with metals)		
	13 Asbestos-containing waste identified in section 66268.29(m).	03/01/93	66268.114

☐ **A. RESTRICTED WASTE REQUIRES TREATMENT**
I am the generator of the waste identified above which must be treated to meet the applicable treatment standards set forth in CCR Title 22. Ar 4 or Article 11 of Chapter 18.

☐ **B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS**
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process u to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that treatment process has been operated and maintained properly so as to comply with the performance levels specified in Article 4 and Article 11 of Cha 18, Division 4.5, Title 22, CCR and all applicable prohibitions set forth in section 66268.32 or RCRA section 3004(d) [42 U.S.C. Section 6924(d)] wit impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possib of a fine and imprisonment."

☐ **B.2 RESTRICTED ASBESTOS WASTE TREATED TO PERFORMANCE STANDARD.**
"I warrant that I am an authorized representative of the generator. I certify under penalty of law that the waste complies with the treatment standa specified in CCR, Title 22, Division 4.5, Chapter 18, section 66268.114. I believe that the information I submitted is true, accurate, and complete am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."

☒ **C. RESTRICTED WASTE SUBJECT TO AN EXEMPTION [22 CCR 66268.7(a)(3)]**
The waste identified above is subject to a prohibition implementation date of 01-01-99

☐ **D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT TREATMENT**
"I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of waste to support this certification, that the waste complies with the treatment standards specified in CCR Title 22, Division 4.5, Chapter 18, Article 4 a Article 11 and all applicable prohibitions set forth in CCR Title 22, Section 66268.32 or RCRA Section 3004(d) [42 U.S.C. Section 6924(d)]. I am aw that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information

Signature:	Date:
Authorized Representative Print Name:	Title:

CALIFORNIA LAND DISPOSAL RESTRICTION NOTIFICATION AND CERTIFICATION

Generator Name	Commanding General (1AU)	Manifest Number	96613468
Generator Address	MCAS - El Toro P.O. Box 95001, Santa Ana, CA	CWM Profile Number	DZ4359
California Hazardous Waste Code(s)	611		

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	10 Aqueous and liquid organic waste identified in section 66268.29(j).	01/01/96	66268.112
X	11 Solid waste containing organics identified in section 66268.29(k)	01/01/96	66268.113
	12 (reserved) (for liquid redox with metals)		
	13 Asbestos-containing waste identified in section 66268.29(m).	03/01/93	66268.114

☐ **A. RESTRICTED WASTE REQUIRES TREATMENT**
I am the generator of the waste identified above which must be treated to meet the applicable treatment standards set forth in CCR Title 22, Arti 4 or Article 11 of Chapter 18.

☐ **B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS**
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process us to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that t treatment process has been operated and maintained properly so as to comply with the performance levels specified in Article 4 and Article 11 of Chap 18, Division 4.5, Title 22, CCR and all applicable prohibitions set forth in section 66268.32 or RCRA section 3004(d) [42 U.S.C. Section 6924(d)] witho impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibi of a fine and imprisonment."

☐ **B.2 RESTRICTED ASBESTOS WASTE TREATED TO PERFORMANCE STANDARD.**
"I warrant that I am an authorized representative of the generator. I certify under penalty of law that the waste complies with the treatment standar specified in CCR, Title 22, Division 4.5, Chapter 18, section 66268.114. I believe that the information I submitted is true, accurate, and complete. am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."

XX **C. RESTRICTED WASTE SUBJECT TO AN EXEMPTION [22 CCR 66268.7(a)(3)]**
The waste identified above is subject to a prohibition implementation date of 01-01-99

☐ **D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT TREATMENT**
"I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of t waste to support this certification, that the waste complies with the treatment standards specified in CCR Title 22, Division 4.5, Chapter 18, Article 4 an Article 11 and all applicable prohibitions set forth in CCR Title 22, Section 66268.32 or RCRA Section 3004(d) [42 U.S.C. Section 6924(d)]. I am awa that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Signature:	Date:
Authorized Representative Print Name:	Title:

Appendix H
Marine Chemist Certification and DRMO Receipt

DEC 19 97 04:05PM OHM EL TORO

Thomas D. Beck & Assoc., Inc.
dba HARBOR TESTING LABORATORY
24 HOUR PHONE: (562) 492-9646

MARINE CHEMIST CERTIFICATE

Serial # 8704

OHM	EL TORO MCAS	18 DEC 97
Requested by	Vessel Owner or Agent	Date
SEE BELOW	SEPERATOR	EL TORO MCAS ELTORO
Vessel	Type of Vessel	Specific Location of Vessel
OILY WATER	LEL, O_2, VISUAL	1445
Last Cargo	Tests Performed	Time Survey Completed

OILY WATER SEPERATOR
FROM SITE 326
and MARKED WITH
YELLOW PAINT

SITE 326
and
8704

TESTED 0% LEL 20.8% O_2
TANK/SEPARATOR TRIPLE
RINSED TO REMOVE RIDUALS

NOT SAFE FOR HOT WORK
SAFE TO COLD CUT
SEPERATOR USING HYDRAULIC/
PNUEMATIC TOOLS

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

MARINE CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed 13158 — Name — Company — Date

Signed [signature] — Marine Chemist — Certificate No. 594

ROICC
MCAS El Toro

Facsimile

# of pages: 4
Date: 13 JAN 98

From: Scott Kehe **Title:** Civil Engineer
Phone No.: (714) 726-2506 **Fax No.:** (714) 726-2255

To: LYNN HORNELKER **Company:** SWDIV
Phone No.: _____ **Fax No.:** (619) 532-4160

Subject: DRMO DOCUMENTATION DO. 70 & 112

Remarks:

Transmitted for your information and for COTR Transmittal to OHM are the following:

DO # 70:

- DD Form 1348-1A Receipt Document dated 13 Jan 98 for 770 pounds of fiberglass for UST 386A
- DD Form 1348-1A Receipt Document dated 13 Jan 98 for 3870 pounds of scrap metal for USTs 130A, 130B, 138, and UST (OWS) 326B

DO # 112:

- DD Form 1348-1A Receipt Document dated 13 Jan 98 for 11,320 pounds of scrap metal for USTs 205 and 207, Tank Farm 6 (misc. piping, valves, pumps, etc.)

The material was transported by OHM to DRMO Yard 3 on 8 Jan 98 and 12 Jan 98.

Scott Kehe

1	2	3	4	5	6	7	23	24	25	26	27	28	29	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
DI OD CE N T			RI FROM		M & S		UI NS I S T		QUANTITY					SER	SUPPLE- MENTARY ADDRESS					SIG	FUND	DIS- TRI- BU- TION		PRO- JECT		PRI	RDD EEA QLT D E			ADV	RI			O/P	CONDD	MGT												

1. TOTAL PRICE

UNIT PRICE: DOLLARS | CTS

DOLLARS | CTS

2. SHIP FROM: Environmental, MCAS El Toro, PO 95001 CA., Santa Ana 92709

3. SHIP TO: SZ3169 DR, MCAS El T, PO 21 CA, Irvine, 926

4. MARK FOR

EA 1

5. DOC DATE: 2008

6. NMFC

7. FRT RATE

8. TYPE CARGO

10. QTY. REC'D

11. UP

12. UNIT WEIGHT: 770 lbs.

13. UNIT CUBE

14. UFC

15. S

24. DOCUMENT NUMBER & SUFFIX (30-44): M60050-0118-2008

16. FREIGHT CLASSIFICATION NOMENCLATURE: Fuel Storage tank, Fiberglass.

17. ITEM NOMENCLATURE

25. NATIONAL STOCK NO & ADD (8-22): 2910-00- Fuel Tank. Fiberglass.

18. TY CONT

19. NO CONT

20. TOTAL WEIGHT

21. TOTAL CUBE

22. RECEIVED BY: CRWQ EL TORO

23. DATE RECEIVED: 1-13-98

26. RIC (4-6) UI (23-24) QTY (25-29) CON CODE (71) DIST (55-58) UP (74-80)

2

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKEAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORT ACCORDING TO APPLICABLE REGULATIONS FOR DOT AND EPA.

27. ADDITIONAL DATA

PROCEEDS FROM THE SALE OF RECYCLABLE WASTES AND MATERIALS TO BE CREDITED TO FUND CITE NUMBER:
17F3875.27RM/007/60050/000027/3C/000000/06005098004

OHM, 386-1, TANK

UST 386A

DI OD CE NT	RI FROM	M & S	UI NS IS T	QUANTITY	SER	SUPPLEMENTARY ADDRESS	SIG	FUND	DISTRIBUTION	PROJECT	PRI	RDD EEA QLT DE	ADV	RI	O/P	COND	MGT	UNIT PRICE DOLLARS	UNIT PRICE CTS	DOLLARS	CTS

EA 4

1. TOTAL PRICE

2. SHIP FROM: Environmental MCAS El Toro PO 95001 CA. Santa Ana 92709

3. SHIP TO: 925169 DRI MCAS El T PO 21 CA Irvine, 926

4. MARK FOR

5. DOC DATE	6. NMFC	7. FRT RATE	8. TYPE CARGO	9. PS
8008				

10. QTY. REC'D	11. UP	12. UNIT WEIGHT	13. UNIT CUBE	14. UFC	15. SL
		3870 lbs			

16. FREIGHT CLASSIFICATION NOMENCLATURE: Fuel Storage Tanks, Scrap Metal

17. ITEM NOMENCLATURE

18. TY CONT	19. NO CONT	20. TOTAL WEIGHT	21. TOTAL CUBE

22. RECEIVED BY: DRMO EL TORO

23. DATE RECEIVED: 1-13-98

24 DOCUMENT NUMBER & SUFFIX (30-44): M60050 - D116 - 8008

25 NATIONAL STOCK NO & ADD (8-22): 2910-00 - Fuel Tanks, Metal

26 RIC (1-6) UI (23-24) QTY (25-29) CON CODE (71) DIST (55-56) UP (74-80)

3

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKEAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORT ACCORDING TO APPLICABLE REGULATIONS FOR DOT AND EPA.

27 ADDITIONAL DATA

PROCEEDS FROM THE SALE OF RECYCLABLE WASTES AND MATERIALS TO BE CREDITED TO FUND CITE NUMBER:
17F3875.27RM/007/60050/000027/3C/000000/06005098004

OHM- 130A, 130B, ~~326~~ 326, 138 Tanks

Ohm 326B
UST 130A, 130B, 138

DI OD CE N T	RI FROM	M & S	UI NS I S T	QUANTITY	SUPPLE-MENTARY ADDRESS	SIG	FUND	DIS-TRI-BU-TION	PRO-JECT	PRI	RDD EEA QLT D E	ADV	RI	O/P	C O N D	M G T	UNIT PRICE DOLLARS	UNIT PRICE CTS	DOLLARS	CTS

1. TOTAL PRICE

Environmental
MCAS El Toro
PO 95001 CA.
Santa Ana 92709

SZ3169 DR
MCAS El T
PO 21 CA
Irvine, 926

4. MARK FOR

LBS 11,320

5. DOC DATE	6. NMFC	7. FRT RATE	8. TYPE CARGO	9. PS
2008				

10. QTY. REC'D	11. UP	12. UNIT WEIGHT	13. UNIT CUBE	14. UFC	15. S
		11,320 lbs.			

24 DOCUMENT NUMBER & SUFFIX (30-44)

M60050-D117-2008

16. FREIGHT CLASSIFICATION NOMENCLATURE

Iron & Steel Scrap Metal

17. ITEM NOMENCLATURE

25 NATIONAL STOCK NO & ADD (6-22)

9620-00-Scrap

18. TY CONT	19. NO. CONT	20. TOTAL WEIGHT	21. TOTAL CUBE

22. RECEIVED BY	23. DATE RECEIVED
	1-13-08

DRMO
EL TORO

3

26 RIC (4-6) UI (23-24) QTY (25-29) CON CODE (71) DIST (55-64) UP (74-80)

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKEAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORT ACCORDING TO APPLICABLE REGULATIONS FOR DOT AND EPA.

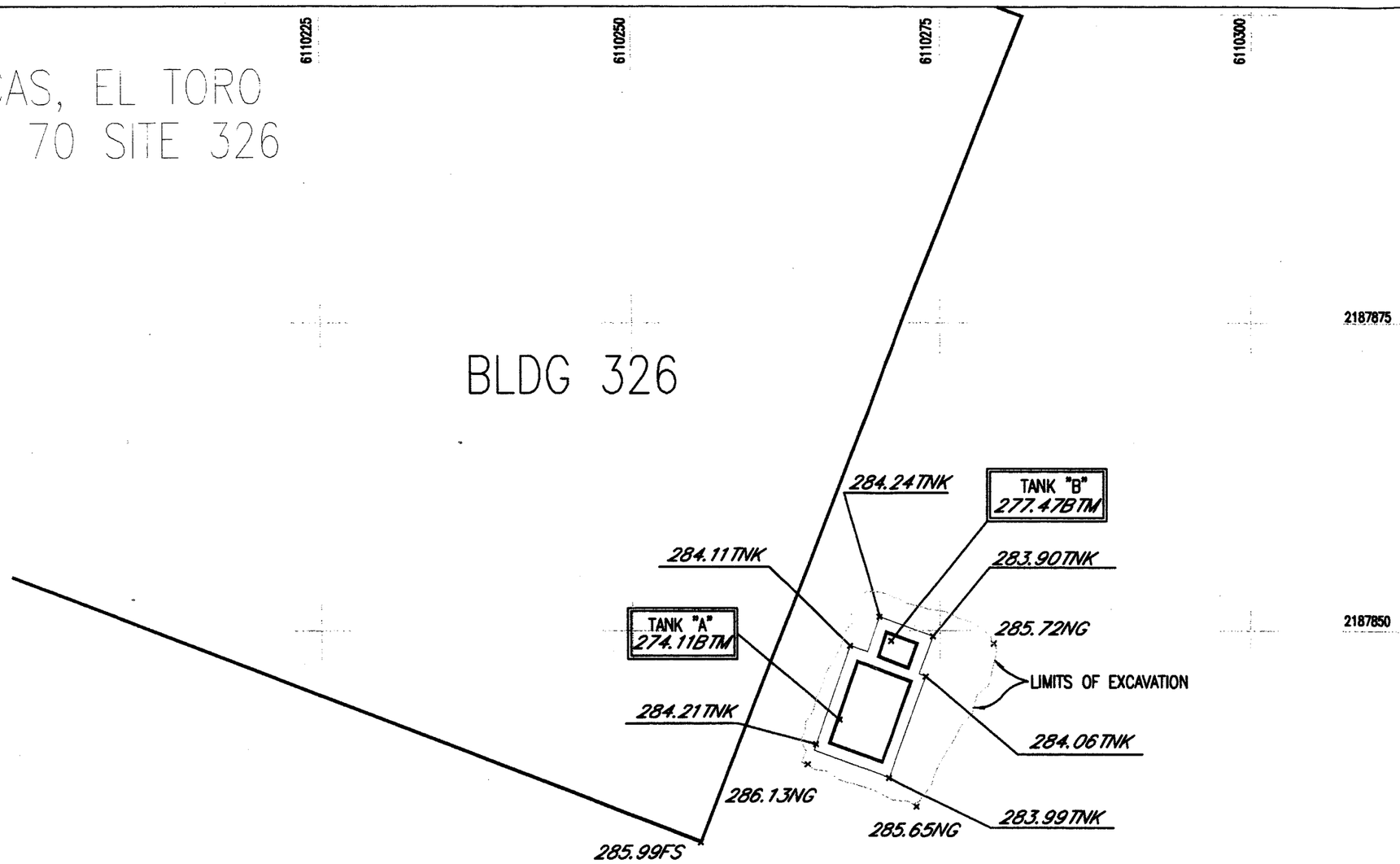
27 ADDITIONAL DATA

PROCEEDS FROM THE SALE OF RECYCLABLE WASTES AND MATERIALS TO BE CREDITED TO FUND CITE NUMBER:
17F3875.27RM/007/60050/000027/3C/000000/06005098004

~~OHM. 130A, 130B, 138, 386, 326.~~ Scrap Metal UST 205/207

Appendix I
Land Surveying Report

MCAS, EL TORO
D.O. 70 SITE 326



GRAPHIC SCALE

10 0 5 10 20

(IN FEET)

1 INCH = 10 FT

DATE OF SURVEY: 10-22-97

LEGEND

BTM	BOTTOM OF TANK
NG	NATURAL GROUND
TNK	TOP OF CONCRETE TANK
FS	FINISH SURFACE

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

JOB NO. 97102-38

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

Appendix J
Final Site Inspection Record

Interim/Final Site Inspection Record

For use when conducting visual interim or final acceptance inspections of restored grounds after removal of an underground storage tank, hazardous waste storage pad, etc.

ROICC El Toro

Date: 29 Oct 97

Contract: 93-D-1459 Environmental RAC
Delivery Order Number: 70 **Site:** UST 326A/B/

Attendance:

Name	*Title*
Scott Kehe	ROICC INTR
Owen Clark	OHM Supt.
Jane Chaney	ROICC El Toro Engin Tech
Rob Aguilar	AK INSTALL Eng Tech

Description of Work Inspected

RESTORATION OF GROUNDS AFTER REMOVAL OF UST (OWS) 326B. CONCRETE VAULT WHICH CONTAINED 326B AND CONCRETE SUMP, 326A, LEFT IN PLACE. CONCRETE TOPS DEMOLISHED. SITE WAS BACKFILLED WITH 3" ROCK AND TOPPED WITH BASE MATERIAL. RESTORATION COMPLETED ON 24 OCT 97. ORIGINAL SITE HAD ASPHALT (UNNECESSARY PER STATION)

Punchlist Items Noted/Comments	*Date Item Corrected*
1. NONE	
2.	
3	
4.	
5.	
6.	
7.	
8.	
9.	
10.	

Site Acceptance Date: 29 Oct 97
Site work completed to satisfaction of ROICC/NTR/Station
ROICC/NTR Representative: Scott Kehe
Station Representative: J. Aguilar
SWDIV RPM (if applicable):

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

OHM TRANSMITTAL/DELIVERABLE RECEIPT

CONTRACT N68711-93-D-1459 **DOCUMENT CONTROL NO: SW4631**

TO: Contracting Officer
Naval Facilities Engineering Command
Southwest Division
Mr. Dave Jespersen, Code 57CS1.DJ
Building 131
1220 Pacific Highway
San Diego, California 92132-5101

Date: 20-Mar-98

D.O.: 70

Location: MCAS EL TORO

FROM: for Stewart Bornhoft, Program Manager

Edwin G. Bond, Contracts Manage

DESCRIPTION OF ENCLOSURE: *Tank Removal Site Closure Report, UST 326A & 326B, Dated March 18, 1998.*

TYPE: Contract Deliverable ( ) ($) D. O. Deliverable (X) (Tech) Request for Change ( ) Other ( )

VERSION: FINAL **REVISION:** 0

ADMIN RECORD: Yes ( ) No (X) Category ( ) Confidential ( )

SCHEDULED DELIVERY DATE: 20-Mar-98 **ACTUAL DELIVERY DATE:** 20-Mar-98

NUMBER OF COPIES SUBMITTED TO THE NAVY: 1/O, 4/C, 3/E
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M. Pound, 5722.MP (1C/1E)	W. Sedlak, Irv (1C/1E)	W. Lee, El Toro (1E)
D. Broussard, 56MC.TB (1C)	D. Rawal, Irv (1C/1E)	

Date/Time Received: _____ / _____

Doc Class: D-03

OHM Remediation Services Corp.

PMO LETTER OF TRANSMITTAL

To: Kelly Even
San Diego PMO Office

Date: ~~December 3, 1997~~ 3/19/98

Submitted by: Dhananjay Rawal

Office Location: x Irvine ☐ San Diego ☐ Pleasanton ☐ Other

Phone/Extension Number: 303

REGARDING: DO No.: 70 Project No.: 18609 CERCLA ☐ (verify with PM if Admin copies are required) No
WBS Code No. for Kelly's time: 2100836 Document Control No.: SW 4631.

DOCUMENT DESCRIPTION: Tank Removal & Site closure Report UST 326 A/B

☐ Preliminary Draft ☐ Draft x Final ☐ Other:

Contractual Delivery Date: (SOW or verbally dictated, *please do not leave blank*)
3/22/98.

ease make sure to include all agencies that will be receiving a copy of document.

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~~Ed Dies~~, 5722.ED	SWDIV	1C/1E	B	
D. Broussard, 56MC.TB	SWDIV	1C		
*Scott Kehe, ROICC, EL Toro	EL Toro	1C/1E	B	
*Ike Burr	El Toro	1C/2E	B	
*Wayne Lee	El Toro	1C/2E	B	
*Bill Sedlak	OHM	1C/1E	B	
*Dhananjay Rawal	OHM	1C/1E	B	

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tweety/standards /doc control transmittal form
Michael Pound