

March 27, 1998

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

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

**Re: *Tank Closure Report
Underground Storage Tanks (USTs) 658A and 658B at
Marine Corps Air Station El Toro, California
SWDIV Contract No. N68711-93-D-1459
DCN SW 4926, Delivery Order No. 112***

This Tank Closure Report summarizes the field activities conducted and associated with the closure of two underground storage tanks (USTs) designated as USTs 658A and 658B 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.

Building 658, Engine Test Cell is located in the northeast quadrant of the Station, west of Agua Chinon Wash. USTs 658A and 658B were located approximately 12 feet southeast of Building 658. According to the Station's Base Realignment and Closure Cleanup Plan - 1997, USTs 658A and 658B were identified each as 10,000 gallon steel USTs, installed in 1972 for storage of JP-5 fuel. The UST locations are shown on Figure 1-2, Location Map.

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 pertaining to USTs 658A and 658B are described in the Tank Closure Summary Sheet provided as Appendix A.

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. 97-323) for the removal of USTs 658A and 658B. The OCHCA Facility Modification Application and Approval form is provided as Appendix B.

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

UST Gauging and Removal

Both USTs 658A and 658B were gauged on January 20, 1998. Approximately 450 gallons of liquid product mixed with water was recovered in each of the USTs. The liquid product was pumped out from both of the USTs on January 21, 1998 and transferred to the separate storage tank (which stores liquid products from the various USTs) at the Station's Central Treatment Facility (CTF) compound (operated and maintained by OHM under another DO).

Excavation procedures commenced on January 21, 1998 by exposing the tops of the steel USTs. During exposure of the USTs, there were no noticeable stains or odors from the excavation. After exposing the tops of the USTs, approximately 40 feet of piping associated with the USTs 658A and 658B was exposed and removed. Both USTs were removed on January 21, 1998. Both USTs were in good condition with no noticeable holes or openings.

Piping associated with the USTs was removed in the vicinity of the tank excavations. The ends of the piping were capped, sealed and grouted with cement, in concurrence with the OCHCA field inspector.

Confirmation Soil Sampling, Analysis, and Results

On January 26, 1998, two confirmation soil samples were collected from the excavation bottom of UST 658A (sample identification numbers 20242-658A-088 and 20242-658A-091) and two confirmation samples were collected from the excavation bottom of UST 658B (sample identification numbers 20242-658B-092 and 20242-658B-093). Samples were collected in the presence of the OCHCA field inspector. The confirmation soil sampling locations are shown in Appendix D, Land Surveying Report and Soil Sample Locations.

The analytical results of the soil samples collected from the UST excavations are presented in Table 1, Confirmation Soil Sample Analytical Results - USTs 658A and 658B. Confirmation soil samples from UST 658A revealed total petroleum hydrocarbons (TPH) as diesel at a concentration of 12 mg/kg. Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) were not detected in the soil samples from UST 658A. TPH and BTEX were not detected in the confirmation soil samples from UST 658B.

Based on review of the analytical results of the soil samples and the observed non-impacted condition of the excavation soil, no further excavation was conducted. Laboratory analytical reports provided by VOC Analytical Laboratories, Inc. are included in Appendix E. Photographs of the field activities are provided in Appendix F, Site Photographs.

Waste Management

On January 21, 1998, approximately 900 gallons of product mixed with water was pumped from the two USTs. The product from USTs 658A and 658B is being stored in separate storage tank at the Station's CTF compound for transport to the Station's Defense Reutilization and Marketing Office (DRMO) compound for recycling.

Approximately 400 gallons of decontamination rinsate water generated from USTs cleaning activities was treated through the Station's carbon adsorption treatment system (operated and maintained by OHM under another phase of this contract), and the treated effluent water was transferred to the Station's Golf Course Holding Tank for re-use.

Approximately 500 cubic yards of soil was removed from the USTs 658A and 658B excavation. The excavated soil was staged on-site and covered with plastic liner for subsequent sampling and backfilling.

A Marine Chemist certified both USTs "clean" on January 22, 1998 prior to transportation to the Station's DRMO yard for recycling. On January 26, 1998 both the USTs and associated piping were transported to the Station's DRMO yard for recycling. Copies of the Marine Chemist Certification and the DRMO receipt are included as Appendix G.

Land Surveying

After completing the field activities at the UST 658 site, the excavation limits and sampling locations were surveyed by a California-registered land surveyor from Calvada Surveying, Inc. The land surveying data for USTs 658A and 658B are presented in Appendix D.

Site Restoration

Following the direction of the OCHCA field inspector and with the concurrence of the Station's ROICC, excavation backfilling commenced on January 26, 1998. The excavated stockpiled soil was used for backfilling the excavations. Prior to backfilling, two samples were collected from the excavated, stockpiled soil (sample identification numbers 20242-658SP-089 and 20242-658SP-090). TPH and BTEX were not detected in the soil samples from the excavated, stockpiled soil. The analytical results of the soil samples collected from the stockpiles are presented in Table 1, Confirmation Soil Sample Analytical Results - USTs 658A and 658B. Laboratory analytical reports provided by VOC Analytical Laboratories, Inc. are included in Appendix E.

An additional 200 cubic yards of clean stockpile soil near Station's Quarry Road was used to backfill the excavations to original grade level.

Backfill soil was spread in loose, shallow lifts then wheel-rolled with a rubber-tire loader for compaction. R.T. Frankian and Associates performed compaction tests. The compaction tests revealed greater than 90 percent relative compaction at the UST 658A

and 658B excavations. A copy of the compaction results is provided in Appendix H, Compaction Test Field Reports.

Conclusion and Recommendation

Based on the information presented in this report and a review of the analytical results, the following conclusions are reached:

- USTs 658A and 658B were removed and recycled.
- There was no evidence of spillage or areas of heavy stains observed in the excavations.
- The analytical results of the confirmation soil samples collected from the excavation indicate that the maximum concentration of TPH is 12 mg/kg; BTEX compounds were not detected in the confirmation soil samples.
- There was no groundwater encountered in the excavation.

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 USTs 658A and 658B.

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 Tank Closure Summary Sheet
- Appendix B OCHCA Facility Modification Application
- Appendix C Geophysical Survey Data
- Appendix D Land Survey Data
- Appendix E Laboratory Analytical Reports
- Appendix F Site Photographs
- Appendix G Marine Chemist Certification and DRMO Receipt
- Appendix H Compaction Test Field Reports



OHM Remediation Services Corp.

A Subsidiary of OHM Corporation

OHM TRANSMITTAL/DELIVERABLE RECEIPT

CONTRACT N68711-93-D-1459

DOCUMENT CONTROL NO: SW4926

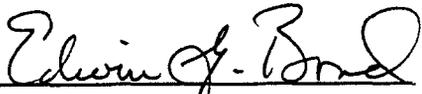
TO: Contracting Officer
Naval Facilities Engineering Command
Southwest Division
Mr. Dave Jespersen, Code 57CS1.DJ
Building 131
1220 Pacific Highway
San Diego, California 92132-5101

Date: 01-Apr-98

D.O.: 112

Location: MCAS EL TORO

FROM: _____
Stewart Bornhoft, Program Manager


Edwin G. Bond, Contracts Manager

DESCRIPTION Tank Closure Report, Underground Storage Tanks (USTs) 658A and 658B,
OF Dated March 27, 1998.
ENCLOSURE:

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

VERSION: FINAL

REVISION 0

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

SCHEDULED DELIVERY DATE: 16-Mar-98 **ACTUAL DELIVERY DATE:** 01-Apr-98

NUMBER OF COPIES SUBMITTED TO THE NAVY: 1/O, 4C, 3/E

[AS REQUIRED/DIRECTED BY THE (SOW)]

COPIES TO:

SWDIV

OHM

OTHER

Name, Code

Name, Location

Name, Company, Location

J. Rogers, 57CS3.JR (1C/1E)

File (1C/1E)

S. Kehe, ROICC (1E)

L. Hornecker, 56MC.LH (1C/1E)

Chron (1C)

I. Burr, El Toro (1E)

M. Pound, 5722.MP (1C/1E)

J. Neuhaus (1C/1E)

W. Lee, El Toro (1E)

D. Broussard, 56MC.TB (1C)

W. Sedlak, Irv (1C/1E)

D. Rawal, Irv (1C/1E)

Date/Time Received: _____ / _____

Table 1
Confirmation Soil Sample Analytical Results - USTs 658A and 658B

OHM Sample Number		20242-658A-088	20242-658A-091	20242-658B-092	20242-658B-093	20242-658SP-089
Sample Location		UST-658A SW	UST-658A SE	UST-658B NW	UST-658B NE	UST-658 STKPL N
Date Collected		01/26/98	01/26/98	01/26/98	01/26/98	01/26/98
Sample Depth (feet below ground surface)		14.5	14.5	14.5	14.5	
	Unit					
CA LUFT 8015M						
TPH as Diesel	mg/kg	12	10 U	10 U	11 U	11 U
TPH as JP-5	mg/kg	11 U	10 U	10 U	11 U	11 U
EPA 418.1						
Total Recoverable Petroleum Hydrocarbon	mg/kg	56 U	51 U	52 U	51 U	55 U
EPA 8020						
Benzene	µg/kg	5.6 U	5.1 U	5.2 U	5.1 U	5.5 U
Ethylbenzene	µg/kg	5.6 U	5.1 U	5.2 U	5.1 U	5.5 U
Toluene	µg/kg	5.6 U	5.1 U	5.2 U	5.1 U	5.5 U
Xylenes (total)	µg/kg	22 U	20 U	21 U	21 U	22 U
ASTM D 2216						
Percent Moisture	Percent	11	2.4	4.7	2.5	9.7

Table 1
Confirmation Soil Sample Analytical Results - USTs 658A and 658B

OHM Sample Number		20242-658SP-090
Sample Location		UST-658 STKPL S
Date Collected		01/26/98
Sample Depth (feet below ground surface)		
		Unit
CA LUFT 8015M		
TPH as Diesel	mg/kg	11 U
TPH as JP-5	mg/kg	11 U
EPA 418.1		
Total Recoverable Petroleum Hydrocarbon	mg/kg	56 U
EPA 8020		
Benzene	µg/kg	5.6 U
Ethylbenzene	µg/kg	5.6 U
Toluene	µg/kg	5.6 U
Xylenes (total)	µg/kg	22 U
ASTM D 2216		
Percent Moisture	Percent	11

Table 1
Confirmation Soil Sample Analytical Results - USTs 658A and 658B

Explanation:

ASTM - American Society for Testing Materials

CA LUFT - California Leaking Underground Fuel Tank

EPA - United States Environmental Protection Agency

M - modified

mg/kg - milligrams per kilogram

N - north

NA - not analyzed

NE - northeast

NW - northwest

OHM - OHM Remediation Services Corp.

S - south

SB - soil boring

SE - southeast

STKPL - stockpile

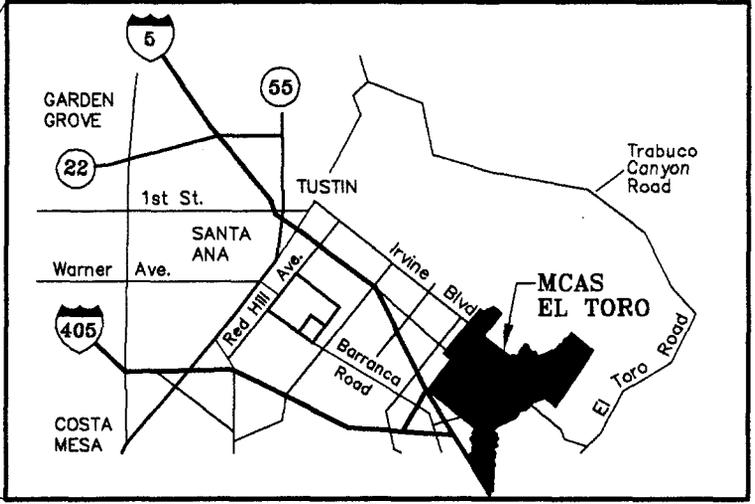
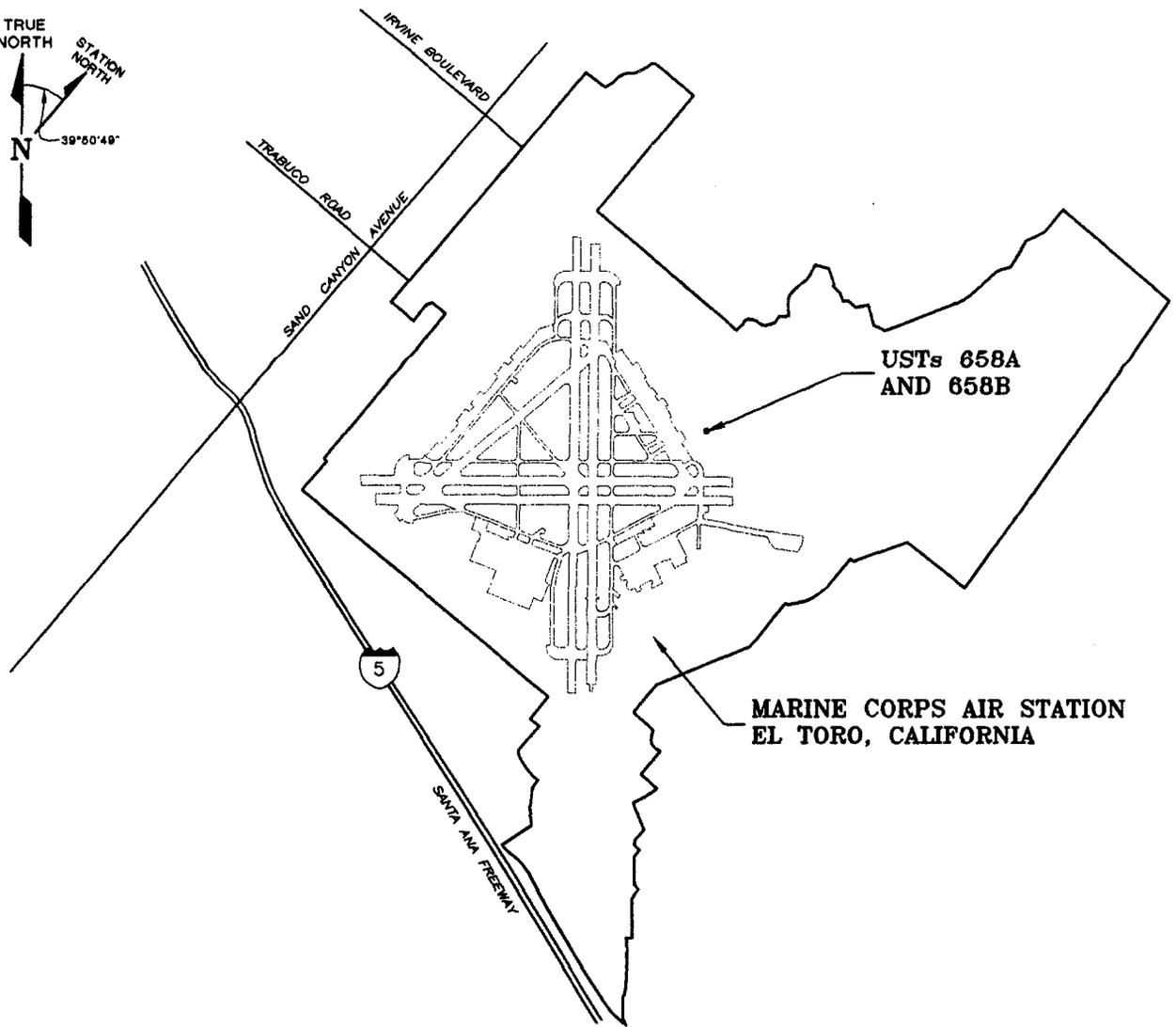
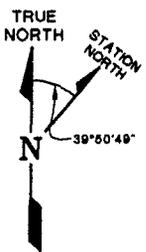
SW - southwest

TPH - total petroleum hydrocarbons

U - not detected above or equal to the stated reporting limit

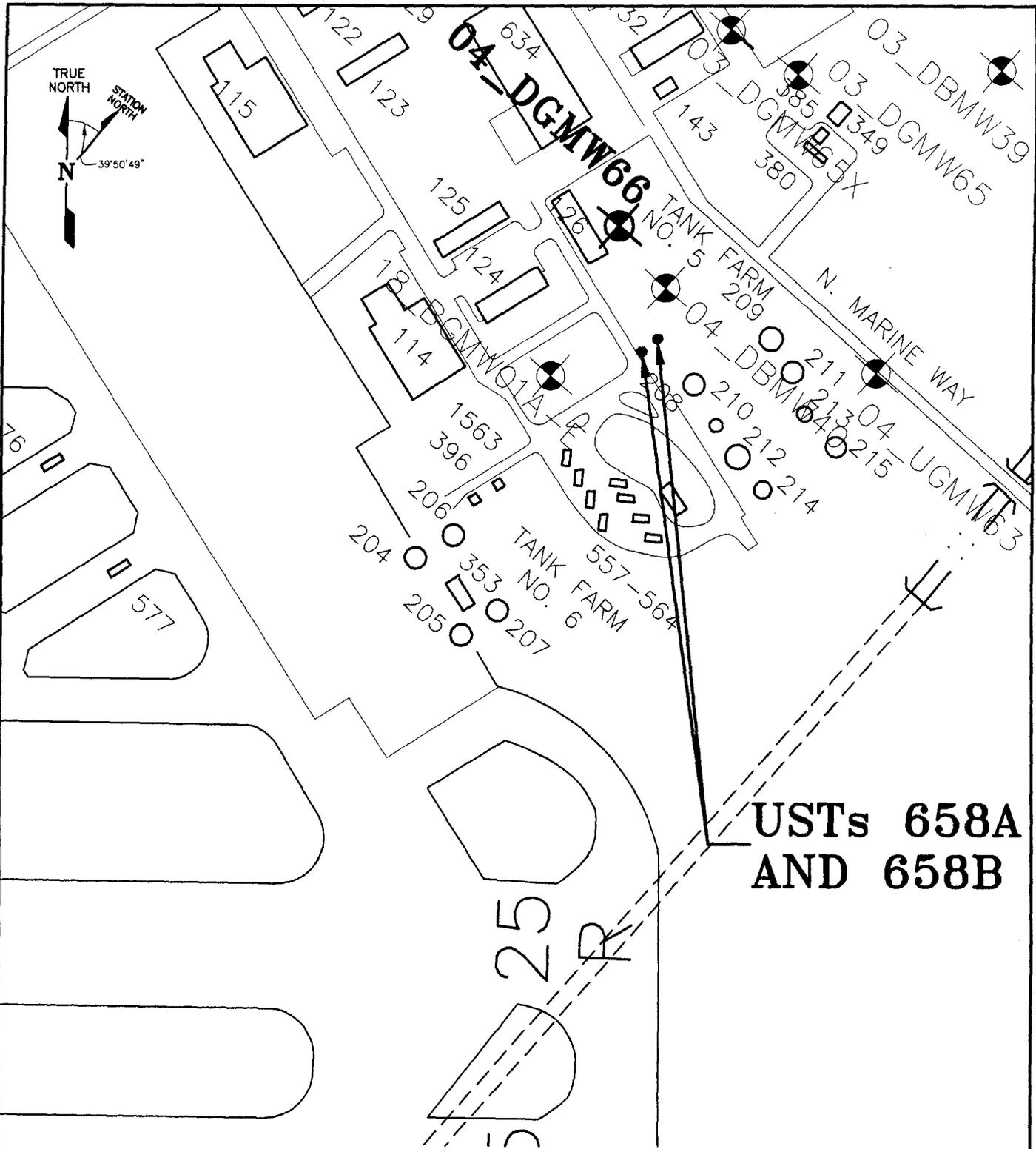
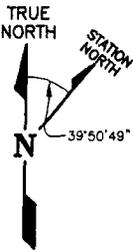
UST - underground storage tank

µg/kg - micrograms per kilogram



Mar. 12, 1998 - 15:48:22 G:\PROJECTS\20242\20242003.dwg

<p>OHM Remediation Services Corp. A Subsidiary of OHM Corporation SAN DIEGO, CA</p>		DRAWN BY R. PIRMORADIAN	DATE 03/12/98	<p>FACILITY LOCATION MAP USTs 658A AND 658B</p> <p>MARINE CORPS AIR STATION EL TORO, CALIFORNIA</p>			
CONTRACT NAME SWDIV		CHECKED BY DR	DATE 3/27/98				
AUTOCAD FILE No. 20242003.DWG		PROJECT MANAGER DR	DATE 3/27/98				
PLOT SCALE 1=1	SHEET 1	OF 1	SCALE NONE	DOCUMENT CONTROL No. SW4926	OHM PROJECT No. 20242	FIGURE No. FIG 1-1	REVISION 0



**USTs 658A
AND 658B**

EXPLANATION:



GROUNDWATER MONITORING WELL

GRAPHIC SCALE



(IN FEET)

<p>OHM Remediation Services Corp. A Subsidiary of OHM Corporation SAN DIEGO, CA</p>	DRAWN BY R. PIRMORADIAN		DATE 03/12/98		<p>LOCATION MAP USTs 658A AND 658B</p> <p>MARINE CORPS AIR STATION EL TORO, CALIFORNIA</p>			
	CHECKED BY		DATE					
CONTRACT NAME SWDIV		APPROVED BY DR		DATE 3/27/98		PROJECT MANAGER DATE		
AUTOCAD FILE No.	PLOT SCALE	SHEET	OF	SCALE	DOCUMENT CONTROL No.	OHM PROJECT No.	FIGURE No.	REVISION
20242004.DWG	1=1	1	1	AS NOTED	SW4926	20242	FIG 1-2	0

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Appendix A
Tank Closure Summary Sheet

TANK CLOSURE SUMMARY SHEET

Underground Storage Tank ID: UST 658A and UST 658B

Location: Marine Corps Air Station
El Toro, California

Site: Northeast Quadrant, Building 658
West of Agua Chinon Wash

UST Size and Construction: 658A: 10,000-gallon, steel
658B: 10,000-gallon, steel

Original Tank Usage: 658A: JP-5
658B: JP-5

UST Contents Disposed: 658A: 450 gallons of fuel and water
658B: 450 gallons of fuel and water

UST Exposure Date: 658A: January 21, 1998
658B: January 21, 1998

OCHCA UST Removal Permit No.: 97-323

Confirmation Soil Samples Collected: 658A: 20242-658A-088 & 20242-658A-091
658B: 20242-658B-092 & 20242-658B-093

OCHCA Field Inspector Present: Yes

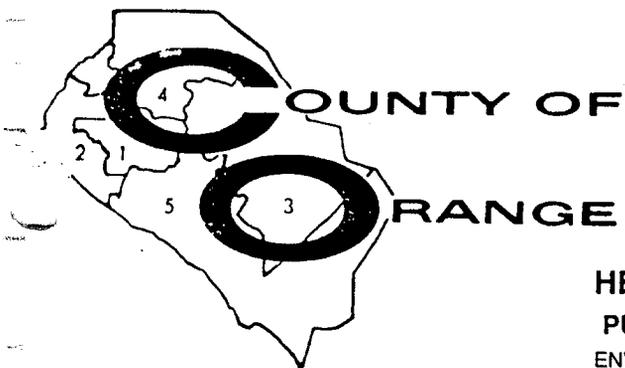
Sample Analysis Methods: BTEX (EPA Method 8020)
TPH-Extractable (CA LUFT 8015M)
TRPH (EPA Method 418.1)

Excavation Backfill: Excavated stockpile soil
200 cy of clean stockpile soil from Station's
Quarry Road.

Depth to Groundwater: 210 feet

Reference: 04_DBMW40

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



TOM URAM
DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

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

CREDIT.
DO 112, (1)

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

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

DATE: 11/21/97

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 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) (4)
- SYSTEM MODIFICATION (E.G. REPIPE, REPAIR TO PIPING)
- OTHER (SPECIFY) _____

TYPE OF BUSINESS:

- GASOLINE STATION
- GOVERNMENT
- FARM
- OTHER

24 HOUR EMERGENCY CONTACT PERSON

DAYS: SCOTT KEHE 714-726-2506
 NAME TELEPHONE
OHM - 1-800-537-9540
 NIGHTS: ELTORO - 714-726-9911/2172
 NAME TELEPHONE

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

MCAS ELTORO, ENV. BLDG
 STREET ADDRESS: Building T-2009
 CITY: Santa Ana
 STATE: CA ZIP 92709
 TELEPHONE NO.: 714-726-3309

APPLICANT

NAME: Dhananjay Rawal
 PLEASE PRINT
 SIGNATURE: [Signature]

BILLING ADDRESS INFORMATION

BILL TO NAME: OHM Remediation Services of CA
 BILL TO ADDRESS: 2031 Main St.
 CITY: IRVINE
 STATE: CA ZIP 92714
 TELEPHONE NO.: 714-263-1146

COMPANY NAME: OHM Remediation Services
 TELEPHONE NO.: 714-263-1146 x303

FACILITY OPERATOR (CONTACT PERSON)

NAME: Lt Hope Katcharian, MCAS ENV. DEPT
 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

CHECK NO.: 97-323 FEES PAID: 0 (credit) RCVD. BY: _____
 PLAN APPROVAL DATE: 11/21/97 BY: OR
 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.

TF6. TF6.

TANK I.D.		205 #1	207 #2	658 #3 A	658 #4 B	
MATERIAL STORED	CURRENTLY	JP-5	Unknown	JP5	JP5	
	PROPOSED	NONE	None	None	None	
	PREVIOUSLY	JP-5	Unknown	JP-5	JP-5	
FUEL TYPE, I.E., UNLEADED		NONE	Unleaded	Unleaded	Unleaded	
C O N T A I N E R	TYPE (TANK, SUMP, OTHERS)		UST	UST	UST	UST
	DOUBLE WALL/SINGLE WALL		SINGLE	Single	Single	Single
	UL NUMBER		N/A	N/A	N/A	N/A
	YEAR INSTALLED		1943	1943	1972	1972
	VAULTED/NOT VAULTED		Not Vaulted	N/A	N/A	N/A
	PRIMARY	MANUFACTURER	Unknown	Unknown	Unknown	Unknown
		CAPACITY (GALLONS)	25,000	50,000	10,000	10,000
		CONSTRUCTION MATERIAL	Concrete	Concrete	Steel	Steel
		THICKNESS (UNITS)	N/A	N/A	N/A	N/A
		INTERIOR LINING	N/A	N/A	N/A	N/A
	SECONDARY	MANUFACTURER				
		CAPACITY (GALLONS)	None	None	None	None
		CONSTRUCTION MATERIAL				
THICKNESS (UNITS)						
CORROSION PROTECTION		None	None	None	None	
TYPE OF LEAK DETECTION FOR USTs (LIQUID, PROBE, ETC.)		Unknown	Unknown	Unknown	Unknown	
MANUFACTURER OF LEAK DETECTOR		N/A	N/A	N/A	N/A	
P I P I N G	LOCATION (UNDER/ABOVE GROUND)		Underground	Underground	Underground	Underground
	SUCTION/PRESSURE GRAVITY/UNKNOWN		Unknown	Unknown	N/A	N/A
	PRIMARY	CONSTRUCTION MATERIAL				
		MANUFACTURER				
	SECONDARY	CONSTRUCTION MATERIAL	N/A	N/A	N/A	N/A
		MANUFACTURER				
	TYPE OF LEAK DETECTION FOR PIPING (PRESSURE LOSS DEVICE, ETC.)					
	MANUFACTURER OF LEAK DETECTOR					
OVERFILL PROTECTION (TYPE)		Unknown	Unknown	N/A	N/A	
SPILL CONTAINMENT (TYPE)		Unknown	Unknown	N/A	N/A	

Appendix C
Geophysical Survey Data

Appendix D
Land Surveying Report and Soil Sample
Location

MCAS, EL TORO SITE 658/D.O. 70



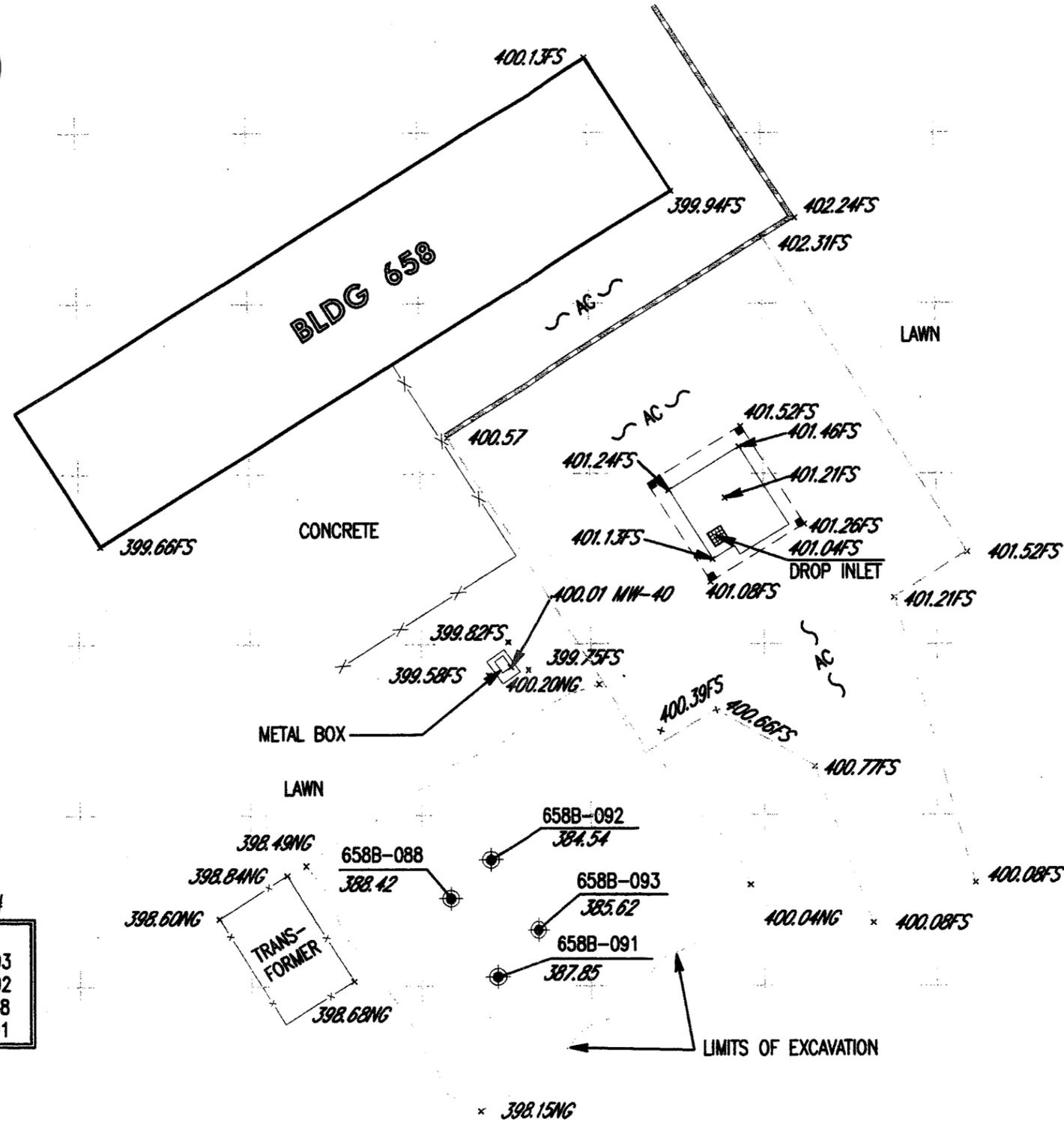
Graphic Scale



1 inch = 20 ft.

SAMPLE COORDINATE LISTING

NORTHING	EASTING	ELEV.	SAMPLE #
2192621.6589	6115012.9968	400.01	MW-40
2192583.0374	6115017.0426	385.62	658B-093
2192593.4206	6115010.0251	384.54	658B-092
2192587.7420	6115004.2083	388.42	658A-088
2192576.3058	6115010.9600	387.85	658A-091



LEGEND

- SAMPLE LOCATION
- BUILDING LINE
- EDGE OF PAVEMENT
- BLOCK WALL
- CHAINLINK FENCE
- FS FINISH SURFACE

CAL VADA
SURVEYING, INC.

108 BUSINESS CENTER DR. CORONA, CA 91720
1 800 CALVADA PHONE: (909) 280-9960 FAX: (909) 280-9746
WEB SITE <http://www.calvada.com>

JOB NO. 97102-77A

PREPARED FOR:
OHM REMEDIATION SERVICES, CORP.
2031 MAIN ST., IRVINE, CA 92714
(714) 263-1146

Appendix E
Laboratory Analytical Reports

CHAIN OF CUSTODY
 Orange County Health Care Agency
 Environmental Health Division
 2009 E. Edinger Ave., Santa Ana, CA 92705
 Telephone: (714) 667-3700

- ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.
- PLEASE WRITE LEGIBLY.
- ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.

4. TO BE COMPLETED BY LABORATORY ANALYST

LAB NO.: _____

DATE RECEIVED: _____

SAMPLE(S) CONDITION (PLEASE CHECK):

CHILLED: _____ COUNTY SEAL(S) INTACT: _____

CONTAINER IN GOOD CONDITION: _____

DATE ANALYSIS COMPLETED: _____

ANALYST: _____

5. TO BE COMPLETED BY SAMPLE COLLECTOR

SITE NAME/ADDRESS: IVAS El Toro
Bldg 658, Tanks #658A4 B, Santa Ana

DATE OF COLLECTION: 1-26-98

SAMPLE COLLECTOR/COMPANY: M. Bannister
OHM Production

TELEPHONE NO.: _____

HCA REPRESENTATIVE: A. Prohaska-Guid

6.

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS	TIME OF COLLECTION
<u>0212-658A-088</u>	<u>TRPH (418.1), TPH</u>	<u>collected (SOS), BTCL (S020)</u>	<u>4:25 am</u>
<u>0212-658B-088</u>			<u>9:34</u>
<u>0212-658C-088</u>			<u>9:38</u>
<u>0212-658A-091</u>			<u>9:45</u>
<u>0212-658B-092</u>			<u>10:19</u>
<u>0212-658B-093</u>			<u>10:28</u>

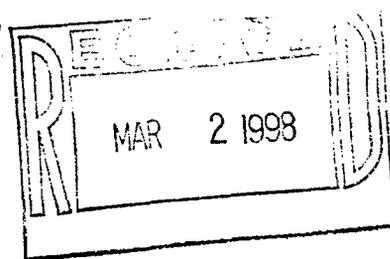
7.

CHAIN OF CUSTODY		
<u>1. [Signature]</u>	<u>OHM / SR. TECH.</u>	<u>1-26-98 - 10:30 AM</u>
SIGNATURE	COMPANY/AGENCY	INCLUSIVE DATES/TIMES
<u>2. [Signature]</u>	<u>OHM / SR. TECH.</u>	<u>1-26-98 - 10:30 AM</u>
SIGNATURE	COMPANY/AGENCY	INCLUSIVE DATES/TIMES
<u>3. [Signature]</u>	<u>VCC</u>	<u>1/26/98 - 1:35 PM</u>
SIGNATURE	COMPANY/AGENCY	INCLUSIVE DATES/TIMES
<u>4. _____</u>	COMPANY/AGENCY	INCLUSIVE DATES/TIMES
<u>5. _____</u>	COMPANY/AGENCY	INCLUSIVE DATES/TIMES
<u>6. _____</u>	COMPANY/AGENCY	INCLUSIVE DATES/TIMES

WHITE-RETURN THIS COPY TO ENVIRONMENTAL HEALTH, CANARY-LABORATORY COPY
 PINK-CONTRACTOR/CONSULTANT COPY, GOLDENROD-OFFICE COPY

ANALYTICAL REPORT

ORIGINAL



SAMPLE NO: 9801381*1

Received: 01.26.98

Mailed:

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

P.O.#: 1041546
Req#: D0#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 1

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPL

9801381*1 20242-658A-088 01.26.

PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
-----------	--------	--------	----------	-----	-------	--------	-----

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

Petroleum Hydrocarbons	418.1	02.08.98	02.08.98	1	mg/kg	56	U
-Moisture/TNFR	D2216		02.04.98	1	Percent	11	

SAMPLE NO: 9801381*1

Received: 01.26.98

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

P.O.#: 1041546
Req#: DO#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 2

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPLED

9801381*1 20242-658A-088 01.26.98

PARAMETER METHOD PREPED ANALYZED DIL UNITS RESULT FLG

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

JP-5

TPH (Diesel Range)	8015M	01.27.98	01.27.98	1	mg/kg	12	
JP-5	8015M	01.27.98	01.27.98	1	mg/kg	11	U
Surrogates **							
Naphthalene Reported	8015M	01.27.98	01.27.98	1	Percent	86	
o-Terphenyl Reported	8015M	01.27.98	01.27.98	1	Percent	98	

SAMPLE NO: 9801381*1

Received: 01.26.98

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

P.O.#: 1041546
Req#: D0#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 3

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPLED

9801381*1 20242-658A-088 01.26.98

PARAMETER METHOD PREP ANALYZED DIL UNITS RESULT FLG

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

BTEX

Benzene	8020A		01.30.98	1	ug/kg	5.6	U
Toluene	8020A		01.30.98	1	ug/kg	5.6	U
Ethylbenzene	8020A		01.30.98	1	ug/kg	5.6	U
Total Xylene Isomers	8020A		01.30.98	1	ug/kg	22	U
Surrogates **							
a,a,a-Trifluorotoluene Rep.	8020A		01.30.98	1	Percent	96	

ANALYTICAL REPORT

SAMPLE NO: 9801381*2

Received: 01.26.98

Mailed:

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

P.O.#: 1041546
Req#: D0#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 1

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPL

9801381*2 20242-658SP-089 01.26.

PARAMETER METHOD PREPED ANALYZED DIL UNITS RESULT FLG

(Following results reported on the basis of 9.7% moisture)

Petroleum Hydrocarbons 418.1 02.08.98 02.08.98 1 mg/kg 55 U
-Moisture/TNFR D2216 02.04.98 1 Percent 9.7

SAMPLE NO: 9801381*2

Received: 01.26.98

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

P.O.#: 1041546
Req#: DO#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 2

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPLED

9801381*2 20242-658SP-089 01.26.98

PARAMETER METHOD PREPED ANALYZED DIL UNITS RESULT FLG

(Following results reported on the basis of 9.7% moisture)

JP-5

TPH (Diesel Range)	8015M	01.27.98	01.27.98	1	mg/kg	11	U
JP-5	8015M	01.27.98	01.27.98	1	mg/kg	11	U
Surrogates **							
Naphthalene Reported	8015M	01.27.98	01.27.98	1	Percent	80	
o-Terphenyl Reported	8015M	01.27.98	01.27.98	1	Percent	86	

SAMPLE NO: 9801381*2

Received: 01.26.98

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

P.O.#: 1041546
Req#: DO#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 3

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPLED

9801381*2 20242-658SP-089 01.26.98

PARAMETER METHOD PREPED ANALYZED DIL UNITS RESULT FLG

(Following results reported on the basis of 9.7% moisture)

BTEX

Benzene	8020A		01.30.98	1	ug/kg	5.5	U
Toluene	8020A		01.30.98	1	ug/kg	5.5	U
Ethylbenzene	8020A		01.30.98	1	ug/kg	5.5	U
Total Xylene Isomers	8020A		01.30.98	1	ug/kg	22	U
Surrogates **							
a,a,a-Trifluorotoluene Rep.	8020A		01.30.98	1	Percent	88	

ANALYTICAL REPORT

SAMPLE NO: 9801381*3

Received: 01.26.98

Mailed:

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

P.O.#: 1041546
Req#: DO#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 1

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPL

9801381*3 20242-658SP-090 01.26

PARAMETER METHOD PREPED ANALYZED DIL UNITS RESULT FLG

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

Petroleum Hydrocarbons 418.1 02.08.98 02.08.98 1 mg/kg 56 U
-Moisture/TNFR D2216 02.04.98 1 Percent 11

SAMPLE NO: 9801381*3

Received: 01.26.98

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

P.O.#: 1041546
Req#: D0#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 2

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPLED

9801381*3 20242-658SP-090 01.26.98

PARAMETER METHOD PREPED ANALYZED DIL UNITS RESULT FLG

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

JP-5

TPH (Diesel Range)	8015M	01.27.98	01.27.98	1	mg/kg	11	U
JP-5	8015M	01.27.98	01.27.98	1	mg/kg	11	U
Surrogates **							
Naphthalene Reported	8015M	01.27.98	01.27.98	1	Percent	91	
o-Terphenyl Reported	8015M	01.27.98	01.27.98	1	Percent	96	

SAMPLE NO: 9801381*3

Received: 01.26.98

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

P.O.#: 1041546
Req#: DO#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 3

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPLED

9801381*3 20242-658SP-090 01.26.98

PARAMETER METHOD PREPED ANALYZED DIL UNITS RESULT FLG

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

BTEX

Benzene	8020A		01.30.98	1	ug/kg	5.6	U
Toluene	8020A		01.30.98	1	ug/kg	5.6	U
Ethylbenzene	8020A		01.30.98	1	ug/kg	5.6	U
Total Xylene Isomers	8020A		01.30.98	1	ug/kg	22	U
Surrogates **							
a,a,a-Trifluorotoluene Rep.	8020A		01.30.98	1	Percent	90	

ANALYTICAL REPORT

SAMPLE NO: 9801381*4

Received: 01.26.98

Mailed:

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

P.O.#: 1041546
Req#: D0#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 1

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPL

9801381*4 20242-658A-091 01.26.

PARAMETER METHOD PREPED ANALYZED DIL UNITS RESULT FLG

(Following results reported on the basis of 2.4% moisture)

Petroleum Hydrocarbons 418.1 02.08.98 02.08.98 1 mg/kg 51 U
-Moisture/TNFR D2216 02.04.98 1 Percent 2.4

SAMPLE NO: 9801381*4

Received: 01.26.98

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

P.O.#: 1041546
Req#: DO#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 2

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPLED

9801381*4 20242-658A-091 01.26.98

PARAMETER METHOD PREPED ANALYZED DIL UNITS RESULT FLG

(Following results reported on the basis of 2.4% moisture)

JP-5

TPH (Diesel Range)	8015M	01.27.98	01.27.98	1	mg/kg	10	U
JP-5	8015M	01.27.98	01.27.98	1	mg/kg	10	U
Surrogates **							
Naphthalene Reported	8015M	01.27.98	01.27.98	1	Percent	82	
o-Terphenyl Reported	8015M	01.27.98	01.27.98	1	Percent	87	

SAMPLE NO: 9801381*4

Received: 01.26.98

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

P.O.#: 1041546
Req#: D0#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 3

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPLED

9801381*4 20242-658A-091 01.26.98

PARAMETER METHOD PREP ANALYZED DIL UNITS RESULT FLG

(Following results reported on the basis of 2.4% moisture)

BTEX

Benzene	8020A		01.30.98	1	ug/kg	5.1	U
Toluene	8020A		01.30.98	1	ug/kg	5.1	U
Ethylbenzene	8020A		01.30.98	1	ug/kg	5.1	U
Total Xylene Isomers	8020A		01.30.98	1	ug/kg	20	U
Surrogates **							
a,a,a-Trifluorotoluene Rep.	8020A		01.30.98	1	Percent	98	

ANALYTICAL REPORT

SAMPLE NO: 9801381*5

Received: 01.26.98

Mailed:

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

P.O.#: 1041546
Req#: DO#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 1

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPLI

9801381*5 20242-658B-092 01.26

PARAMETER METHOD PREPED ANALYZED DIL UNITS RESULT FLG

(Following results reported on the basis of 4.7% moisture)

Petroleum Hydrocarbons 418.1 02.08.98 02.08.98 1 mg/kg 52 U
-Moisture/TNFR D2216 02.04.98 1 Percent 4.7

SAMPLE NO: 9801381*5

Received: 01.26.98

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

P.O.#: 1041546
Req#: D0#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 2

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPLED

9801381*5 . 20242-658B-092 01.26.98

PARAMETER METHOD PREPED ANALYZED DIL UNITS RESULT FLG

(Following results reported on the basis of 4.7% moisture)

JP-5

TPH (Diesel Range)	8015M	01.27.98	01.27.98	1	mg/kg	10	U
JP-5	8015M	01.27.98	01.27.98	1	mg/kg	10	U
Surrogates **							
Naphthalene Reported	8015M	01.27.98	01.27.98	1	Percent	89	
o-Terphenyl Reported	8015M	01.27.98	01.27.98	1	Percent	93	

SAMPLE NO: 9801381*5

Received: 01.26.98

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

P.O.#: 1041546
Req#: DO#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 3

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPLED

9801381*5 20242-658B-092 01.26.98

PARAMETER METHOD PREPED ANALYZED DIL UNITS RESULT FLG

(Following results reported on the basis of 4.7% moisture)

BTEX

Benzene	8020A		01.30.98	1	ug/kg	5.2	U
Toluene	8020A		01.30.98	1	ug/kg	5.2	U
Ethylbenzene	8020A		01.30.98	1	ug/kg	5.2	U
Total Xylene Isomers	8020A		01.30.98	1	ug/kg	21	U
Surrogates **							
a,a,a-Trifluorotoluene Rep.	8020A		01.30.98	1	Percent	96	

ANALYTICAL REPORT

SAMPLE NO: 9801381*6

Received: 01.26.98

Mailed:

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

P.O.#: 1041546
Req#: D0#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 1

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPL

9801381*6 20242-658B-093 01.26.

PARAMETER METHOD PREPED ANALYZED DIL UNITS RESULT FLG

(Following results reported on the basis of 2.5% moisture)

Petroleum Hydrocarbons 418.1 02.08.98 02.08.98 1 mg/kg 51 U
-Moisture/TNFR D2216 02.04.98 1 Percent 2.5

SAMPLE NO: 9801381*6

Received: 01.26.98

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

P.O.#: 1041546
Req#: DO#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 2

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPLED

9801381*6 20242-658B-093 01.26.98

PARAMETER METHOD PREPED ANALYZED DIL UNITS RESULT FLG

(Following results reported on the basis of 2.5% moisture)

JP-5

TPH (Diesel Range)	8015M	01.27.98	01.27.98	1	mg/kg	10	U
JP-5	8015M	01.27.98	01.27.98	1	mg/kg	10	U
Surrogates **							
Naphthalene Reported	8015M	01.27.98	01.27.98	1	Percent	90	
o-Terphenyl Reported	8015M	01.27.98	01.27.98	1	Percent	93	

SAMPLE NO: 9801381*6

Received: 01.26.98

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

P.O.#: 1041546
Req#: DO#0112
Project: 20242

DRY WEIGHT REPORT OF ANALYTICAL RESULTS

Page 3

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE

DATE SAMPLED

9801381*6 20242-658B-093 01.26.98

PARAMETER METHOD PREP ANALYZED DIL UNITS RESULT FLG

(Following results reported on the basis of 2.5% moisture)

BTEX

Benzene	8020A		01.30.98	1	ug/kg	5.1	U
Toluene	8020A		01.30.98	1	ug/kg	5.1	U
Ethylbenzene	8020A		01.30.98	1	ug/kg	5.1	U
Total Xylene Isomers	8020A		01.30.98	1	ug/kg	21	U
Surrogates **							
a,a,a-Trifluorotoluene Rep.	8020A		01.30.98	1	Percent	94	

ANALYTICAL REPORT

SAMPLE NO: 9801381*7

Received: 01.26.98

Mailed:

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

P.O.#: 1041546
Req#: DO#0112
Project: 20242

REPORT OF ANALYTICAL RESULTS

Page 1

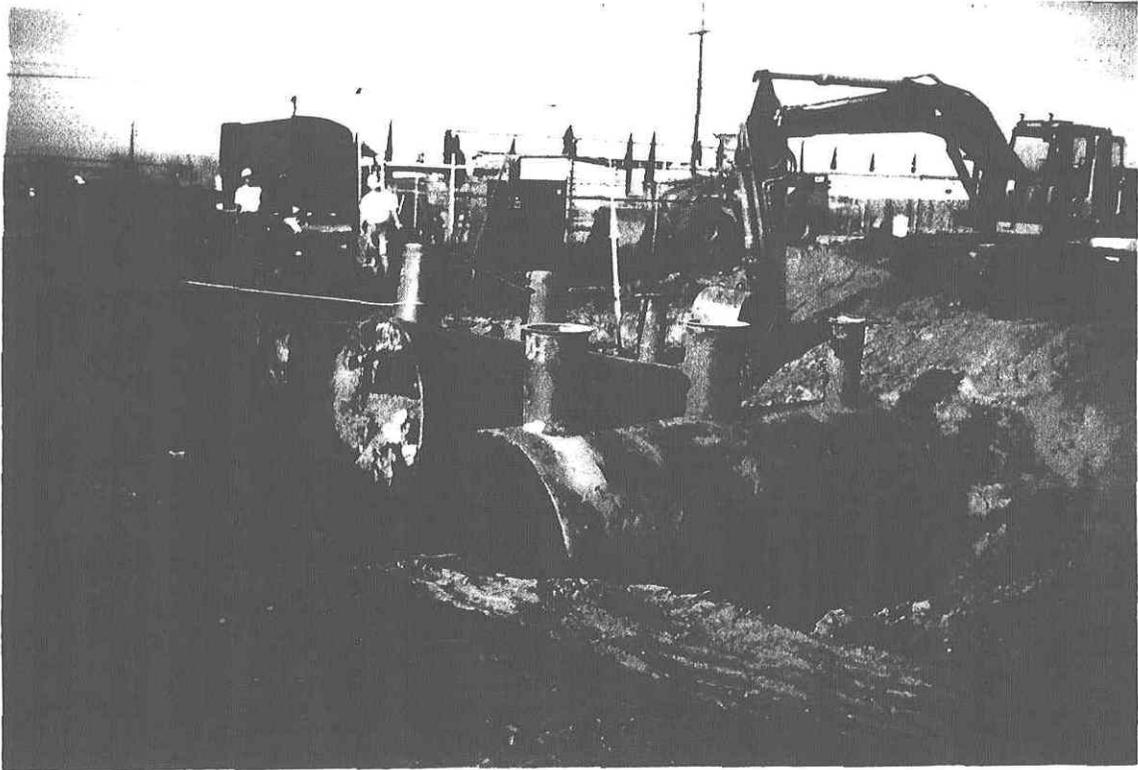
SAMPLE DESCRIPTION, AQUEOUS SAMPLE

DATE SAMPL

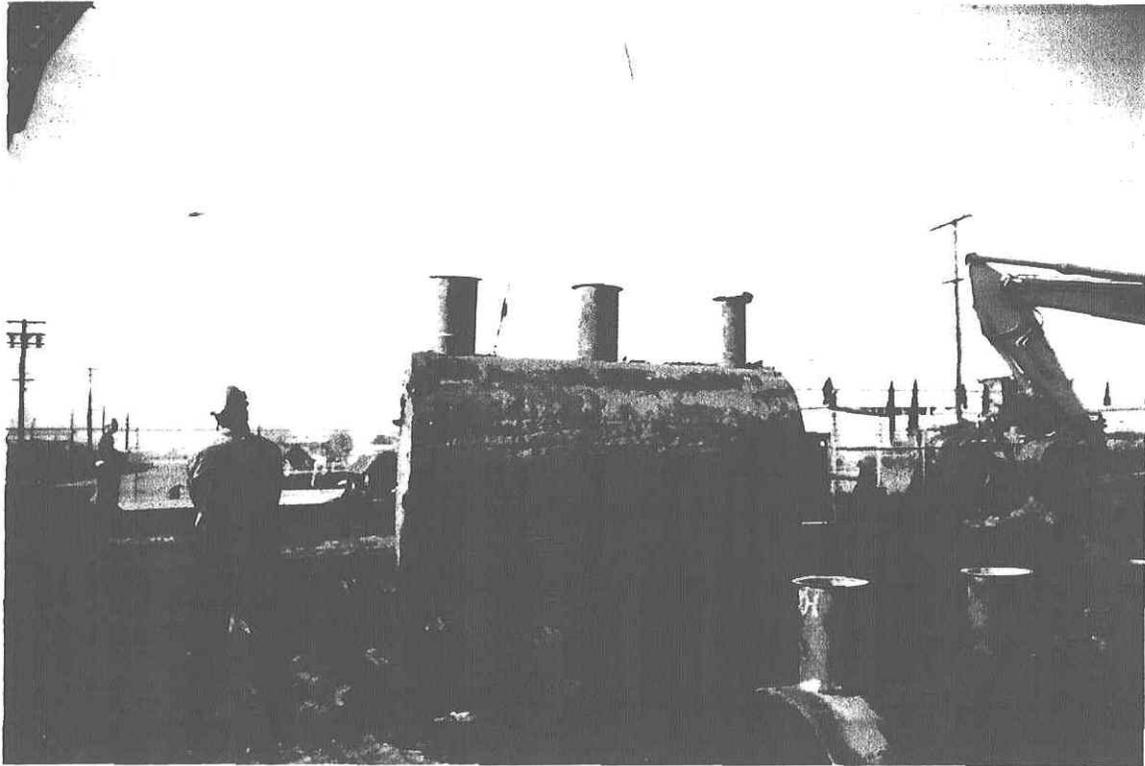
PARAMETER	METHOD	PREPED	ANALYZED	DIL	UNITS	RESULT	FLG
-----							01.26.
9801381*7	20242-658-094						

BTEX							
Benzene	8020A		01.30.98	1	ug/L	0.5	U
Toluene	8020A		01.30.98	1	ug/L	0.5	U
Ethylbenzene	8020A		01.30.98	1	ug/L	0.5	U
Total Xylene Isomers	8020A		01.30.98	1	ug/L	2	U
Surrogates **							
a,a,a-Trifluorotoluene Rep.	8020A		01.30.98	1	Percent	105	

Appendix F
Site Photographs



Photograph No. 1: UST 658A and 658B in place.



Photograph No. 2: Removal of UST 658A from excavation.

Appendix G
Marine Chemist Certification and DRMO
Receipt

658-A-B

Thomas D. Beck & Assoc., Inc.
HARBOR TESTING LABORATORY

MARINE CHEMIST CERTIFICATE

Serial # 8730

24 HOUR PHONE: (562) 492-9646

Requested by: HM REMEDIATION

Vessel Owner or Agent: EL TORO MCAS

Date: 22 JAN 98

Vessel: UNDERGROUND TANK

Type of Vessel: UNDERGROUND TR

Specific Location of Vessel: EL TORO MCAS SITE 658

St Cargo: JET FUEL

Tests Performed: LEL, O2, VISUAL

Time Survey Completed: 0715

2 UNDERGROUND STORAGE
TANKS MARKED WITH
YELLOW SPRAY PAINT

SITE 658-A and 8730.1
SITE 658-B and 8730.2

TESTED: 0% LEL
20.8% O2

SAFE FOR HOT WORK
NOT SAFE FOR WORKERS TO ENTER
TANKS HAVE BEEN TRIPLE
RINSED TO REMOVE PRODUCT
and RESIDUALS.

USA MILP06122 IN 2070 CALIBRATED 0545 hrs 22 JAN 98

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 release 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 adequately 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.

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 2-8 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: [Signature] OHM 1/22/98 Signed: [Signature] 594



ROICC MCAS El Toro



Facsimile

of pages: 3

Date: 26 Jan 98

From: Scott Kehe Title: Civil Engineer

Phone No.: (714) 726-2506 Fax No.: (714) 726-2255

To: Lynn Hornecker Company: SNOIV

Phone No.: _____ Fax No.: (619) 532-4160

Subject: DO 112, USTs 658A & 658B, DRMO DOCUMENTATION

Remarks:

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

- DD Form 1348-1 Receipt Document dated 26 Jan 98 for 17,840 pounds of scrap metal from USTs 658A and 658B.
- Weight Ticket Certification dated 26 Jan 98 for the scrap metal.

The USTs were transported by OHM directly from the tank site to DRMO Yard 3 on 26 Jan 98.

Scott Kehe

DD FORM 1318-1A (03), JUL 91 ISSUER RELEASE / RECEIPT DOCUMENT

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
01	00	00	RI	M	UI	QUANTITY	SUPPL.	S	F	DIS-	PRO-	P	ROO	A	RI	C	M	UNIT PRICE	DOLLARS	CTS																													
12	PH	FROM	&S	NS	S	ADDRESS	MENTARY	I	L	TR-	JECT	R	SEA	D																																			

MCAS El Toro
 PO 95001 CA
 Santa Ana 92709
 4. MARK FOR

SZ169 DR
 MCAS El T
 PO 21 CA
 Irvine, 92

EA 2

M60050-8026-D120

2910-00-FUEL TANKS

5. DOC DATE	6. NMFC	7. FRT RATE	8. TYPE CARGO	9. PS
8-26				
10. QTY. RECD	11. UP	12. UNIT WEIGHT	13. UNIT CUBE	14. UFC
		17.840		
16. FREIGHT CLASSIFICATION NOMENCLATURE				
UNDERGROUND FUEL TANKS, METAL SHEET				
17. ITEM NOMENCLATURE				
18. TY CONT	19. NO CONT	20. TOTAL WEIGHT	21. TOTAL CUBE	
22. RECEIVED BY			23. DATE RECEIVED	
DRMO EL TORO			1-26-95	

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

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

OMM- Bldg 658-1 (2) 10,000 GL UST'S

UST 2 658 A16

3

7. REGIONAL DATA

8. NATIONAL STOCK NO #

9. DOCUMENT NUMBER

10. DATE OF ISSUE

11. DATE OF RECEIPT

12. DATE OF PAYMENT

U.S. GOVERNMENT
RELEASE/RECEIPT CUSTODY DOCUMENT
ENVIRONMENT DEPT.
MCAS EL TORO
BLDG. 326.1 RECYCLING BRANCH

DOCUMENT NUMBER: N60050-8026 - D120

1. DATE: JAN 26 1998

2. MATERIAL DESCRIPTION:

3. MATERIAL I.D., LOCATION

SCRAP	UST'S
	X

LOCATION

TRIPLE RINSE
CERTIFICATION
NUMBER

1) <u>Bldg 658-1</u>	
2) _____	
3) _____ <u>658-A</u>	<u>8730-1</u>
4) _____ <u>658-B</u>	<u>8730-2</u>
5) _____	
6) _____	

WEIGHT TICKET CERTIFICATION

VEHICLE LICENSE NO. OR I.D. NO. _____

1)	_____	LBS. GROSS
	_____	LBS. TARE
	<u>17,840</u>	LBS. NET
2)	_____	LBS. GROSS
	_____	LBS. TARE
	_____	LBS. NET
3)	_____	LBS. GROSS
	_____	LBS. TARE
	_____	LBS. NET
4)	_____	LBS. GROSS
	_____	LBS. TARE
	_____	LBS. NET
5)	_____	LBS. GROSS
	_____	LBS. TARE
	_____	LBS. NET
6)	_____	LBS. GROSS
	_____	LBS. TARE
	_____	LBS. NET

VEHICLE TYPE AND LICENSE NO. OR I.D. NO. _____

Government Rep. Signature: Thomas S. Leahy Jr.

Appendix H

Compaction Test Field Reports

Job 20242
 WBS 0800052
 PO 1042228
 Line #1 (Services)

Job No. 98-003-10
 Date: 1/27/98

FIELD REPORT

This report shall not be construed as supervision, direction of construction, or a recommendation.

Client DHM	Job Address E1 Torro MCAS	City E1 Torro
Job Superintendent Breg Early	General Contractor DHM	Job Phone n/a
Grading Contractor	Concrete Contractor	Other

Test No.	Location	Remarks	Elev.	Dry Den.	% Moist.	Max.	% Comp.
1	Site 658 A EB - D0112		-9'	120	11.7	130	92
2	✓	- ✓	-7'	120	12.1	130	92
3	✓	- ✓	-5'	118	12.3	130	91
4	✓	- ✓	-3'	121	11.9	130	93
5	✓	- ✓	-2'	120	12.4	130	92
6	✓	- ✓	-0'	117	12.9	126	93

On-site at MCAS at 7:00a. Inspected site 658-D0112 where backfill is in progress. Contractor removed (2) 10,000 gallon steel tanks creating an excavation, approximately 14' deep. Excavation dimensions are about 45' x 30'. Contractor has placed and compacted nearly 6' of fill. Requested the compacted fill be test hole potted at 4' and 3'. Ran sandcone tests w/ good results listed above. Resumed the backfill operation using a rubber-tired loader and excavator, moisturizing w/ water truck. Sandcone tests continue to show compaction at or above 90% w/ moisture above optimum. Depleted soil stockpiled on-site and began importing from site 17. Lunch from 11:30a - 12:30p. Continued importing soil, spreading in loose, shallow lifts then wheel rolling w/ loader for compaction. Completed lift and ran a final surface test w/ good results. Left MCAS at 2:30p.

INSPECTION BY: <input checked="" type="checkbox"/> Field Engineer <input type="checkbox"/> Field Technician <input type="checkbox"/> Deputy Grading Insp. (Staff Eng. or Supr. Field Eng.)	NEXT INSPECTION: <input checked="" type="checkbox"/> Contractor to call <input type="checkbox"/> _____
HOURS: <input type="checkbox"/> Footings _____ <input type="checkbox"/> Piles _____ <input type="checkbox"/> Slot Cuts _____ <input type="checkbox"/> Shoring _____ <input checked="" type="checkbox"/> Fill Comp. _____ <input type="checkbox"/> Bottom _____ <input type="checkbox"/> Saturation _____ <input type="checkbox"/> Other: _____	Minimum Straight Time <u>6 1/2</u> Over Time _____ Travel Time <u>1 1/2</u> Total Time <u>8</u> Mileage _____ Inspector <u>B. Collyer</u> Confirmed by <u>[Signature]</u> Representing <u>DHM 917</u>

Copies to Client Contractor Other (Specify): _____