M60050.002493
MCAS ELTORO
SSIC #5090.3

Technical Memorandum

Summary of Record Search Results for Suspected Temporary Accumulation Areas (TAAs) at Marine Corps Air Station, El Toro, California

SWDIV Contract No. N68711-93-D-1459 - Delivery Order 0070 - Revision 0
OHM Project No. 918609 - Document Control No. SW 6324
February 5, 1999

OHM Remediation Services Corp.

1202 Kettner Boulevard
San Diego, California 92101

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

OHM TRANSMITTAL/DELIVERABLE RECEIPT

CONTRACT N68711-93-D-1459 **DOCUMENT CONTROL NO: SW6324**

TO: Contracting Officer
Naval Facilities Engineering Command
Southwest Division
Bozier H. Demaree, Code 02R.BD
Building 131
1220 Pacific Highway
San Diego, California 92132-5101

Date: 08-Feb-99

D.O.: 70

Location: MCAS EL TORO

FROM: _____
Stewart Bornhoft, Program Manager

Edwin G. Bond, Contracts Manager

DESCRIPTION OF ENCLOSURE: ***Technical Memorandum, Summary of Record Search Results for Suspected Temporary Accumulations Areas (TAAs), dated February 5, 1999***

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

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SCHEDULED DELIVERY DATE: 08-Feb-99 **ACTUAL DELIVERY DATE:** 08-Feb-99

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OHM Remediation
Services Corp.
A Member of The IT Group

February 5, 1999

Ms. Bozier H. Demaree, Code 02R.BD
Contracting Officer
Naval Facilities Engineering Command
Southwest Division
1213 Pacific Highway
San Diego, CA 91332-5187

Attention: Ms. Lynn Hornecker, 56MC.LMH

Subject: ***Technical Memorandum***
Summary of Record Search Results for Suspected TAA Sites at Marine Corps Air Station, El Toro, California
Contract N68711-93-D-1459, Delivery Order 070, DCN SW 6324

Dear Ms. Hornecker:

The purpose of this technical memorandum is to summarize the results of the record search activities associated with suspected Temporary Accumulation Area (TAA) sites within Marine Corps Air Station (MCAS) El Toro (herein after referred to as "the Station"), California (Figure 1-1). OHM Remediation Services Corp. (OHM) performed the record search activities at suspected TAA sites as part of the Delivery Order (DO) 0070 task under the Southwest Division Naval Facilities Engineering Command, Remedial Action Contract (RAC) No. N68711-93-D-1459.

As part of the record search activity, OHM, performed the following tasks:

1. Reviewed the following available documents to collect background and history of the suspected TAA sites.

   - Final Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) report, Marine Corps Air Station El Toro, California, prepared by Jacobs Engineering Group Inc., (JEG 1993).

   - Final Addendum to the RFA report, Marine Corps Air Station, El Toro, California, prepared by Bechtel Nationals Inc., (BNI, 1996).

   - Final Base Realignment and Closure (BRAC) Cleanup Plan, March 1997 and 1998 prepared by United States Marine Corps. (MCAS El Toro 1997 & 1998).

   - Final Hazardous Materials / Hazardous Waste Management Plan, Marine Corps Air Station El Toro, California, prepared by Science Applications International Corporation in 1994.

2. Performed field site visit at each suspected TAA area / Building to verify background records with existing field conditions and document photographic record of the current site condition.

3. Summarized the results of the record search findings with recommendations for each suspected TAA site on a separate form called "Results of the Record Search".

Based on the review of the historical background information and field visit, it is concluded that the 13 TAA sites listed in Table 1 do not exist and should be designated "phantom TAA sites". These phantom TAA sites do not meet any criteria or definition of less than 90-day hazardous waste accumulation area under the Code of Federal Regulation, Title 40, Part 262.34 and California Code of Regulations, Title 22, Section 66262.34. Figures 1-2 through 1-7 show the location of buildings for suspected TAA sites.

Per review of the historical records and field site visit of each TAA site, it is apparent that these phantom sites were either an aerial photo anomaly or an area mistakenly identified as a TAA. The attached TAA specific appendices provide explicit details on results of the record search and background documentation.

Therefore, OHM recommends to the Navy that following 13 TAA sites (presented in Table 1) be deleted from the BCP list of Environmental Locations of Concern (Table 3-1a & Table 3-9).

TABLE - 1 List of Phantom TAA sites

S.R. No	TAA ID No.	SWMU No.	1998 BCP ID No.	Recommendations
1	TAA 114	38	514	Phantom TAA site, delete from BCP Table 3-1a
2	TAA 242	67	523	Phantom TAA site, delete from BCP Table 3-1a
3	TAA 298	83	526	Phantom TAA site, delete from BCP Table 3-1a
4	TAA 317	93	530	Phantom TAA site, delete from BCP Table 3-1a
5	TAA 357	97	531	Phantom TAA site, delete from BCP Table 3-1a
6	TAA 386	114	537	Phantom TAA site, delete from BCP Table 3-1a
7	TAA 398	252	546	Phantom TAA site, delete from BCP Table 3-1a
8	TAA 442	126	548	Phantom TAA site, delete from BCP Table 3-1a
9	TAA 445	127	550	Phantom TAA site, delete from BCP Table 3-1a
10	TAA 447	130	551	Phantom TAA site, delete from BCP Table 3-1a
11	TAA 456	135	552	Phantom TAA site, delete from BCP Table 3-1a
12	TAA 534	146	556	Phantom TAA site, delete from BCP Table 3-1a
13	TAA 602	147	557	Phantom TAA site, delete from BCP Table 3-1a

Should you have any questions or comments, please feel free to call the undersigned at (949)-261-6441.

Sincerely,
OHM Remediation Services Corporation

Dhananjay Rawal
Project Engineer

William Sedlak, P.E.
Sr. Project Manager

Attachments:
Figures
TAA specific Appendices
Copies to: Per attached letter of Transmittal

List of Sources of Information and Reference Documents

Final Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) report, Marine Corps Air Station El Toro, California, prepared by Jacobs Engineering Group Inc., (JEG 1993).

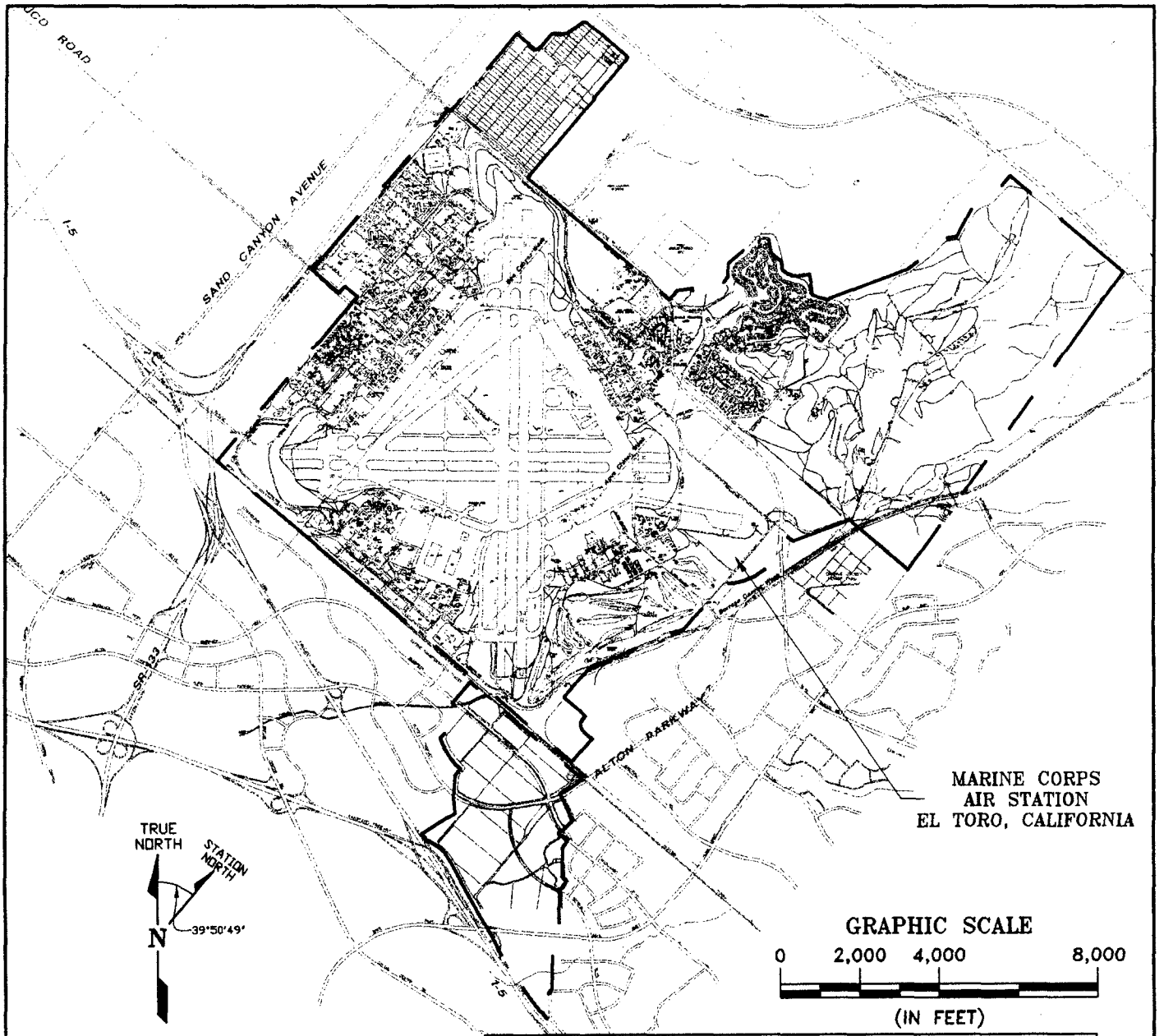
Final Addendum to the RFA report, Marine Corps Air Station, El Toro, California, prepared by Bechtel National Inc., (BNI, 1996).

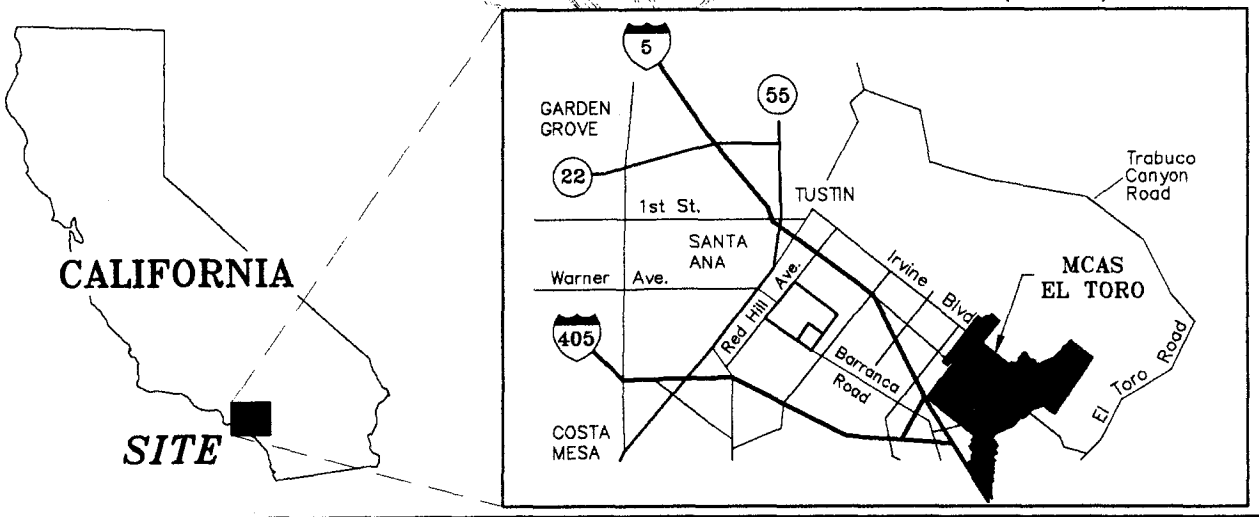
Final Base Realignment and Closure (BRAC) Cleanup Plan, March 1997 and 1998 prepared by United States Marine Corps. (MCAS El Toro 1997 & 1998).

Final Hazardous Materials / Hazardous Waste Management Plan, Marine Corps Air Station El Toro, California, prepared by Science Applications International Corporation in 1994.

United States Marine Corps Air Station, El Toro. 1997 *El Toro Building Guide*

Figures





OHM Remediation Services Corp. A Subsidiary of OHM Corporation SAN DIEGO, CA				DRAWN BY R. PIRMORADIAN	DATE 02/05/99	FACILITY LOCATION MAP TAA SUSPECTED SITES		
				CHECKED BY	DATE			
				APPROVED BY DR	DATE 2/5/99			
CONTRACT NAME SWDIV				PROJECT MANAGER	DATE 2/5/99	MARINE CORPS AIR STATION EL TORO, CALIFORNIA		
AUTOCAD FILE No. 18609176.DWG	PLOT SCALE 1=1	SHEET 1	OF 1	SCALE 1"=4,000'	DOCUMENT CONTROL No. SW6324	OHM PROJECT No. 18609	FIGURE No. FIG 1-1	REVISION 0

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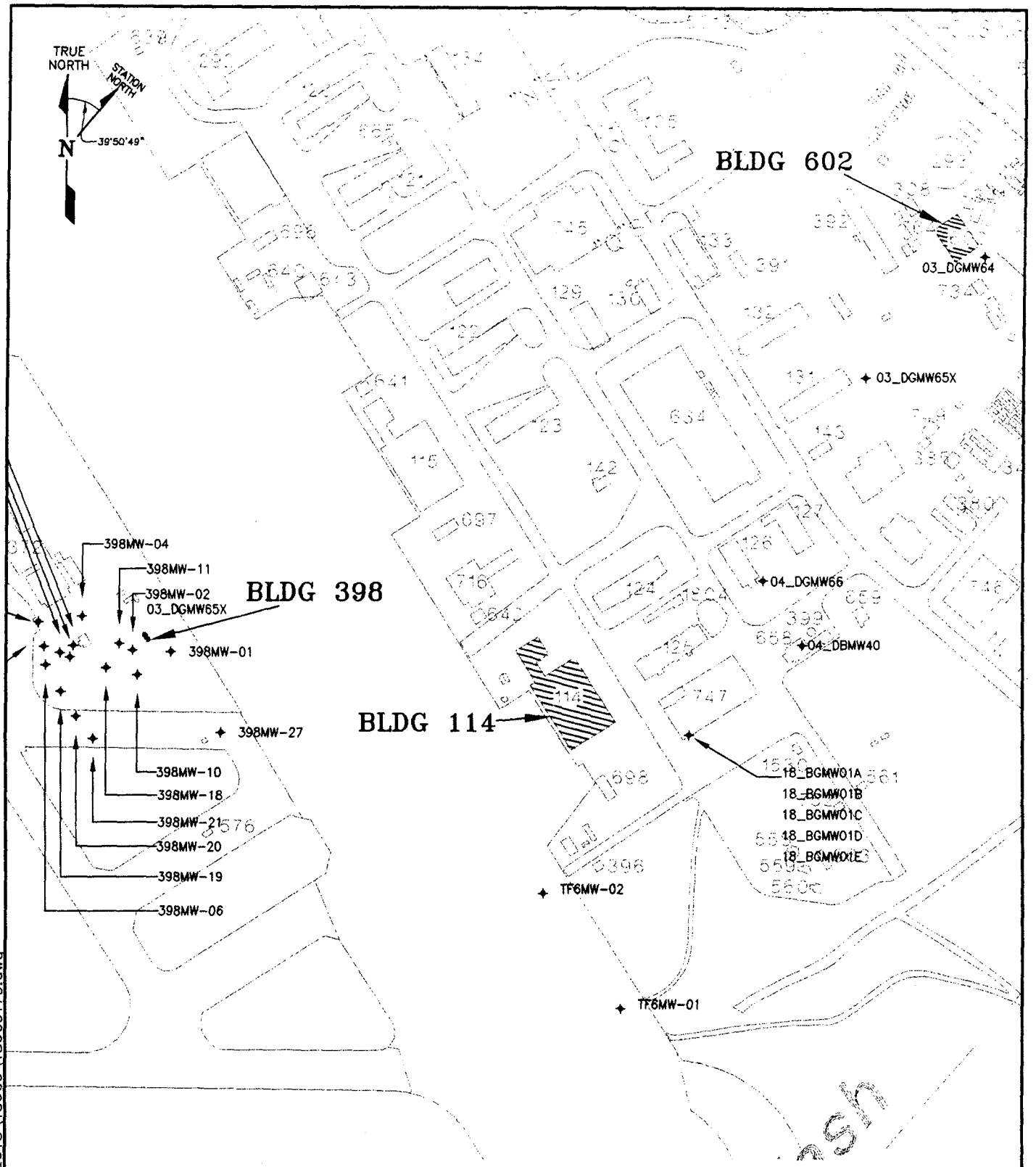

EXPLANATION:

✦ 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 02/05/99	LOCATION MAP SUSPECTED TAA SITES BUILDINGS 114, 398 & 602				
	CHECKED BY	DATE					
	APPROVED BY DR	DATE 2/5/99					
CONTRACT NAME SWDIV	PROJECT MANAGER	DATE 2/5/99	MARINE CORPS AIR STATION EL TORO, CALIFORNIA				
AUTOCAD FILE No. 18609179.DWG	PLOT SCALE 1=1	SHEET 1	OF 1	SCALE 1"=300'	DOCUMENT CONTROL No. SW6324	OHM PROJECT No. 18609	FIGURE No. FIG 1-2	REVISION 0

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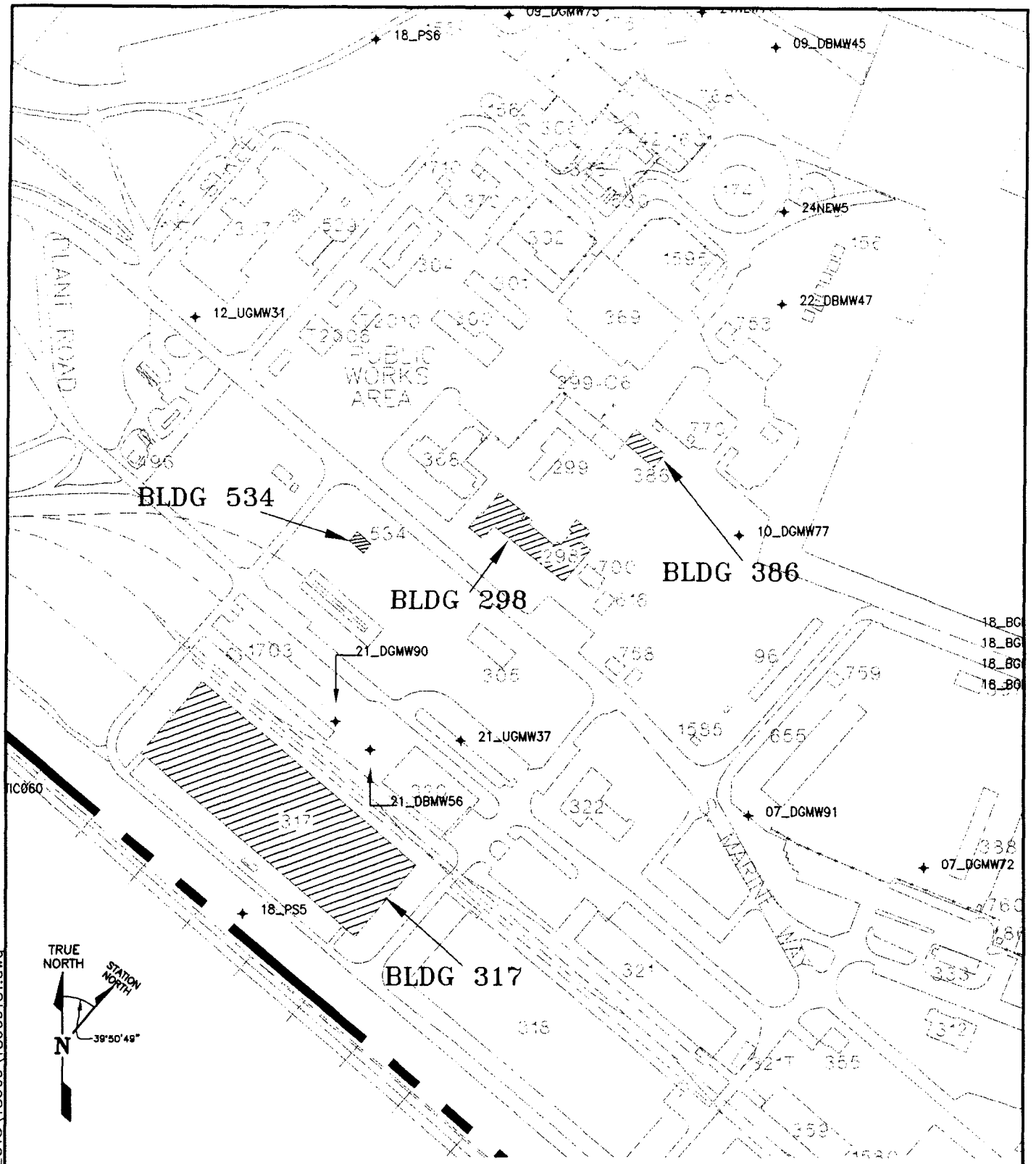

EXPLANATION:

✦ 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 02/05/99	LOCATION MAP SUSPECTED TAA SITES BUILDINGS 298, 317, 386 & 534				
	CHECKED BY	DATE					
	APPROVED BY	DATE 2/5/99					
CONTRACT NAME SWDIV	PROJECT MANAGER	DATE 2/5/99	MARINE CORPS AIR STATION EL TORO, CALIFORNIA				
AUTOCAD FILE No. 18609181.DWG	PLOT SCALE 1=1	SHEET 1	OF 1	SCALE 1"=300'	DOCUMENT CONTROL No. SW6324	OHM PROJECT No. 18609	FIGURE No. FIG 1-3	REVISION 0

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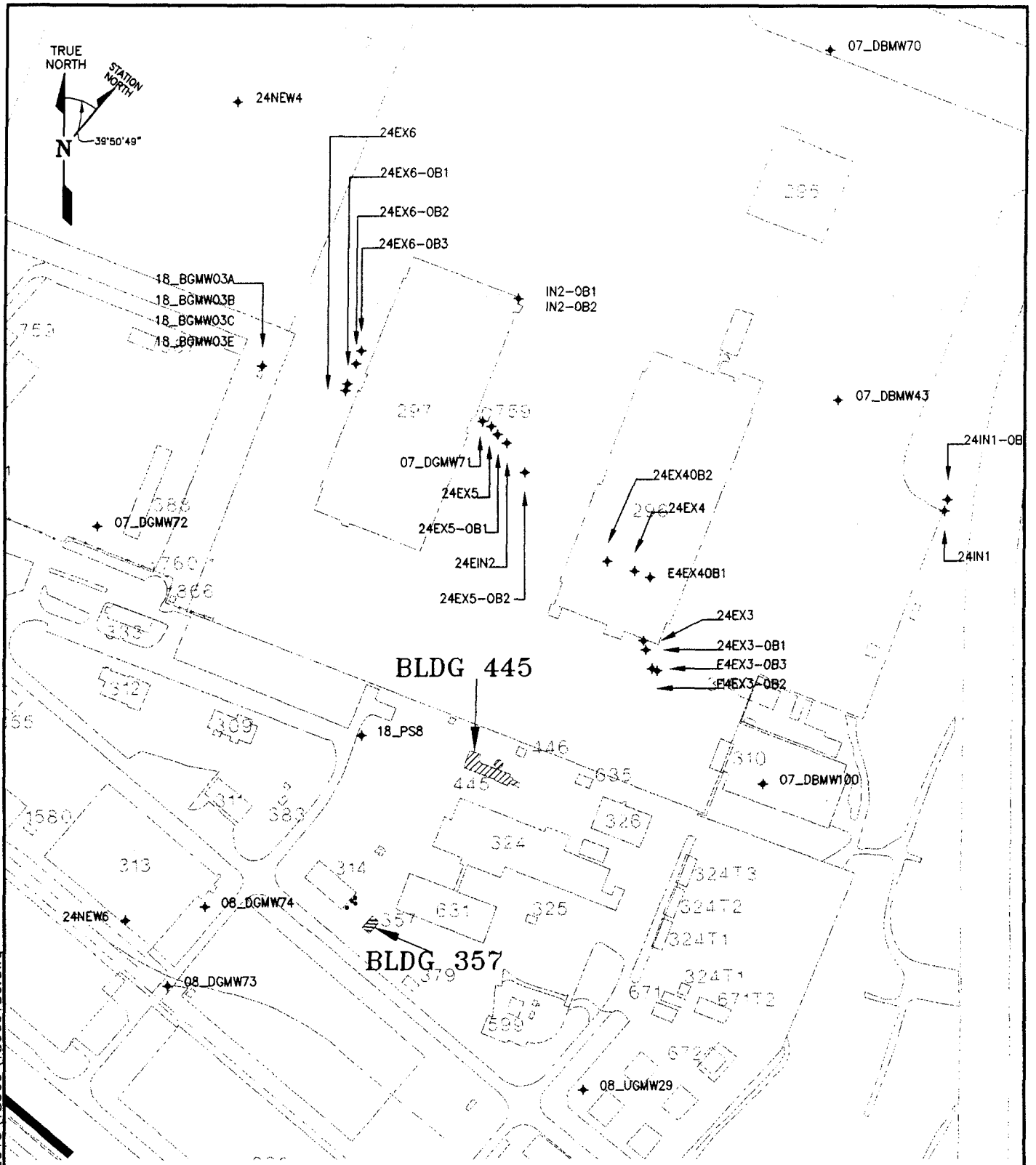

EXPLANATION:

✦ 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 02/05/99	LOCATION MAP SUSPECTED TAA SITES BULDINGS 445 & 357				
	CHECKED BY	DATE					
	APPROVED BY DR	DATE 2/5/99					
CONTRACT NAME SWDIV	PROJECT MANAGER	DATE 2/5/99	MARINE CORPS AIR STATION EL TORO, CALIFORNIA				
AUTOCAD FILE No. 18609180.DWG	PLOT SCALE 1=1	SHEET 1	OF 1	SCALE 1"=300'	DOCUMENT CONTROL No. SW6324	OHM PROJECT No. 18609	FIGURE No. FIG 1-4	REVISION 0

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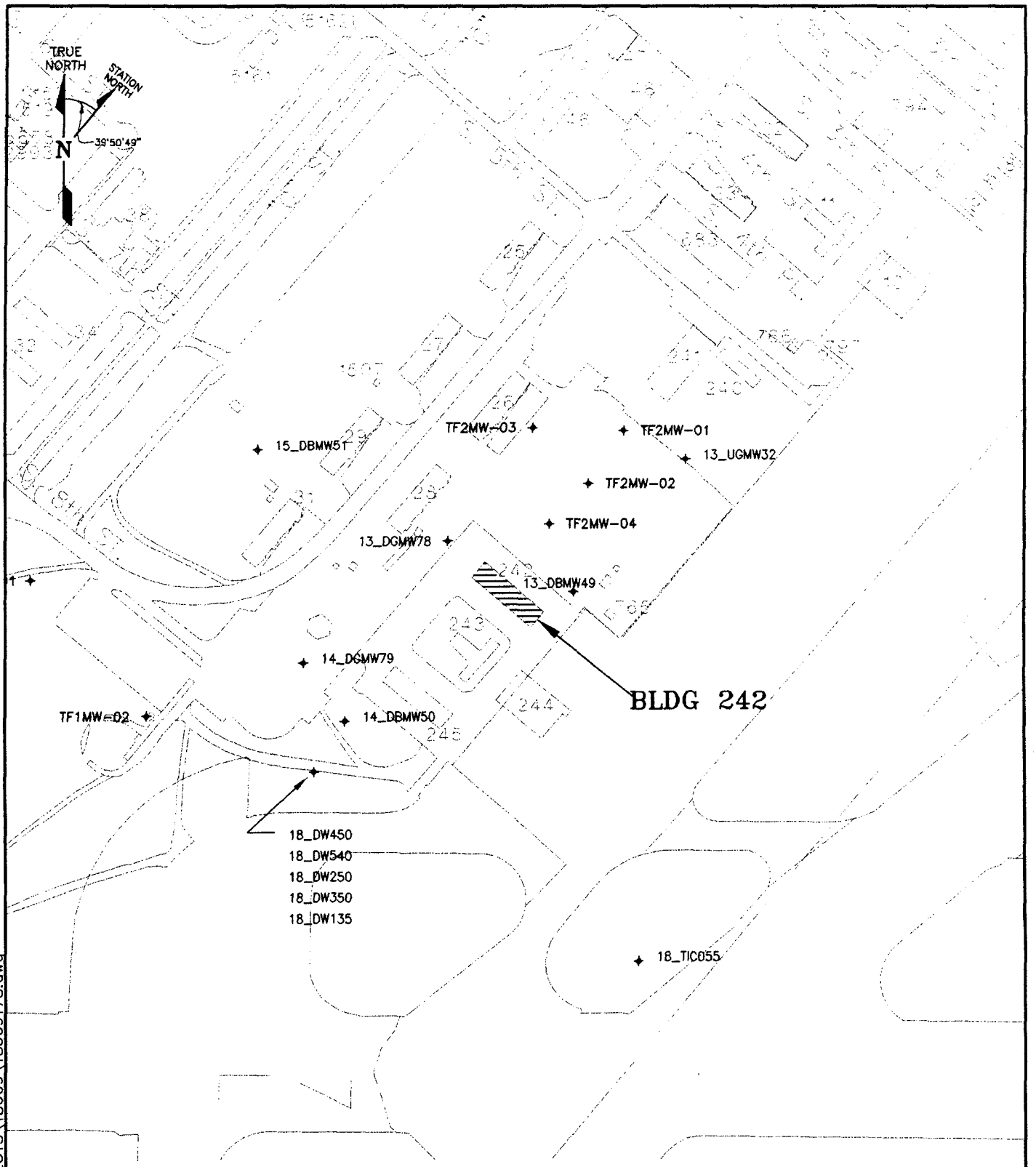

EXPLANATION:

✦ 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 02/05/99	LOCATION MAP SUSPECTED TAA SITE BUILDING 242
	CHECKED BY	DATE	
	APPROVED BY DR	DATE 2/5/99	
CONTRACT NAME SWDIV	PROJECT MANAGER	DATE 2/5/99	MARINE CORPS AIR STATION EL TORO, CALIFORNIA

AUTOCAD FILE No.	PLOT SCALE	SHEET	OF	SCALE	DOCUMENT CONTROL No.	OHM PROJECT No.	FIGURE No.	REVISION
18609178.DWG	1=1	1	1	1"=300'	SW6324	18609	FIG 1-5	0

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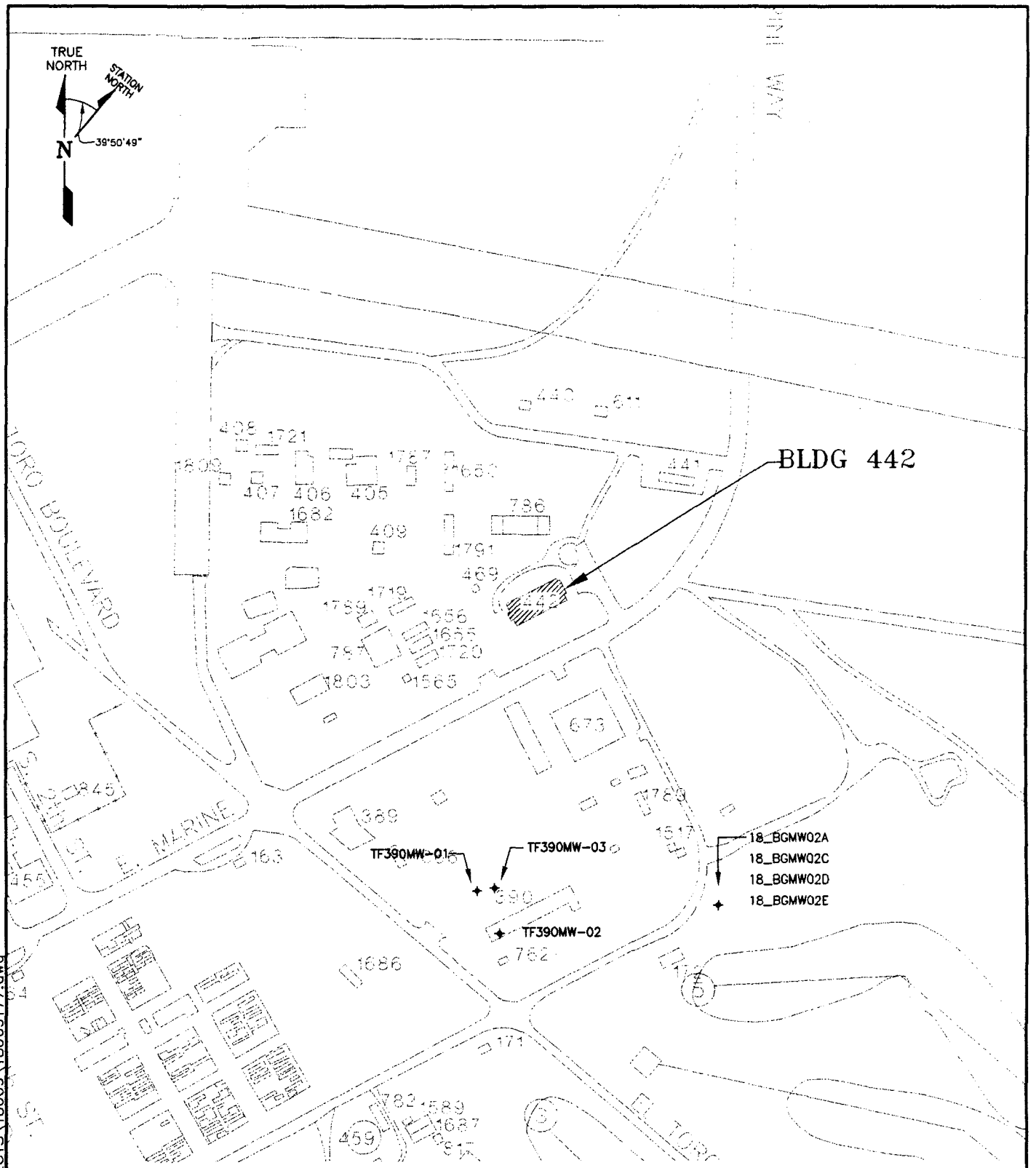

EXPLANATION:

✦ GROUNDWATER MONITORING WELL

OHM Remediation Services Corp. A Subsidiary of OHM Corporation SAN DIEGO, CA				DRAWN BY R. PIRMORADIAN	DATE 02/05/99	LOCATION MAP SUSPECTED TAA SITE BUILDING 442		
				CHECKED BY	DATE			
				APPROVED BY DR	DATE 2/5/99			
CONTRACT NAME SWDIV				PROJECT MANAGER L. Sadler	DATE 2/5/99	MARINE CORPS AIR STATION EL TORO, CALIFORNIA		
AUTOCAD FILE No. 18609177.DWG	PLOT SCALE 1=1	SHEET 1	OF 1	SCALE 1"=300'	DOCUMENT CONTROL No. SW6324	OHM PROJECT No. 18609	FIGURE No. FIG 1-6	REVISION 0

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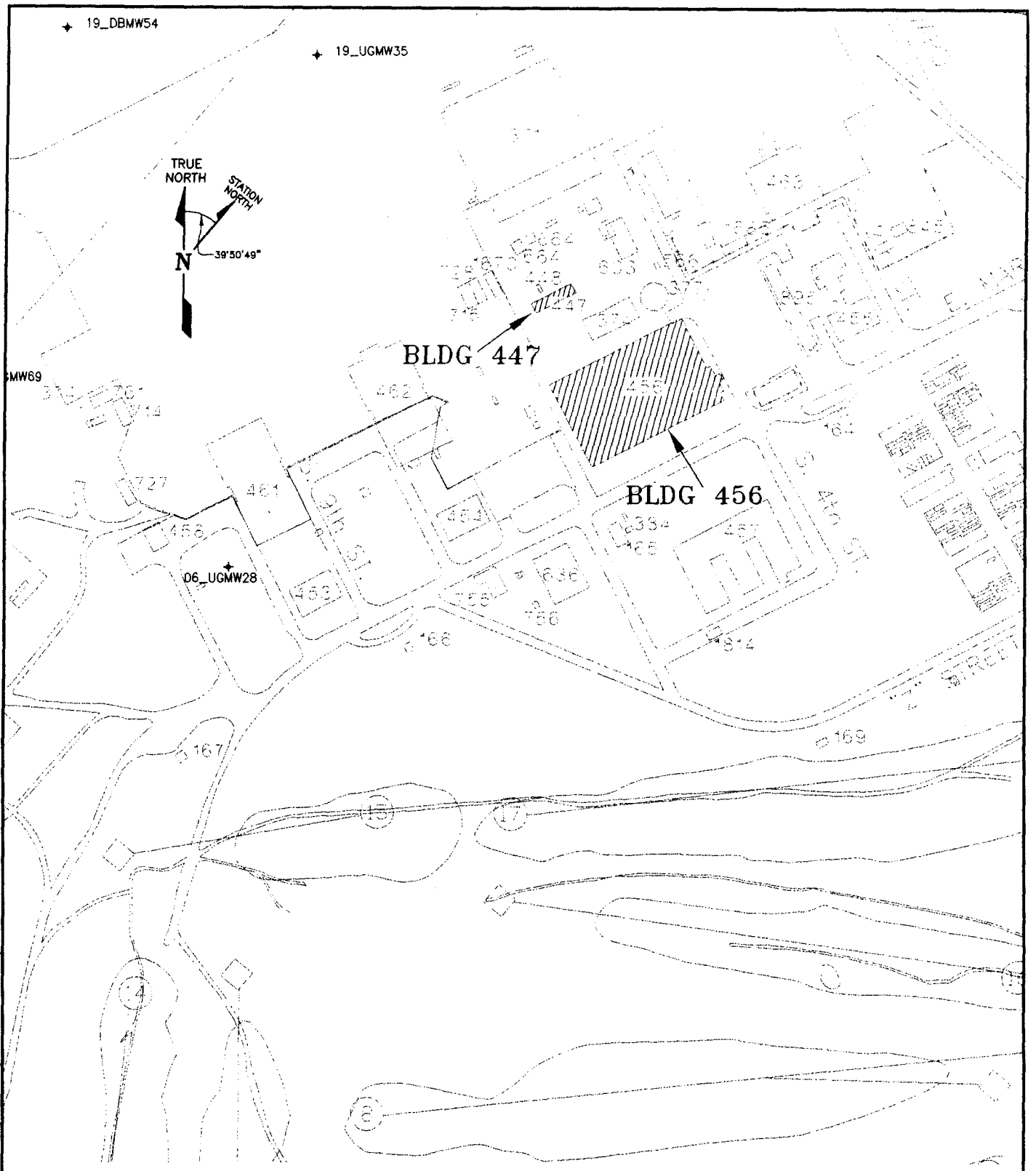

EXPLANATION:

✦ 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 02/05/99	LOCATION MAP SUSPECTED TAA SITES BULDINGS 447 & 456
	CHECKED BY	DATE	
	APPROVED BY DR	DATE 2/5/99	
CONTRACT NAME SWDIV	PROJECT MANAGER	DATE 2/5/99	MARINE CORPS AIR STATION EL TORO, CALIFORNIA

AUTOCAD FILE No.	PLOT SCALE	SHEET	OF	SCALE	DOCUMENT CONTROL No.	OHM PROJECT No.	FIGURE No.	REVISION
18609182.DWG	1=1	1	1	1"=300'	SW6324	18609	FIG 1-7	0

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RESULTS OF THE RECORD SEARCH

SWMU/AOC Name: Drum Storage Area (DSA)

TAA 114	SWMU/AOC No: 38	1998 BCP ID: 514

JEG's Final RCRA Facility Assessment Report, (1993) Notes: A DSA near Building 114 was identified by the RWQCB in a letter to the Station dated June 1989. During the VSI in May 1991, JEG team was unable to locate the DSA. Per JEG, an asphalt area next to flammable storage locker appeared to be the former DSA. Asphalt was slightly stained but no cracks were observed. No physical evidence of any types of waste storage was observed. A copy of the JEG RFA VSI Evaluation form for SWMU 38 is included in Attachment A.
JEG's Recommendations: Since the area is paved and does not have cracks, it does not appear that soil has been impacted. No Further Action.

Bechtel's Final Addendum RCRA Facility Assessment Report [1996 (Notes)]: BNI visited Building 114 in November 1995 as part of VSI and was unable to locate any hazardous waste DSA. No physical evidence was observed of a storage area. Per BNI, no materials are stored in the area probably Desert Storm area. A copy of the BNI Accumulation Evaluation Checklist for SWMU 38 is included in Attachment B.

BNI's Recommendation: Evaluate Removal and/or Decontamination Strategy.

Station's Hazardous Materials / Waste Management Plan (August 1994) Notes: Station's HMWMP do not identify a DSA or TAA 114 at Building 114 as a less than 90 day hazardous waste storage facility or an accumulation point for storage of hazardous waste. A copy of the excerpt from the HMWMP, listing accumulation points and hazardous materials storage area at MCAS El Toro is included in Attachment C.

OHM's Site Visit and Recommendations: OHM visited Building 114 in January 1999 and discovered that the Building 114 is an active Maintenance Hanger. There is no physical evidence or sign of a former or current temporary hazardous waste DSA at this facility. Per Building 114 personnel, they repair helicopters and handle used oil rags. But they have been using TAA 779 (located across the street) for storage of used oil rags drums. No hazardous waste drums are stored at Building 114. A copy of the OHM's Site Assessment Log is included in Attachment D.

After reviewing JEG and BNI VSI record, it is obvious that a less than 90-day facility or an accumulation point for storage of hazardous waste does not exist at Building 114. Also, JEG and BNI were unable to locate the physical location of the former DSA during their field visit at Building 114.

Based on the review of the historical records from JEG, BNI, Station's HMWMP, and OHM VSI records, OHM concludes that no such hazardous waste DSA exists at Building 114. Therefore, **OHM recommends that Station delete the TAA 114 (BCP ID. 514) from the BCP list of Environmental Locations of Concern (Table 3-1a, Site Summary and Table 3-9, Less Than 90-Day Accumulation Areas).** A Copy of the TAA 114 excerpt from the March 1998 BCP is included in Attachment E.

Attachment A
JEG RFA VSI Evaluation Form

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

VOLUME I

16 July 1993

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

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

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

In association with:
International Technology Corporation
CH2M HILL

10020667.SCO\93\MA

Evaluation Form
SWMU/Area of Concern
Number 38

Unit Characteristics

A DSA near Building 114 was identified in a letter from the RWQCB to Lt. Rehor dated 23 June 1989. A current DSA was not observed during the site visit. An asphalt area adjacent to a flammable liquid storage locker appears to be the location of this former DSA. The asphalt is stained in this area but does not have cracks. The surrounding area is paved.

Waste Characteristics

Unknown

Possible Migration Pathways

Soil

Evidence of Release

Stains on pavement

Exposure Potential

On-Station personnel

Recommendations

Since the area is paved and does not have cracks, it does not appear that soil has been impacted. No further action is recommended.

Evaluation Form
SWMU/Area of Concern
Number 38

Name: *Drum Storage Area*

Location: Building 114

Size: 100 sq ft

Date of Site Visit: 09 May 1991

Period of Operation

Currently inactive

Attachment B
BNI VSI Accumulation Area Evaluation Check List

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

Contract No. N68711-92-D-4670

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY

CLEAN II

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

CTO-0065/0170

May 1996

Prepared by:

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

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

ACCUMULATION AREA EVALUATION CHECKLIST

(CIRCLE AS APPROPRIATE AND FILL IN COMPLETELY)

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

GENERAL DESCRIPTION:

SWMU #: **38** Accumulation Area (AA) #: **114**
Location (bldg): **Drum Storage Area/Bldg. 114**
Site Contact: **SDO in 114** Ext: **N/A**
Permission for Access? ~~Y~~ N If yes, explain:
Type of Wastes Observed **None**

TYPE: (CIRCLE AS APPROPRIATE) **6 Cabinets**

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

CONDITION:

~~Stain(s)~~ ~~Odor(s)~~ ~~Crack(s)~~
Placards/Labels: ~~Y N~~ If Yes, list:

Observations: **Probable Desert Storm area; No physical evidence seen of a storage area. No material being stored in area.**
Status: **No change as of 11-10-95**

DIMENSIONS: (ESTIMATED SIZE OR AREA IN FT)

AA/SWMU: **None.**
"Stain(s)" : **None seen.**
Any Restrictions To Access?: **Some fuel trucks parked will limit access temporarily.**

EVALUATION OF REMOVAL/DECONTAMINATION STRATEGY (CIRCLE AS APPROPRIATE)

Yes No Potential for release evident based on this surveillance
Yes No Potential for simple removal **If not already performed**
Yes No Potential for decontamination activities prior to removal
Yes No Potential for sampling (describe:)
Yes No Potential for removal after additional assessment activities

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

DATE/TIME OF SURVEILLANCE: 12-14-94/15:00
UPDATED: 11-10-95
SURVEILLANCE PERFORMED BY: Larry Bauman

No Photo. This page intentionally left blank.

Table 1-2
Temporary Accumulation Areas Evaluation Summary

SWMU[a]/TAA[b]	Description; Location	Proposed Action(s)
GROUP 1 TAAs - No SWMU number		
-[c]/TAA 2	HWSA[d]; Bldg. 2	Evaluate removal and/or decontamination strategy
-/TAA 7	HWSA; Bldg. 7	Evaluate removal and/or decontamination strategy; possible sampling
-/TAA 22	HWSA; Bldg. 22	Evaluate removal and/or decontamination strategy
-/TAA 31B	HWSA; Bldg. 31	Evaluate removal and/or decontamination strategy
-/TAA 370	HMS[e]/HWSA; Bldg. 370	Evaluate removal and/or decontamination strategy
-/TAA 634	HMS/HWSA; Bldg. 634	Evaluate removal and/or decontamination strategy
-/TAA 698	HMS/HWSA; Bldg. 698	Evaluate removal and/or decontamination strategy
-/TAA 744	HMS/HWSA; Bldg. 744	Evaluate removal and/or decontamination strategy
GROUP 2 TAAs - Have a SWMU number		
25/TAA 5A	Drum Storage Area; Bldg. 5	Evaluate removal and/or decontamination strategy
26/TAA 5B	Active HWSA; Bldg. 5	Excavate shallow stained soil, but not under this CTO[f], evaluate removal and/or decontamination strategy
27/TAA 10	HWSA; Bldg. 10	Evaluate removal and/or decontamination strategy
30/TAA 29A	Drum Storage Area; Bldg. 29	Evaluate removal and/or decontamination strategy
31/TAA 29B	Drum Storage Area; Bldg. 29	Evaluate removal and/or decontamination strategy
272/TAA 31A	HWSA; Bldg. 31	Evaluate removal and/or decontamination strategy
33/TAA 51	HWSA; Bldg. 51	Excavate shallow stained soil, but not under this CTO; evaluate removal and/or decontamination strategy
38/TAA 114	Drum Storage Area; Bldg. 114	Evaluate removal and/or decontamination strategy
39/TAA 115	HWSA; Bldg. 115	Evaluate removal and/or decontamination strategy
294/TAA 130A	Drum Storage Area; Bldg. 130	Evaluate removal and/or decontamination strategy
295/TAA 130B	Drum Storage Area; Bldg. 130	Evaluate removal and/or decontamination strategy
42/TAA 130C	Drum Storage Area; Bldg. 130	Evaluate removal and/or decontamination strategy
240/TAA 155A	Drum Storage Area; Bldg. 155	Evaluate removal and/or decontamination strategy
241/TAA 155B	HWSA; Bldg. 155	Evaluate removal and/or decontamination strategy
45/TAA 155C	HWSA; Bldg. 155	Evaluate removal and/or decontamination strategy
64/TAA 240	HWSA; Bldg. 240	Evaluate removal and/or decontamination strategy
67/TAA 242	Drum Storage Area; Bldg. 242	Evaluate removal and/or decontamination strategy
70/TAA 289	Drum Storage Area; Bldg. 289	Evaluate removal and/or decontamination strategy

(table continues)

Attachment C
List of Accumulation Points and Hazardous Material Storage Areas from Station's HMWMP.

Final

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

August 1994

Appendix I
Photographs of Accumulation Points and Hazardous Material Storage Areas

Prepared for:

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

Prepared by:

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

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

Accumulation Points and Hazardous Material Storage Locations
MCAS El Toro

Page No.

Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Supply 4
Supply 4
Combat Service Support Detachment 14 (CSSD 14) 5
Combat Service Support Detachment 14 (CSSD 14) 5
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
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Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Wing Support Squadron 373 (MWSS 373), Refuelers 9
Marine Wing Support Squadron 373 (MWSS 373), Headquarters 9
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 10
Morale, Welfare & Recreation Department (MWR), Golf Course 10
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine All Weather Fighter Attack Squadron 242 (VFMA (AW) 242) 12
Marine All Weather Fighter Attack Squadron 121 (VFMA (AW) 121) 12
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Aviation Logistics Squadron 11 (MALS 11), Avionics 14
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance 14
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 15
Marine All Weather Fighter Attack Squadron 225 (VFMA (AW) 225) 15
Maytag Aircraft Corporation 16
Maytag Aircraft Corporation 16
MOD Team 17
Marine Fighter Attack Squadron 323 (VFMA 323) 17
Marine Fighter Attack Squadron 314 (VFMA 314) 18
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 18
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 20
Squadron Operations & Maintenance Squadron (SOMS), Recovery 20
Marine Wing Support Squadron Utilities (MWSS Utilities) 21
Marine Wing Support Squadron Utilities (MWSS Utilities) 21

Accumulation Points, El Toro (Continued)

Page No.

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Aero Club 22
Headquarters & Headquarters Squadron 38 (H&HS 38) 23
Marine Aircraft Group 46 (MAG 46) 23
Marine Aircraft Group 46 (MAG 46) 24
Marine Air Control Group 38 (MACG 38) 24
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Headquarters 26
Morale, Welfare & Recreation Department (MWR), Auto #1 26
Auto Hobby Shop 27
Armory 27
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 29
Environmental Above Ground Storge Tank 29
Environmental Above Ground Storge Tank 30

Hazardous Materials Storage Areas, El Toro

Headquarters & Headquarters Squadron 38 (H&HS 38), Storage Area 31
Aero Club, Storage Area 31
Marine Air Control Group 38 (MACG 38), Storage Area 32
Morale, Welfare & Recreation Department (MWR), Auto #1, Storage Area 32
Squadron Operations & Maint Squad (SOMS), HQ, Storage Area 33
Marine Fighter Attack Squadron 314 (VFMA 314), Storage Area 33
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 37
Marine Aviation Logistics Squadron 11 (MALS 11), Storage Area 37
Compressed Gas Cylinder Storage Area 38
Flammable Material Storage Area 38
Chemical Storage Area 39
Chemical Storage Area 39
Flammable Storage Area 40
Hospital Compressed Gas Storage Area 40
Hospital Flammable Material Storage Area 41

Attachment D
OHM Site Assessment Log

SITE ASSESSMENT LOG

MCAS EL TORO

TEMPORARY ACCUMULATION AREA & RFA SITE

18609, D.O. 70

TAA SITE: 114 RFA SITE: None SWMU NO. 38

Field Observations by: D. Rawal **Date:** 1/22/99

TAA area: Paved or Unpaved None observed

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

Unpaved: Open on the Ground or Inside the Building

Is there any Drums or any types of Waste Stored: Yes/No, If Yes, Describe: No, Per Building 114 Personnel they are using TAA 779 for all their waste storage. No TAA ever existed at Building 114.

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

Describe other Structural details: Building 114 is a maint. Hanger for Helecopters repairs.

TAA Decontamination and/or Demolition Possible: Yes/No N/A

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

Nearest Building or Structure Distance: Building 698 Appx. 150 feet.

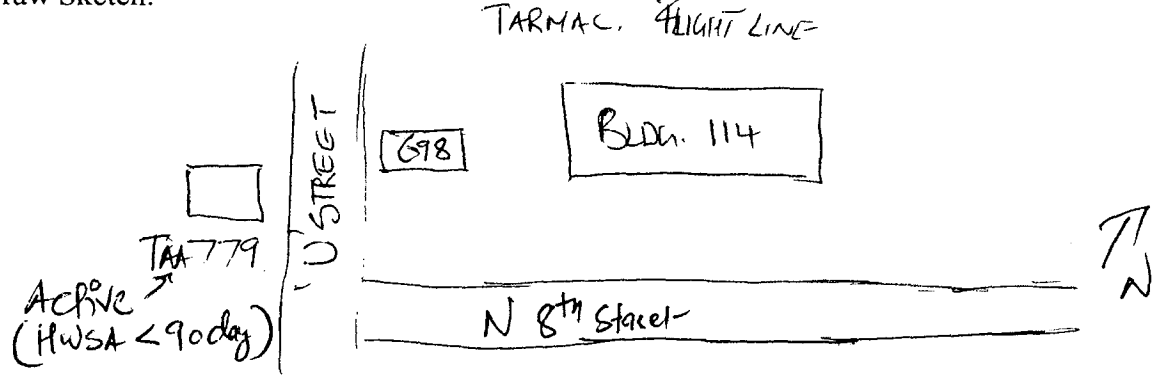
Any Underground Piping/Lines, or Transformer Observed: None

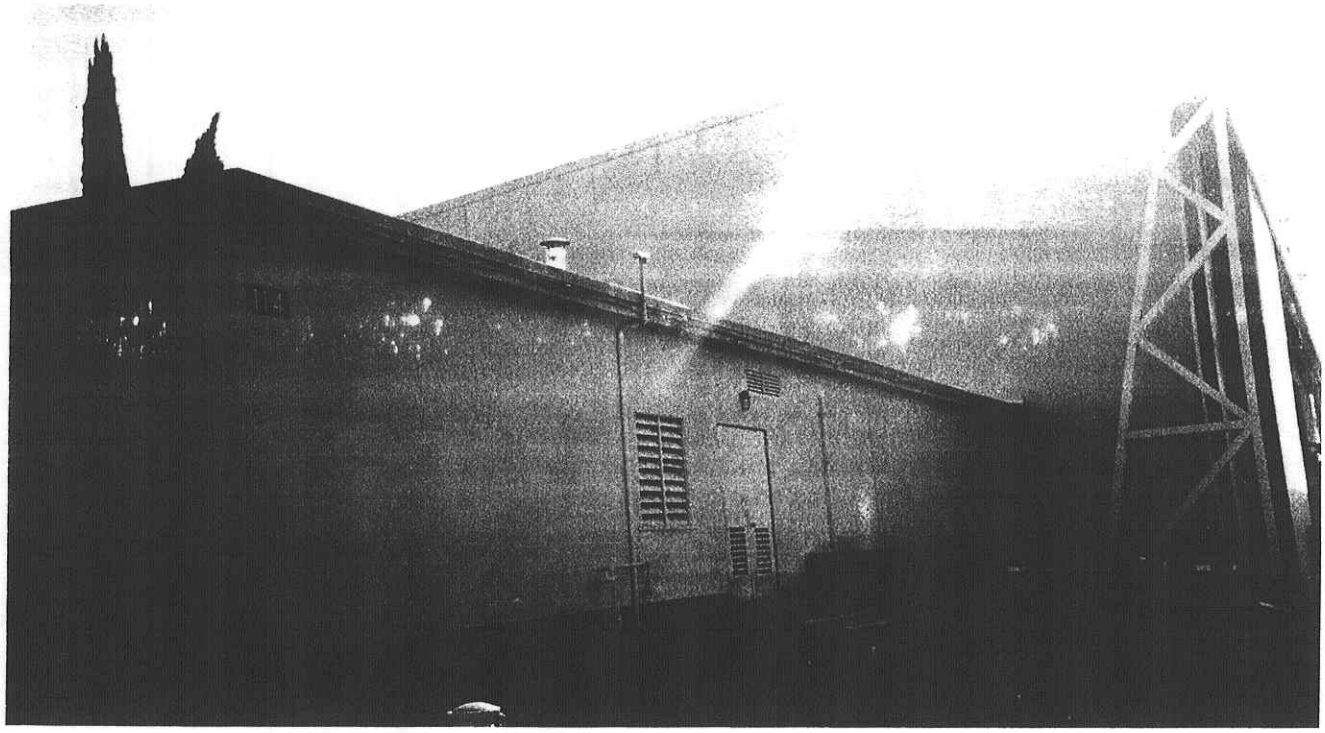
Overhead Utility Lines/Poles: N/A

Bldg 114 is a maint. Hanger, Only waste they generate is waste oil from helecopter & they transfer these into drums at TAA 779.

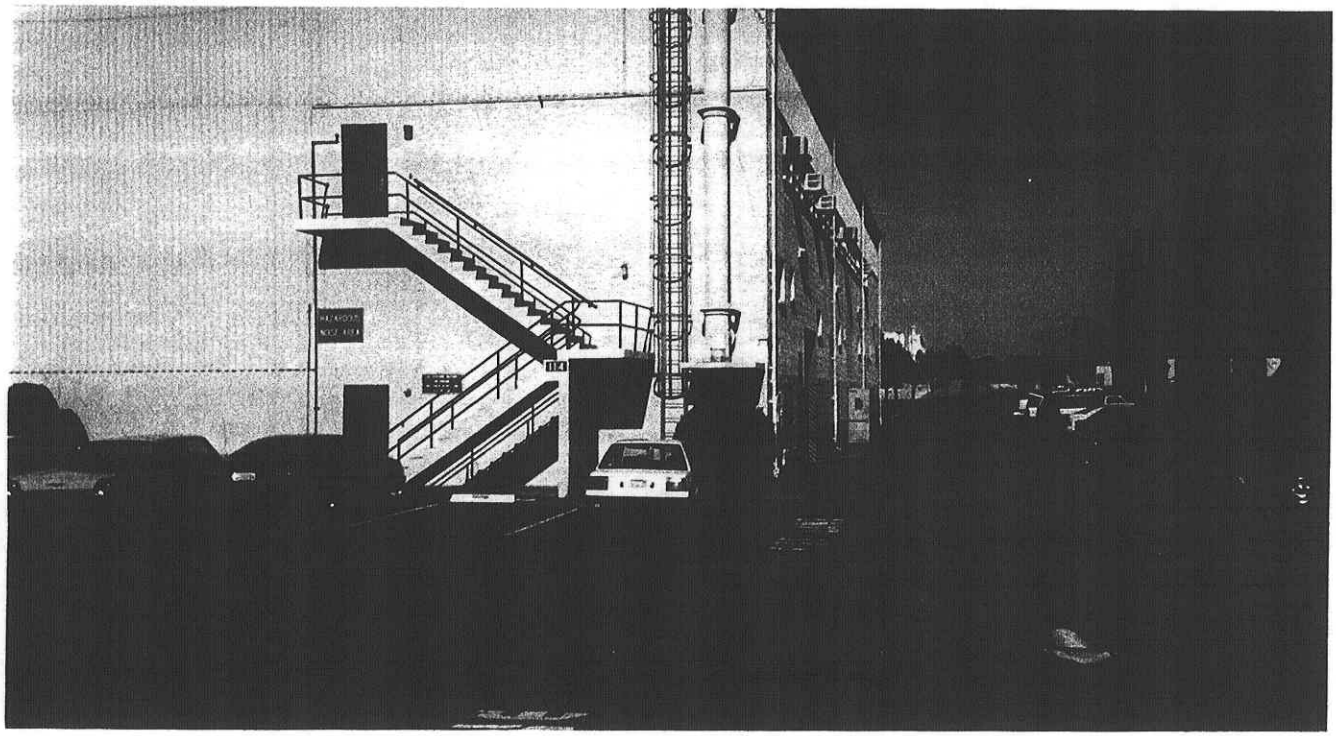
Photograph Roll No. 2. Please attach all the Photographs to this sheet.

Draw Sketch:





TAA 114 - Current condition of the Building 114 area. No TAA 114 was observed.



Attachment E
Excerpts from March 1998 Base Realignment and Closure Cleanup Plan

United States Marine Corps

Base Realignment and Closure Cleanup Plan (BCP)

For

Marine Corps Air Station El Toro, CA

March 1998

Table 3-1a
Site Summary
(Sheet 20 of 37)

Seq. No.	Database Tracking	Previous Parcel	New Parcel	Description	Material Disposed	Date of Operation	Status	Risk to Human Health and the Environment[1]	Regulatory Mechanism	NFA	Comments	ECP Area Type[5]
491	AST 619	3F	J2	size unknown	Diesel (stored)		Active				See Table 3-8	2
492	AST 637	2A	R	500 gallons	Propane (stored)		Removed			X	See Table 3-8; not plotted on BCP Figures	1*
493	AST 651	1G	C2	1,000 gallons - HT	Propane (stored)		Active				See Table 3-8	2
494	AST 464			500 gallons	Propane (stored)		Active				See Table 3-8	
495	AST 670	1G	C1	1,000 gallons	Liquid Propane Gas (stored)		Removed			X	See Table 3-8; not plotted on BCP figures	1*
496	AST 717	5A	A1	500 gallons - HT	Diesel (stored)		Active				See Table 3-8	2
497	AST 753	4A	A2	200 gallons - HT	Pesticides (stored)		Active				See Table 3-8	7*
498	AST 797	5A		1,000 gallons - HT	Waste Oil (stored)		Inactive				See Table 3-8	2
499	AST 862	4B	A3	30,000 gallons - HT	JP-5 (stored)		Inactive				See Table 3-8	2
500	AST 883	1B	H2	1,000 gallons - rectangular tank (relocated from B626)	Empty, formerly waste oil (stored)		Removed				See Table 3-8	1
501	TAA 2	1A	H1	< 90-day accumulation area - Hanger 2			Active				See Table 3-9	3*
502	TAA 5A	5A	H1	< 90-day accumulation area-Bldg. 5			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 25	1
503	TAA 5B	1A	H1	< 90-day accumulation area-Bldg. 5			Active				See Tables 3-9 and 3-13; SWMU/AOC 26	6
504	TAA 7	5A	H1	< 90-day accumulation area-Bldg. 7			Inactive				See Table 3-9	1
505	TAA 10	1A	H1	< 90-day accumulation area-Bldg. 10			Active				See Tables 3-9 and 3-13; SWMU/AOC 27	1
506	TAA 19	1A	H1	< 90-day accumulation area-Bldg. 19			Inactive				See Table 3-9	7
507	TAA 22	1A	H1	< 90-day accumulation area-Bldg. 22			Active				See Table 3-9	3*
508	TAA 29A	1D	H2	< 90-day accumulation area-Bldg. 29			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 30	3
509	TAA 29B	1D	H2	< 90-day accumulation area-Bldg. 29			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 31	3
510	TAA 31A	1D	H2	< 90-day accumulation area-Bldg. 31			Active				See Tables 3-9 and 3-13; SWMU/AOC 272	1*
511	TAA 31B	1D	H2	< 90-day accumulation area-Bldg. 31			Inactive				See Table 3-9	3*
512	TAA 51	1D	H2	< 90-day accumulation area-Bldg. 51			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 33	6
513	TAA 77	1B	H2	< 90-day accumulation area-Bldg. 77			Inactive				See Table 3-9	7
514	TAA 114	5A	I1	< 90-day accumulation area-Bldg. 114			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 38	1

Table 3-9
Less-Than-90-Day Accumulation Areas
(Sheet 1 of 5)

Database Tracking	Building Number	Previous Parcel	New Parcel	Status	Closure Evaluation[1]	SWMU/ AOC No.	RFA Sampling	Comments	ECP Area Type[2]
TAA 2	2	1A	H1	Active	X	-		Identified in 1994 SPCC Plan. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	3*
TAA 5A	5	5A	H1	Active	X	25		Sampling visit not recommended during PR/VSI. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 5B	5	1A	H1	Active	X	26	X	Initial RFA recommended excavation of shallow stained soil. Site visited for RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	6
TAA 7	7	5A	H1	Inactive	X	-	X	Identified in 1994 SPCC Plan. In final RFA Addendum (BNI, 1996) nine samples collected from three locations; a "release" was not detected. Evaluation of removal and/or decontamination strategy proposed, and possible sampling.	1
TAA 10	10	1A	H1	Active	X	27	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 19	19	1A	H1	Inactive		-		Identified in Station's HW Open Drum Inspection Report.	7
TAA 22	22	1A	H1	Active	X	-		Identified in 1994 SPCC Plan. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	3*
TAA 29A	29	1D	H2	Inactive	X	30	X	Area has been cleaned as of 12/94; clean and vacant as of 11/95. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	3
TAA 29B	29	1D	H2	Inactive	X	31		Located within boundaries of IRP Site 15. Area has been cleaned as of 12/94; clean and vacant as of 11/95. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	3
TAA 31A	31	1D	H2	Active	X	272	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 31B	31	1D	H2	Active	X	-		Identified in 1994 SPCC Plan. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	3*
TAA 51	51	1D	H2	Inactive	X	33	X	Final RFA Addendum (BNI, 1996): excavation of shallow, stained soil, and evaluation of removal and/or decontamination strategy proposed.	6
TAA 77	77	1B	H2	Inactive		-		Identified in Station's HW Open Drum Inspection Report	7
RFA 35	96	4A[4]	A1	Inactive		35		Source: SPCC map (no date). Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*
TAA 114	114	5A	I1	Active	X	38		No materials present; no surface defects. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 115	115	5A	I1	Active	X	39	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	3
TAA 130C	130	2A	R	Inactive	X	42		Sampling visit not recommended during PR/VSI. Surface free of defects. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 130A	130	2A	R	Inactive	X	294		Sampling visit not recommended during PR/VSI. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 130B	130	2A	R	Inactive	X	295		Sampling visit not recommended during PR/VSI. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 155C	155	5A	K	Inactive	X	45	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*

RESULTS OF THE RECORD SEARCH

SWMU/AOC Name: Drum Storage Area (DSA).

TAA 242	SWMU/AOC No: 67	1998 BCP ID: 523

JEG's Final RCRA Facility Assessment Report, (1993) Notes: JEG identified a DSA, southeast of Building 242 and southwest corner of Tank Farm 2 as a SWMU 67. This DSA consist of concrete storage area with berm, sump, and roof. At the time of site visit, DSA was inactive and full of rainwater. JEG recommended no sampling visit at SWMU 67 since it was located within the IRP Site 13 boundary. Copy of the JEG RFA VSI Evaluation form for SWMU 67 is included in Attachment A.

JEG's Recommendations: None.

Bechtel's Final Addendum RCRA Facility Assessment Report [1996 (Notes)]: BNI identified a separate former DSA near Building 242 as a SWMU 67. Per BNI, 5 empty drums were observed and the former DSA had drums that held rags and debris from aircraft activities. No stains or waste were observed. No longer active as of November 1995. Copy of the BNI Accumulation Evaluation Checklist for SWMU 67 is included in Attachment B.

BNI's Recommendation: Evaluate Removal and/or decontamination strategy.

Station's Hazardous Materials / Waste Management Plan (August 1994) Notes: Station's HMWMP do not identify a DSA or TAA 242 at Building 242 as a less than 90 day storage facility or an accumulation point for storage of hazardous waste. Copies of the excerpts from the HMWMP listing accumulation points and hazardous materials storage area at MCAS El Toro are included in Attachment C.

OHM's Site Visit and Recommendations: OHM conducted a site visit on September 30, 1997 at Building 242. OHM discovered both JEG and BNI locations. JEG had mistakenly identified the same DSA twice as SWMU 67 and SWMU 266 (TAA 765). BNI had identified an active washrack location near Building 242 as a DSA under SWMU 67.

But based on the field site visit it was confirmed that there is only one HWSA exists near Building 242 [which is TAA 765 (SWMU 266)]. Per review of the JEG, BNI background documents and OHM site visit it was clear that SWMU 67 and SWMU 266 (TAA 765) are the same DSA. One DSA, SWMU 266 (TAA 765) was mistakenly identified twice.

OHM completed decontamination and sampling activities at SWMU 266 (TAA 765) in October 1997 and TAA 765 site was closed by Department of Toxic Substance (DTSC) in November 1998. OHM explained in TAA 765 report that SWMU 67 and SMU 266 (TAA 765) are the same DSA and DTSC acknowledged that TAA 765 is SWMU 266. Copies of the DTSC letter and OHM's Site Assessment Log are included in Attachment D.

Based on the review of the historical records from JEG, BNI, Station's HMWMP, and OHM VSI records, OHM concludes that TAA 242 (SWMU 67) and TAA 765 (SWMU 266) are the same and there is no separate DSA exist at Building 242. Therefore, **OHM recommends that Station delete the TAA 242 (BCP ID. 523) from the BCP list of Environmental Locations of Concern. (Table 3-1a Site Summary and Table 3-9 Less Than 90-Day Accumulation Areas).** Copies of the TAA 242 excerpts from the March 1998 BCP are included in Attachment E.

Attachment A
JEG RFA VSI Evaluation Form

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

VOLUME I

16 July 1993

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

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

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

In association with:
International Technology Corporation
CH2M HILL

Evaluation Form
SWMU/Area of Concern
Number 67

Unit Characteristics

The DSA is located southeast of Building 242 near the southwestern corner of Tank Farm 2. The DSA consists of a concrete storage area surrounded by a 6-in concrete berm and an aluminum roof. Around the DSA is unpaved soil. At the time of the site visit, the storage area was not being used. The inside of the DSA was covered with about 2 in. of water. Although it was difficult to inspect the surface of the storage area, the concrete appeared to be free of significant stains and cracks.

Waste Characteristics

Unknown

Migration Pathways

Soil

Evidence of Release

None observed

Exposure Potential

On-Station personnel

Recommendations

Although no evidence of a release was observed during the site visit, this DSA appears to be a potential past HWSA. A sampling visit is recommended for this area.

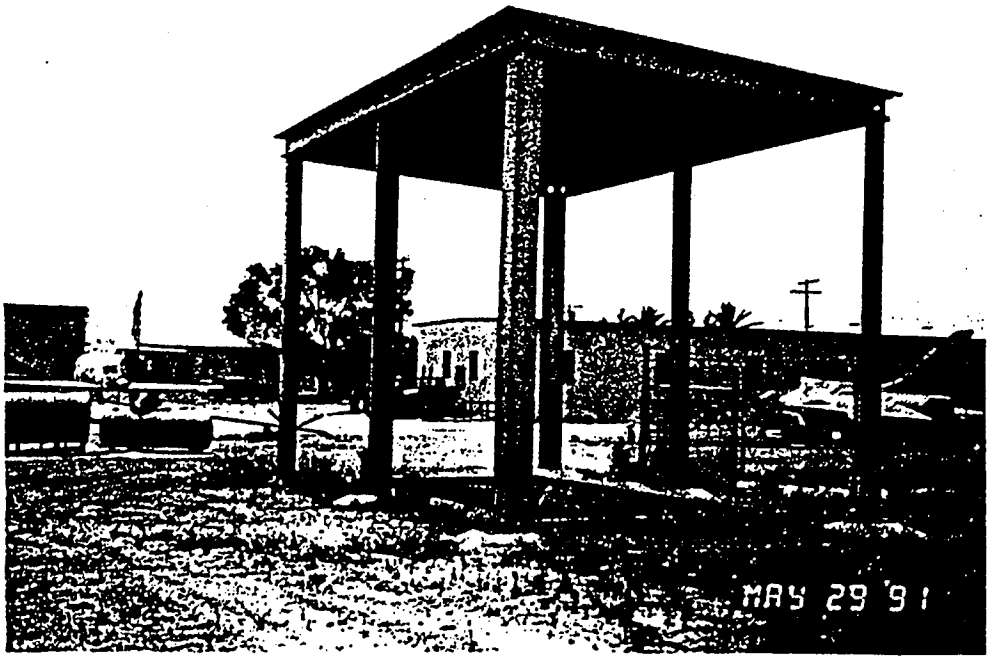
Evaluation Form
SWMU/Area of Concern
Number 67

Name: Drum Storage Area

Location: East of Building 242

Size: 144 sq ft

Date of Site Visit: 22 April 1991



Period of Operation

Currently inactive

TABLE 4-2
SWMUs AND AREAS OF CONCERN
RECOMMENDED FOR SAMPLING VISIT
MCAS EL TORO RFA

SWMU/ AOC NO.	TYPE	LOCATION/BUILDING
296	Oil/Water Separator	357
298	Underground Storage Tank	392
300	Spill Area, East of SWMU/AOC 194	746
301	Mark Arrest System (with UST)	East side of Runway 34R
302	Mark Arrest System (with UST)	West side of Runway 34R
303	Underground Storage Tank	359

NOTES:

(1) SWMUs/AOCs 67, 72, 217, and 218 were determined to be located within the boundaries of the RI/FS sites at the Station and were eliminated from sampling visits.

Attachment B
BNI VSI Accumulation Area Evaluation Check List

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

Contract No. N68711-92-D-4670

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY

CLEAN II

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

CTO-0065/0170

May 1996

Prepared by:

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

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

ACCUMULATION AREA EVALUATION CHECKLIST

(CIRCLE AS APPROPRIATE AND FILL IN COMPLETELY)

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

GENERAL DESCRIPTION:

SWMU: **67** Accumulation Area (AA) #: **242**
Location (bldg): **Drum Storage Area/Bldg. 242**
Site Contact: **Tom Dozier - Volunteer Museum Staff** Ext: **N/A**
Permission for Access? (Y) ~~N~~ If yes, explain: **Ask in the Museum for the key to open locked gate; Wed. & Fri. only**
Type of Wastes Observed **None**

TYPE: (CIRCLE AS APPROPRIATE)

~~Locker~~ ~~Cabinet~~ ~~Pad~~ ~~Concrete/Soil~~ (Asphalt) floor
~~Berm~~ ~~Fence~~ ~~Fence Type:~~ ~~Indoor~~
~~Pallets~~ (Drum(s)) No. of Drums: **5 - empty** (Outdoor)

CONDITION:

~~Stain(s)~~ ~~Odor(s)~~ ~~Crack(s)~~
Placards/Labels: ~~Y~~ (N) If Yes, list:

Observations: **Former drum storage area for drums that held rags and debris from aircraft restoration activities. No longer active.**
Status: **No change.**

DIMENSIONS: (ESTIMATED SIZE OR AREA IN FT)

AA/SWMU: **10x10 ft.**
"Stain(s)" : **None seen.**
Any Restrictions To Access?: **Aircraft parts all over the place, no access.**

EVALUATION OF REMOVAL/DECONTAMINATION STRATEGY (CIRCLE AS APPROPRIATE)

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

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

DATE/TIME OF SURVEILLANCE: 12/15/94/11:30
UPDATED: 11-10-95
SURVEILLANCE PERFORMED BY: Larry Bauman

PHOTO LOG

SWMU #: 67

PHOTO DATE: 12-15-94

Table 1-2
Temporary Accumulation Areas Evaluation Summary

SWMU[a]/TAA[b]	Description; Location	Proposed Action(s)
GROUP 1 TAAs - No SWMU number		
-[c]/TAA 2	HWSA[d]; Bldg. 2	Evaluate removal and/or decontamination strategy
-/TAA 7	HWSA; Bldg. 7	Evaluate removal and/or decontamination strategy; possible sampling
-/TAA 22	HWSA; Bldg. 22	Evaluate removal and/or decontamination strategy
-/TAA 31B	HWSA; Bldg. 31	Evaluate removal and/or decontamination strategy
-/TAA 370	HMS[e]/HWSA; Bldg. 370	Evaluate removal and/or decontamination strategy
-/TAA 634	HMS/HWSA; Bldg. 634	Evaluate removal and/or decontamination strategy
-/TAA 698	HMS/HWSA; Bldg. 698	Evaluate removal and/or decontamination strategy
-/TAA 744	HMS/HWSA; Bldg. 744	Evaluate removal and/or decontamination strategy
GROUP 2 TAAs - Have a SWMU number		
25/TAA 5A	Drum Storage Area; Bldg. 5	Evaluate removal and/or decontamination strategy
26/TAA 5B	Active HWSA; Bldg. 5	Excavate shallow stained soil, but not under this CTO[f], evaluate removal and/or decontamination strategy
27/TAA 10	HWSA; Bldg. 10	Evaluate removal and/or decontamination strategy
30/TAA 29A	Drum Storage Area; Bldg. 29	Evaluate removal and/or decontamination strategy
31/TAA 29B	Drum Storage Area; Bldg. 29	Evaluate removal and/or decontamination strategy
272/TAA 31A	HWSA; Bldg. 31	Evaluate removal and/or decontamination strategy
33/TAA 51	HWSA; Bldg. 51	Excavate shallow stained soil, but not under this CTO; evaluate removal and/or decontamination strategy
38/TAA 114	Drum Storage Area; Bldg. 114	Evaluate removal and/or decontamination strategy
39/TAA 115	HWSA; Bldg. 115	Evaluate removal and/or decontamination strategy
294/TAA 130A	Drum Storage Area; Bldg. 130	Evaluate removal and/or decontamination strategy
295/TAA 130B	Drum Storage Area; Bldg. 130	Evaluate removal and/or decontamination strategy
42/TAA 130C	Drum Storage Area; Bldg. 130	Evaluate removal and/or decontamination strategy
240/TAA 155A	Drum Storage Area; Bldg. 155	Evaluate removal and/or decontamination strategy
241/TAA 155B	HWSA; Bldg. 155	Evaluate removal and/or decontamination strategy
45/TAA 155C	HWSA; Bldg. 155	Evaluate removal and/or decontamination strategy
64/TAA 240	HWSA; Bldg. 240	Evaluate removal and/or decontamination strategy
67/TAA 242	Drum Storage Area; Bldg. 242	Evaluate removal and/or decontamination strategy
70/TAA 289	Drum Storage Area; Bldg. 289	Evaluate removal and/or decontamination strategy

(table continues)

Attachment C
List of Accumulation Points and Hazardous Material Storage Areas from Station's HMWMP.

Final

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

August 1994

Appendix I
Photographs of Accumulation Points and Hazardous Material Storage Areas

Prepared for:

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

Prepared by:

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

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

Accumulation Points and Hazardous Material Storage Locations
MCAS El Toro

Page No.

Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Supply 4
Supply 4
Combat Service Support Detachment 14 (CSSD 14) 5
Combat Service Support Detachment 14 (CSSD 14) 5
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Wing Support Squadron 373 (MWSS 373), Refuelers 9
Marine Wing Support Squadron 373 (MWSS 373), Headquarters 9
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 10
Morale, Welfare & Recreation Department (MWR), Golf Course 10
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine All Weather Fighter Attack Squadron 242 (VFMA (AW) 242) 12
Marine All Weather Fighter Attack Squadron 121 (VFMA (AW) 121) 12
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Aviation Logistics Squadron 11 (MALS 11), Avionics 14
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance 14
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 15
Marine All Weather Fighter Attack Squadron 225 (VFMA (AW) 225) 15
Maytag Aircraft Corporation 16
Maytag Aircraft Corporation 16
MOD Team 17
Marine Fighter Attack Squadron 323 (VFMA 323) 17
Marine Fighter Attack Squadron 314 (VFMA 314) 18
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 18
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 20
Squadron Operations & Maintenance Squadron (SOMS), Recovery 20
Marine Wing Support Squadron Utilities (MWSS Utilities) 21
Marine Wing Support Squadron Utilities (MWSS Utilities) 21

Accumulation Points, El Toro (Continued)

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Aero Club 22
Headquarters & Headquarters Squadron 38 (H&HS 38) 23
Marine Aircraft Group 46 (MAG 46) 23
Marine Aircraft Group 46 (MAG 46) 24
Marine Air Control Group 38 (MACG 38) 24
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Headquarters 26
Morale, Welfare & Recreation Department (MWR), Auto #1 26
Auto Hobby Shop 27
Armory 27
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 29
Environmental Above Ground Storge Tank 29
Environmental Above Ground Storge Tank 30

Hazardous Materials Storage Areas, El Toro

Headquarters & Headquarters Squadron 38 (H&HS 38), Storage Area 31
Aero Club, Storage Area 31
Marine Air Control Group 38 (MACG 38), Storage Area 32
Morale, Welfare & Recreation Department (MWR), Auto #1, Storage Area 32
Squadron Operations & Maint Squad (SOMS), HQ, Storage Area 33
Marine Fighter Attack Squadron 314 (VFMA 314), Storage Area 33
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 37
Marine Aviation Logistics Squadron 11 (MALS 11), Storage Area 37
Compressed Gas Cylinder Storage Area 38
Flammable Material Storage Area 38
Chemical Storage Area 39
Chemical Storage Area 39
Flammable Storage Area 40
Hospital Compressed Gas Storage Area 40
Hospital Flammable Material Storage Area 41

Attachment D
OHM Site Assessment Log

SITE ASSESSMENT LOG

MCAS EL TORO

TEMPORARY ACCUMULATION AREA & RFA SITE

18609, D.O. 70

TAA SITE: 765 RFA SITE: N/A SWMU NO. 266

Field Observations by: Dhananjay Raulal **Date:** 9/30/97

TAA area: (Paved) or Unpaved, Concrete Pad with blind sump, Roof, Surrounded by Unpaved area.

Paved: (Concrete) or Asphalt, Condition of the Concrete/Asphalt: Minor Cracks, Stains, etc.
Condition good, no cracks or heavy stains were observed.

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

Is there any Drums or any types of Waste Stored: Yes/No, If Yes, Describe:
None, empty,

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

Describe other Structural details: TAA is within IRP Site 13 Boundary, next to Bldg 765, Tank Farm 2 North of TAA, no cracks in concrete pad or berms

TAA Decontamination ~~and/or Demolition Possible~~: (Yes)/No

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

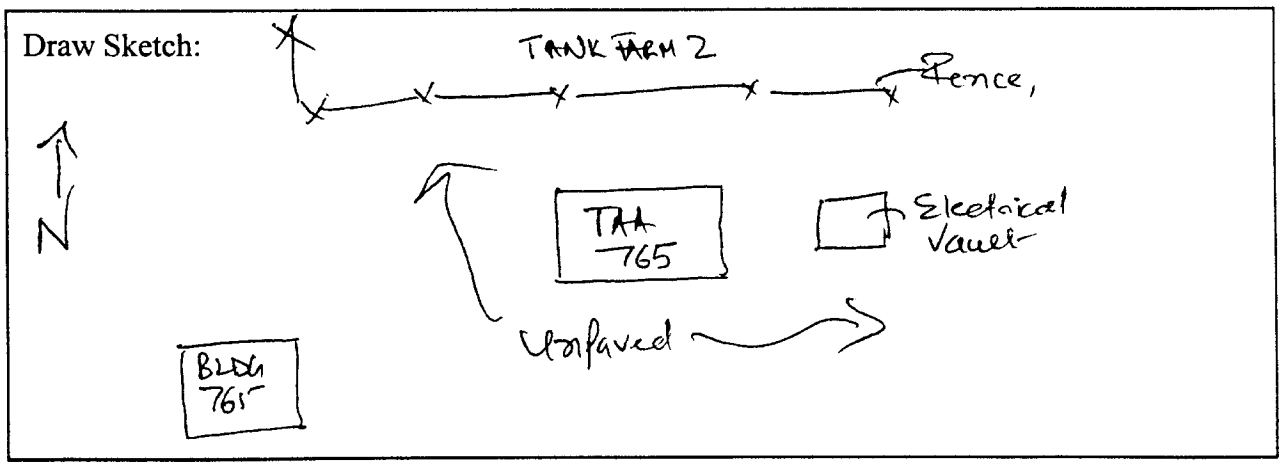
Nearest Building or Structure Distance: Tank Farm 2 approximately 20 feet, North,

Any Underground Piping/Lines, or Transformer Observed:
Electrical Vault,

Overhead Utility Lines/Poles: Not observed

Photograph Roll No. 14 Please attach all the Photographs to this sheet.

Draw Sketch:



Department of Toxic Substances Control

Jesse R. Huff, Director
5796 Corporate Avenue
Cypress, California 90630

Pete Wilson
Governor

Peter M. Rooney
Secretary for
Environmental
Protection

August 21, 1998

Mr. Joseph Joyce
BRAC Environmental Coordinator
U.S. Marine Corps Air Station - El Toro
P. O. Box 95001
Santa Ana, California 92709-5001

Dear Mr. Joyce:

CLOSURE REPORT FOR TEMPORARY ACCUMULATION AREA (TAA) 765 SITE AT MARINE CORPS AIR STATION (MCAS) El TORO

The Department of Toxic Substances Control (DTSC) has completed the review of the above subject document dated July 21, 1998, prepared by OHM Remediation Services Corp. As part of the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA), TAA 765 was identified as a hazardous waste drum storage area for storage less than 90 days. The report summarizes the decontamination and sampling activities performed at the TAA 765 site located in the northwest quadrant of the Station. According to the report, the Final RFA Addendum report dated May 1996 mistakenly identified this site twice, as Solid Waste Management Unit (SWMU) 67 and SWMU 266. Based on a site inspection, the report concludes that this drum storage area near Building 765 is SWMU 266 (TAA 765).

DTSC comments are as follows:

1. TAA 765 is located within Installation Restoration Program (IRP) Site 13. A "No Action" Record of Decision (ROD) was signed for IRP Site 13 in September 1997. The cleanup goal proposed for TAA 765 is industrial land use. However, IRP Site 13 was cleaned to residential land use with no institutional controls. Based on the data presented in the report, the types and concentrations of analytes detected at TAA 765 are comparable to and within the range of analytes detected at IRP Site 13. Therefore, the concentration of analytes may be within the acceptable health risk range for residential use. We request that the health risk values for a residential scenario be included for a side by side evaluation with the industrial risk values. A residential health risk level would be consistent with the IRP Site 13 ROD and eliminate the need for institutional controls for TAA 765 and ROD modifications. Please revise the text and Table 6-1,

Industrial Risk Screening Worksheet for Soil, to include both the industrial and residential health risk calculations. The Table should show: 1) the health risk after subtracting background health risk, and 2) the total risk without subtracting the background risk. If TAA 765 cannot be cleaned to residential land use, please submit ROD modifications to the agencies.

2. The Report referenced a 1996 United States Environmental Protection Agency (USEPA) Region IX Preliminary Remediation Goals (PRGs) list for risk screening. Please be aware that USEPA Region IX released a 1998 PRG list. The current list should always be used because it may affect the calculated health risk values. Please compare the 1998 PRG list with the 1996 list and determine whether revisions are needed to the health risk calculations.

If you have any questions, please call me at (714) 485-5418.

Sincerely,

Tayseer Mahmoud
Remedial Project Manager
Office of Military Facilities
Southern California Operations

cc: Mr. Glenn Kistner, SFD-8-2
Remedial Project Manager
U. S. Environmental Protection Agency
Region IX
Superfund Division
75 Hawthorne Street
San Francisco, California 94105-3901

Ms. Patricia Hannon
Remedial Project Manager
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

cc: Mr. Gregory F. Hurley
Restoration Advisory Board Co-chair
One Newport Place, Suite 1070
1301 Dove Street
Newport Beach, California 92660-2412

Mr. Bill Sedlak
OHM Remediation Services Corp.
2031 Main Street.
Irvine, California 92614

Ms. Lynn Hornecker
Remedial Project Manager
Naval Facilities Engineering Command
Southwest Division - Code 1831.LH
1220 Pacific Highway
San Diego, California 92132-5187

Department of Toxic Substances Control

Jesse R. Huff, Director
5796 Corporate Avenue
Cypress, California 90630

Pete Wilson
Governor

Peter M. Roone
Secretary fc
Environment:
Protectio

November 17, 1998

Mr. Joseph Joyce
BRAC Environmental Coordinator
U.S. Marine Corps Air Station - El Toro
P. O. Box 95001
Santa Ana, California 92709-5001

Dear Mr. Joyce:

CLOSURE REPORT APPROVAL: TEMPORARY ACCUMULATION AREA (TAA) 765 SITE AT MARINE CORPS AIR STATION (MCAS) El TORO

The Department of Toxic Substances Control (DTSC) has reviewed your response to comments dated October 15, 1998 on the above subject document, prepared by OHM Remediation Services Corp. As part of the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA), TAA 765 was identified as a hazardous waste drum storage area for storage less than 90 days. The report summarizes the decontamination and sampling activities performed at the TAA 765 site located in the northwest quadrant of the Station.

DTSC is satisfied that comments emanating from our August 21, 1998 letter on the draft report have been adequately addressed in this submittal. As such, we hereby approve the closure report.

However, although the report conclusions are consistent with the risk assessment, we have the following comments regarding the risk calculations:

1) Residential risks and hazards are summarized in Table 6-1. The only chemicals of potential concern in soil are metals. Cancer risk at TAA 765 is due entirely to arsenic, and concentrations of arsenic at TAA 765 are within the ambient range. Thus, site-related cancer risks are insignificant.

2) The summed hazard index shown in Table 6-1 is 1.31, but this is an overestimate. Only thallium was actually detected at a concentration above the ambient range. The hazard quotient for thallium is 0.865. Thus, the actual estimate of hazard for the residential setting is less than 1.0.

3) In Tables 6-1 and 6-2, the ambient hazard was subtracted from hazard at the site. This method is incorrect for non-carcinogenic hazards; please ensure that this method is not used in future reports. The toxicity criteria used for estimating non-cancer hazards are based on toxic effects exhibiting thresholds. Once the threshold is exceeded, the portions of the hazard quotient contributed by the site and by ambient conditions are immaterial. It is appropriate to subtract ambient concentrations for carcinogens.

4) Procedures for estimating carcinogenic and non-carcinogenic hazards are described in Chapter 2, Section 3.4, "Correction for Background", in *Supplemental Guidance for Human Health Multimedia Risk Assessment for Hazardous Waste Sites and Permitted Facilities* (DTSC, 1992; http:/cwo.com/~herdl/downset.htm).

If you have any questions, please contact Mr. Tayseer Mahmoud, Remedial Project Manager, at (714) 485-5418.

Sincerely,

Sharon Fair
Unit Chief
Base Closure Unit
Office of Military Facilities

cc: Mr. Glenn Kistner, SFD-8-2
Remedial Project Manager
U. S. Environmental Protection Agency
Region IX
Superfund Division
75 Hawthorne Street
San Francisco, California 94105-3901

Ms. Patricia Hannon
Remedial Project Manager
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Attachment E
Excerpts from March 1998 Base Realignment and Closure Cleanup Plan

United States Marine Corps

Base Realignment and Closure Cleanup Plan (BCP)

For

Marine Corps Air Station El Toro, CA

March 1998

Table 3-1a
Site Summary
(Sheet 21 of 37)

Seq. No.	Database Tracking	Previous Parcel	New Parcel	Description	Material Disposed	Date of Operation	Status	Risk to Human Health and the Environment[1]	Regulatory Mechanism	NFA	Comments	ECP Area Type[1]
515	TAA 115	5A	I1	< 90-day accumulation area-Bldg. 115			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 39	3
516	TAA 130A	2A	R	< 90-day accumulation area-Bldg. 130			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 294	1
517	TAA 130B	2A	R	< 90-day accumulation area-Bldg. 130			Active				See Tables 3-9 and 3-13; SWMU/AOC 295	1
518	TAA 130C	2A	R	< 90-day accumulation area Bldg. 130			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 42	1
519	TAA 155A	5A	K	< 90-day accumulation area-Bldg. 155			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 240	1
520	TAA 155B	5A	K	< 90-day accumulation area-Bldg. 155			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 241	1*
521	TAA 155C	5A	K	< 90-day accumulation area-Bldg. 155			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 45	1*
522	TAA 240	1A	H1	< 90-day accumulation area-Bldg. 240			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 64	1
523	TAA 242	1A	H1	< 90-day accumulation area-Bldg. 242			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 67	1*
524	TAA 289	5A	H1	< 90-day accumulation area-Bldg. 289			Active				See Tables 3-9 and 3-13; SWMU/AOC 70	1*
525	TAA 297	5A		< 90-day accumulation area-Bldg. 297			Active				See Tables 3-9 and 3-13; SWMU/AOC 73	1*
526	TAA 298	4A	A2	< 90-day accumulation area-Bldg. 298			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 83	1
527	TAA 306	4A	A2	< 90-day accumulation area-Bldg. 306			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 88	6
528	TAA 307	4A	A2	< 90-day accumulation area-Bldg. 307			Active				See Table 3-9	7
529	TAA 314	4A	A1	Fuel storage locker-Bldg. 314			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 269	1*
530	TAA 317	4B	A4	< 90-day accumulation area-Bldg. 317			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 93	1
531	TAA 357	4A	A1	< 90-day accumulation area - Bldg. 357			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 97	1
532	TAA 359A	4B	A4a	< 90-day accumulation area-Bldg. 359			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 254	1
533	TAA 359B	4B	A4a	< 90-day accumulation area-Bldg. 359			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 99	1*
534	TAA 370	4A	A2	Hazardous material storage/ < 90-day accumulation area-Bldg. 370			Active				See Table 3-9	7
535	TAA 371A	5A	B1	< 90-day accumulation area-Bldg. 371			Active				See Tables 3-9 and 3-13; SWMU/AOC 107	1
536	TAA 371B	5A	B1	< 90-day accumulation area-Bldg. 371			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 242	1*
537	TAA 386	4A	A2	< 90-day accumulation area-Bldg. 386			Active				See Tables 3-9 and 3-13; SWMU/AOC 114	1

Table 3-9
Less-Than-90-Day Accumulation Areas
(Sheet 2 of 5)

Database Tracking	Building Number	Previous Parcel	New Parcel	Status	Closure Evaluation[1]	SWMU/ AOC No.	RFA Sampling	Comments	ECP Area Type[2]
TAA 155A	155	5A	K	Inactive	X	240		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 155B	155	5A	K	Inactive	X	241	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 47	172	3F[4]	J2	Inactive		47		Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*
TAA 240	240	1A	H1	Inactive	X	64		Newly constructed; no release observed. Sampling visit not recommended during PR/VSI. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 242	242	1A	H1	Active	X	67		Located within boundaries of IRP Site 13. Sampling visit not recommended during PR/VSI. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 289	289	5A	H1	Active	X	70	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 71	295	5A	A1	Active		71		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 7, but will not be addressed under the IR Program.	6
RFA 72	296	5A	A1	Active		72		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 7, but will not be addressed under the IR Program.	6
TAA 297	297	5A		Active	X	73	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 298	298	4A	A2	Inactive	X	83	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 306	306	4A	A2	Inactive	X	88	X	Final RFA Addendum (BNI, 1996): PCBs detected in shallow soils (0 - 2 feet). Recommended transfer to the RAC for surface soil removal action.	6
TAA 307	307	4A	A2	Active		-		Identified in Station's HW Open Drum Inspection Report	7
TAA 314	314	4A	A1	Inactive	X	269	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 317	317	4B	A4	Inactive	X	93		Detergent storage only. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
RFA 94	320	4B[4]	A4	Active		94		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 21, but will not be addressed under the IR Program.	6
TAA 357	357	4A	A1	Inactive	X	97		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 359B	359	4B	A4a	Inactive	X	99	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 359A	359	4B	A4a	Inactive	X	254		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
RFA 104	360	5A[4]	A4b	Inactive		104		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 8, but will not be addressed under the IR Program.	6
RFA 105	360	5A[4]	A4b	Inactive		105		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 8, but will not be addressed under the IR Program.	6
RFA 106	360	5A[4]	A4b	Inactive		106		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 8, but will not be addressed under the IR Program.	6

Table 3-9
Less-Than-90-Day Accumulation Areas
(Sheet 5 of 5)

Database Tracking	Building Number	Previous Parcel	New Parcel	Status	Closure Evaluation[1]	SWMU/ AOC No.	RFA Sampling	Comments	ECP Area Type[2]
TAA 765	765	3F	J2	Inactive	X	266		Surface free of defects. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 769	769	4A	A2	Inactive	X	222	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 770	770	4A	A2	Active	X	223	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 771	771	1D	H2	Inactive	X	224	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 772	772	3F	J2	Inactive	X	225	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 778	778	5A		Inactive	X	226	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 779	779	5A	H1	Inactive	X	227	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 800	800	4B	A4b	Active	X	229	X	Sump is a 2 inch-diameter PVC pipe and cap that appears watertight. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed, and possible sampling. NFA pending Station closure.	1
TAA 831	831	3A	B1	Inactive		-		Identified in Station's HW Open Drum Inspection Report	7
TAA 856	856	3A	B1	Inactive	X	234	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 900	900	2A		Active		-		Environmental Office accumulation area	7
RFA 237	1700	-		Inactive		237		Source: SPCC map (no date). Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*
RFA 238	1727	4A[4]	A2	Inactive		238		Source: SPCC map (no date). Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*

Sources: Bechtel National, Inc. 1996. MCAS El Toro final Addendum to the Final RCRA Facility Assessment.
Jacobs 1993. MCAS El Toro Final RCRA Facility Assessment Report.
MCAS El Toro Hazardous Waste Open Drum Inspection Report Sheet
SAIC 1994. Draft Oil and Hazardous Substances Spill Prevention and Countermeasure Plan and Contingency Plan (SPCC)

Notes:
[1] Accumulation areas are currently being evaluated for removal and/or decontamination strategies.
[2] An asterisk following an area type indicates that the area type designation has changed since the March 1996 BCP.
[3] SWMUs/AOCs that were determined to be located within RI/FS site boundaries were eliminated from RFA sampling visits. However, these SWMUs/AOCs will be investigated in the appropriate Compliance Program, not in the IRP.
[4] These sites were not plotted on the GIS map because they were not evaluated under the PR/VSI. The parcels listed correspond to the nearest building location.

Abbreviations:
BCT - BRAC Cleanup Team
BNI - Bechtel National, Inc.
DHS - Department of Health Services
DTSC - Cal-EPA Department of Toxic Substances Control
EBS - Environmental Baseline Survey
ECP - environmental condition of property
GIS - geographical information system
HW - hazardous waste
IRP - Installation Restoration Program
MCAS - Marine Corps Air Station
NFA - no further action
PCB - polychlorinated biphenyl
PR/VSI - Preliminary Review/Visual Site Inspection performed as part of the RFA
PRGs - US EPA Preliminary Remediation Goals
RAC - Remedial Action Contractor
RFA - Resource Conservation and Recovery Act (RCRA) Facility Assessment
SI - Site Inspection
SPCC - Spill Prevention and Countermeasure Plan and Contingency Plan
SWMU/AOC - Solid Waste Management Unit/Area of Concern
TAA - temporary accumulation area

RESULTS OF THE RECORD SEARCH

SWMU/AOC Name: Hazardous Waste Storage Area (HWSA)

TAA 298	SWMU/AOC No: 83	1998 BCP ID: 526

JEG's Final RCRA Facility Assessment Report, (1993) Notes: During the VSI in May 1991, JEG team observed a HWSA at Building 298. It was a 20 x 25 feet concrete pad with berm and sump. Per JEG VSI, HWSA appears to be a washrack because the drain was leading into an existing active oil water separator 298C. JEG team observed some drums and also an AST to store waste oil. Some stains on the concrete pad and surrounding asphalt were observed. JEG recommended a sampling visit at this site. One, 60-feet deep angle soil boring was drilled and 6 soil samples were collected. No TPH, VOCs, SVOCs, Pesticides/PCBs, and Metal compounds were detected above the laboratory detection limits. A copy of the JEG RFA VSI Evaluation form is included in Attachment A.

JEG's Recommendations: Based on the review of the soil sampling data, No Further Action.

Bechtel's Final Addendum RCRA Facility Assessment Report [1996 (Notes)]: BNI visited Building 298 in November 1995 as part of VSI and discovered the same HWSA as a washpad. No sign of any hazardous waste storage area inside or outside of the building was observed. Per BNI, SWMU 83 is a washpad. Some rust and oil staining were observed. A copy of the BNI VSI Evaluation form is included in Attachment B.

BNI's Recommendation: Evaluate Removal and/or Decontamination Strategy.

Station's Hazardous Materials / Waste Management Plan (August 1994) Notes: Station's HMWMP do not identify a HWSA or TAA 298 at Building 298 as a less than 90 day storage facility or an accumulation point for storage of hazardous waste. A copy of the excerpt from the HMWMP, listing accumulation points and hazardous materials storage areas at MCAS El Toro is included in Attachment C.

OHM's Site Visit and Recommendations: OHM visited Building 298 in January 1999 and discovered that Building 298 is an active Garrison Mobile Equipment (GME) Maintenance facility. There was no physical evidence or sign of a current or former temporary HWSA at this facility. OHM observed that SWMU 83 washrack at Bldg. 298 was active and connected to active OWS 298C. A copy of the OHM's Site Assessment Log is included in Attachment D.

After reviewing JEG and BNI VSI record, it is obvious that no less than 90-day facility or an accumulation point for storage of hazardous waste ever existed at Building 298. Also JEG and BNI mistakenly identified an active washrack as a HWSA. During field visit JEG & BNI team observed some drums that were kept for washing at the washrack and mistakenly identified as a HWSA. Station will close the active washrack at Bldg.298 with OWS 298C after the operation closure of Building 298.

Based on the review of the historical records from JEG, BNI, Station's HMWMP, and OHM field VSI records, OHM concludes that no such HWSA exists at Building 298. Therefore, **OHM recommends that Station delete the TAA 298 (BCP ID. 526) from the BCP list of Environmental Locations of Concern (Table 3-1a Site Summary and Table 3-9 Less Than 90-Day Accumulation Areas).** Copies of the TAA 298 excerpts from the March 1998 BCP are included in Attachment E.

Attachment A
JEG RFA VSI Evaluation Form

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

VOLUME I

16 July 1993

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

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

In association with:
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CH2M HILL

10020667.SCO\93\MA

Evaluation Form
SWMU/Area of Concern
Number 83

Unit Characteristics

The HWSA is located about 50 ft southwest of Building 298 and adjacent to South Marine Rd. The HWSA measures 20 x 25 ft in size. It consists of a concrete storage area surrounded by a 5-in. concrete berm. The HWSA appears as though it was once a washrack because there is a drain located in the northwestern corner of the storage surface that leads to Oil/water Separator 298-C.

The berm on the southern side of the storage area is cracked horizontally where the berm connects with the storage surface. The crack is large enough that a spill could seep under the berm and onto the asphalt surface bordering the HWSA. There is a storm drain located about 2 ft from the southern side of the HWSA toward which a spill could possible migrate.

The storage surface is stained completely black. The storage area is used to store a 500-gallon waste oil tank, waste antifreeze, waste hydraulic/brake fluid, and an operational steam cleaner. Black sludge has built up along the inside, especially in the northwestern corner, and outside of the berm. The asphalt bordering the HWSA is also badly stained.

Waste Characteristics

Waste oil
Waste antifreeze
Waste hydraulic fluid
Oily water

Possible Migration Pathways

Oil/water separator
Storm drain
Soil

Evidence of Release

Badly stained storage surface and surrounding asphalt

Exposure Potential

On-Station personnel

Evaluation Form
SWMU/Area of Concern
Number 83

Recommendations

A sampling visit is recommended for this site

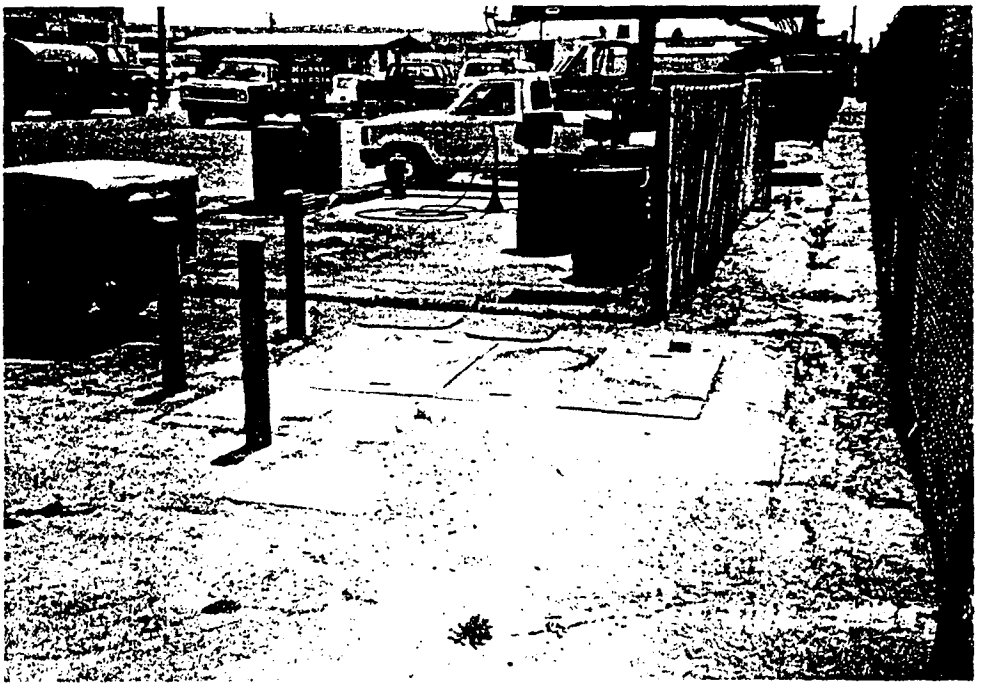
Evaluation Form
SWMU/Area of Concern
Number 83

Name: Hazardous Waste Storage Area

Location: West of Building 298

Size: 480 sq ft

Date of Site Visit: 14 May 1991



Period of Operation

Currently active

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						
83	Hazardous Waste Storage Area (28)	A1	10	ND	ND	ND	Methylene Chloride-7 BJ * Acetone-33 B * Toluene-2 J	Diethylphthalate-40 BJ * Di-n-butylphthalate-20 BJ *	ND	NAB	NFA	TPH/TFH < 100 ppm VOCs < CRDL SVOCs < CRDL Pest/PCB < CRDL Metals < BGT
			20	ND	ND	ND	Methylene Chloride-12 BJ * Acetone-34 B *	Diethylphthalate-37 BJ * Di-n-butylphthalate-46 BJ * Bis(2-Ethylhexyl)phthalate-29 J	ND	NAB		
			30	ND	ND	ND	Methylene Chloride-7 BJ * Acetone-4 J *	Diethylphthalate-25 BJ * Di-n-butylphthalate-31 BJ * Bis(2-Ethylhexyl)phthalate-33 J	ND	NAB		
			30 (Duplicate)	ND	ND	ND	Methylene Chloride-13 B * Acetone-6 BJ *	Diethylphthalate-41 J Di-n-butylphthalate-43 BJ *	ND	NAB		
			40	ND	ND	ND	Methylene Chloride-7 BJ * Acetone-5 J * Toluene-1 J	Diethylphthalate-33 BJ * Di-n-butylphthalate-27 BJ * Bis(2-Ethylhexyl)phthalate-20 J	ND	NAB		
			50	ND	ND	ND	Methylene Chloride-10 BJ * Acetone-10 BJ * Toluene-2 J	Diethylphthalate-24 BJ * Di-n-butylphthalate-96 BJ *	ND	NAB		
			60	ND	ND	ND	Methylene Chloride-16 B * Acetone-18 B * Toluene-2 J	Diethylphthalate-36 J Di-n-butylphthalate-64 BJ *	ND	NAB		

CRDL - Contract Required Detection Limit
BGT - Background Threshold Value

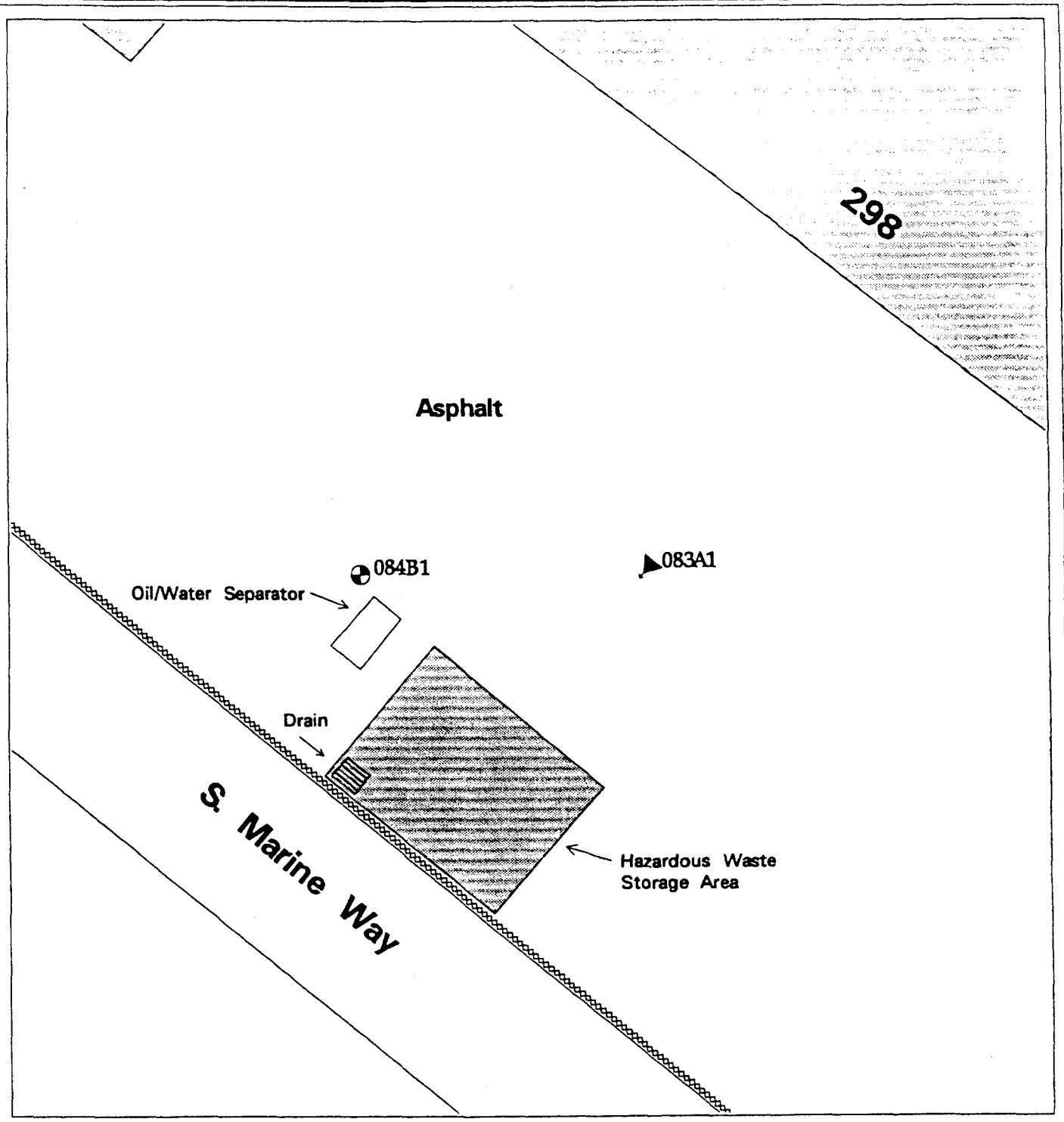


Figure 28 Sample Location Map

Boring Location and Number:

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

Features:

- Building
- Concrete
- Fence
- Railroad

Scale

0 10 20 40 Feet

SWMU/AOC Number and Type:

83 - Hazardous Waste Storage Area

84 - Oil/Water Separator

MCAS El Toro
RCRA Facility Assessment

Table 6-15
Recommendations for SWMUs/AOCs
MCAS El Toro RFA

SWMU No.	SWMU/AOC Type	Recommendation (FA/NFA)	Description of Further Action	Rationale for Further Action
3	Marshburn Channel	NFA	--	--
4	Bee Canyon Wash	NFA	--	--
5	Borrego Canyon Wash	NFA	--	--
6	Landfarming site	NFA	--	--
7	Transformer storage area	NFA	--	--
8	Abandoned Well 50-3285	NFA	--	--
9	Fuel bladder	NFA	--	--
11	Agua Chinon Wash	NFA	--	--
13	Drop Tank Storage Area	NFA	--	--
14	Drop Tank Fuel Storage Area	FA	Repair cracks in pavement	Prevent future migration of petroleum hydrocarbons
15	Wash Water Runoff Site	NFA	--	--
16	Wash Water Runoff Site	NFA	--	--
20	Underground Storage Tank	NFA	--	--
26	Hazardous Waste Storage Area	FA	Excavate shallow, stained soil	Moderate petroleum hydrocarbon contamination
27	Hazardous Waste Storage Area	NFA	--	--
30	Drum Storage Area	NFA	--	--
33	Hazardous Waste Storage Area	FA	Excavate shallow, stained soil	Petroleum hydrocarbon contamination
39	Hazardous Waste Storage Area	FA	Shallow soil borings	Potential for SVOCs and pesticides/PCBs in shallow soil
41	Vehicle Wash Rack	NFA	--	--
45	Drum Storage Area	NFA	--	--
46	Vehicle maintenance and parking	FA	Additional boring(s)	Petroleum hydrocarbon contamination, unknown extent
48	Underground Storage Tank	NFA	--	--
49	Underground Storage Tank	NFA	--	--
57	Underground Storage Tank	NFA	--	--
59	Underground Storage Tank	NFA	--	--
65	Underground Storage Tank	NFA	--	--
70	Hazardous Waste Storage Area	NFA	--	--
73	Hazardous Waste Storage Area	NFA	--	--
76	Oil/Water Separator	NFA	--	--
83	Hazardous Waste Storage Area	NFA	--	--

Table 6-15
Recommendations for SWMUs/AOCs
MCAS El Toro RFA

SWMU No.	SWMU/AOC Type	Recommendation (FA/NFA)	Description of Further Action	Rationale for Further Action
3	Marshburn Channel	NFA	--	--
4	Bee Canyon Wash	NFA	--	--
5	Borrego Canyon Wash	NFA	--	--
6	Landfarming site	NFA	--	--
7	Transformer storage area	NFA	--	--
8	Abandoned Well 50-3285	NFA	--	--
9	Fuel bladder	NFA	--	--
11	Agua Chinon Wash	NFA	--	--
13	Drop Tank Storage Area	NFA	--	--
14	Drop Tank Fuel Storage Area	FA	Repair cracks in pavement	Prevent future migration of petroleum hydrocarbons
15	Wash Water Runoff Site	NFA	--	--
16	Wash Water Runoff Site	NFA	--	--
20	Underground Storage Tank	NFA	--	--
26	Hazardous Waste Storage Area	FA	Excavate shallow, stained soil	Moderate petroleum hydrocarbon contamination
27	Hazardous Waste Storage Area	NFA	--	--
30	Drum Storage Area	NFA	--	--
33	Hazardous Waste Storage Area	FA	Excavate shallow, stained soil	Petroleum hydrocarbon contamination
39	Hazardous Waste Storage Area	FA	Shallow soil borings	Potential for SVOCs and pesticides/PCBs in shallow soil
41	Vehicle Wash Rack	NFA	--	--
45	Drum Storage Area	NFA	--	--
46	Vehicle maintenance and parking	FA	Additional boring(s)	Petroleum hydrocarbon contamination, unknown extent
48	Underground Storage Tank	NFA	--	--
49	Underground Storage Tank	NFA	--	--
57	Underground Storage Tank	NFA	--	--
59	Underground Storage Tank	NFA	--	--
65	Underground Storage Tank	NFA	--	--
70	Hazardous Waste Storage Area	NFA	--	--
73	Hazardous Waste Storage Area	NFA	--	--
76	Oil/Water Separator	NFA	--	--
83	Hazardous Waste Storage Area	NFA	--	--

Attachment B
BNI VSI Accumulation Area Evaluation Check List

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

Contract No. N68711-92-D-4670

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY

CLEAN II

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

CTO-0065/0170

May 1996

Prepared by:

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

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

ACCUMULATION AREA EVALUATION CHECKLIST

(CIRCLE AS APPROPRIATE AND FILL IN COMPLETELY)

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

GENERAL DESCRIPTION:

SWMU: **83** Accumulation Area (AA) #: **298**
Location (bldg): **Drum Storage Area/Bldg. 298**
Site Contact: **Leta Suarez** Ext: **2772**
Permission for Access? ~~Y~~ N If yes, explain:
Type of Wastes Observed **None**

TYPE: (CIRCLE AS APPROPRIATE)

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

CONDITION:

Stain(s) ~~Odor(s)~~ ~~Crack(s)~~
Placards/Labels: ~~Y~~ N If Yes, list:

Observations: **Currently a washpad; Some rust and oil staining.**
Status: **Area is clear as of 11-10-95.**

DIMENSIONS: (ESTIMATED SIZE OR AREA IN FT)

AA/SWMU: **10x15ft.**
"Stain(s)" : **Slight rust and oil stain. Worth considering decontamination.**
Any Restrictions To Access?: **None.**

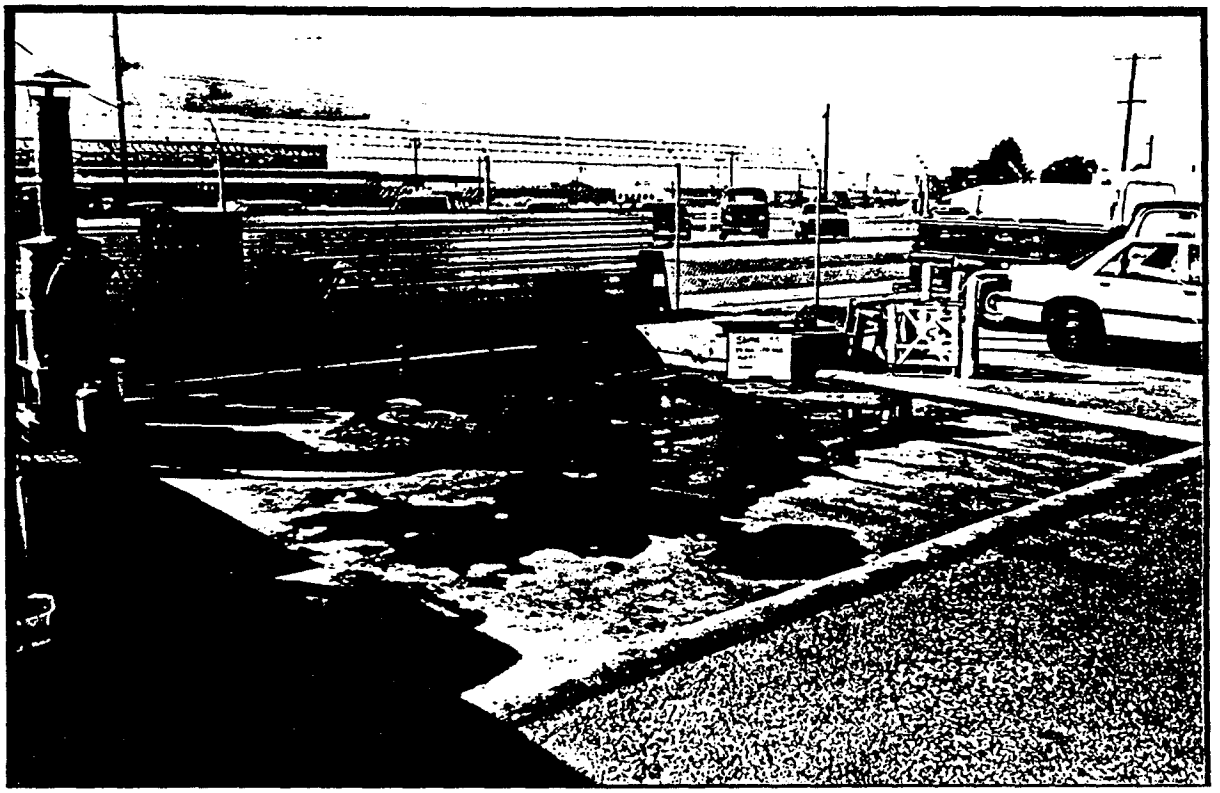
EVALUATION OF REMOVAL/DECONTAMINATION STRATEGY (CIRCLE AS APPROPRIATE)

Yes No Potential for release evident based on this surveillance
Yes No Potential for simple removal
Yes No Potential for decontamination activities prior to removal
Yes No Potential for sampling (describe: **Rinsate of oily stains**)
Yes No Potential for removal after additional assessment activities

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

DATE/TIME OF SURVEILLANCE: 12-2-94/10:55
UPDATED: 11-10-95/11:16
SURVEILLANCE PERFORMED BY: Larry Bauman

PHOTO LOG



SWMU #: 83

PHOTO DATE: 12-14-94

Table 1-2 (continued)

SWMU[a]/TAA[b]	Description; Location	Proposed Action(s)
GROUP 2 TAAs (continued)		
73/TAA 297	Drum Storage Area; Bldg. 297	Evaluate removal and/or decontamination strategy
83/TAA 298	Drum Storage Area; Bldg. 298	Evaluate removal and/or decontamination strategy
88/TAA 306	HWSA; Bldg. 306	Evaluate removal and/or decontamination strategy
269/TAA 314	HWSA; Bldg. 314	Evaluate removal and/or decontamination strategy
93/TAA 317	Drum Storage Area; Bldg. 317	Evaluate removal and/or decontamination strategy
97/TAA 357	Drum Storage Area; Bldg. 357	Evaluate removal and/or decontamination strategy
254/TAA 359A	Drum Storage Area; Bldg. 359A	Evaluate removal and/or decontamination strategy
99/TAA 359B	HWSA; Bldg. 359B	Evaluate removal and/or decontamination strategy
107/TAA 371A	HWSA; Bldg. 371A	Evaluate removal and/or decontamination strategy
242/TAA 371B	HWSA; Bldg. 371	Evaluate removal and/or decontamination strategy
114/TAA 386	Drum Storage Area; Bldg. 386	Evaluate removal and/or decontamination strategy
116/TAA 388A	HWSA; Bldg. 388	Evaluate removal and/or decontamination strategy
251/TAA 388B	Drum Storage Area; Bldg. 388	Evaluate removal and/or decontamination strategy
119/TAA 389A	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
259/TAA 389B	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
122/TAA 390A	Drum Storage Area; Bldg. 390	Evaluate removal and/or decontamination strategy
261/TAA 390B	HWSA; Bldg. 390	Evaluate removal and/or decontamination strategy
124/TAA 392A	Drum Storage Area; Bldg. 392	Evaluate removal and/or decontamination strategy
271/TAA 392B	HWSA; Bldg. 392	Evaluate removal and/or decontamination strategy
252/TAA 398	HWSA; Bldg. 398	Evaluate removal and/or decontamination strategy
256/TAA 441	HWSA; Bldg. 441	Evaluate removal and/or decontamination strategy
126/TAA 442	HWSA; Bldg. 442	Evaluate removal and/or decontamination strategy
127/TAA 445	Drum Storage Area; Bldg. 445	Evaluate removal and/or decontamination strategy
130/TAA 447	Drum Storage Area; Bldg. 447	Evaluate removal and/or decontamination strategy
135/TAA 456	Drum Storage Area; Bldg. 456	Evaluate removal and/or decontamination strategy
138/TAA 461	HWSA; Bldg. 461	Evaluate removal and/or decontamination strategy
140/TAA 462	HWSA; Bldg. 462	Evaluate removal and/or decontamination strategy
144/TAA 529	HWSA; Bldg. 529	Evaluate removal and/or decontamination strategy
146/TAA 534	Drum Storage Area; Bldg. 534	Evaluate removal and/or decontamination strategy

(table continues)

Attachment C
List of Accumulation Points and Hazardous Material Storage Areas from Station's HMWMP.

Final

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

August 1994

Appendix I
Photographs of Accumulation Points and Hazardous Material Storage Areas

Prepared for:

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

Prepared by:

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

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

Accumulation Points and Hazardous Material Storage Locations
MCAS El Toro

Page No.

Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Supply 4
Supply 4
Combat Service Support Detachment 14 (CSSD 14) 5
Combat Service Support Detachment 14 (CSSD 14) 5
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Wing Support Squadron 373 (MWSS 373), Refuelers 9
Marine Wing Support Squadron 373 (MWSS 373), Headquarters 9
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 10
Morale, Welfare & Recreation Department (MWR), Golf Course 10
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine All Weather Fighter Attack Squadron 242 (VFMA (AW) 242) 12
Marine All Weather Fighter Attack Squadron 121 (VFMA (AW) 121) 12
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Aviation Logistics Squadron 11 (MALS 11), Avionics 14
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance 14
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 15
Marine All Weather Fighter Attack Squadron 225 (VFMA (AW) 225) 15
Maytag Aircraft Corporation 16
Maytag Aircraft Corporation 16
MOD Team 17
Marine Fighter Attack Squadron 323 (VFMA 323) 17
Marine Fighter Attack Squadron 314 (VFMA 314) 18
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 18
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 20
Squadron Operations & Maintenance Squadron (SOMS), Recovery 20
Marine Wing Support Squadron Utilities (MWSS Utilities) 21
Marine Wing Support Squadron Utilities (MWSS Utilities) 21

Accumulation Points, El Toro (Continued)

Page No.

Marine Wing Headquarters Squadron 3 (MWHS 3) 22
Aero Club 22
Headquarters & Headquarters Squadron 38 (H&HS 38) 23
Marine Aircraft Group 46 (MAG 46) 23
Marine Aircraft Group 46 (MAG 46) 24
Marine Air Control Group 38 (MACG 38) 24
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Headquarters 26
Morale, Welfare & Recreation Department (MWR), Auto #1 26
Auto Hobby Shop 27
Armory 27
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 29
Environmental Above Ground Storge Tank 29
Environmental Above Ground Storge Tank 30

Hazardous Materials Storage Areas, El Toro

Headquarters & Headquarters Squadron 38 (H&HS 38), Storage Area 31
Aero Club, Storage Area 31
Marine Air Control Group 38 (MACG 38), Storage Area 32
Morale, Welfare & Recreation Department (MWR), Auto #1, Storage Area 32
Squadron Operations & Maint Squad (SOMS), HQ, Storage Area 33
Marine Fighter Attack Squadron 314 (VFMA 314), Storage Area 33
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 37
Marine Aviation Logistics Squadron 11 (MALS 11), Storage Area 37
Compressed Gas Cylinder Storage Area 38
Flammable Material Storage Area 38
Chemical Storage Area 39
Chemical Storage Area 39
Flammable Storage Area 40
Hospital Compressed Gas Storage Area 40
Hospital Flammable Material Storage Area 41

Attachment D
OHM Site Assessment Log

SITE ASSESSMENT LOG

MCAS EL TORO

TEMPORARY ACCUMULATION AREA & RFA SITE

18609, D.O. 70

TAA SITE: 298 RFA SITE: N/A. SWMU NO. 83

Field Observations by: D. Rawal **Date:** 1/22/99

TAA area: Paved or Unpaved None. NO TAA exists at Building 298. A Washrack (active) was mistaken ~~to~~ for TAA by JEG. Empty drums were observed for washing.

Paved: Concrete or Asphalt, Condition of the Concrete/Asphalt: Minor Cracks, Stains, etc. None,

Unpaved: Open on the Ground or Inside the Building No,

Is there any Drums or any types of Waste Stored: Yes/No, If Yes, Describe: None. Washrack active for washing vehicles & other empty drums. No Haz. Waste Storage area.

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

Describe other Structural details: Building 298 is GME facility for Station. Active for vehicle maintenance and other repair activities.

TAA Decontamination and/or Demolition Possible: Yes/No None, No TAA ever existed.

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

Nearest Building or Structure Distance: N/A Building 368, Public Works Office, Appx 25 feet South.

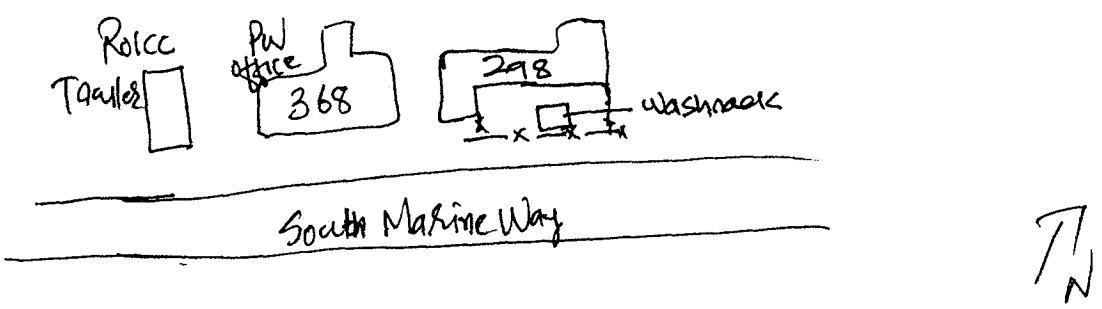
Any Underground Piping/Lines, or Transformer Observed: None

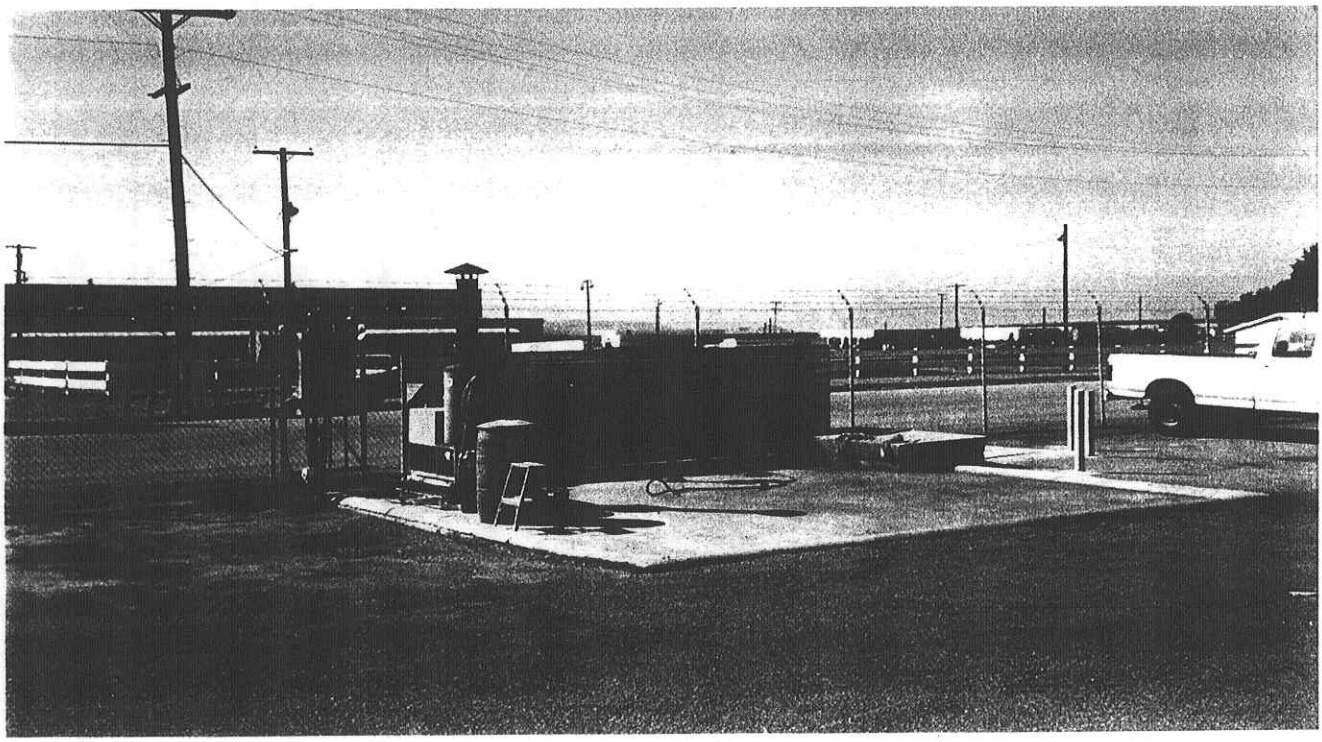
Overhead Utility Lines/Poles: N/A

No TAA 298 ever existed at Building 298. Active washrack exists.

Photograph Roll No. 3 Please attach all the Photographs to this sheet.

Draw Sketch:





TAA 298 - Current condition of the Active Washrack at Building 298 area. Washrack was active but no TAA 298 was observed.

Attachment E
Excerpts from March 1998 Base Realignment and Closure Cleanup Plan

United States Marine Corps

Base Realignment and Closure Cleanup Plan (BCP)

For

Marine Corps Air Station El Toro, CA

March 1998

Table 3-1a
Site Summary
(Sheet 21 of 37)

Seq. No.	Database Tracking	Previous Parcel	New Parcel	Description	Material Disposed	Date of Operation	Status	Risk to Human Health and the Environment[1]	Regulatory Mechanism	NFA	Comments	ECP Area Type[4]
515	TAA 115	5A	I1	< 90-day accumulation area-Bldg. 115			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 39	3
516	TAA 130A	2A	R	< 90-day accumulation area-Bldg. 130			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 294	1
517	TAA 130B	2A	R	< 90-day accumulation area-Bldg. 130			Active				See Tables 3-9 and 3-13; SWMU/AOC 295	1
518	TAA 130C	2A	R	< 90-day accumulation area-Bldg. 130			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 42	1
519	TAA 155A	5A	K	< 90-day accumulation area-Bldg. 155			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 240	1
520	TAA 155B	5A	K	< 90-day accumulation area-Bldg. 155			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 241	1*
521	TAA 155C	5A	K	< 90-day accumulation area-Bldg. 155			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 45	1*
522	TAA 240	1A	H1	< 90-day accumulation area-Bldg. 240			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 64	1
523	TAA 242	1A	H1	< 90-day accumulation area-Bldg. 242			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 67	1*
524	TAA 289	5A	H1	< 90-day accumulation area-Bldg. 289			Active				See Tables 3-9 and 3-13; SWMU/AOC 70	1*
525	TAA 297	5A		< 90-day accumulation area-Bldg. 297			Active				See Tables 3-9 and 3-13; SWMU/AOC 73	1*
526	TAA 298	4A	A2	< 90-day accumulation area-Bldg. 298			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 83	1
527	TAA 306	4A	A2	< 90-day accumulation area-Bldg. 306			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 88	6
528	TAA 307	4A	A2	< 90-day accumulation area-Bldg. 307			Active				See Table 3-9	7
529	TAA 314	4A	A1	Fuel storage locker-Bldg. 314			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 269	1*
530	TAA 317	4B	A4	< 90-day accumulation area-Bldg. 317			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 93	1
531	TAA 357	4A	A1	< 90-day accumulation area - Bldg. 357			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 97	1
532	TAA 359A	4B	A4a	< 90-day accumulation area-Bldg. 359			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 254	1
533	TAA 359B	4B	A4a	< 90-day accumulation area-Bldg. 359			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 99	1*
534	TAA 370	4A	A2	Hazardous material storage/ < 90-day accumulation area-Bldg. 370			Active				See Table 3-9	7
535	TAA 371A	5A	B1	< 90-day accumulation area-Bldg. 371			Active				See Tables 3-9 and 3-13; SWMU/AOC 107	1
536	TAA 371B	5A	B1	< 90-day accumulation area-Bldg. 371			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 242	1*
537	TAA 386	4A	A2	< 90-day accumulation area-Bldg. 386			Active				See Tables 3-9 and 3-13; SWMU/AOC 114	1

Table 3-9
Less-Than-90-Day Accumulation Areas
(Sheet 2 of 5)

Database Tracking	Building Number	Previous Parcel	New Parcel	Status	Closure Evaluation[1]	SWMU/ AOC No.	RFA Sampling	Comments	ECP Area Type[2]
TAA 155A	155	5A	K	Inactive	X	240		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 155B	155	5A	K	Inactive	X	241	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 47	172	3F[4]	J2	Inactive		47		Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*
TAA 240	240	1A	H1	Inactive	X	64		Newly constructed; no release observed. Sampling visit not recommended during PR/VSI. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 242	242	1A	H1	Active	X	67		Located within boundaries of IRP Site 13. Sampling visit not recommended during PR/VSI. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 289	289	5A	H1	Active	X	70	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 71	295	5A	A1	Active		71		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 7, but will not be addressed under the IR Program.	6
RFA 72	296	5A	A1	Active		72		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 7, but will not be addressed under the IR Program.	6
TAA 297	297	5A		Active	X	73	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 298	298	4A	A2	Inactive	X	83	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 306	306	4A	A2	Inactive	X	88	X	Final RFA Addendum (BNI, 1996): PCBs detected in shallow soils (0 - 2 feet). Recommended transfer to the RAC for surface soil removal action.	6
TAA 307	307	4A	A2	Active		-		Identified in Station's HW Open Drum Inspection Report	7
TAA 314	314	4A	A1	Inactive	X	269	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 317	317	4B	A4	Inactive	X	93		Detergent storage only. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
RFA 94	320	4B[4]	A4	Active		94		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 21, but will not be addressed under the IR Program.	6
TAA 357	357	4A	A1	Inactive	X	97		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 359B	359	4B	A4a	Inactive	X	99	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 359A	359	4B	A4a	Inactive	X	254		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
RFA 104	360	5A[4]	A4b	Inactive		104		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 8, but will not be addressed under the IR Program.	6
RFA 105	360	5A[4]	A4b	Inactive		105		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 8, but will not be addressed under the IR Program.	6
RFA 106	360	5A[4]	A4b	Inactive		106		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 8, but will not be addressed under the IR Program.	6

RESULTS OF THE RECORD SEARCH

SWMU/AOC Name: Drum Storage Area (DSA)

TAA 317	SWMU/AOC No: 93	1998 BCP ID: 530

JEG's Final RCRA Facility Assessment Report, (1993) Notes: A DSA was identified by a SPCC map (no date) and in a letter from the RWQCB to the Station dated June 23, 1989. During the VSI in May 1991, JEG team observed Bldg. 317 as an active storage warehouse for Station Commissary. JEG team observed some detergent drums on the concrete loading dock. No hazardous wastes were stored at this Building. No physical evidence of any types of waste storage was observed. A copy of the JEG RFA VSI Evaluation form is included in Attachment A.

JEG's Recommendations: Based on the nature of material stored (i.e. detergent). No Further Action.

Bechtel's Final Addendum RCRA Facility Assessment Report [1996 (Notes)]: BNI visited Building 317 in November 1995 as part of VSI and discovered a roof structure 1703, (where some acetylene gas tanks were stored) as a SWMU 93. No sign of any hazardous waste storage area inside or outside of the building was observed. Per BNI, SWMU 93 was a flammable gas storage area and some acetylene gas cylinders were stored under the active roof structure 1703. No hazardous wastes were ever stored at Building 317 or 1703. A copy of the BNI Accumulation Evaluation Checklist for SWMU 93 is included in Attachment B.

BNI's Recommendation: Evaluate Removal and/or Decontamination Strategy.

Station's Hazardous Materials / Waste Management Plan (August 1994) Notes: Station's HMWMP does not identify a DSA or TAA 317 at Building 317 as a less than 90 day storage facility or an accumulation point for storage of hazardous waste. A copy of the excerpt from the HMWMP, listing accumulation points and hazardous materials storage area at MCAS El Toro is included in Attachment C.

OHM's Site Visit and Recommendations: OHM visited Building 317 in January 1999 and discovered that Building 317 is an active Station's Commissary. There is no physical evidence or sign of a former or current temporary hazardous waste drum storage area at this facility. Per Building 317 personnel, they receive all kind of materials and then it gets distributed but they never deal with hazardous materials or wastes. A copy of the OHM's Site Assessment Log is included in Attachment D.

After reviewing JEG and BNI VSI record, it is obvious that no less than 90-day facility or an accumulation point for storage of hazardous waste ever existed at Building 317. Also, JEG observed some detergent drums and BNI observed a separate roof structure for storage of acetylene cylinders as SWMU 93 but no DSA for hazardous waste was located at Building 317.

Based on the review of the historical records from JEG, BNI, Station's HMWMP, and OHM VSI records, OHM concludes that no such hazardous waste DSA exists at Building 317. Therefore, **OHM recommends that Station delete the TAA 317 (BCP ID. 530) from the BCP list of Environmental Locations of Concern (Table 3-1a Site Summary and Table 3-9 Less Than 90-Day Accumulation Areas).** Copies of the TAA 317 excerpt from the March 1998 BCP are included in Attachment E.

Attachment A
JEG RFA VSI Evaluation Form

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

VOLUME I

16 July 1993

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

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

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

In association with:
International Technology Corporation
CH2M HILL

Evaluation Form
SWMU/Area of Concern
Number 93

Unit Characteristics

A DSA near Building 317 was identified by an SPCC map (no date) and in a 23 June 1989 letter from the RWQCB to Lt. Mike Rehor. Building 317 is a storage warehouse for the Station commissary. The DSA was located at the loading dock next to Bay 20, near the northeastern corner of the building. At this location, there were four 55-gallon drums of Tennant detergent stored on the concrete loading dock. There was no berm around the drums. One of the drums has a spigot in place and is stored horizontally for use. There is a stain on the concrete from detergent material leaking out from the spigot onto the loading dock.

During the visual site inspection, an area was observed as being used by personnel at Building 317 to wash floor cleaning vehicles. See Evaluation Form for SWMU/AOC Number 253 for a description of the wash area.

Waste Characteristics

Tennant Detergent

Possible Migration Pathways

Soil

Evidence of Release

Detergent stain on concrete

Exposure Potential

On-Station personnel

Recommendations

Based on the nature of the material stored (i.e., detergent) and the minor leakage, no further action is recommended at this site.

Evaluation Form
SWMU/Area of Concern
Number 93

Name: Drum Storage Area

Location: Adjacent to the eastern side of Building 317

Size: Approximately 144 sq ft

Date of Site Visit: 24 April 1991

Period of Operation

Currently active

Attachment B
BNI VSI Accumulation Area Evaluation Check List

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

Contract No. N68711-92-D-4670

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY

CLEAN II

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

CTO-0065/0170

May 1996

Prepared by:

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

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

ACCUMULATION AREA EVALUATION CHECKLIST

(CIRCLE AS APPROPRIATE AND FILL IN COMPLETELY)

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

GENERAL DESCRIPTION:

SWMU: **93** Accumulation Area (AA) #: **317**
Location (bldg): **Drum Storage Area/Bldg. 317**
Site Contact: **Leta Suarez** Ext: **2772**
Permission for Access? (Y) ~~N~~ If yes, explain: **Locked Entry**
Type of Wastes Observed **None**

TYPE: (CIRCLE AS APPROPRIATE)

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

CONDITION:

~~Stain(s)~~ ~~Odor(s)~~ ~~Crack(s)~~
Placards/Labels: (Y) ~~N~~ If Yes, list: **Flammable Gas Storage**

Observations: **Area contains Acetylene Tanks. Roof covers part of area.**
Status: **Active storage area as of 11-10-95.**

DIMENSIONS: (ESTIMATED SIZE OR AREA IN FT)

AA/SWMU: **20x45 ft.**
"Stain(s)": **None.**
Any Restrictions To Access?: **The acetylene cylinders and roof pose an obstruction to some locations.**

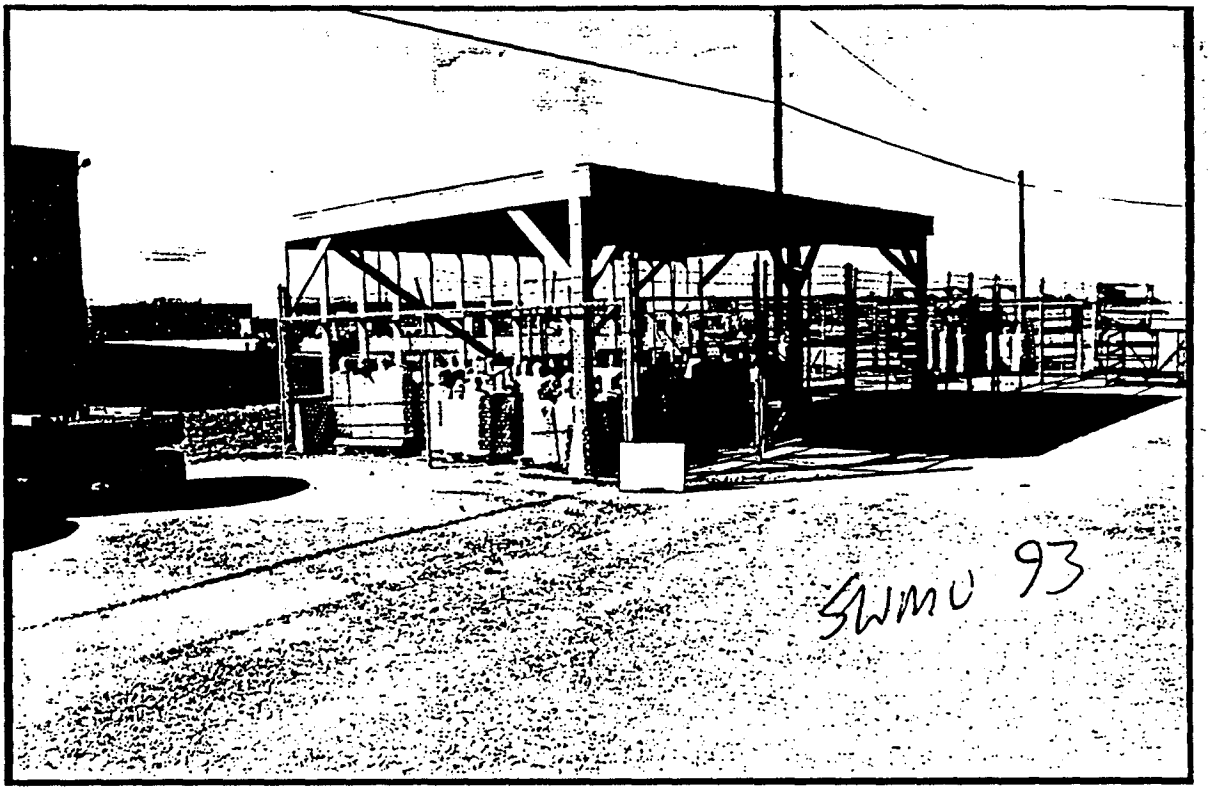
EVALUATION OF REMOVAL/DECONTAMINATION STRATEGY (CIRCLE AS APPROPRIATE)

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

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

DATE/TIME OF SURVEILLANCE: 12/2/94/10:40
UPDATED: 11-10-95/11:20
SURVEILLANCE PERFORMED BY: Larry Bauman

PHOTO LOG



SWMU #: 93

PHOTO DATE: 12-14-94

Table 1-2 (continued)

SWMU[a]/TAA[b]	Description; Location	Proposed Action(s)
GROUP 2 TAAs (continued)		
73/TAA 297	Drum Storage Area; Bldg. 297	Evaluate removal and/or decontamination strategy
83/TAA 298	Drum Storage Area; Bldg. 298	Evaluate removal and/or decontamination strategy
88/TAA 306	HWSA; Bldg. 306	Evaluate removal and/or decontamination strategy
269/TAA 314	HWSA; Bldg. 314	Evaluate removal and/or decontamination strategy
93/TAA 317	Drum Storage Area; Bldg. 317	Evaluate removal and/or decontamination strategy
97/TAA 357	Drum Storage Area; Bldg. 357	Evaluate removal and/or decontamination strategy
254/TAA 359A	Drum Storage Area; Bldg. 359A	Evaluate removal and/or decontamination strategy
99/TAA 359B	HWSA; Bldg. 359B	Evaluate removal and/or decontamination strategy
107/TAA 371A	HWSA; Bldg. 371A	Evaluate removal and/or decontamination strategy
242/TAA 371B	HWSA; Bldg. 371	Evaluate removal and/or decontamination strategy
114/TAA 386	Drum Storage Area; Bldg. 386	Evaluate removal and/or decontamination strategy
116/TAA 388A	HWSA; Bldg. 388	Evaluate removal and/or decontamination strategy
251/TAA 388B	Drum Storage Area; Bldg. 388	Evaluate removal and/or decontamination strategy
119/TAA 389A	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
259/TAA 389B	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
122/TAA 390A	Drum Storage Area; Bldg. 390	Evaluate removal and/or decontamination strategy
261/TAA 390B	HWSA; Bldg. 390	Evaluate removal and/or decontamination strategy
124/TAA 392A	Drum Storage Area; Bldg. 392	Evaluate removal and/or decontamination strategy
271/TAA 392B	HWSA; Bldg. 392	Evaluate removal and/or decontamination strategy
252/TAA 398	HWSA; Bldg. 398	Evaluate removal and/or decontamination strategy
256/TAA 441	HWSA; Bldg. 441	Evaluate removal and/or decontamination strategy
126/TAA 442	HWSA; Bldg. 442	Evaluate removal and/or decontamination strategy
127/TAA 445	Drum Storage Area; Bldg. 445	Evaluate removal and/or decontamination strategy
130/TAA 447	Drum Storage Area; Bldg. 447	Evaluate removal and/or decontamination strategy
135/TAA 456	Drum Storage Area; Bldg. 456	Evaluate removal and/or decontamination strategy
138/TAA 461	HWSA; Bldg. 461	Evaluate removal and/or decontamination strategy
140/TAA 462	HWSA; Bldg. 462	Evaluate removal and/or decontamination strategy
144/TAA 529	HWSA; Bldg. 529	Evaluate removal and/or decontamination strategy
146/TAA 534	Drum Storage Area; Bldg. 534	Evaluate removal and/or decontamination strategy

(table continues)

Attachment C
List of Accumulation Points and Hazardous Material Storage Areas from Station's HMWMP.

Final

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

August 1994

Appendix I
Photographs of Accumulation Points and Hazardous Material Storage Areas

Prepared for:

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

Prepared by:

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

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

Accumulation Points and Hazardous Material Storage Locations
MCAS El Toro

Page No.

Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Supply 4
Supply 4
Combat Service Support Detachment 14 (CSSD 14) 5
Combat Service Support Detachment 14 (CSSD 14) 5
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Wing Support Squadron 373 (MWSS 373), Refuelers 9
Marine Wing Support Squadron 373 (MWSS 373), Headquarters 9
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 10
Morale, Welfare & Recreation Department (MWR), Golf Course 10
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine All Weather Fighter Attack Squadron 242 (VFMA (AW) 242) 12
Marine All Weather Fighter Attack Squadron 121 (VFMA (AW) 121) 12
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Aviation Logistics Squadron 11 (MALS 11), Avionics 14
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance 14
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 15
Marine All Weather Fighter Attack Squadron 225 (VFMA (AW) 225) 15
Maytag Aircraft Corporation 16
Maytag Aircraft Corporation 16
MOD Team 17
Marine Fighter Attack Squadron 323 (VFMA 323) 17
Marine Fighter Attack Squadron 314 (VFMA 314) 18
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 18
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 20
Squadron Operations & Maintenance Squadron (SOMS), Recovery 20
Marine Wing Support Squadron Utilities (MWSS Utilities) 21
Marine Wing Support Squadron Utilities (MWSS Utilities) 21

Accumulation Points, El Toro (Continued)

Page No.

Marine Wing Headquarters Squadron 3 (MWHS 3) 22
Aero Club 22
Headquarters & Headquarters Squadron 38 (H&HS 38) 23
Marine Aircraft Group 46 (MAG 46) 23
Marine Aircraft Group 46 (MAG 46) 24
Marine Air Control Group 38 (MACG 38) 24
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Headquarters 26
Morale, Welfare & Recreation Department (MWR), Auto #1 26
Auto Hobby Shop 27
Armory 27
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 29
Environmental Above Ground Storge Tank 29
Environmental Above Ground Storge Tank 30

Hazardous Materials Storage Areas, El Toro

Headquarters & Headquarters Squadron 38 (H&HS 38), Storage Area 31
Aero Club, Storage Area 31
Marine Air Control Group 38 (MACG 38), Storage Area 32
Morale, Welfare & Recreation Department (MWR), Auto #1, Storage Area 32
Squadron Operations & Maint Squad (SOMS), HQ, Storage Area 33
Marine Fighter Attack Squadron 314 (VFMA 314), Storage Area 33
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 37
Marine Aviation Logistics Squadron 11 (MALS 11), Storage Area 37
Compressed Gas Cylinder Storage Area 38
Flammable Material Storage Area 38
Chemical Storage Area 39
Chemical Storage Area 39
Flammable Storage Area 40
Hospital Compressed Gas Storage Area 40
Hospital Flammable Material Storage Area 41

Attachment D
OHM Site Assessment Log

SITE ASSESSMENT LOG

MCAS EL TORO

TEMPORARY ACCUMULATION AREA & RFA SITE

18609, D.O. 70

TAA SITE: 317 RFA SITE: _____ SWMU NO. 93

Field Observations by: D. Rawal **Date:** 1/22/99

TAA area: (Paved) or Unpaved Bldg 317 is a Warehouse, NO TAA Observed,

Paved: Concrete or Asphalt, Condition of the Concrete/Asphalt: Minor Cracks, Stains, etc. NONE

Unpaved: Open on the Ground or Inside the Building NONE

Is there any Drums or any types of Waste Stored: Yes/No, If Yes, Describe: NONE Empty locker around the Building. No Haz Waste Was Stored.

Fenced: Yes/No, **Sump:** Yes / No, **Concrete Berm**: Yes/No, ___ inch, **Roof:** Yes/No NONE

Describe other Structural details: Building 317 is Commonissary Warehouse & Supply Building No TAA ever existed at this Building.

TAA Decontamination and/or Demolition Possible: Yes/No NONE N/A

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

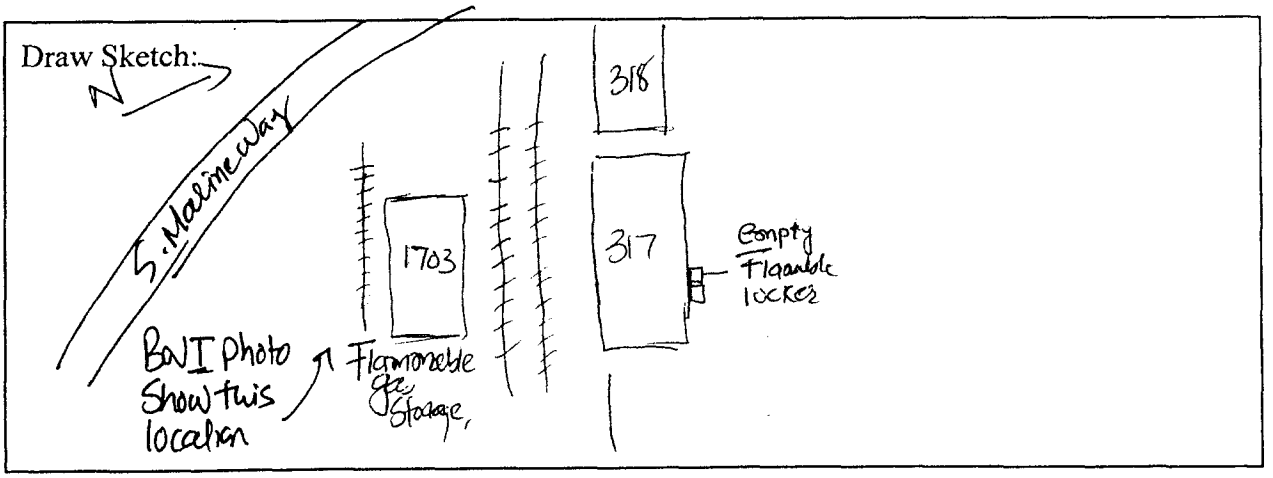
Nearest Building or Structure Distance: 1703, Flammable gas Storage, Acetylene Cylinder Bldg 1703 but No Haz Waste or Haz Mat's were Stored.

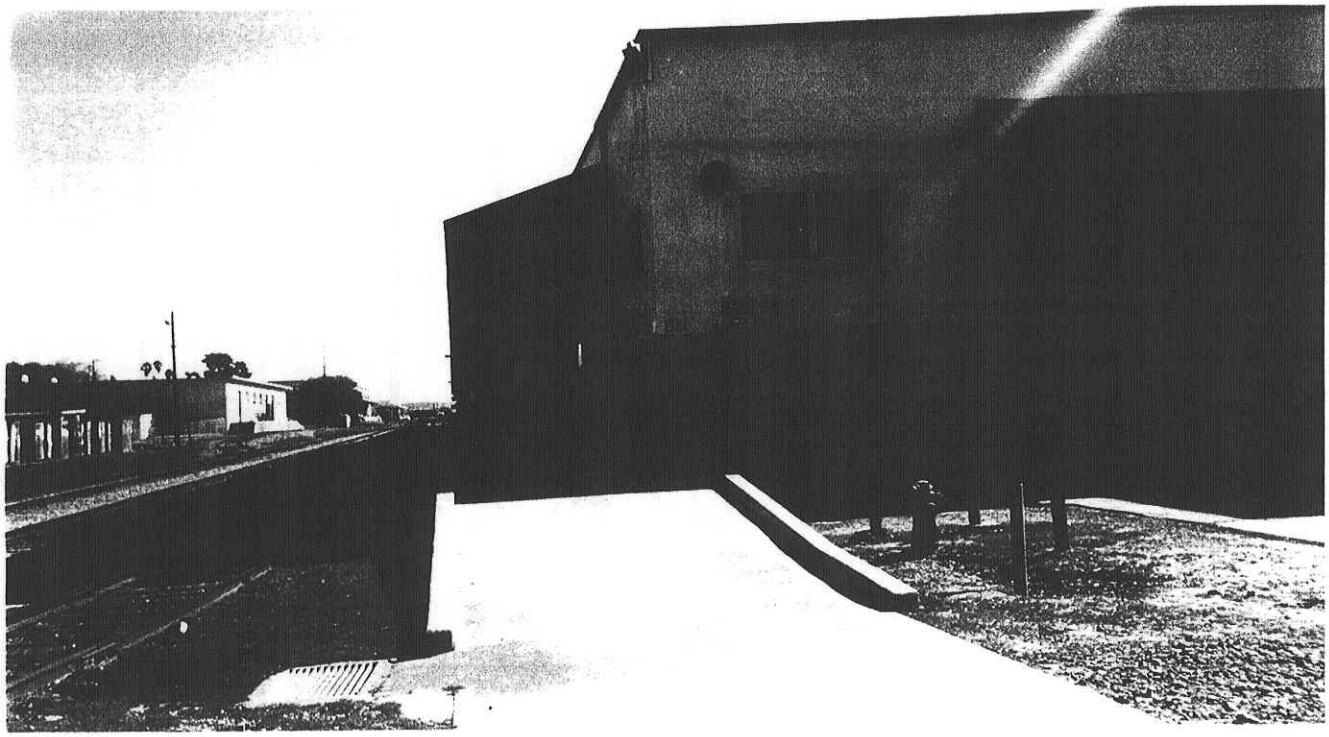
Any Underground Piping/Lines, or Transformer Observed: NONE

Overhead Utility Lines/Poles: NONE

Photograph Roll No. 9 Please attach all the Photographs to this sheet.

Draw Sketch:





TAA 317 - Current condition of the Building 317 area. Receiving Bay to receive materials.

Attachment E
Excerpts from March 1998 Base Realignment and Closure Cleanup Plan

United States Marine Corps

Base Realignment and Closure Cleanup Plan (BCP)

For

Marine Corps Air Station El Toro, CA

March 1998

Table 3-1a
Site Summary
(Sheet 21 of 37)

Seq. No.	Database Tracking	Previous Parcel	New Parcel	Description	Material Disposed	Date of Operation	Status	Risk to Human Health and the Environment[1]	Regulatory Mechanism	NFA	Comments	ECP Area Type[1]
515	TAA 115	5A	I1	< 90-day accumulation area-Bldg. 115			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 39	3
516	TAA 130A	2A	R	< 90-day accumulation area-Bldg. 130			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 294	1
517	TAA 130B	2A	R	< 90-day accumulation area-Bldg. 130			Active				See Tables 3-9 and 3-13; SWMU/AOC 295	1
518	TAA 130C	2A	R	< 90-day accumulation area-Bldg. 130			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 42	1
519	TAA 155A	5A	K	< 90-day accumulation area-Bldg. 155			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 240	1
520	TAA 155B	5A	K	< 90-day accumulation area-Bldg. 155			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 241	1*
521	TAA 155C	5A	K	< 90-day accumulation area-Bldg. 155			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 45	1*
522	TAA 240	1A	H1	< 90-day accumulation area-Bldg. 240			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 64	1
523	TAA 242	1A	H1	< 90-day accumulation area-Bldg. 242			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 67	1*
524	TAA 289	5A	H1	< 90-day accumulation area-Bldg. 289			Active				See Tables 3-9 and 3-13; SWMU/AOC 70	1*
525	TAA 297	5A		< 90-day accumulation area-Bldg. 297			Active				See Tables 3-9 and 3-13; SWMU/AOC 73	1*
526	TAA 298	4A	A2	< 90-day accumulation area-Bldg. 298			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 83	1
527	TAA 306	4A	A2	< 90-day accumulation area-Bldg. 306			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 88	6
528	TAA 307	4A	A2	< 90-day accumulation area-Bldg. 307			Active				See Table 3-9	7
529	TAA 314	4A	A1	Fuel storage locker-Bldg. 314			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 269	1*
530	TAA 317	4B	A4	< 90-day accumulation area-Bldg. 317			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 93	1
531	TAA 357	4A	A1	< 90-day accumulation area - Bldg. 357			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 97	1
532	TAA 359A	4B	A4a	< 90-day accumulation area-Bldg. 359			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 254	1
533	TAA 359B	4B	A4a	< 90-day accumulation area-Bldg. 359			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 99	1*
534	TAA 370	4A	A2	Hazardous material storage/ < 90-day accumulation area-Bldg. 370			Active				See Table 3-9	7
535	TAA 371A	5A	B1	< 90-day accumulation area-Bldg. 371			Active				See Tables 3-9 and 3-13; SWMU/AOC 107	1
536	TAA 371B	5A	B1	< 90-day accumulation area-Bldg. 371			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 242	1*
537	TAA 386	4A	A2	< 90-day accumulation area-Bldg. 386			Active				See Tables 3-9 and 3-13; SWMU/AOC 114	1

Table 3-9
Less-Than-90-Day Accumulation Areas
(Sheet 2 of 5)

Database Tracking	Building Number	Previous Parcel	New Parcel	Status	Closure Evaluation[1]	SWMU/ AOC No.	RFA Sampling	Comments	ECP Area Type[2]
TAA 155A	155	5A	K	Inactive	X	240		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 155B	155	5A	K	Inactive	X	241	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 47	172	3F[4]	J2	Inactive		47		Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*
TAA 240	240	1A	H1	Inactive	X	64		Newly constructed; no release observed. Sampling visit not recommended during PR/VSI. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 242	242	1A	H1	Active	X	67		Located within boundaries of IRP Site 13. Sampling visit not recommended during PR/VSI. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 289	289	5A	H1	Active	X	70	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 71	295	5A	A1	Active		71		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 7, but will not be addressed under the IR Program.	6
RFA 72	296	5A	A1	Active		72		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 7, but will not be addressed under the IR Program.	6
TAA 297	297	5A		Active	X	73	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 298	298	4A	A2	Inactive	X	83	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 306	306	4A	A2	Inactive	X	88	X	Final RFA Addendum (BNI, 1996): PCBs detected in shallow soils (0 - 2 feet). Recommended transfer to the RAC for surface soil removal action.	6
TAA 307	307	4A	A2	Active		-		Identified in Station's HW Open Drum Inspection Report	7
TAA 314	314	4A	A1	Inactive	X	269	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 317	317	4B	A4	Inactive	X	93		Detergent storage only. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
RFA 94	320	4B[4]	A4	Active		94		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 21, but will not be addressed under the IR Program.	6
TAA 357	357	4A	A1	Inactive	X	97		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 359B	359	4B	A4a	Inactive	X	99	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 359A	359	4B	A4a	Inactive	X	254		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
RFA 104	360	5A[4]	A4b	Inactive		104		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 8, but will not be addressed under the IR Program.	6
RFA 105	360	5A[4]	A4b	Inactive		105		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 8, but will not be addressed under the IR Program.	6
RFA 106	360	5A[4]	A4b	Inactive		106		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 8, but will not be addressed under the IR Program.	6

RESULTS OF THE RECORD SEARCH

SWMU/AOC Name: Drum Storage Area (DSA)

TAA 357	SWMU/AOC No: 97	1998 BCP ID: 531

JEG's Final RCRA Facility Assessment Report, (1993) Notes: A DSA was identified by RWQCB in a letter to Station in June 1989. Building 357 is an active chemical storage facility for the FMD Pipe/Heat shop. During the field VSI in May 1991, JEG team observed some drums of chlorine, caustic soda, and hydrochloric acid were stored inside the Building. Per JEG, no evidence of release or stains and cracks were observed in the concrete floor. No hazardous wastes were stored at this Building. A copy of the JEG RFA VSI Evaluation form for SWMU 97 is included in Attachment A.
JEG's Recommendations: No evidence of release was observed at this area. No Further Action.

Bechtel's Final Addendum RCRA Facility Assessment Report [1996 (Notes)]: BNI visited Building 357 in November 1995 as part of VSI and found no DSA. No sign of any hazardous waste storage area inside or outside of the building was observed. Poly tanks and drums were stored on the concrete floor. Door was marked as "Haz Chemical Storage". Building 357 area was active as of November 1995. A copy of the BNI's Accumulation Area Evaluation Check List for TAA 534 / SWMU 146 is included in Attachment B.
BNI's Recommendation: Evaluate Removal and/or Decontamination Strategy.

Station's Hazardous Materials / Waste Management Plan (August 1994) Notes: Station's HMWMP has listed Building 357 / 314 as a hazardous chemical storage area. No TAA 357 at Building 357 is listed as a less than 90-day hazardous waste storage facility or an accumulation point for storage of hazardous waste. Copies of the excerpts from the HMWMP, listing accumulation points and hazardous materials storage areas at MCAS El Toro are included in Attachment C.

OHM's Site Visit and Recommendations: OHM visited Building 357 in April 1997 and January 1999. During the field visit, OHM discovered that the Building 357 was closed and there were no signs of any drums or stains on the concrete floor. There was no evidence or sign of a temporary hazardous waste drum storage area outside of the Building. No placards for hazardous waste storage were observed on the Building 357 or near Building. OHM observed a placard "Phosphoric acid hazardous chemicals storage" on Building. A copy of the OHM Site Assessment Log is included in Attachment D.

After reviewing JEG and BNI VSI record, it is obvious that Building 357 used to store hazardous chemicals for cleaning operations for FMD shop but no hazardous wastes were stored or handled at Building 357. Also, Station's HMWMP has identified Building 357, where hazardous chemicals were used and stored. Hazardous Materials are managed in accordance with the Station's HMWMP.

Based on the review of the historical records from JEG, BNI, Station's HMWMP, and OHM VSI records, OHM concludes that Building 357 does not have a hazardous waste DSA but Building 357 is designated for storage of hazardous chemicals. Therefore, **OHM recommends that Station delete the TAA 534 (BCP ID. 531) from the BCP list of Environmental Locations of Concern (Table 3-1a Site Summary and Table 3-9 of Less Than 90-Day Accumulation Areas).** Copies of the excerpts of TAA 357 from March 1998 BCP are included in Attachment E.

Attachment A
JEG RFA VSI Evaluation Form

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

VOLUME I

16 July 1993

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

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

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

In association with:
International Technology Corporation
CH2M HILL

Evaluation Form
SWMU/Area of Concern
Number 97

Unit Characteristics

A DSA at Building 357 was identified in a letter from the RWQCB to Lt. Mike Rehor dated 28 June 1989. Building 357 is used as a chemical storage facility for the FMD Pipe/Heat shop. The building sits atop a concrete loading dock approximately 1,000 sq ft in size. It occupies approximately one-half of the concrete pad. Corrosive chemicals such as chlorine, caustic soda, and hydrochloric acid are stored inside the building. The floor surface inside the building is concrete. Portions of the flooring near the southeastern corner, where hydrochloric acid is stored, appear somewhat corroded. A drain is located in the center of the building. The drain empties out on the western side of the building onto the concrete loading ramp. From there, it flows toward a storm drain located near the entrance gate of the Station.

The other one-half of the loading dock is uncovered. It is used to store various sized containers of chlorine and caustic soda. No significant stains or cracks in the concrete surface were observed. A drain, which leads to the same discharge point as the drain inside the building, is located adjacent to the eastern wall of the building.

According to an employee who works in the Pipe/Heat shop, this facility was once used as a drum cleaning facility. The employee stated that nearby Building 314 was a boiler facility that provided heat to the nearby buildings. Apparently, steam generated at Building 314 was used to clean dirty 55-gallon drums for reuse. The employee was unsure of exact details about the cleaning operation because his knowledge of the operation came from former employees. An abandoned oil/water separator associated with this drum cleaning operation was discovered about 3-ft west of the building. See the Evaluation Form for SWMU/AOC Number 296 for a description of this oil/water separator.

Waste Characteristics

The following products were stored at the DSA:

- Caustic soda
- Hydrochloric acid
- Chlorine

Possible Migration Pathways

Surface soil
Storm drain

Evaluation Form
SWMU/Area of Concern
Number 97

Evidence of Release

None observed

Exposure Potential

On-Station personnel

Recommendations

No further action is recommended for this DSA. The area is paved and appeared to be free of stains or significant cracks or defects. Minor corrosion of the concrete surface, however, was noted in one area. Past spills or leaks from the DSA would flow to the storm drain and Bee Canyon Wash (SWMU/AOC Number 4), which is recommended for a sampling visit.

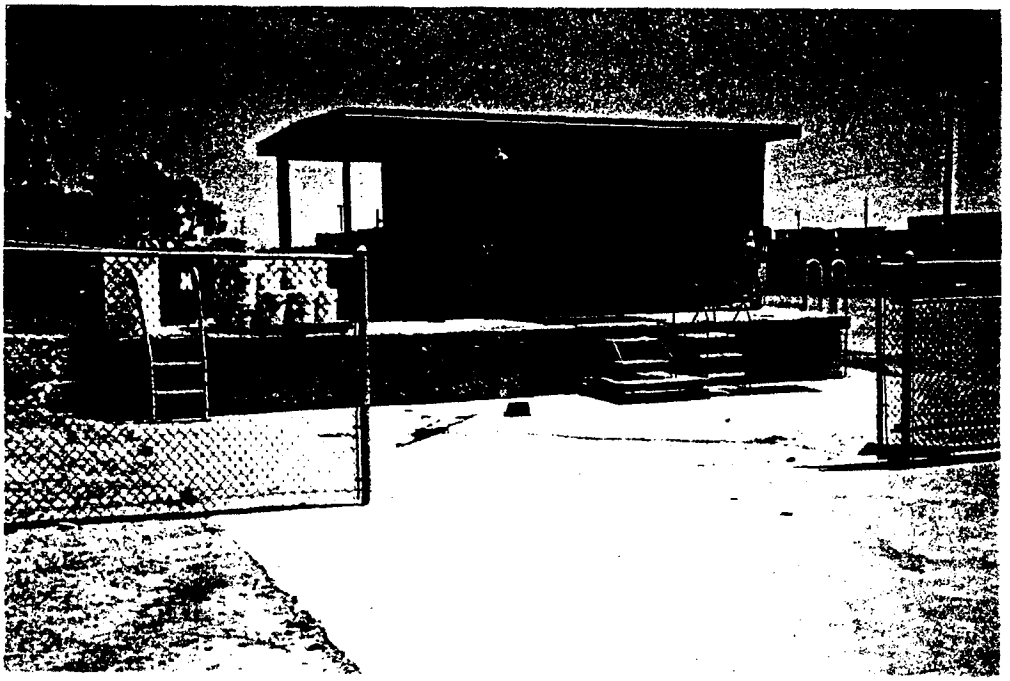
Evaluation Form
SWMU/Area of Concern
Number 97

Name: Drum Storage Area

Location: Building 357

Size: Approximately 1,000 sq ft

Date of Site Visit: 16 May 1991



Period of Operation

Currently active

Attachment B
BNI VSI Accumulation Area Evaluation Check List

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

Contract No. N68711-92-D-4670

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY

CLEAN II

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

CTO-0065/0170

May 1996

Prepared by:

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

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

ACCUMULATION AREA EVALUATION CHECKLIST

(CIRCLE AS APPROPRIATE AND FILL IN COMPLETELY)

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

GENERAL DESCRIPTION:

SWMU: **97** Accumulation Area (AA) #: **357**
Location (bldg): **Drum Storage Area/Bldg. 357**
Site Contact: **Leta Suarez** Ext: **2772**
Permission for Access? (Y) ~~N~~ If yes, explain: **Locked Entry**
Type of Wastes Observed **None**

TYPE: (CIRCLE AS APPROPRIATE)

~~Locker~~ ~~Cabinet~~ ~~Pad~~ (Concrete) ~~Soil/Asphalt/ floor~~
~~Berm~~ (Fence) Fence Type: **Cyclone** ~~Indoor~~
(Pallets) (Drum(s)) No. of Drums: **40,** (Outdoor)
6 plastic clemical tanks

CONDITION:

~~Stain(s)~~ ~~Odor(s)~~ ~~Crack(s)~~
Placards/Labels: (Y) ~~N~~ If Yes, list: **Phosphoric Acid**

Observations: **Poly Tanks and Drum Catch basins on raised area of bldg. floor. Square drain/sump in front of loading dock area. Door marked "Haz Chem Storage" and lead shop".**
Status: **Active as of 11-10-95.**

DIMENSIONS: (ESTIMATED SIZE OR AREA IN FT)

AA/SWMU: **30x30 ft.**
"Stain(s)" : **None.**
Any Restrictions To Access?: **no.**

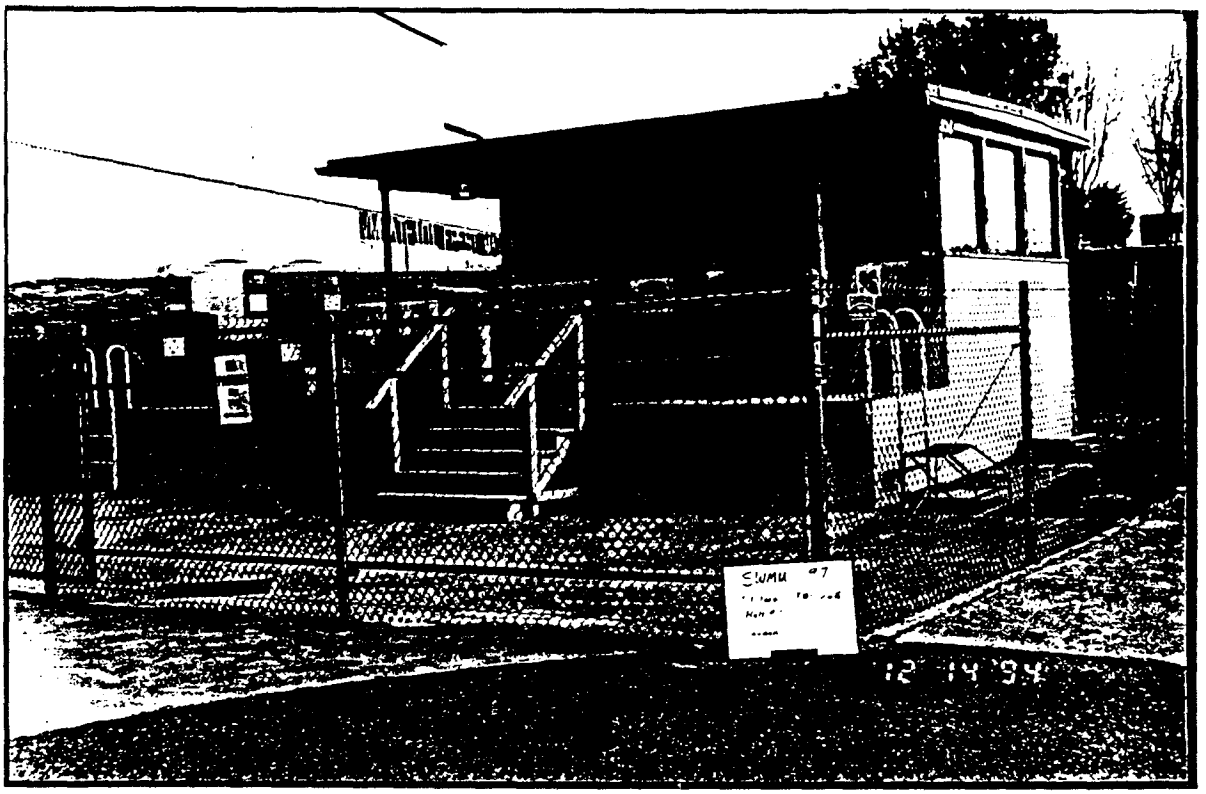
EVALUATION OF REMOVAL/DECONTAMINATION STRATEGY (CIRCLE AS APPROPRIATE)

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

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

DATE/TIME OF SURVEILLANCE: 12/2/94/14:30
UPDATED: 11-10-95/11:42
SURVEILLANCE PERFORMED BY: Larry Bauman

PHOTO LOG



SWMU #: 97

PHOTO DATE: 12-14-94

Table 1-2 (continued)

SWMU[a]/TAA[b]	Description; Location	Proposed Action(s)
GROUP 2 TAAs (continued)		
73/TAA 297	Drum Storage Area; Bldg. 297	Evaluate removal and/or decontamination strategy
83/TAA 298	Drum Storage Area; Bldg. 298	Evaluate removal and/or decontamination strategy
88/TAA 306	HWSA; Bldg. 306	Evaluate removal and/or decontamination strategy
269/TAA 314	HWSA; Bldg. 314	Evaluate removal and/or decontamination strategy
93/TAA 317	Drum Storage Area; Bldg. 317	Evaluate removal and/or decontamination strategy
97/TAA 357	Drum Storage Area; Bldg. 357	Evaluate removal and/or decontamination strategy
254/TAA 359A	Drum Storage Area; Bldg. 359A	Evaluate removal and/or decontamination strategy
99/TAA 359B	HWSA; Bldg. 359B	Evaluate removal and/or decontamination strategy
107/TAA 371A	HWSA; Bldg. 371A	Evaluate removal and/or decontamination strategy
242/TAA 371B	HWSA; Bldg. 371	Evaluate removal and/or decontamination strategy
114/TAA 386	Drum Storage Area; Bldg. 386	Evaluate removal and/or decontamination strategy
116/TAA 388A	HWSA; Bldg. 388	Evaluate removal and/or decontamination strategy
251/TAA 388B	Drum Storage Area; Bldg. 388	Evaluate removal and/or decontamination strategy
119/TAA 389A	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
259/TAA 389B	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
122/TAA 390A	Drum Storage Area; Bldg. 390	Evaluate removal and/or decontamination strategy
261/TAA 390B	HWSA; Bldg. 390	Evaluate removal and/or decontamination strategy
124/TAA 392A	Drum Storage Area; Bldg. 392	Evaluate removal and/or decontamination strategy
271/TAA 392B	HWSA; Bldg. 392	Evaluate removal and/or decontamination strategy
252/TAA 398	HWSA; Bldg. 398	Evaluate removal and/or decontamination strategy
256/TAA 441	HWSA; Bldg. 441	Evaluate removal and/or decontamination strategy
126/TAA 442	HWSA; Bldg. 442	Evaluate removal and/or decontamination strategy
127/TAA 445	Drum Storage Area; Bldg. 445	Evaluate removal and/or decontamination strategy
130/TAA 447	Drum Storage Area; Bldg. 447	Evaluate removal and/or decontamination strategy
135/TAA 456	Drum Storage Area; Bldg. 456	Evaluate removal and/or decontamination strategy
138/TAA 461	HWSA; Bldg. 461	Evaluate removal and/or decontamination strategy
140/TAA 462	HWSA; Bldg. 462	Evaluate removal and/or decontamination strategy
144/TAA 529	HWSA; Bldg. 529	Evaluate removal and/or decontamination strategy
146/TAA 534	Drum Storage Area; Bldg. 534	Evaluate removal and/or decontamination strategy

(table continues)

Attachment C
List of Accumulation Points and Hazardous Material Storage Areas from Station's HMWMP.

Final

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

August 1994

Appendix I
Photographs of Accumulation Points and Hazardous Material Storage Areas

Prepared for:

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

Prepared by:

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

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

Accumulation Points and Hazardous Material Storage Locations
MCAS El Toro

Page No.

Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Supply 4
Supply 4
Combat Service Support Detachment 14 (CSSD 14) 5
Combat Service Support Detachment 14 (CSSD 14) 5
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Wing Support Squadron 373 (MWSS 373), Refuelers 9
Marine Wing Support Squadron 373 (MWSS 373), Headquarters 9
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 10
Morale, Welfare & Recreation Department (MWR), Golf Course 10
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine All Weather Fighter Attack Squadron 242 (VFMA (AW) 242) 12
Marine All Weather Fighter Attack Squadron 121 (VFMA (AW) 121) 12
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Aviation Logistics Squadron 11 (MALS 11), Avionics 14
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance 14
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 15
Marine All Weather Fighter Attack Squadron 225 (VFMA (AW) 225) 15
Maytag Aircraft Corporation 16
Maytag Aircraft Corporation 16
MOD Team 17
Marine Fighter Attack Squadron 323 (VFMA 323) 17
Marine Fighter Attack Squadron 314 (VFMA 314) 18
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 18
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 20
Squadron Operations & Maintenance Squadron (SOMS), Recovery 20
Marine Wing Support Squadron Utilities (MWSS Utilities) 21
Marine Wing Support Squadron Utilities (MWSS Utilities) 21

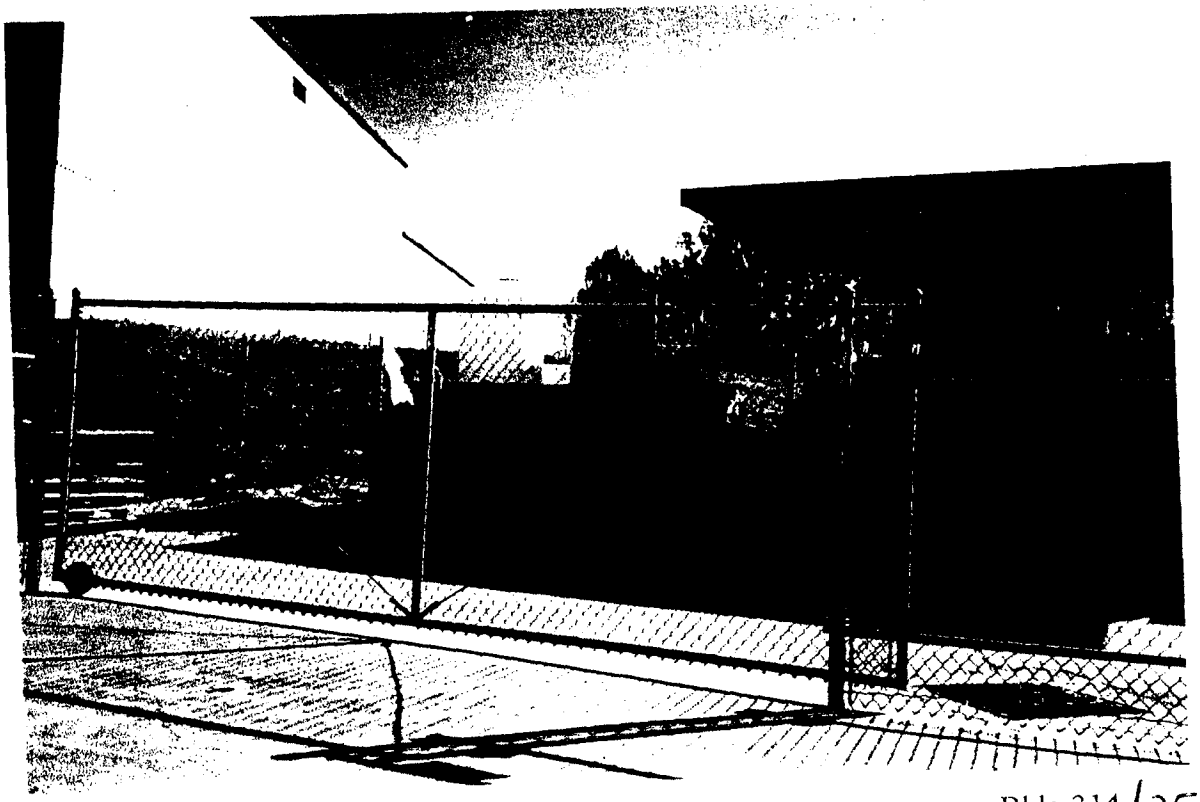
Accumulation Points, El Toro (Continued)

Page No.

Marine Wing Headquarters Squadron 3 (MWHS 3) 22
Aero Club 22
Headquarters & Headquarters Squadron 38 (H&HS 38) 23
Marine Aircraft Group 46 (MAG 46) 23
Marine Aircraft Group 46 (MAG 46) 24
Marine Air Control Group 38 (MACG 38) 24
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Headquarters 26
Morale, Welfare & Recreation Department (MWR), Auto #1 26
Auto Hobby Shop 27
Armory 27
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 29
Environmental Above Ground Storge Tank 29
Environmental Above Ground Storge Tank 30

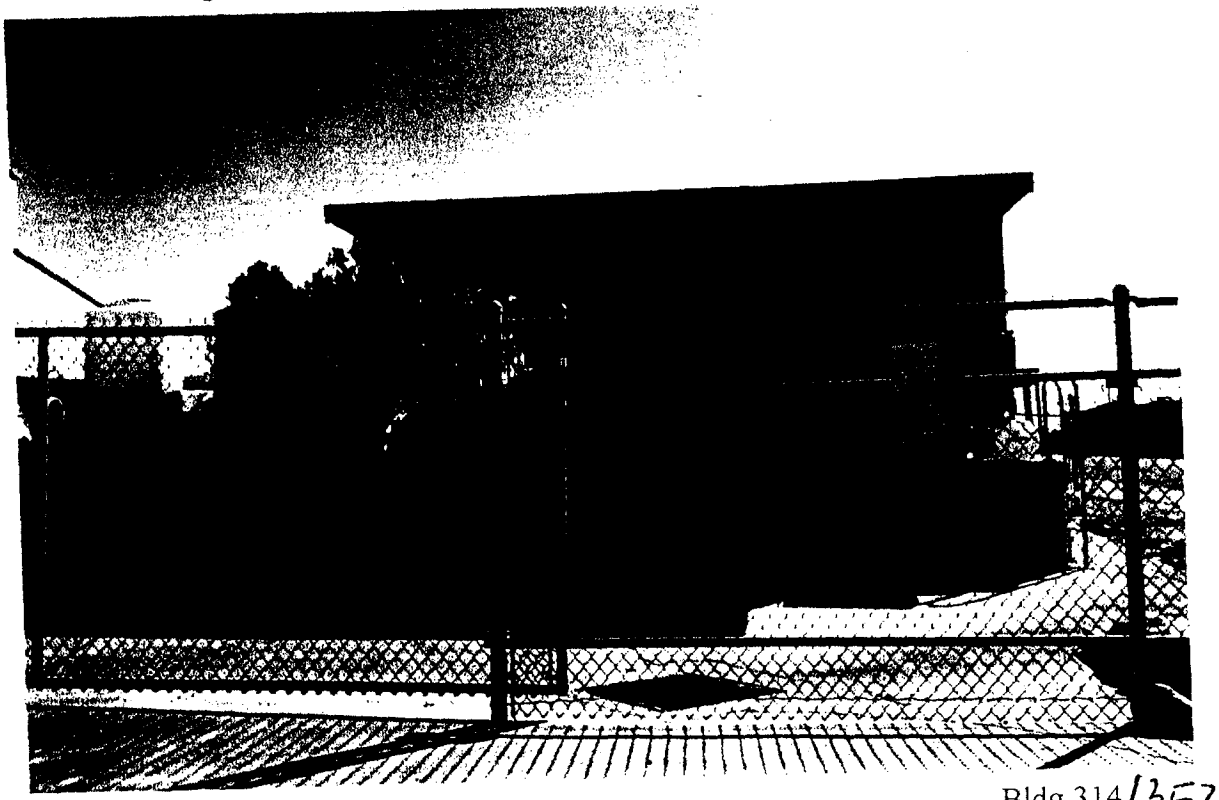
Hazardous Materials Storage Areas, El Toro

Headquarters & Headquarters Squadron 38 (H&HS 38), Storage Area 31
Aero Club, Storage Area 31
Marine Air Control Group 38 (MACG 38), Storage Area 32
Morale, Welfare & Recreation Department (MWR), Auto #1, Storage Area 32
Squadron Operations & Maint Squad (SOMS), HQ, Storage Area 33
Marine Fighter Attack Squadron 314 (VFMA 314), Storage Area 33
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 37
Marine Aviation Logistics Squadron 11 (MALS 11), Storage Area 37
Compressed Gas Cylinder Storage Area 38
Flammable Material Storage Area 38
Chemical Storage Area 39
Chemical Storage Area 39
Flammable Storage Area 40
Hospital Compressed Gas Storage Area 40
Hospital Flammable Material Storage Area 41



Chemical Storage Area

Bldg 314/357



Chemical Storage Area

Bldg 314/357

Attachment D
OHM Site Assessment Log

SITE ASSESSMENT LOG

MCAS EL TORO

TEMPORARY ACCUMULATION AREA & RFA SITE

18609, D.O. 70

TAA SITE: 357 RFA SITE: — SWMU NO. 97

Field Observations by: D. Rawl **Date:** 1/26/99

TAA area: Paved or Unpaved Concrete Structure & Ramp at Building 357

Paved: Concrete or Asphalt, Condition of the Concrete/Asphalt: Minor Cracks, Stains, etc.
Good, No Stains on the floor, Used to be a Chemical Storage Area,

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

Is there any Drums or any types of Waste Stored: Yes/No, If Yes, Describe: None,
No drums or Waste observed. Building Closed. Some Pallets & lockers left for Recycling

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

Describe other Structural details: Bldg 357 was a Chemical Storage Area,
No Cracks on Concrete floor or Stains. No Haz Waste Stored or handled at this Site

TAA Decontamination and/or Demolition Possible: Yes/No
N/A,

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

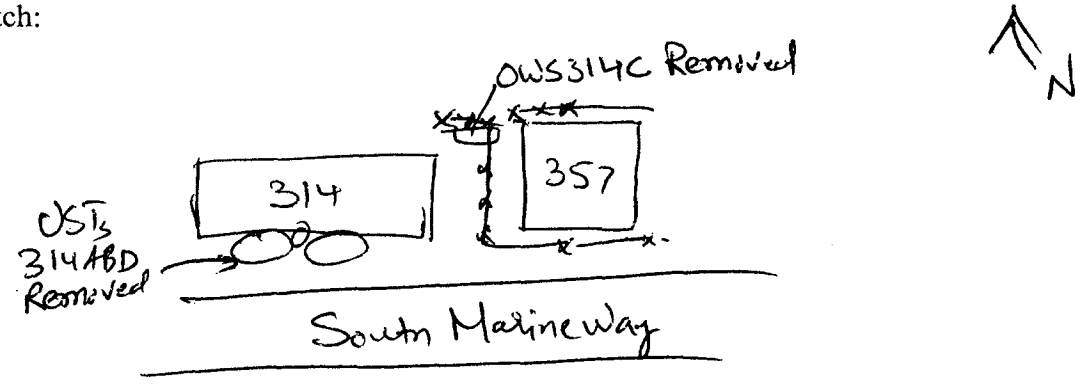
Nearest Building or Structure Distance: 314, APPX 60 feet

Any Underground Piping/Lines, or Transformer Observed: None NO TAA357 Exists

Overhead Utility Lines/Poles: None only HMSA, Placard on Bldg fence.

Photograph Roll No. 3A Please attach all the Photographs to this sheet.

Draw Sketch:



SITE ASSESSMENT LOG

MCAS EL TORO

TEMPORARY ACCUMULATION AREA & RFA SITE

18609, D.O. 70

TAA SITE: 357 RFA SITE: _____ SWMU NO. ~~97-357~~ 97.

Field Observations by: Keith Williams **Date:** 4/18/97

TAA area: (Paved) or (Unpaved)

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

Unpaved: (Open on the Ground) or Inside the Building

Is there any Drums or any types of Waste Stored: Yes/(No) If Yes, Describe: Site contains old refrigerators and air conditioners. Some propane cans

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

Describe other Structural details: Small Building with Loading dock.

TAA Decontamination and/or Demolition Possible: (Yes)/No Appear inactive

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

Nearest Building or Structure Distance: Building 314 Located approx 50' NW

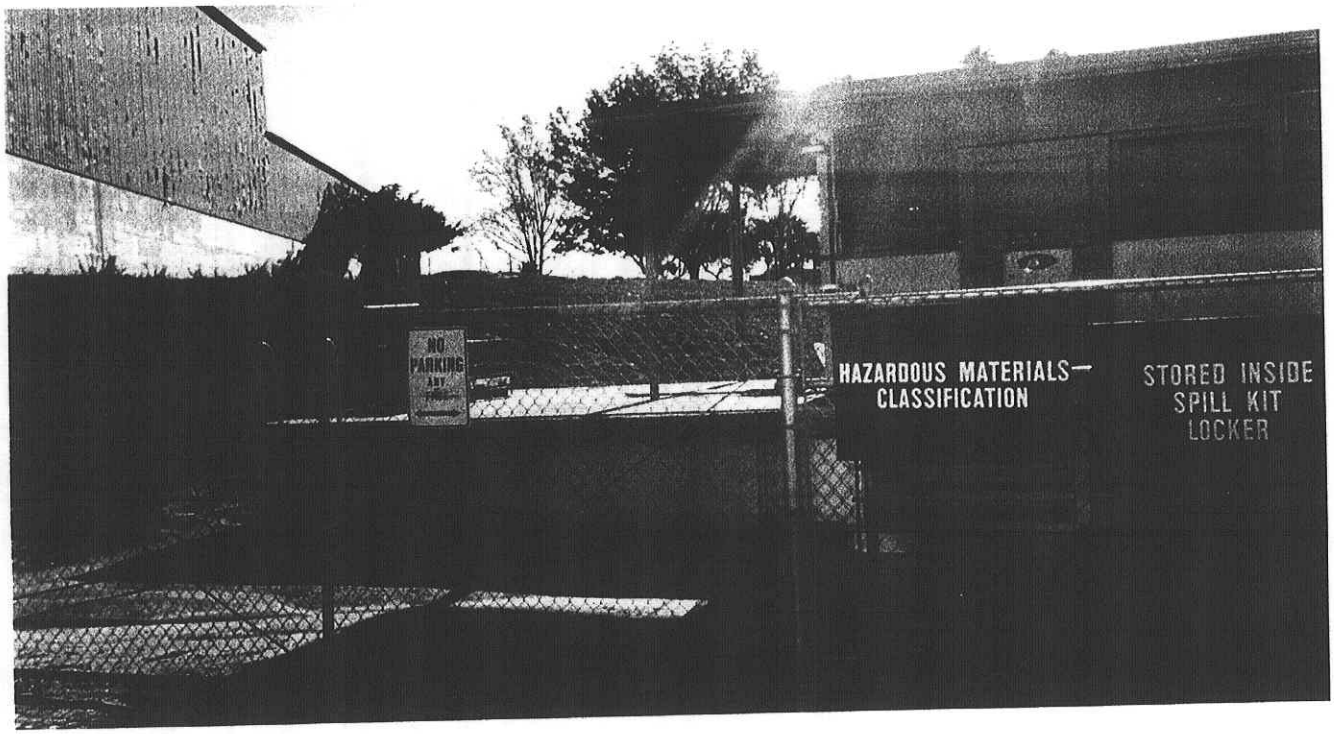
Any Underground Piping/Lines, or Transformer Observed: YES

Overhead Utility Lines/Poles: NO

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

Draw Sketch:

See Attached Photos



TAA 357 - Current condition of the Building 357 area. Building is closed with placard left as it is. No TAA 357 was observed.

Attachment E
Excerpts from March 1998 Base Realignment and Closure Cleanup Plan

United States Marine Corps

Base Realignment and Closure Cleanup Plan (BCP)

For

Marine Corps Air Station El Toro, CA

March 1998

Table 3-1a
Site Summary
(Sheet 21 of 37)

Seq. No.	Database Tracking	Previous Parcel	New Parcel	Description	Material Disposed	Date of Operation	Status	Risk to Human Health and the Environment[1]	Regulatory Mechanism	NFA	Comments	ECP Area Type[2]
515	TAA 115	5A	I1	< 90-day accumulation area-Bldg. 115			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 39	3
516	TAA 130A	2A	R	< 90-day accumulation area-Bldg. 130			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 294	1
517	TAA 130B	2A	R	< 90-day accumulation area-Bldg. 130			Active				See Tables 3-9 and 3-13; SWMU/AOC 295	1
518	TAA 130C	2A	R	< 90-day accumulation area-Bldg. 130			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 42	1
519	TAA 155A	5A	K	< 90-day accumulation area-Bldg. 155			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 240	1
520	TAA 155B	5A	K	< 90-day accumulation area-Bldg. 155			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 241	1*
521	TAA 155C	5A	K	< 90-day accumulation area-Bldg. 155			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 45	1*
522	TAA 240	1A	H1	< 90-day accumulation area-Bldg. 240			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 64	1
523	TAA 242	1A	H1	< 90-day accumulation area-Bldg. 242			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 67	1*
524	TAA 289	5A	H1	< 90-day accumulation area-Bldg. 289			Active				See Tables 3-9 and 3-13; SWMU/AOC 70	1*
525	TAA 297	5A		< 90-day accumulation area-Bldg. 297			Active				See Tables 3-9 and 3-13; SWMU/AOC 73	1*
526	TAA 298	4A	A2	< 90-day accumulation area-Bldg. 298			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 83	1
527	TAA 306	4A	A2	< 90-day accumulation area-Bldg. 306			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 88	6
528	TAA 307	4A	A2	< 90-day accumulation area-Bldg. 307			Active				See Table 3-9	7
529	TAA 314	4A	A1	Fuel storage locker-Bldg. 314			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 269	1*
530	TAA 317	4B	A4	< 90-day accumulation area-Bldg. 317			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 93	1
531	TAA 357	4A	A1	< 90-day accumulation area - Bldg. 357			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 97	1
532	TAA 359A	4B	A4a	< 90-day accumulation area-Bldg. 359			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 254	1
533	TAA 359B	4B	A4a	< 90-day accumulation area-Bldg. 359			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 99	1*
534	TAA 370	4A	A2	Hazardous material storage/ < 90-day accumulation area-Bldg. 370			Active				See Table 3-9	7
535	TAA 371A	5A	B1	< 90-day accumulation area-Bldg. 371			Active				See Tables 3-9 and 3-13; SWMU/AOC 107	1
536	TAA 371B	5A	B1	< 90-day accumulation area-Bldg. 371			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 242	1*
537	TAA 386	4A	A2	< 90-day accumulation area-Bldg. 386			Active				See Tables 3-9 and 3-13; SWMU/AOC 114	1

Table 3-9
Less-Than-90-Day Accumulation Areas
(Sheet 2 of 5)

Database Tracking	Building Number	Previous Parcel	New Parcel	Status	Closure Evaluation[1]	SWMU/ AOC No.	RFA Sampling	Comments	ECP Area Type[2]
TAA 155A	155	5A	K	Inactive	X	240		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 155B	155	5A	K	Inactive	X	241	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 47	172	3F[4]	J2	Inactive		47		Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*
TAA 240	240	1A	H1	Inactive	X	64		Newly constructed; no release observed. Sampling visit not recommended during PR/VSI. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 242	242	1A	H1	Active	X	67		Located within boundaries of IRP Site 13. Sampling visit not recommended during PR/VSI. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 289	289	5A	H1	Active	X	70	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 71	295	5A	A1	Active		71		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 7, but will not be addressed under the IR Program.	6
RFA 72	296	5A	A1	Active		72		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 7, but will not be addressed under the IR Program.	6
TAA 297	297	5A		Active	X	73	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 298	298	4A	A2	Inactive	X	83	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 306	306	4A	A2	Inactive	X	88	X	Final RFA Addendum (BNI, 1996): PCBs detected in shallow soils (0 - 2 feet). Recommended transfer to the RAC for surface soil removal action.	6
TAA 307	307	4A	A2	Active		-		Identified in Station's HW Open Drum Inspection Report	7
TAA 314	314	4A	A1	Inactive	X	269	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 317	317	4B	A4	Inactive	X	93		Detergent storage only. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
RFA 94	320	4B[4]	A4	Active		94		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 21, but will not be addressed under the IR Program.	6
TAA 357	357	4A	A1	Inactive	X	97		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 359B	359	4B	A4a	Inactive	X	99	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 359A	359	4B	A4a	Inactive	X	254		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
RFA 104	360	5A[4]	A4b	Inactive		104		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 8, but will not be addressed under the IR Program.	6
RFA 105	360	5A[4]	A4b	Inactive		105		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 8, but will not be addressed under the IR Program.	6
RFA 106	360	5A[4]	A4b	Inactive		106		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 8, but will not be addressed under the IR Program.	6

RESULTS OF THE RECORD SEARCH

SWMU/AOC Name: Drum Storage Area (DSA)

TAA 386	SWMU/AOC No: 114	1998 BCP ID: 537

JEG's Final RCRA Facility Assessment Report, (1993) Notes: This DSA was identified in a 1980 DHS photograph. It consisted of a waste oil bowser located on unpaved ground. No stains were observed on the ground in the photograph. During the VSI in May 1991, JEG team was able to locate the area from the photograph. Area was still unpaved and had no evidence of stains or releases. A copy of the JEG RFA VSI Evaluation form is included in Attachment A.

JEG's Recommendations: No Further Action.

Bechtel's Final Addendum RCRA Facility Assessment Report [1996 (Notes)]: BNI visited Building 386 in November 1995 as part of VSI and discovered a clean pavement area. No sign of any hazardous waste storage area inside or outside of the building was observed. Per BNI, a hazardous waste storage area was observed at the northwest end of the building. A copy of the BNI Accumulation Area Evaluation Check List is included in Attachment B.

BNI's Recommendation: Evaluate Removal and/or Decontamination Strategy.

Station's Hazardous Materials / Waste Management Plan (August 1994) Notes: Station's HMWMP does not identify a DSA or TAA 386 at Building 386 as a less than 90 day storage facility or an accumulation point for storage of hazardous waste. Excerpts from the HMWMP listing Accumulation points and Hazardous Materials Storage Areas at MCAS El Toro are included in Attachment C.

OHM's Site Visit and Recommendations: OHM visited Building 386 in January 1999 and discovered that the Building 386 is an active Auto Lube Construction Equipment Shop. There was no physical evidence or sign of a current or former temporary DSA at this facility. OHM observed an active TAA 770 at the northwest end of the Building 386. Per shop foreman (at Building 386) they have been using TAA 770 for storage of used oil rags or waste oil. A copy of the OHM Site Assessment Log is included in Attachment D.

After reviewing JEG and BNI VSI record, it is obvious that a less than 90-day facility or an accumulation point for storage of hazardous waste does not exist at Building 386. Although SWMU 114, DSA was identified in a DHS photograph, JEG was able to locate the former bowser area but no evidence of release was observed at the unpaved area.

Based on the review of the historical records from JEG, BNI, Station's HMWMP, and OHM field VSI records, OHM concludes that no such hazardous waste TAA or former DSA exist at Building 386. Therefore, **OHM recommends that Station delete the TAA 386 (BCP ID. 537) from the BCP list of Environmental Locations of Concern (Table 3-1a Site Summary & Table 3-9 Less Than 90-Day Accumulation Areas).** Copies of the March 1998 BCP excerpt are included in Attachment E.

Attachment A
JEG RFA VSI Evaluation Form

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

VOLUME I

16 July 1993

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

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

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

In association with:
International Technology Corporation
CH2M HILL

10020667.SCO\93\MA

Evaluation Form
SWMU/Area of Concern
Number 114

Unit Characteristics

This DSA was identified in a 1980 DHS photograph. It consisted of a waste oil bowser located on unpaved ground. No stains were observed on the ground in the photograph. Although the bowser is no longer located at this area, the location could be accurately identified from the photograph. The area is still unpaved and has no evidence of stains.

Waste Characteristics

Waste oil

Possible Migration Pathways

Surface soil

Evidence of Release

None observed

Exposure Potential

On-Station personnel

Recommendations

No further action is recommended for this former bowser storage area

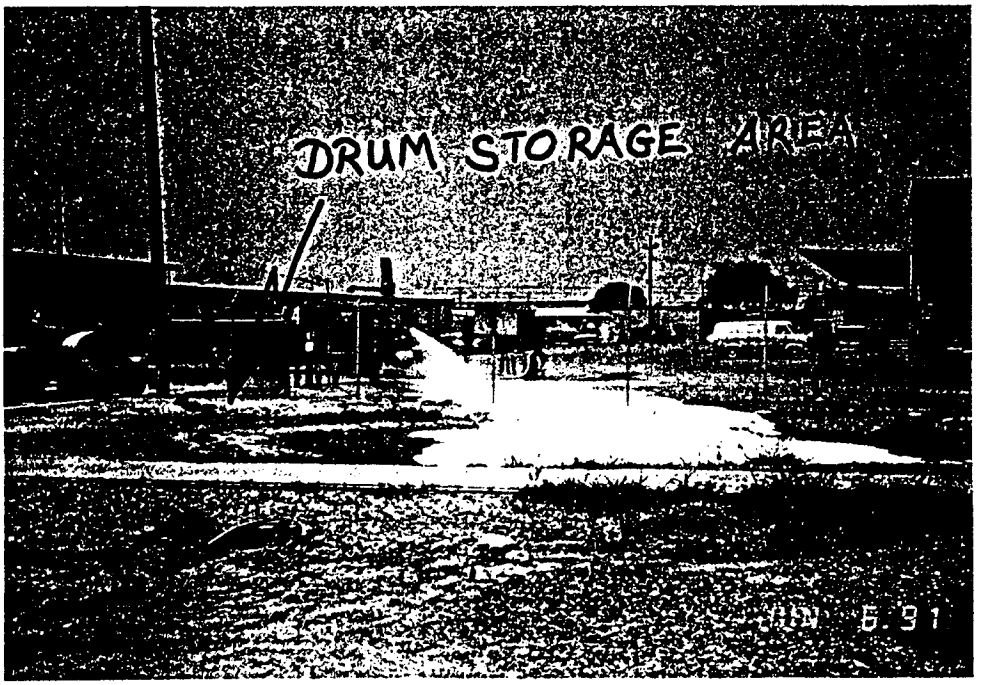
Evaluation Form
SWMU/Area of Concern
Number 114

Name: Drum Storage Area

Location: North of Building 386

Size: 50 sq ft

Date of Site Visit: 23 April 91



Period of Operation

Currently inactive

Attachment B
BNI VSI Accumulation Area Evaluation Check List

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

Contract No. N68711-92-D-4670

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY

CLEAN II

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

CTO-0065/0170

May 1996

Prepared by:

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

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

ACCUMULATION AREA EVALUATION CHECKLIST

(CIRCLE AS APPROPRIATE AND FILL IN COMPLETELY)

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

GENERAL DESCRIPTION:

SWMU: **114** Accumulation Area (AA) #: **386**
Location (bldg): **Drum Storage Area/Bldg. 386**
Site Contact: **Shop foremean in 386** Ext: **N/A**
Permission for Access? (Y) ~~N~~ If yes, explain: **Locked Entry**
Type of Wastes Observed **None**

TYPE: (CIRCLE AS APPROPRIATE)

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

CONDITION:

~~Stain(s)~~ ~~Odor(s)~~ ~~Crack(s)~~
Placards/Labels: ~~Y~~ (N) If Yes, list:
Observations: **Clean pavement; storage area at the northwest end of the building.**
Status: **Area has been cleared as of 11-10-95.**

DIMENSIONS: (ESTIMATED SIZE OR AREA IN FT)

AA/SWMU: **25x50 ft.**
"Stain(s)" : **None observed.**
Any Restrictions To Access?: **Fence, dumpster.**

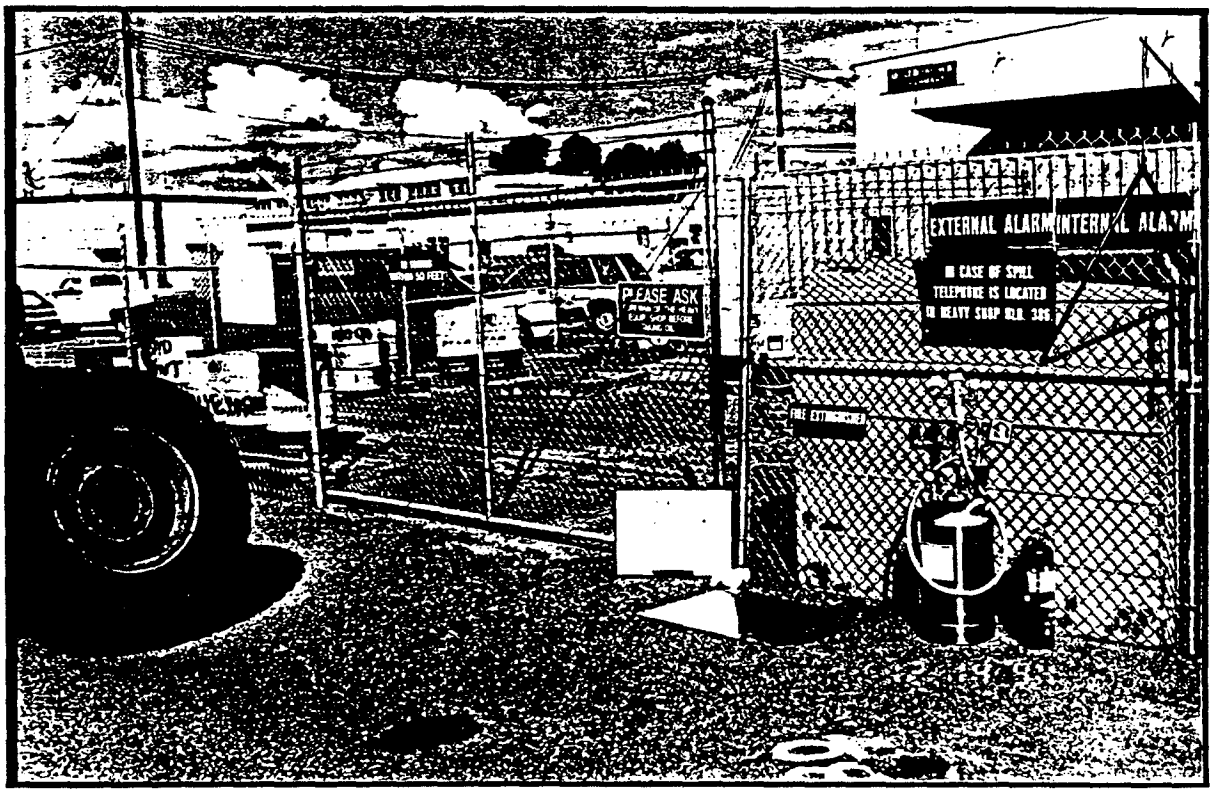
EVALUATION OF REMOVAL/DECONTAMINATION STRATEGY (CIRCLE AS APPROPRIATE)

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

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

DATE/TIME OF SURVEILLANCE: 12-2-94/10:00
UPDATED: 11-10-95/11:11
SURVEILLANCE PERFORMED BY: Larry Bauman

PHOTO LOG



SWMU #: 114

PHOTO DATE: 12-14-94

Table 1-2 (continued)

SWMU[a]/TAA[b]	Description; Location	Proposed Action(s)
GROUP 2 TAAs (continued)		
73/TAA 297	Drum Storage Area; Bldg. 297	Evaluate removal and/or decontamination strategy
83/TAA 298	Drum Storage Area; Bldg. 298	Evaluate removal and/or decontamination strategy
88/TAA 306	HWSA; Bldg. 306	Evaluate removal and/or decontamination strategy
269/TAA 314	HWSA; Bldg. 314	Evaluate removal and/or decontamination strategy
93/TAA 317	Drum Storage Area; Bldg. 317	Evaluate removal and/or decontamination strategy
97/TAA 357	Drum Storage Area; Bldg. 357	Evaluate removal and/or decontamination strategy
254/TAA 359A	Drum Storage Area; Bldg. 359A	Evaluate removal and/or decontamination strategy
99/TAA 359B	HWSA; Bldg. 359B	Evaluate removal and/or decontamination strategy
107/TAA 371A	HWSA; Bldg. 371A	Evaluate removal and/or decontamination strategy
242/TAA 371B	HWSA; Bldg. 371	Evaluate removal and/or decontamination strategy
114/TAA 386	Drum Storage Area; Bldg. 386	Evaluate removal and/or decontamination strategy
116/TAA 388A	HWSA; Bldg. 388	Evaluate removal and/or decontamination strategy
251/TAA 388B	Drum Storage Area; Bldg. 388	Evaluate removal and/or decontamination strategy
119/TAA 389A	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
259/TAA 389B	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
122/TAA 390A	Drum Storage Area; Bldg. 390	Evaluate removal and/or decontamination strategy
261/TAA 390B	HWSA; Bldg. 390	Evaluate removal and/or decontamination strategy
124/TAA 392A	Drum Storage Area; Bldg. 392	Evaluate removal and/or decontamination strategy
271/TAA 392B	HWSA; Bldg. 392	Evaluate removal and/or decontamination strategy
252/TAA 398	HWSA; Bldg. 398	Evaluate removal and/or decontamination strategy
256/TAA 441	HWSA; Bldg. 441	Evaluate removal and/or decontamination strategy
126/TAA 442	HWSA; Bldg. 442	Evaluate removal and/or decontamination strategy
127/TAA 445	Drum Storage Area; Bldg. 445	Evaluate removal and/or decontamination strategy
130/TAA 447	Drum Storage Area; Bldg. 447	Evaluate removal and/or decontamination strategy
135/TAA 456	Drum Storage Area; Bldg. 456	Evaluate removal and/or decontamination strategy
138/TAA 461	HWSA; Bldg. 461	Evaluate removal and/or decontamination strategy
140/TAA 462	HWSA; Bldg. 462	Evaluate removal and/or decontamination strategy
144/TAA 529	HWSA; Bldg. 529	Evaluate removal and/or decontamination strategy
146/TAA 534	Drum Storage Area; Bldg. 534	Evaluate removal and/or decontamination strategy

(table continues)

Attachment C
List of Accumulation Points and Hazardous Material Storage Areas from Station's HMWMP.

Final

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

August 1994

Appendix I
Photographs of Accumulation Points and Hazardous Material Storage Areas

Prepared for:

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

Prepared by:

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

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

Accumulation Points and Hazardous Material Storage Locations
MCAS El Toro

Page No.

Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Supply 4
Supply 4
Combat Service Support Detachment 14 (CSSD 14) 5
Combat Service Support Detachment 14 (CSSD 14) 5
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Wing Support Squadron 373 (MWSS 373), Refuelers 9
Marine Wing Support Squadron 373 (MWSS 373), Headquarters 9
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 10
Morale, Welfare & Recreation Department (MWR), Golf Course 10
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine All Weather Fighter Attack Squadron 242 (VFMA (AW) 242) 12
Marine All Weather Fighter Attack Squadron 121 (VFMA (AW) 121) 12
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Aviation Logistics Squadron 11 (MALS 11), Avionics 14
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance 14
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 15
Marine All Weather Fighter Attack Squadron 225 (VFMA (AW) 225) 15
Maytag Aircraft Corporation 16
Maytag Aircraft Corporation 16
MOD Team 17
Marine Fighter Attack Squadron 323 (VFMA 323) 17
Marine Fighter Attack Squadron 314 (VFMA 314) 18
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 18
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 20
Squadron Operations & Maintenance Squadron (SOMS), Recovery 20
Marine Wing Support Squadron Utilities (MWSS Utilities) 21
Marine Wing Support Squadron Utilities (MWSS Utilities) 21

Accumulation Points, El Toro (Continued)

Page No.

Marine Wing Headquarters Squadron 3 (MWHS 3) 22
Aero Club 22
Headquarters & Headquarters Squadron 38 (H&HS 38) 23
Marine Aircraft Group 46 (MAG 46) 23
Marine Aircraft Group 46 (MAG 46) 24
Marine Air Control Group 38 (MACG 38) 24
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Headquarters 26
Morale, Welfare & Recreation Department (MWR), Auto #1 26
Auto Hobby Shop 27
Armory 27
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 29
Environmental Above Ground Storge Tank 29
Environmental Above Ground Storge Tank 30

Hazardous Materials Storage Areas, El Toro

Headquarters & Headquarters Squadron 38 (H&HS 38), Storage Area 31
Aero Club, Storage Area 31
Marine Air Control Group 38 (MACG 38), Storage Area 32
Morale, Welfare & Recreation Department (MWR), Auto #1, Storage Area 32
Squadron Operations & Maint Squad (SOMS), HQ, Storage Area 33
Marine Fighter Attack Squadron 314 (VFMA 314), Storage Area 33
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 37
Marine Aviation Logistics Squadron 11 (MALS 11), Storage Area 37
Compressed Gas Cylinder Storage Area 38
Flammable Material Storage Area 38
Chemical Storage Area 39
Chemical Storage Area 39
Flammable Storage Area 40
Hospital Compressed Gas Storage Area 40
Hospital Flammable Material Storage Area 41

Attachment D
OHM Site Assessment Log

SITE ASSESSMENT LOG

MCAS EL TORO

TEMPORARY ACCUMULATION AREA & RFA SITE

18609, D.O. 70

TAA SITE: 386 RFA SITE: N/A SWMU NO. 114

Field Observations by: D. Rawal **Date:** 1/22/99

TAA area: Paved or Unpaved Asphalt, Open area, for receiving drums only, No TAA 386 exist.

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

Unpaved: Open on the Ground or Inside the Building X

Is there any Drums or any types of Waste Stored: Yes/No, If Yes, Describe:
Only New Lube oil drums that are received are stored on a pallet - out side. Bldg. 386. No Haz. waste drums are stored at this site.

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

Describe other Structural details: Good Asphalt paved area to store New Lube oil drums.

TAA Decontamination and/or Demolition Possible: Yes/No N/A

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

Nearest Building or Structure Distance: 770, 4 50 ft,

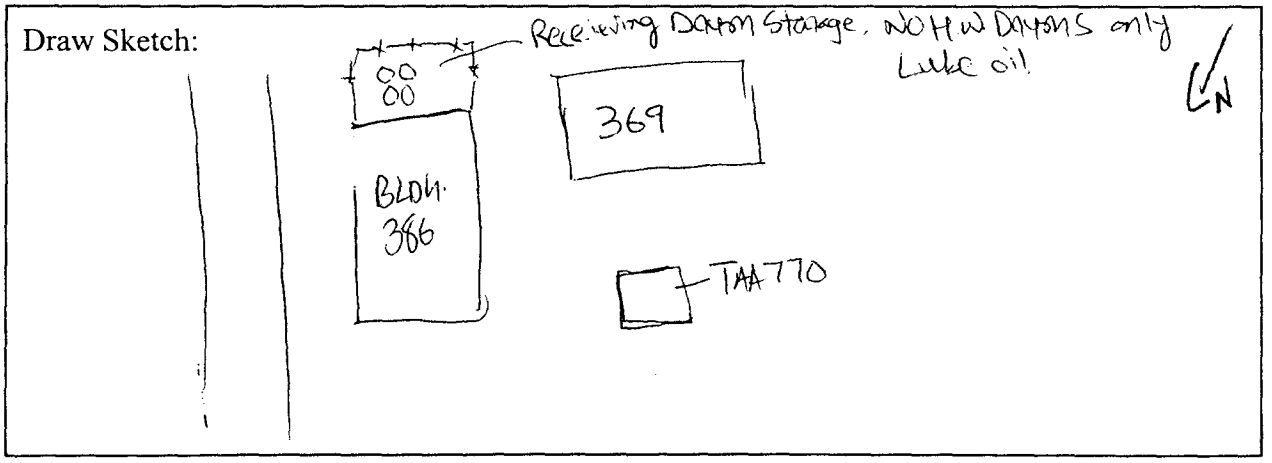
Any Underground Piping/Lines, or Transformer Observed:

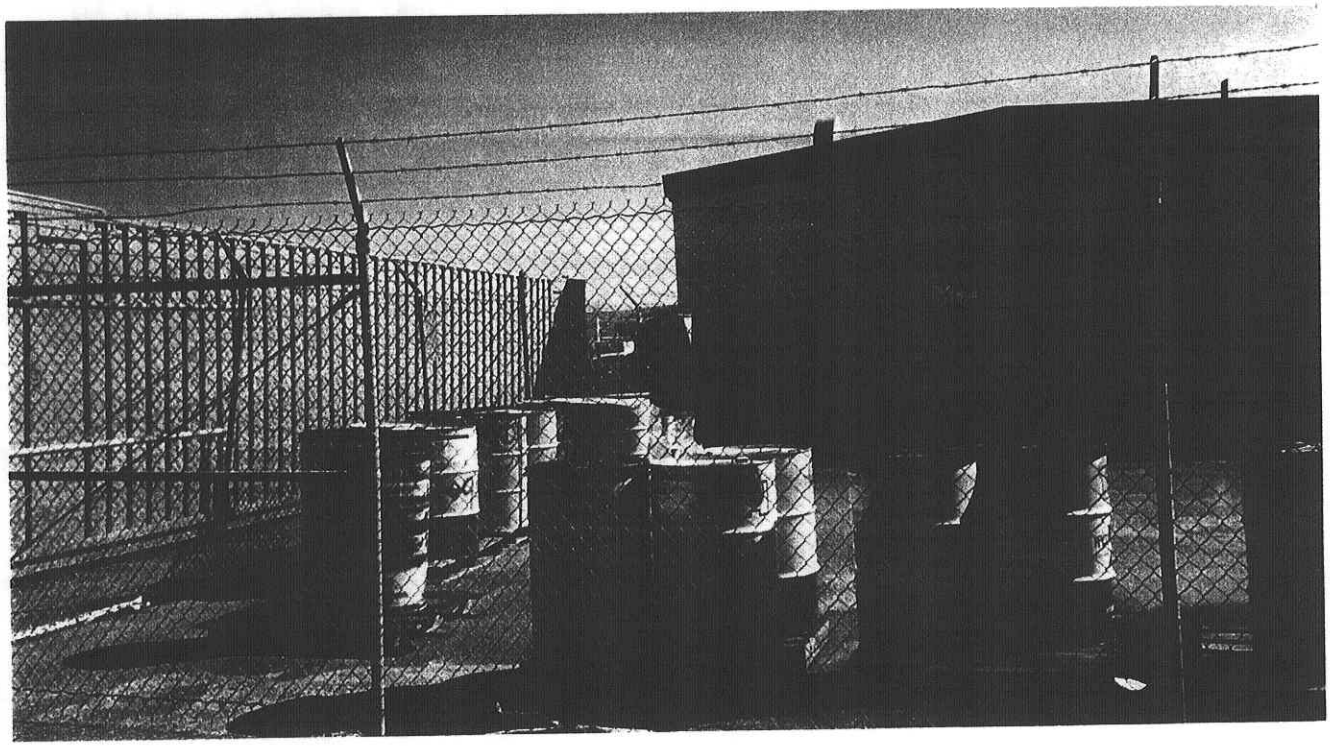
Per Station Personnel at Bldg 386, No Haz waste drums are stored at Bldg 386. They use TAA 770 as HWSA. Bldg 386 is a auto lube shop.

Overhead Utility Lines/Poles:

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

Draw Sketch:





TAA 386 - Current condition of the Building 386 area. New Lube Oil drums are received and kept outside and empty drums are left for base recycling. No TAA 386 was observed.

Attachment E
Excerpts from March 1998 Base Realignment and Closure Cleanup Plan

United States Marine Corps

Base Realignment and Closure Cleanup Plan (BCP)

For

Marine Corps Air Station El Toro, CA

March 1998

Table 3-1a
Site Summary
(Sheet 21 of 37)

Seq. No.	Database Tracking	Previous Parcel	New Parcel	Description	Material Disposed	Date of Operation	Status	Risk to Human Health and the Environment[1]	Regulatory Mechanism	NFA	Comments	ECP Area Type[1]
515	TAA 115	5A	I1	< 90-day accumulation area-Bldg. 115			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 39	3
516	TAA 130A	2A	R	< 90-day accumulation area-Bldg. 130			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 294	1
517	TAA 130B	2A	R	< 90-day accumulation area-Bldg. 130			Active				See Tables 3-9 and 3-13; SWMU/AOC 295	1
518	TAA 130C	2A	R	< 90-day accumulation area-Bldg. 130			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 42	1
519	TAA 155A	5A	K	< 90-day accumulation area-Bldg. 155			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 240	1
520	TAA 155B	5A	K	< 90-day accumulation area-Bldg. 155			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 241	1*
521	TAA 155C	5A	K	< 90-day accumulation area-Bldg. 155			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 45	1*
522	TAA 240	1A	H1	< 90-day accumulation area-Bldg. 240			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 64	1
523	TAA 242	1A	H1	< 90-day accumulation area-Bldg. 242			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 67	1*
524	TAA 289	5A	H1	< 90-day accumulation area-Bldg. 289			Active				See Tables 3-9 and 3-13; SWMU/AOC 70	1*
525	TAA 297	5A		< 90-day accumulation area-Bldg. 297			Active				See Tables 3-9 and 3-13; SWMU/AOC 73	1*
526	TAA 298	4A	A2	< 90-day accumulation area-Bldg. 298			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 83	1
527	TAA 306	4A	A2	< 90-day accumulation area-Bldg. 306			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 88	6
528	TAA 307	4A	A2	< 90-day accumulation area-Bldg. 307			Active				See Table 3-9	7
529	TAA 314	4A	A1	Fuel storage locker-Bldg. 314			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 269	1*
530	TAA 317	4B	A4	< 90-day accumulation area-Bldg. 317			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 93	1
531	TAA 357	4A	A1	< 90-day accumulation area - Bldg. 357			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 97	1
532	TAA 359A	4B	A4a	< 90-day accumulation area-Bldg. 359			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 254	1
533	TAA 359B	4B	A4a	< 90-day accumulation area-Bldg. 359			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 99	1*
534	TAA 370	4A	A2	Hazardous material storage/ < 90-day accumulation area-Bldg. 370			Active				See Table 3-9	7
535	TAA 371A	5A	B1	< 90-day accumulation area-Bldg. 371			Active				See Tables 3-9 and 3-13; SWMU/AOC 107	1
536	TAA 371B	5A	B1	< 90-day accumulation area-Bldg. 371			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 242	1*
537	TAA 386	4A	A2	< 90-day accumulation area-Bldg. 386			Active				See Tables 3-9 and 3-13; SWMU/AOC 114	1

Table 3-9
Less-Than-90-Day Accumulation Areas
(Sheet 3 of 5)

Database Tracking	Building Number	Previous Parcel	New Parcel	Status	Closure Evaluation[1]	SWMU/ AOC No.	RFA Sampling	Comments	ECP Area Type[2]
TAA 370	370	4A	A2	Active	X	-		Identified in 1994 SPCC Plan. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	7
TAA 371A	371	5A	B1	Active	X	107	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 371B	371	5A	B1	Active	X	242	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 109	379	4A[4]	A1	Inactive		109		Source: SPCC map (no date). Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*
TAA 386	386	4A	A2	Active	X	114		Source: 1980 DHS photograph; no evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 388A	388	4A	A1	Active	X	116	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 388B	388	4A	A1	Active	X	251		No evidence of release/surface defects. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 389A	389	3A	J4	Inactive	X	119		No evidence of release. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 389B	389	3A	J4	Inactive	X	259		Drum storage not confirmed. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 390A	390	3A	J4	Inactive	X	122		Source: 1980 DHS photograph; no evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 390B	390	3A	J4	Inactive	X	261	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 392A	392	2A	R	Active	X	124	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 392B	392	2A	R	Inactive	X	271	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 398	398	5A	K	Inactive	X	252	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 125	415	2B	I2	Inactive	X	125	X	Site was dismantled and stored waste had been removed since VSI was conducted in 1991. NFA concurrence by DTSC (letter dated 7/23/96).	3
TAA 441	441	3A	B1	Inactive	X	256	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 442	442	3A	B1	Inactive	X	126		New site; no evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 443	443	1G	C2	Active		-		Not plotted on Figure 3-1 or Figure 3-4.	7
TAA 445	445	4A	A1	Inactive	X	127		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 447	447	3A	B1	Inactive	X	130	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 133	453	3A[4]	B1	Inactive		133		Source: SPCC map (no date). Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*

RESULTS OF THE RECORD SEARCH

SWMU/AOC Name: Hazardous Waste Storage Area (HWSA)

TAA 398	SWMU/AOC No: 252	1998 BCP ID: 546

JEG's Final RCRA Facility Assessment Report, (1993) Notes: During the VSI in May 1991, JEG team observed a HWSA south of Building 698. It was a 20 x 25 feet concrete pad with berm and sump. Per JEG VSI, HWSA appears to be inactive. JEG team observed some paint stains around the berms. The concrete floor was filled with water. Some stains on the concrete pad and surrounding asphalt were observed. JEG recommended a sampling visit at this site. One, 60-feet deep angle soil boring was drilled and 6 soil samples were collected. No TPH, VOCs, SVOCs, Pesticides/PCBs, and Metal compounds were detected above the laboratory detection limits. A copy of the JEG RFA VSI Evaluation form is included in Attachment A.
JEG's Recommendations: Based on the review of the soil sampling data, No Further Action.

Bechtel's Final Addendum RCRA Facility Assessment Report [1996 (Notes)]: BNI visited Building 398 in November 1995 as part of VSI and identified an AST as a SWMU 252. Per BNI, AST was removed in 2/92 and OHM is using the 398 area. No sign of any hazardous waste storage area inside or outside of the building was observed. A copy of the BNI Accumulation Area Evaluation Checklist is included in Attachment B.

BNI's Recommendation: Evaluate Removal and/or Decontamination Strategy.

Station's Hazardous Materials / Waste Management Plan (August 1994) Notes: Station's HMWMP does not identify a HWSA or TAA 398 at Building 398 as a less than 90 day storage facility or an accumulation point for storage of hazardous waste. Copies of the excerpts from the HMWMP, listing accumulation points and hazardous materials storage areas at MCAS El Toro are included in Attachment C.

OHM's Site Visit and Recommendations: OHM visited Building 372, Tank 398 area in April 1997 and January 1999. OHM discovered no physical evidence or sign of a current or former temporary HWSA at this facility. A copy of the OHM Site Assessment Log is included in Attachment D.

After reviewing JEG and BNI VSI record, it is obvious that no less than 90-day facility or an accumulation point for storage of hazardous waste ever existed at Tank 398 area or at Building 372. JEG identified an active HWSA at Building 698 as a TAA 398. But, HWSA at Building 698 is called TAA 698 (BCP ID 569) and will be closed as required under 40 CFR part 262.34.

Based on the review of the historical records from JEG, BNI, Station's HMWMP, and OHM field VSI records, OHM concludes that no such HWSA exists at Building 398. Therefore, **OHM recommends that Station delete the TAA 398 (BCP ID. 546) from the BCP list of Environmental Locations of Concern (Table 3-1a Site Summary and Table 3-9 Less Than 90-Day Accumulation Areas).** Copies of the TAA 398 excerpts from the March 1998 BCP are included in Attachment E.

Attachment A
JEG RFA VSI Evaluation Form

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

VOLUME I

16 July 1993

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

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

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

In association with:
International Technology Corporation
CH2M HILL

10020667.SCO\93\MA

Evaluation Form
SWMU/Area of Concern
Number 252

Unit Characteristics

This hazardous waste storage area (HWSA) is located south of Building 698 and east of Building 763, approximately 40 feet from the Building 763 washrack (SWMU/AOC Number 210). The HWSA consists of a bermed concrete pad covered by an aluminum roof. A sump is located in the eastern corner of the concrete pad. The area surrounding the HWSA is asphalt paved. The HWSA appeared to be inactive at the time of the visual site inspection. The HWSA was empty with the exception of a few metal pallets. Approximately 2 inches of ponded water was present in the bottom of the HWSA. Due to the presence of the ponded water in the HWSA, the condition of the concrete wash surface was difficult to observe. Paint stains were observed on the berm on the northeast corner of the HWSA. Some staining was observed on the surrounding asphalt near the northwest corner and east side of the HWSA.

Waste Characteristics

Unknown

Possible Migration Pathways

Soil

Evidence of Release

Small stains on HWSA berm and on asphalt adjacent to HWSA

Exposure Potential

Authorized on-Station personnel

Recommendations

There is evidence of minor spillage outside of the former HWSA. As a former HWSA, this SWMU/AOC is recommended for a sampling visit.

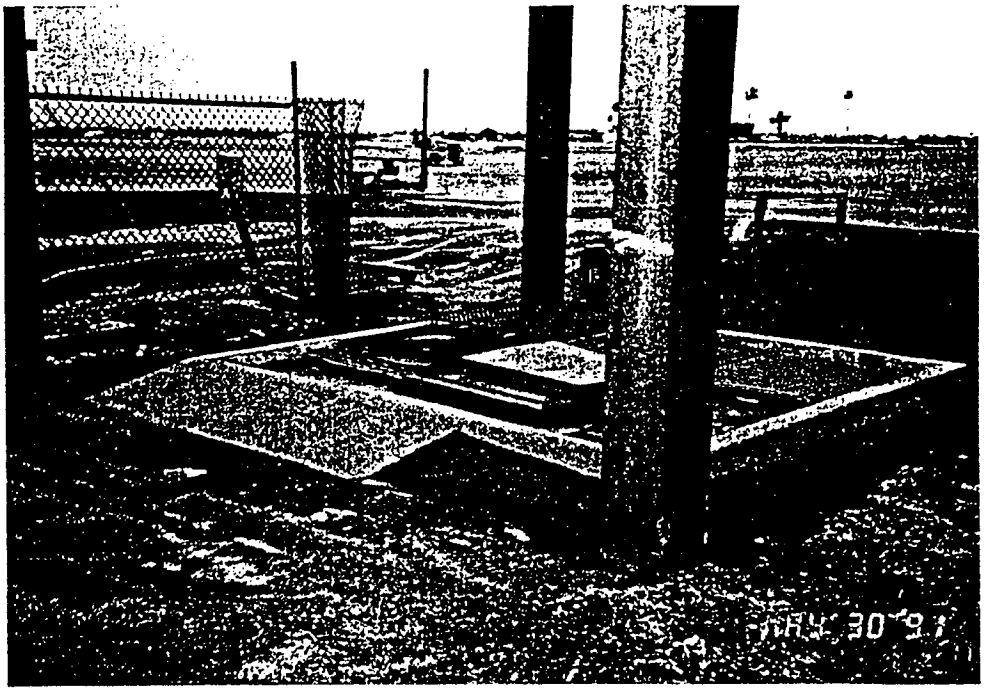
Evaluation Form
SWMU/Area of Concern
Number 252

Name: Hazardous Waste Storage Area

Location: South of Bldg. 698

Size: 144 sq ft

Date of Site Visit: 01 May 1991



Period of Operation

Currently inactive

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						
252	Hazardous Waste Storage Area (64)	A1	10	ND	ND	ND	Methylene Chloride-14 B * Acetone-27 B *	ND	Endosulfan Sulfate-0.44	Antimony-ND Selenium-ND Barium-147 Silver-0.49 B	NFA	TPH/TFH < 100 ppm VOCs < CRDL SVOCs < CRDL Pest/PCB < ETM & PRG Metals < ETM & PRG CRDL - Contract Required Detection Limit
			20	ND	ND	ND	Methylene Chloride-16 B * Acetone-53 B *	ND	ND	Antimony-6 3 B Selenium-ND Barium-145 Silver-0 49 B		
			30	ND	ND	ND	Methylene Chloride-9 BJ * Acetone-39 B *	ND	ND	Antimony-ND Selenium-ND Barium-133 Silver-ND		
			40	ND	ND	ND	Methylene Chloride-21 B * Acetone-51 B *	ND	ND	Antimony-ND Selenium-ND Barium-131 Silver-0 59 B		
			40 (Duplicate)	ND	ND	ND	Methylene Chloride-11 BJ * Acetone-59 B *	ND	ND	Antimony-ND Selenium-0 61 B Barium-288 Silver-ND		
			50	ND	ND	ND	Methylene Chloride-6 BJ * Acetone-20 B *	ND	ND	Antimony-ND Selenium-ND Barium-115 Silver-ND		
			60	ND	ND	ND	Methylene Chloride-6 BJ * Acetone-13 B *	ND	ND	Antimony-ND Selenium-ND Barium-57 7 Silver-ND		

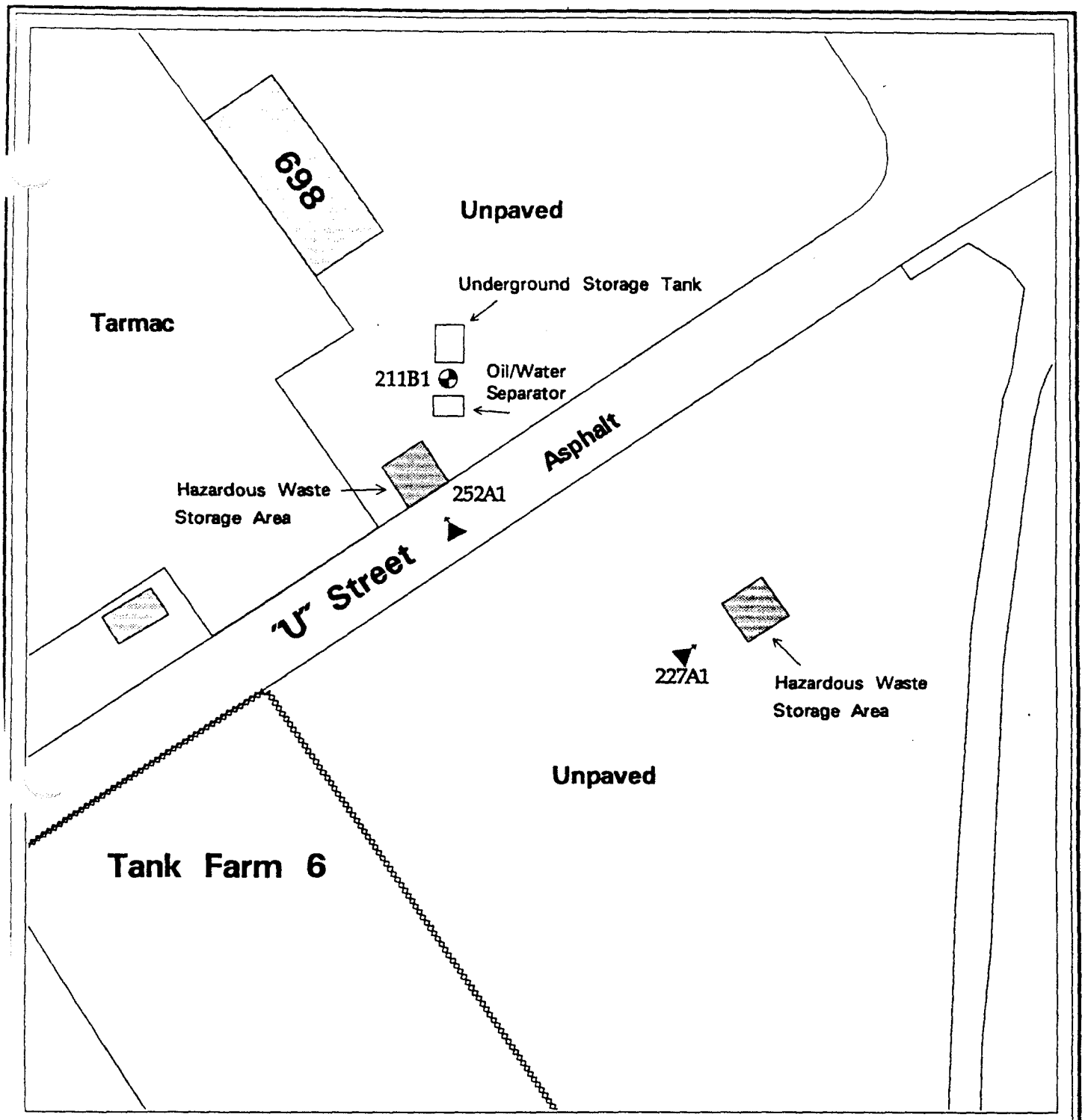


Figure 64 Sample Location Map

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:

211 - Oil/Water Separator

227 - Hazardous Water Storage Area

252 - Hazardous Waste Storage Area

MCAS El Toro
RCRA Facility Assessment

Table 6-15
Recommendations for SWMUs/AOCs
MCAS El Toro RFA

SWMU No.	SWMU/AOC Type	Recommendation (FA/NFA)	Description of Further Action	Rationale for Further Action
224	Hazardous Waste Storage Area	NFA	--	--
225	Hazardous Waste Storage Area	NFA	--	--
226	Hazardous Waste Storage Area	NFA	--	--
227	Hazardous Waste Storage Area	NFA	--	--
229	Hazardous Waste Storage Area	NFA	--	--
231	Underground Storage Tank	NFA	--	--
232	Oil/Water Separator	NFA	--	--
233	Oil/Water Separator	NFA	--	--
234	Hazardous Waste Storage Area	NFA	--	--
241	Drum Storage Area	NFA	--	--
242	Hazardous Waste Storage Area	NFA	--	--
243	Wash Rack	NFA	--	--
244	PCB Spill Area	NFA	--	--
248	Oil/Water Separator	NFA	--	--
249	Underground Storage Tank	NFA	--	--
250	Underground Storage Tank	NFA	--	--
252	Hazardous Waste Storage Area	NFA	--	--
253	Vehicle Wash Rack	NFA	--	--
255	Hazardous Waste Storage Area	NFA	--	--
256	Hazardous Waste Storage Area	NFA	--	--
257	Wash Water Runoff Site	NFA	--	--
258	Wash Water Runoff Site	NFA	--	--
260	Aboveground Storage Tank	FA	Repair cracks in pavement	Prevent future migration of petroleum hydrocarbons
261	Drum Storage Area	NFA	--	--
262	Fuel Storage Area	NFA	--	--
263	Underground Storage Tank	NFA	--	--
264	Equipment Storage Area	NFA	--	--
265	Metal Plating Sewer Lines	NFA	--	--
269	Fuel Storage Locker	NFA	--	--
270	Wash Rack	NFA	--	--

Attachment B
BNI VSI Accumulation Area Evaluation Check List

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

Contract No. N68711-92-D-4670

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY

CLEAN II

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

CTO-0065/0170

May 1996

Prepared by:

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

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

ACCUMULATION AREA EVALUATION CHECKLIST

(CIRCLE AS APPROPRIATE AND FILL IN COMPLETELY)

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

GENERAL DESCRIPTION:

SWMU #: **252** Accumulation Area (AA) #: **398**
Location (bldg): **HWSA/Bldg. 398**
Site Contact: **Leta Suarez** Ext: **2772**
Permission for Access? ~~Y~~ N If yes, explain: **N/A.**
Type of Wastes Observed **None**

TYPE: (CIRCLE AS APPROPRIATE)

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

CONDITION:

~~Stain(s)~~ ~~Odor(s)~~ ~~Crack(s)~~
Placards/Labels: Y ~~N~~ If Yes, list: **OHN RAC contractor site.**

Observations: **SWMU 252/TAA 398 was an aboveground storage tank and was removed in 2/92. Area is presently under Remedial Action contractor activities.**
Status: **Active as of 11-10-95.**

DIMENSIONS: (ESTIMATED SIZE OR AREA IN FT)

AA/SWMU: **150x150 ft.**
"Stain(s)": **none observed.**
Any Restrictions To Access?: **none.**

EVALUATION OF REMOVAL/DECONTAMINATION STRATEGY (CIRCLE AS APPROPRIATE)

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

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

DATE/TIME OF SURVEILLANCE: 11/10/95/09:33
UPDATED: 11-10-95/09:33
SURVEILLANCE PERFORMED BY: Jacques Lord

PHOTO LOG

SWMU #: 252

PHOTO DATE: 12-14-94

Table 1-2 (continued)

SWMU[a]/TAA[b]	Description; Location	Proposed Action(s)
GROUP 2 TAAs (continued)		
73/TAA 297	Drum Storage Area; Bldg. 297	Evaluate removal and/or decontamination strategy
83/TAA 298	Drum Storage Area; Bldg. 298	Evaluate removal and/or decontamination strategy
88/TAA 306	HWSA; Bldg. 306	Evaluate removal and/or decontamination strategy
269/TAA 314	HWSA; Bldg. 314	Evaluate removal and/or decontamination strategy
93/TAA 317	Drum Storage Area; Bldg. 317	Evaluate removal and/or decontamination strategy
97/TAA 357	Drum Storage Area; Bldg. 357	Evaluate removal and/or decontamination strategy
254/TAA 359A	Drum Storage Area; Bldg. 359A	Evaluate removal and/or decontamination strategy
99/TAA 359B	HWSA; Bldg. 359B	Evaluate removal and/or decontamination strategy
107/TAA 371A	HWSA; Bldg. 371A	Evaluate removal and/or decontamination strategy
242/TAA 371B	HWSA; Bldg. 371	Evaluate removal and/or decontamination strategy
114/TAA 386	Drum Storage Area; Bldg. 386	Evaluate removal and/or decontamination strategy
116/TAA 388A	HWSA; Bldg. 388	Evaluate removal and/or decontamination strategy
251/TAA 388B	Drum Storage Area; Bldg. 388	Evaluate removal and/or decontamination strategy
119/TAA 389A	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
259/TAA 389B	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
122/TAA 390A	Drum Storage Area; Bldg. 390	Evaluate removal and/or decontamination strategy
261/TAA 390B	HWSA; Bldg. 390	Evaluate removal and/or decontamination strategy
124/TAA 392A	Drum Storage Area; Bldg. 392	Evaluate removal and/or decontamination strategy
271/TAA 392B	HWSA; Bldg. 392	Evaluate removal and/or decontamination strategy
252/TAA 398	HWSA; Bldg. 398	Evaluate removal and/or decontamination strategy
256/TAA 441	HWSA; Bldg. 441	Evaluate removal and/or decontamination strategy
126/TAA 442	HWSA; Bldg. 442	Evaluate removal and/or decontamination strategy
127/TAA 445	Drum Storage Area; Bldg. 445	Evaluate removal and/or decontamination strategy
130/TAA 447	Drum Storage Area; Bldg. 447	Evaluate removal and/or decontamination strategy
135/TAA 456	Drum Storage Area; Bldg. 456	Evaluate removal and/or decontamination strategy
138/TAA 461	HWSA; Bldg. 461	Evaluate removal and/or decontamination strategy
140/TAA 462	HWSA; Bldg. 462	Evaluate removal and/or decontamination strategy
144/TAA 529	HWSA; Bldg. 529	Evaluate removal and/or decontamination strategy
146/TAA 534	Drum Storage Area; Bldg. 534	Evaluate removal and/or decontamination strategy

(table continues)

Attachment C
List of Accumulation Points and Hazardous Material Storage Areas from Station's HMWMP.

Final

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

August 1994

Appendix I
Photographs of Accumulation Points and Hazardous Material Storage Areas

Prepared for:

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

Prepared by:

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

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

Accumulation Points and Hazardous Material Storage Locations
MCAS El Toro

Page No.

Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Supply 4
Supply 4
Combat Service Support Detachment 14 (CSSD 14) 5
Combat Service Support Detachment 14 (CSSD 14) 5
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Wing Support Squadron 373 (MWSS 373), Refuelers 9
Marine Wing Support Squadron 373 (MWSS 373), Headquarters 9
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 10
Morale, Welfare & Recreation Department (MWR), Golf Course 10
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine All Weather Fighter Attack Squadron 242 (VFMA (AW) 242) 12
Marine All Weather Fighter Attack Squadron 121 (VFMA (AW) 121) 12
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Aviation Logistics Squadron 11 (MALS 11), Avionics 14
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance 14
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 15
Marine All Weather Fighter Attack Squadron 225 (VFMA (AW) 225) 15
Maytag Aircraft Corporation 16
Maytag Aircraft Corporation 16
MOD Team 17
Marine Fighter Attack Squadron 323 (VFMA 323) 17
Marine Fighter Attack Squadron 314 (VFMA 314) 18
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 18
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 20
Squadron Operations & Maintenance Squadron (SOMS), Recovery 20
Marine Wing Support Squadron Utilities (MWSS Utilities) 21
Marine Wing Support Squadron Utilities (MWSS Utilities) 21

Accumulation Points, El Toro (Continued)

Page No.

Marine Wing Headquarters Squadron 3 (MWHS 3) 22
Aero Club 22
Headquarters & Headquarters Squadron 38 (H&HS 38) 23
Marine Aircraft Group 46 (MAG 46) 23
Marine Aircraft Group 46 (MAG 46) 24
Marine Air Control Group 38 (MACG 38) 24
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Headquarters 26
Morale, Welfare & Recreation Department (MWR), Auto #1 26
Auto Hobby Shop 27
Armory 27
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 29
Environmental Above Ground Storge Tank 29
Environmental Above Ground Storge Tank 30

Hazardous Materials Storage Areas, El Toro

Headquarters & Headquarters Squadron 38 (H&HS 38), Storage Area 31
Aero Club, Storage Area 31
Marine Air Control Group 38 (MACG 38), Storage Area 32
Morale, Welfare & Recreation Department (MWR), Auto #1, Storage Area 32
Squadron Operations & Maint Squad (SOMS), HQ, Storage Area 33
Marine Fighter Attack Squadron 314 (VFMA 314), Storage Area 33
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 37
Marine Aviation Logistics Squadron 11 (MALS 11), Storage Area 37
Compressed Gas Cylinder Storage Area 38
Flammable Material Storage Area 38
Chemical Storage Area 39
Chemical Storage Area 39
Flammable Storage Area 40
Hospital Compressed Gas Storage Area 40
Hospital Flammable Material Storage Area 41

Attachment D
OHM Site Assessment Log

SITE ASSESSMENT LOG

MCAS EL TORO

TEMPORARY ACCUMULATION AREA & RFA SITE

18609, D.O. 70

398 RFA SITE:_____ SWMU NO. 852

vations by: Veith Williams **Date:** 5/1/97

Paved or (Unpaved)

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

(Open on the Ground) or Inside the Building

Drums or any types of Waste Stored: Yes (No) If Yes, Describe:

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

ner Structural details: NO STRUCTURE ASSOCIATED WITH TAA
ow in vicinity of OHM PRODUCT RECOVERY TANK
tamination and/or Demolition Possible: (Yes) No

onstrains: Equipment Operation, movement of Excavator or Backhoe YES. LOCATION
in product RECOVERY LINES ADJACENT to LOCATION.
lding or Structure Distance: BUILDING 398 LOCATED APPROX 75' WEST

ground Piping/Lines, or Transformer Observed: YES

tility Lines/Poles: NO

Roll No._____ Please attach all the Photographs to this sheet.

ch:

TAA 398 - Current condition of the Tank 398 area and Building 372. No TAA 398 was observed.

TAA - 398

Attachment E
Excerpts from March 1998 Base Realignment and Closure Cleanup Plan

United States Marine Corps

Base Realignment and Closure Cleanup Plan (BCP)

For

Marine Corps Air Station El Toro, CA

March 1998

Table 3-9
Less-Than-90-Day Accumulation Areas
(Sheet 3 of 5)

Database Tracking	Building Number	Previous Parcel	New Parcel	Status	Closure Evaluation[1]	SWMU/ AOC No.	RFA Sampling	Comments	ECP Area Type[2]
TAA 370	370	4A	A2	Active	X	-		Identified in 1994 SPCC Plan. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	7
TAA 371A	371	5A	B1	Active	X	107	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 371B	371	5A	B1	Active	X	242	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 109	379	4A[4]	A1	Inactive		109		Source: SPCC map (no date). Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*
TAA 386	386	4A	A2	Active	X	114		Source: 1980 DHS photograph; no evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 388A	388	4A	A1	Active	X	116	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 388B	388	4A	A1	Active	X	251		No evidence of release/surface defects. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 389A	389	3A	J4	Inactive	X	119		No evidence of release. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 389B	389	3A	J4	Inactive	X	259		Drum storage not confirmed. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 390A	390	3A	J4	Inactive	X	122		Source: 1980 DHS photograph; no evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 390B	390	3A	J4	Inactive	X	261	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 392A	392	2A	R	Active	X	124	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 392B	392	2A	R	Inactive	X	271	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 398	398	5A	K	Inactive	X	252	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 125	415	2B	I2	Inactive	X	125	X	Site was dismantled and stored waste had been removed since VSI was conducted in 1991. NFA concurrence by DTSC (letter dated 7/23/96).	3
TAA 441	441	3A	B1	Inactive	X	256	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 442	442	3A	B1	Inactive	X	126		New site; no evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 443	443	1G	C2	Active		-		Not plotted on Figure 3-1 or Figure 3-4.	7
TAA 445	445	4A	A1	Inactive	X	127		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 447	447	3A	B1	Inactive	X	130	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 133	453	3A[4]	B1	Inactive		133		Source: SPCC map (no date). Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*

Table 3-1a
Site Summary
(Sheet 22 of 37)

Seq. No.	Database Tracking	Previous Parcel	New Parcel	Description	Material Disposed	Date of Operation	Status	Risk to Human Health and the Environment[1]	Regulatory Mechanism	NFA	Comments	ECP Area Type[3]
538	TAA 388A	4A	A1	< 90-day accumulation area-Bldg. 388			Active				See Tables 3-9 and 3-13; SWMU/AOC 116	1*
539	TAA 388B	4A	A1	< 90-day accumulation area-Bldg. 388			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 251	1
540	TAA 389A	3A	J4	< 90-day accumulation area-Bldg. 389			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 119	1
541	TAA 389B	3A	J4	< 90-day accumulation area-Bldg. 389			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 259	1
542	TAA 390A	3A	J4	< 90-day accumulation area-Bldg. 390			Active				See Tables 3-9 and 3-13; SWMU/AOC 122	1
543	TAA 390B	3A	J4	< 90-day accumulation area-Bldg. 390			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 261	1*
544	TAA 392A	2A	R	< 90-day accumulation area-Bldg. 392			Active				See Tables 3-9 and 3-13; SWMU/AOC 124	1*
545	TAA 392B	2A	R	< 90-day accumulation area-Bldg. 392			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 271	1*
546	TAA 398	5A	K	< 90-day accumulation area-Bldg. 398			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 252	1*
547	TAA 441	3A	B1	< 90-day accumulation area-Bldg. 441			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 256	1*
548	TAA 442	3A	B1	< 90-day accumulation area-Bldg. 442			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 126	1
549	TAA 443	1G	C2	< 90-day accumulation area-Bldg. 443			Active				See Table 3-9	7
550	TAA 445	4A	A1	< 90-day accumulation area-Bldg. 445			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 127	1
551	TAA 447	3A	B1	< 90-day accumulation area-Bldg. 447			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 130	1*
552	TAA 456	3A	B1	< 90-day accumulation area-Bldg. 456			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 135	1
553	TAA 461	5A	B1	< 90-day accumulation area-Bldg. 461			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 138	1
554	TAA 462	5A	B1	< 90-day accumulation area-Bldg. 462			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 140	1
555	TAA 529	4A	A2	< 90-day accumulation area-Bldg. 529			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 144	1
556	TAA 534	4B	A3	< 90-day accumulation area-Bldg. 534			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 146	1
557	TAA 602	2A	R	< 90-day accumulation area-Bldg. 602			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 147	1*
558	TAA 605	5A	I1	< 90-day accumulation area-Bldg. 605			Active				See Tables 3-9 and 3-13; SWMU/AOC 149	1*
559	TAA 606	5A	I1	< 90-day accumulation area-Bldg. 606			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 255	1
560	TAA 626	1B	H2	< 90-day accumulation area-Bldg. 626			Active				See Tables 3-9 and 3-13; SWMU/AOC 158	6

Table 3-1a
Site Summary
(Sheet 23 of 37)

Seq. No.	Database Tracking	Previous Parcel	New Parcel	Description	Material Disposed	Date of Operation	Status	Risk to Human Health and the Environment[1]	Regulatory Mechanism	NFA	Comments	ECP Area Type[3]
561	TAA 634	2A	R	< 90-day accumulation area-Bldg. 634			Active				See Table 3-9	1*
562	TAA 636	3A	B1	< 90-day accumulation area-Bldg. 636			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 160	1*
563	TAA 651	1G	C2	< 90-day accumulation area-Bldg. 651			Active				See Tables 3-9 and 3-13; SWMU/AOC 165	1*
564	TAA 658	2A	I1	< 90-day accumulation area-Bldg. 658			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 171	3
565	TAA 671	4A	A1	< 90-day accumulation area-Bldg. 671			Active				See Tables 3-9 and 3-13; SWMU/AOC 172	1
566	TAA 672	4A	A1	< 90-day accumulation area-Bldg. 672			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 177	1
567	TAA 673	3A	J4	< 90-day accumulation area-Bldg. 673			Active				See Tables 3-9 and 3-13; SWMU/AOC 186	1
568	TAA 693	1G	C2	< 90-day accumulation area-Bldg. 693			Active				See Table 3-9	7
569	TAA 698	5A	I1	< 90-day accumulation area-Bldg. 698			Inactive				See Table 3-9	1
570	TAA 744	1G	C2	< 90-day accumulation area-Bldg. 744			Active				See Table 3-9	1*
571	TAA 746	2A	I1	< 90-day accumulation area-Bldg. 746			Active				See Table 3-9	7
572	TAA 747	2A	I1	< 90-day accumulation area-Bldg. 747			Active				See Table 3-9	7
573	TAA 761	3A	B1	< 90-day accumulation area-Bldg. 761			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 236	7
574	TAA 765	3F	J2	< 90-day accumulation area-Bldg. 765			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 266	1
575	TAA 769	4A	A2	< 90-day accumulation area-Bldg. 769			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 222	1
576	TAA 770	4A	A2	< 90-day accumulation area-Bldg. 770			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 223	1
577	TAA 771	1D	H2	< 90-day accumulation area-Bldg. 771			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 224	1
578	TAA 772	3F	J2	< 90-day accumulation area-Bldg. 772			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 225	1
579	TAA 778	5A		< 90-day accumulation area-Bldg. 778			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 226	1
580	TAA 779	5A	H1	< 90-day accumulation area-Bldg. 779			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 227	1
581	TAA 800	4B	A4b	< 90-day accumulation area-Bldg. 800			Active				See Tables 3-9 and 3-13; SWMU/AOC 229	1
582	TAA 831	3A	B1	< 90-day accumulation area-Bldg. 831			Active				See Table 3-9	7
583	TAA 856	3A	B1	< 90-day accumulation area-Bldg. 856			Active				See Tables 3-9 and 3-13; SWMU/AOC 234	1*
584	TAA 900	2A		EO accumulation area-Bldg. 900			Active				See Table 3-9	7
585	PCB T1	5A	H1	Transformer - F503496-65P, Pad 1311-Bldg. 6			Active			X	See Table 3-10	1

RESULTS OF THE RECORD SEARCH

SWMU/AOC Name: Hazardous Waste Storage Area (HWSA)

TAA 442	SWMU/AOC No: 126	1998 BCP ID: 548

JEG's Final RCRA Facility Assessment Report, (1993) Notes: A HWSA was observed by JEG team during the VSI in May 1991, JEG team observed a three section concrete pad with berm, 60 feet northeast of Building 441 as SWMU 126. HWSA seems to be very new and in operations for few month. Some drums of waste oil and absorbent materials were stored on the concrete floor. A copy of the JEG RFA VSI Evaluation form for SWMU 126 is included in Attachment A.

JEG's Recommendations: Since the HWSA has only been in operation for few months and no evidence of release was observed. No Further Action.

Bechtel's Final Addendum RCRA Facility Assessment Report [1996 (Notes)]: BNI visited Building 442 in November 1995 as part of VSI and found a different area as SWMU 126 then JEG. BNI discovered a metal cage, which was used for storage of lube oil. Some staining was observed but not significant to consider decon. Area was vacant as of November 1995. A copy of the BNI Accumulation Area Evaluation checklist form is included in Attachment B.

Station's Hazardous Materials / Waste Management Plan (August 1994) Notes: Station's HMWMP does not identify a HWSA or TAA 442 at Building 442 as a less than 90 day storage facility or an accumulation point for storage of hazardous waste. Copies of the excerpts from the HMWMP listing Accumulation points and Hazardous Materials or Waste Storage Areas for MCAS El Toro are included in Attachment C.

OHM's Site Visit and Recommendations: OHM visited Building 442 in April 1997 & January 1999. During the field visit, OHM discovered some empty locker / cage and pallets. Building was closed and abandoned for preparation for base closure. There was no evidence or sign of a temporary hazardous waste drum storage area at this facility. A copy of the OHM Site Assessment Log for TAA 445 is included in Attachment D.

Per review of the JEG VSI record, it is obvious that JEG team observed a HWSA designated at Building 441 (SWMU 256) and mistakenly identified as SWMU 126 again. There is only one HWSA, TAA 441 exist at Building 441. These TAA 441 will be closed per requirements of 40 CFR part 262.34 for less than 90-day storage facility. BNI and OHM confirmed that no HWSA exist at Building 442.

Based on the review of the historical records from JEG, BNI, Station's HMWMP, and OHM VSI records, OHM concludes that no such HWSA exists at Building 442. Therefore, **OHM recommends that Station delete the TAA 442 (BCP ID. 548) from the BCP list of Environmental Locations of Concern (Table 3-1a Site Summary & Table 3-9 Less Than 90-Day Accumulation Areas).** Copies of the March 1998 BCP excerpts for TAA 442 are included in Attachment E.

Attachment A
JEG RFA VSI Evaluation Form

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

VOLUME I

16 July 1993

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

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

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

In association with:
International Technology Corporation
CH2M HILL

10020667.SCO\93\MA

Evaluation Form
SWMU/Area of Concern
Number 126

Unit Characteristics

A HWSA is located approximately 60 ft northeast of Building 441. The HWSA is a new unit, in operation for approximately one month at the time of the visual site inspection. The HWSA consists of an uncovered 12-ft x 27-ft concrete pad with concrete berms. The pad is divided into three rectangular sections by concrete berms. An asphalt access ramp is located on the southern side of the pad. The HWSA is bordered on the south by asphalt pavement and on the other three sides by unpaved soil. No visual indications of releases were observed in direct proximity to the HWSA. (Note: The previous location of this HWSA is described in Evaluation Form SWMU/AOC Number 256).

Waste Characteristics

PD 680
Waste oil
Absorbent material

Possible Migration Pathways

Soil

Evidence of Release

None observed

Exposure Potential

Authorized on-Station personnel

Recommendations

Since this HWSA has only been is operation for a few months and there is no evidence of a release, no further action is recommended for this site

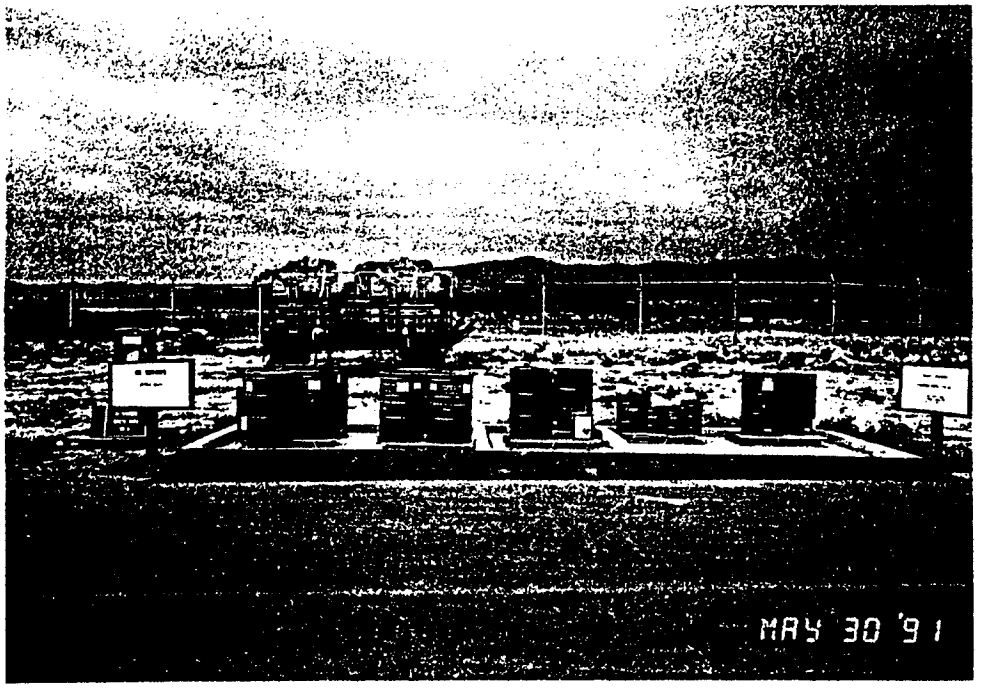
Evaluation Form
SWMU/Area of Concern
Number 126

Name: Hazardous Waste Storage Area

Location: Northeast of Building 441

Size: 324 sq ft

Date of Site Visit: 02 May 91



Period of Operation

Currently active

Attachment B
BNI VSI Accumulation Area Evaluation Check List

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

Contract No. N68711-92-D-4670

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY

CLEAN II

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

CTO-0065/0170

May 1996

Prepared by:

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

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

ACCUMULATION AREA EVALUATION CHECKLIST

(CIRCLE AS APPROPRIATE AND FILL IN COMPLETELY)

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

GENERAL DESCRIPTION:

SWMU #: **126** Accumulation Area (AA) #: **442**
Location (bldg): **HWSA/Bldg. 442**
Site Contact: **SSgt. Dan Cullett in Bldg 442** Ext: **N/A**
Permission for Access? ~~Y~~ N If yes, explain: **N/A**
Type of Wastes Observed: **None**

TYPE: (CIRCLE AS APPROPRIATE)

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

CONDITION:

Stain(s) ~~Odor(s)~~ ~~Crack(s)~~
Placards/Labels: ~~Y~~ N If Yes, list:
Observations: **Metal Cage. Used to store lube oils. Some staining but not significant enough to consider decon. Similar to parking lot drip stains. No berm.**
Status: **Area clean and vacant as of 11-10-95.**

DIMENSIONS: (ESTIMATED SIZE OR AREA IN FT)

AA/SWMU: **10x10 Ft.**
"Stain(s)" : **minor lube oil.**
Any Restrictions To Access?: **None.**

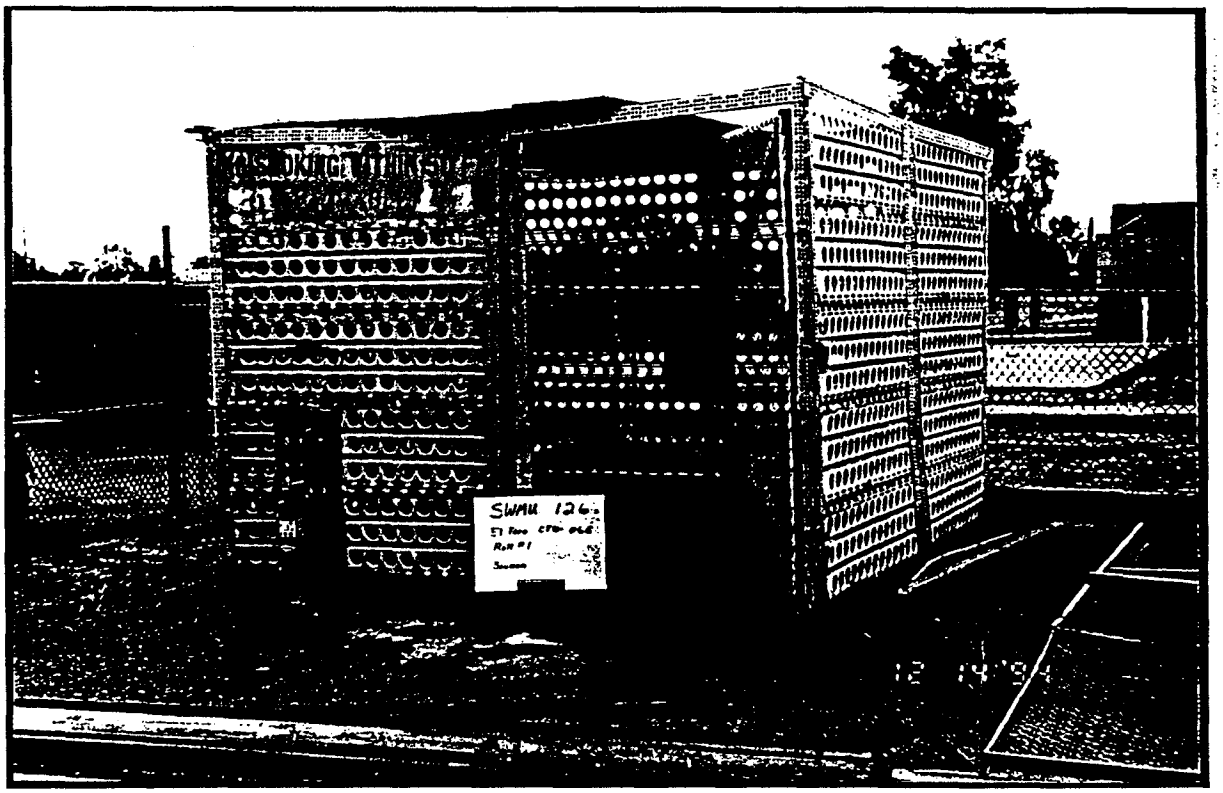
EVALUATION OF REMOVAL/DECONTAMINATION STRATEGY (CIRCLE AS APPROPRIATE)

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

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

DATE/TIME OF SURVEILLANCE: 12-5-94/12:10
UPDATED: 11-10-95/13:30
SURVEILLANCE PERFORMED BY: Larry Bauman

PHOTO LOG



SWMU #: 126

PHOTO DATE: 12-14-94

Table 1-2 (continued)

SWMU[a]/TAA[b]	Description; Location	Proposed Action(s)
GROUP 2 TAAs (continued)		
73/TAA 297	Drum Storage Area; Bldg. 297	Evaluate removal and/or decontamination strategy
83/TAA 298	Drum Storage Area; Bldg. 298	Evaluate removal and/or decontamination strategy
88/TAA 306	HWSA; Bldg. 306	Evaluate removal and/or decontamination strategy
269/TAA 314	HWSA; Bldg. 314	Evaluate removal and/or decontamination strategy
93/TAA 317	Drum Storage Area; Bldg. 317	Evaluate removal and/or decontamination strategy
97/TAA 357	Drum Storage Area; Bldg. 357	Evaluate removal and/or decontamination strategy
254/TAA 359A	Drum Storage Area; Bldg. 359A	Evaluate removal and/or decontamination strategy
99/TAA 359B	HWSA; Bldg. 359B	Evaluate removal and/or decontamination strategy
107/TAA 371A	HWSA; Bldg. 371A	Evaluate removal and/or decontamination strategy
242/TAA 371B	HWSA; Bldg. 371	Evaluate removal and/or decontamination strategy
114/TAA 386	Drum Storage Area; Bldg. 386	Evaluate removal and/or decontamination strategy
116/TAA 388A	HWSA; Bldg. 388	Evaluate removal and/or decontamination strategy
251/TAA 388B	Drum Storage Area; Bldg. 388	Evaluate removal and/or decontamination strategy
119/TAA 389A	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
259/TAA 389B	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
122/TAA 390A	Drum Storage Area; Bldg. 390	Evaluate removal and/or decontamination strategy
261/TAA 390B	HWSA; Bldg. 390	Evaluate removal and/or decontamination strategy
124/TAA 392A	Drum Storage Area; Bldg. 392	Evaluate removal and/or decontamination strategy
271/TAA 392B	HWSA; Bldg. 392	Evaluate removal and/or decontamination strategy
252/TAA 398	HWSA; Bldg. 398	Evaluate removal and/or decontamination strategy
256/TAA 441	HWSA; Bldg. 441	Evaluate removal and/or decontamination strategy
126/TAA 442	HWSA; Bldg. 442	Evaluate removal and/or decontamination strategy
127/TAA 445	Drum Storage Area; Bldg. 445	Evaluate removal and/or decontamination strategy
130/TAA 447	Drum Storage Area; Bldg. 447	Evaluate removal and/or decontamination strategy
135/TAA 456	Drum Storage Area; Bldg. 456	Evaluate removal and/or decontamination strategy
138/TAA 461	HWSA; Bldg. 461	Evaluate removal and/or decontamination strategy
140/TAA 462	HWSA; Bldg. 462	Evaluate removal and/or decontamination strategy
144/TAA 529	HWSA; Bldg. 529	Evaluate removal and/or decontamination strategy
146/TAA 534	Drum Storage Area; Bldg. 534	Evaluate removal and/or decontamination strategy

(table continues)

Attachment C
List of Accumulation Points and Hazardous Material Storage Areas from Station's HMWMP.

Final

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

August 1994

Appendix I
Photographs of Accumulation Points and Hazardous Material Storage Areas

Prepared for:

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

Prepared by:

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

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

Accumulation Points and Hazardous Material Storage Locations
MCAS El Toro

Page No.

Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Supply 4
Supply 4
Combat Service Support Detachment 14 (CSSD 14) 5
Combat Service Support Detachment 14 (CSSD 14) 5
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Wing Support Squadron 373 (MWSS 373), Refuelers 9
Marine Wing Support Squadron 373 (MWSS 373), Headquarters 9
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 10
Morale, Welfare & Recreation Department (MWR), Golf Course 10
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine All Weather Fighter Attack Squadron 242 (VFMA (AW) 242) 12
Marine All Weather Fighter Attack Squadron 121 (VFMA (AW) 121) 12
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Aviation Logistics Squadron 11 (MALS 11), Avionics 14
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance 14
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 15
Marine All Weather Fighter Attack Squadron 225 (VFMA (AW) 225) 15
Maytag Aircraft Corporation 16
Maytag Aircraft Corporation 16
MOD Team 17
Marine Fighter Attack Squadron 323 (VFMA 323) 17
Marine Fighter Attack Squadron 314 (VFMA 314) 18
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 18
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 20
Squadron Operations & Maintenance Squadron (SOMS), Recovery 20
Marine Wing Support Squadron Utilities (MWSS Utilities) 21
Marine Wing Support Squadron Utilities (MWSS Utilities) 21

Accumulation Points, El Toro (Continued)

Page No.

Marine Wing Headquarters Squadron 3 (MWHS 3) 22
Aero Club 22
Headquarters & Headquarters Squadron 38 (H&HS 38) 23
Marine Aircraft Group 46 (MAG 46) 23
Marine Aircraft Group 46 (MAG 46) 24
Marine Air Control Group 38 (MACG 38) 24
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Headquarters 26
Morale, Welfare & Recreation Department (MWR), Auto #1 26
Auto Hobby Shop 27
Armory 27
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 29
Environmental Above Ground Storge Tank 29
Environmental Above Ground Storge Tank 30

Hazardous Materials Storage Areas, El Toro

Headquarters & Headquarters Squadron 38 (H&HS 38), Storage Area 31
Aero Club, Storage Area 31
Marine Air Control Group 38 (MACG 38), Storage Area 32
Morale, Welfare & Recreation Department (MWR), Auto #1, Storage Area 32
Squadron Operations & Maint Squad (SOMS), HQ, Storage Area 33
Marine Fighter Attack Squadron 314 (VFMA 314), Storage Area 33
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 37
Marine Aviation Logistics Squadron 11 (MALS 11), Storage Area 37
Compressed Gas Cylinder Storage Area 38
Flammable Material Storage Area 38
Chemical Storage Area 39
Chemical Storage Area 39
Flammable Storage Area 40
Hospital Compressed Gas Storage Area 40
Hospital Flammable Material Storage Area 41

Attachment D
OHM Site Assessment Log

SITE ASSESSMENT LOG

MCAS EL TORO

TEMPORARY ACCUMULATION AREA & RFA SITE

18609, D.O. 70

TAA SITE: 442 RFA SITE: None SWMU NO. 126

Field Observations by: D. Rawal. **Date:** 1/22/99

TAA area: (Paved) or Unpaved No TAA Structure was observed,

Paved: Concrete or Asphalt, Condition of the Concrete/Asphalt: Minor Cracks, Stains, etc. None

Unpaved: Open on the Ground or Inside the Building None, Bldg. abandoned, No TAA discovered. An empty metal containers observed

Is there any Drums or any types of Waste Stored: Yes/No, If Yes, Describe: No, No HWSA observed and never existed.

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

Describe other Structural details: Building 442 Aviation Armament/Station Ordance. is empty locked & abandoned. No TAA Structure observed. A metal locker was abandoned & left for trash pick up. No Haz. Waste were stored at this Building.

TAA Decontamination and/or Demolition Possible: Yes/No

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

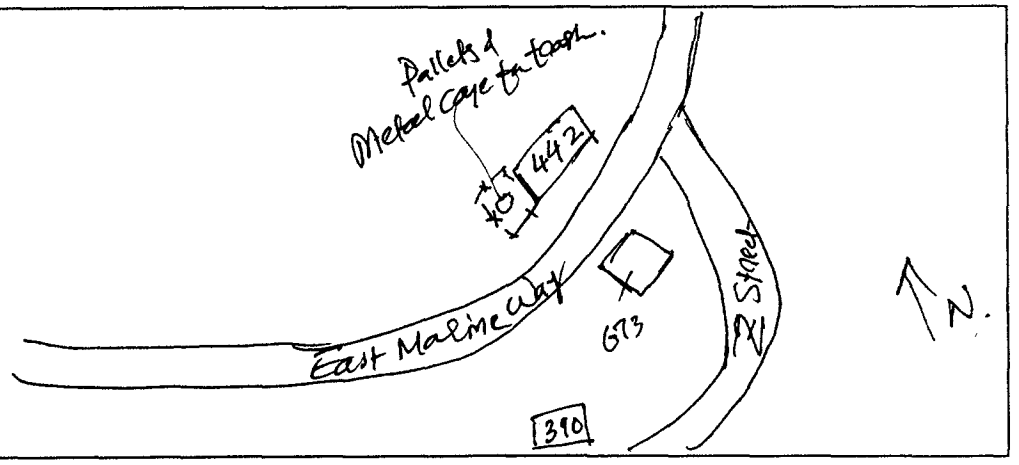
Nearest Building or Structure Distance: 673. across, South end Appx 50 yd

Any Underground Piping/Lines, or Transformer Observed: None

Overhead Utility Lines/Poles: None

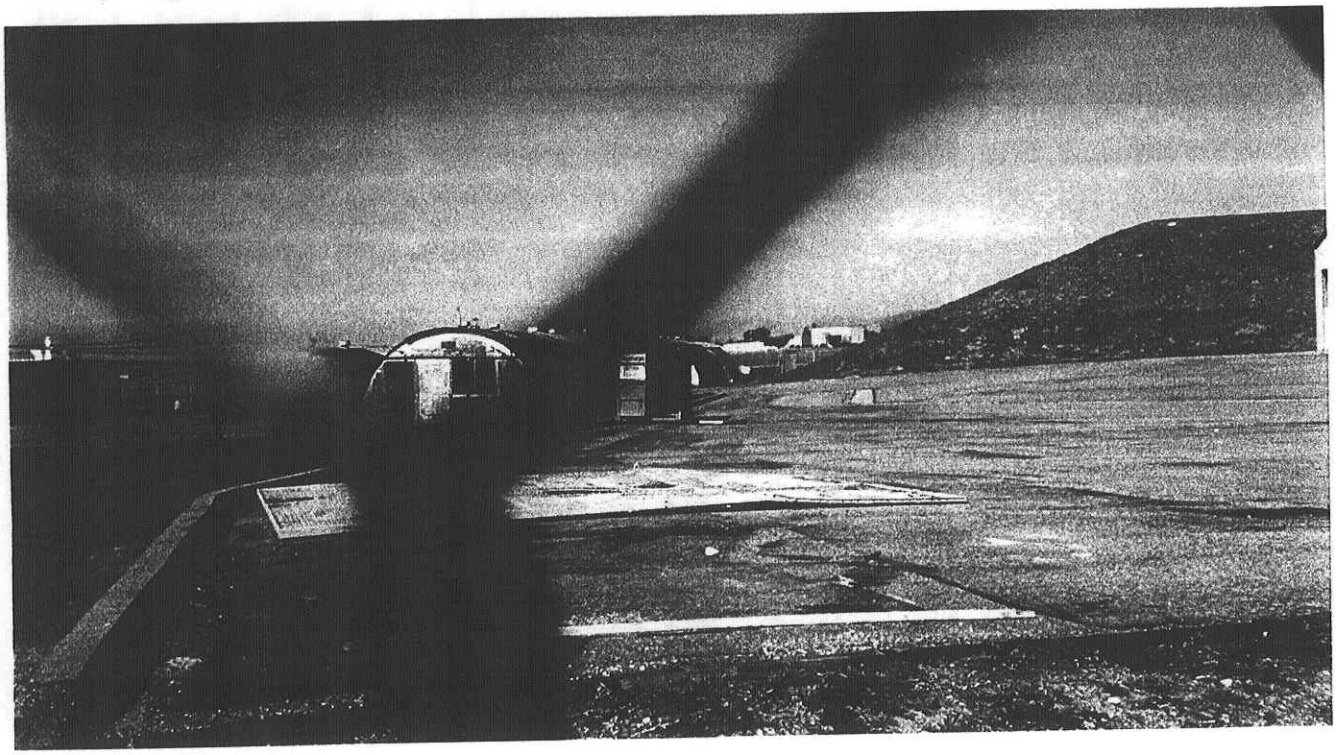
Photograph Roll No. 7 Please attach all the Photographs to this sheet.

Draw Sketch:



TAA-442

TAA 442 - Current condition of the Building 442 area. Empty locker and pallet for base recycling. No TAA 442 was observed.



Attachment E
Excerpts from March 1998 Base Realignment and Closure Cleanup Plan

United States Marine Corps

Base Realignment and Closure Cleanup Plan (BCP)

For

Marine Corps Air Station El Toro, CA

March 1998

Table 3-1a
Site Summary
(Sheet 22 of 37)

Seq. No.	Database Tracking	Previous Parcel	New Parcel	Description	Material Disposed	Date of Operation	Status	Risk to Human Health and the Environment[1]	Regulatory Mechanism	NFA	Comments	ECP Area Type[3]
538	TAA 388A	4A	A1	< 90-day accumulation area-Bldg. 388			Active				See Tables 3-9 and 3-13; SWMU/AOC 116	1*
539	TAA 388B	4A	A1	< 90-day accumulation area-Bldg. 388			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 251	1
540	TAA 389A	3A	J4	< 90-day accumulation area-Bldg. 389			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 119	1
541	TAA 389B	3A	J4	< 90-day accumulation area-Bldg. 389			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 259	1
542	TAA 390A	3A	J4	< 90-day accumulation area-Bldg. 390			Active				See Tables 3-9 and 3-13; SWMU/AOC 122	1
543	TAA 390B	3A	J4	< 90-day accumulation area-Bldg. 390			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 261	1*
544	TAA 392A	2A	R	< 90-day accumulation area-Bldg. 392			Active				See Tables 3-9 and 3-13; SWMU/AOC 124	1*
545	TAA 392B	2A	R	< 90-day accumulation area-Bldg. 392			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 271	1*
546	TAA 398	5A	K	< 90-day accumulation area-Bldg. 398			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 252	1*
547	TAA 441	3A	B1	< 90-day accumulation area-Bldg. 441			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 256	1*
548	TAA 442	3A	B1	< 90-day accumulation area-Bldg. 442			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 126	1
549	TAA 443	1G	C2	< 90-day accumulation area-Bldg. 443			Active				See Table 3-9	7
550	TAA 445	4A	A1	< 90-day accumulation area-Bldg. 445			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 127	1
551	TAA 447	3A	B1	< 90-day accumulation area-Bldg. 447			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 130	1*
552	TAA 456	3A	B1	< 90-day accumulation area-Bldg. 456			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 135	1
553	TAA 461	5A	B1	< 90-day accumulation area-Bldg. 461			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 138	1
554	TAA 462	5A	B1	< 90-day accumulation area-Bldg. 462			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 140	1
555	TAA 529	4A	A2	< 90-day accumulation area-Bldg. 529			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 144	1
556	TAA 534	4B	A3	< 90-day accumulation area-Bldg. 534			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 146	1
557	TAA 602	2A	R	< 90-day accumulation area-Bldg. 602			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 147	1*
558	TAA 605	5A	I1	< 90-day accumulation area-Bldg. 605			Active				See Tables 3-9 and 3-13; SWMU/AOC 149	1*
559	TAA 606	5A	I1	< 90-day accumulation area-Bldg. 606			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 255	1
560	TAA 626	1B	H2	< 90-day accumulation area-Bldg. 626			Active				See Tables 3-9 and 3-13; SWMU/AOC 158	6

Table 3-9
Less-Than-90-Day Accumulation Areas
(Sheet 3 of 5)

Database Tracking	Building Number	Previous Parcel	New Parcel	Status	Closure Evaluation[1]	SWMU/ AOC No.	RFA Sampling	Comments	ECP Area Type[2]
TAA 370	370	4A	A2	Active	X	-		Identified in 1994 SPCC Plan. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	7
TAA 371A	371	5A	B1	Active	X	107	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 371B	371	5A	B1	Active	X	242	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 109	379	4A[4]	A1	Inactive		109		Source: SPCC map (no date). Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*
TAA 386	386	4A	A2	Active	X	114		Source: 1980 DHS photograph; no evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 388A	388	4A	A1	Active	X	116	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 388B	388	4A	A1	Active	X	251		No evidence of release/surface defects. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 389A	389	3A	J4	Inactive	X	119		No evidence of release. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 389B	389	3A	J4	Inactive	X	259		Drum storage not confirmed. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 390A	390	3A	J4	Inactive	X	122		Source: 1980 DHS photograph; no evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 390B	390	3A	J4	Inactive	X	261	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 392A	392	2A	R	Active	X	124	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 392B	392	2A	R	Inactive	X	271	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 398	398	5A	K	Inactive	X	252	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 125	415	2B	I2	Inactive	X	125	X	Site was dismantled and stored waste had been removed since VSI was conducted in 1991. NFA concurrence by DTSC (letter dated 7/23/96).	3
TAA 441	441	3A	B1	Inactive	X	256	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 442	442	3A	B1	Inactive	X	126		New site; no evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 443	443	1G	C2	Active		-		Not plotted on Figure 3-1 or Figure 3-4.	7
TAA 445	445	4A	A1	Inactive	X	127		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 447	447	3A	B1	Inactive	X	130	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 133	453	3A[4]	B1	Inactive		133		Source: SPCC map (no date). Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*

RESULTS OF THE RECORD SEARCH

SWMU/AOC Name: Drum Storage Area (DSA)

TAA 445	SWMU/AOC No: 127	1998 BCP ID: 550

JEG's Final RCRA Facility Assessment Report, (1993) Notes: A DSA was observed by JEG team during the VSI in May 1991, JEG team observed some empty drums of lubrication oil and diesel fuel on an unpaved area. No significant stains were observed on the unpaved soil. These empty drums were located 20 feet away from the TAA 778. A copy of the JEG RFA VSI Evaluation form is included in Attachment A.

JEG's Recommendations: Since the drums observed were empty and no evidence of release was observed. No Further Action.

Bechtel's Final Addendum RCRA Facility Assessment Report [1996 (Notes)]: BNI visited Building 445 in November 1995 as part of VSI and found no DSA. Simple concrete pad set in gravel, a Dumpster on top. No stains were observed. A copy of the BNI Accumulation Area Evaluation checklist form is included in Attachment B.

BNI's Recommendation: Evaluate Removal and/or Decontamination Strategy.

Station's Hazardous Materials / Waste Management Plan (August 1994) Notes: Station's HMWMP does not identify a DSA or TAA 445 at Building 445 as a less than 90 day storage facility or an accumulation point for storage of hazardous waste. Copies from the HMWMP listing Accumulation points and Hazardous Materials or Waste Storage Areas for MCAS El Toro are included in Attachment C.

OHM's Site Visit and Recommendations: OHM visited Building 445 in January 1999. During the field visit, OHM discovered that Building 445 was closed and abandoned for preparation for base closure. There was no evidence or sign of a temporary hazardous waste drum storage area at this facility. An empty Dumpster and lockers were observed for base recycling. A copy of the OHM Site Assessment Log for TAA 445 is included in Attachment D.

After reviewing JEG VSI record, it is clear that JEG team observed some empty drums that were kept for base recycling at Building 445 and mistakenly identified as an DSA. BNI confirmed that there was no such DSA and OHM was unable to locate such DSA.

Based on the review of the historical records from JEG, BNI, Station's HMWMP, and OHM VSI records, OHM concludes that no such DSA exists at Building 445. Therefore, **OHM recommends that Station delete the TAA 445 (BCP ID. 550) from the BCP list of Environmental Locations of Concern (Table 3-1a Site Summary & Table 3-9 Less Than 90-Day Accumulation Areas).** Copies of the March 1998 BCP excerpts for TAA 445 are included in Attachment E.

Attachment A
JEG RFA VSI Evaluation Form

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

VOLUME I

16 July 1993

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

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

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

In association with:
International Technology Corporation
CH2M HILL

10020667.SCO\93\MA

Evaluation Form
SWMU/Area of Concern
Number 127

Unit Characteristics

A DSA is located adjacent to the southern wall of Building 445. Approximately 30 empty drums of lubrication oil and diesel fuel are stored on unpaved soil. No significant stains were observed on the unpaved soil of the storage area. This DSA is located about 20 ft away from hazardous waste storage area 778 (SWMU/AOC Number 226). A fence passes between and separates these two areas.

Waste Characteristics

The following products are stored in the area:
- Lubricating oil
- Diesel fuel

Possible Migration Pathway

Soil

Evidence of Release

None observed

Exposure Potential

On-Station personnel

Recommendations

Since the drums stored in this DSA were empty and no evidence of a release was observed, no further action is recommended for this DSA. It should be noted that the nearby HWSA (SWMU/AOC Number 226) is recommended for a sampling visit.

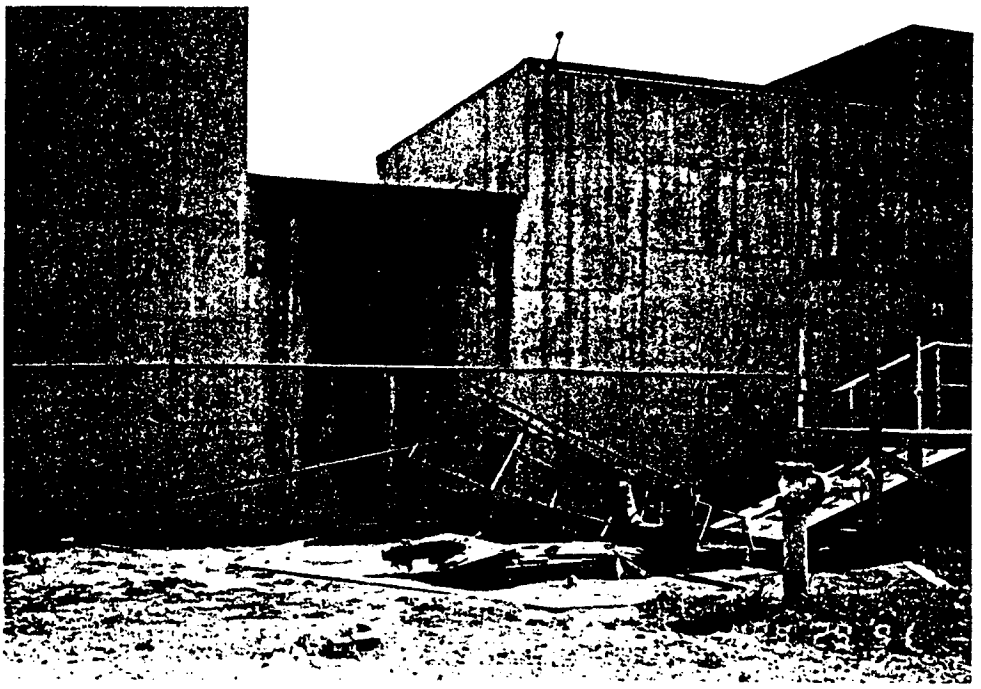
Evaluation Form
SWMU/Area of Concern
Number 127

Name: Drum Storage Area

Location: Building 445

Size: Approximately 225 sq ft

Date of Site Visit: 25 April 1991



Period of Operation

Currently active

Attachment B
BNI VSI Accumulation Area Evaluation Check List

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

Contract No. N68711-92-D-4670

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY

CLEAN II

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

CTO-0065/0170

May 1996

Prepared by:

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

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

ACCUMULATION AREA EVALUATION CHECKLIST

(CIRCLE AS APPROPRIATE AND FILL IN COMPLETELY)

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

GENERAL DESCRIPTION:

SWMU #: **127** Accumulation Area (AA) #: **445**
Location (bldg): **Drum Storage Area/Bldg. 445**
Site Contact: **Leta Suarez** Ext: **2772**
Permission for Access? ~~Y~~ (N) If yes, explain: **N/A**
Type of Wastes Observed: **None, empty drums and plastic overpacks**

TYPE: (CIRCLE AS APPROPRIATE)

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

CONDITION:

~~Stain(s)~~ ~~Odor(s)~~ Crack(s)
Placards/Labels: ~~Y~~ (N) If Yes, list:

Observations: **Simple concrete pad set in gravel, a dumpster on top.**
Status: **Update to base recycling center as of 11/10/95.**

DIMENSIONS: (ESTIMATED SIZE OR AREA IN FT)

AA/SWMU: **16x20 Ft.**
"Stain(s)": **Very minor oily stains and some yellow paint residue. Not significant enough to consider decontamination.**
Any Restrictions To Access?: **None.**

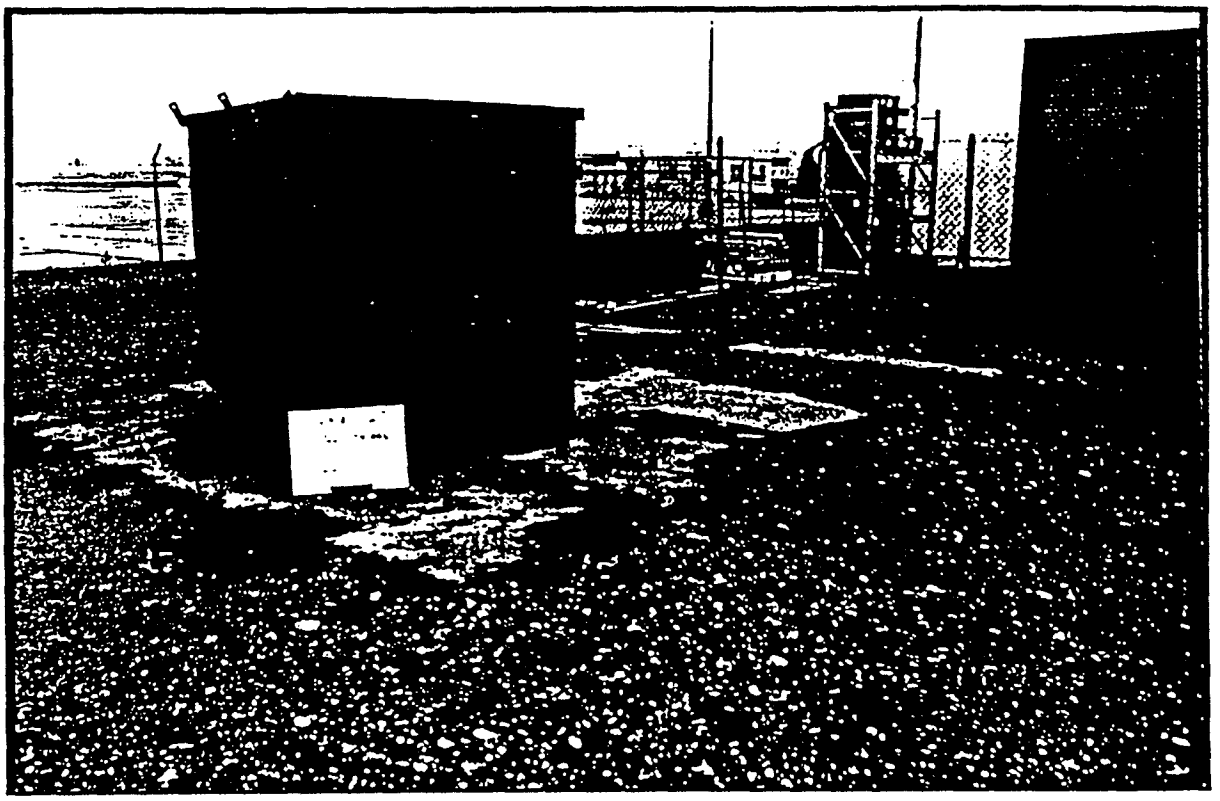
EVALUATION OF REMOVAL/DECONTAMINATION STRATEGY (CIRCLE AS APPROPRIATE)

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

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

DATE/TIME OF SURVEILLANCE: 12-2-94/14:50
UPDATED: 11-10-95/11:50
SURVEILLANCE PERFORMED BY: Larry Bauman

PHOTO LOG



SWMU #: 127

PHOTO DATE: 12-14-94

Table 1-2 (continued)

SWMU[a]/TAA[b]	Description; Location	Proposed Action(s)
GROUP 2 TAAs (continued)		
73/TAA 297	Drum Storage Area; Bldg. 297	Evaluate removal and/or decontamination strategy
83/TAA 298	Drum Storage Area; Bldg. 298	Evaluate removal and/or decontamination strategy
88/TAA 306	HWSA; Bldg. 306	Evaluate removal and/or decontamination strategy
269/TAA 314	HWSA; Bldg. 314	Evaluate removal and/or decontamination strategy
93/TAA 317	Drum Storage Area; Bldg. 317	Evaluate removal and/or decontamination strategy
97/TAA 357	Drum Storage Area; Bldg. 357	Evaluate removal and/or decontamination strategy
254/TAA 359A	Drum Storage Area; Bldg. 359A	Evaluate removal and/or decontamination strategy
99/TAA 359B	HWSA; Bldg. 359B	Evaluate removal and/or decontamination strategy
107/TAA 371A	HWSA; Bldg. 371A	Evaluate removal and/or decontamination strategy
242/TAA 371B	HWSA; Bldg. 371	Evaluate removal and/or decontamination strategy
114/TAA 386	Drum Storage Area; Bldg. 386	Evaluate removal and/or decontamination strategy
116/TAA 388A	HWSA; Bldg. 388	Evaluate removal and/or decontamination strategy
251/TAA 388B	Drum Storage Area; Bldg. 388	Evaluate removal and/or decontamination strategy
119/TAA 389A	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
259/TAA 389B	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
122/TAA 390A	Drum Storage Area; Bldg. 390	Evaluate removal and/or decontamination strategy
261/TAA 390B	HWSA; Bldg. 390	Evaluate removal and/or decontamination strategy
124/TAA 392A	Drum Storage Area; Bldg. 392	Evaluate removal and/or decontamination strategy
271/TAA 392B	HWSA; Bldg. 392	Evaluate removal and/or decontamination strategy
252/TAA 398	HWSA; Bldg. 398	Evaluate removal and/or decontamination strategy
256/TAA 441	HWSA; Bldg. 441	Evaluate removal and/or decontamination strategy
126/TAA 442	HWSA; Bldg. 442	Evaluate removal and/or decontamination strategy
127/TAA 445	Drum Storage Area; Bldg. 445	Evaluate removal and/or decontamination strategy
130/TAA 447	Drum Storage Area; Bldg. 447	Evaluate removal and/or decontamination strategy
135/TAA 456	Drum Storage Area; Bldg. 456	Evaluate removal and/or decontamination strategy
138/TAA 461	HWSA; Bldg. 461	Evaluate removal and/or decontamination strategy
140/TAA 462	HWSA; Bldg. 462	Evaluate removal and/or decontamination strategy
144/TAA 529	HWSA; Bldg. 529	Evaluate removal and/or decontamination strategy
146/TAA 534	Drum Storage Area; Bldg. 534	Evaluate removal and/or decontamination strategy

(table continues)

Attachment C
List of Accumulation Points and Hazardous Material Storage Areas from Station's HMWMP.

Final

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

August 1994

Appendix I
Photographs of Accumulation Points and Hazardous Material Storage Areas

Prepared for:

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

Prepared by:

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

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

Accumulation Points and Hazardous Material Storage Locations
MCAS El Toro

Page No.

Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Supply 4
Supply 4
Combat Service Support Detachment 14 (CSSD 14) 5
Combat Service Support Detachment 14 (CSSD 14) 5
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Wing Support Squadron 373 (MWSS 373), Refuelers 9
Marine Wing Support Squadron 373 (MWSS 373), Headquarters 9
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 10
Morale, Welfare & Recreation Department (MWR), Golf Course 10
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine All Weather Fighter Attack Squadron 242 (VFMA (AW) 242) 12
Marine All Weather Fighter Attack Squadron 121 (VFMA (AW) 121) 12
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Aviation Logistics Squadron 11 (MALS 11), Avionics 14
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance 14
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 15
Marine All Weather Fighter Attack Squadron 225 (VFMA (AW) 225) 15
Maytag Aircraft Corporation 16
Maytag Aircraft Corporation 16
MOD Team 17
Marine Fighter Attack Squadron 323 (VFMA 323) 17
Marine Fighter Attack Squadron 314 (VFMA 314) 18
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 18
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 20
Squadron Operations & Maintenance Squadron (SOMS), Recovery 20
Marine Wing Support Squadron Utilities (MWSS Utilities) 21
Marine Wing Support Squadron Utilities (MWSS Utilities) 21

Accumulation Points, El Toro (Continued)

Page No.

Marine Wing Headquarters Squadron 3 (MWHS 3) 22
Aero Club 22
Headquarters & Headquarters Squadron 38 (H&HS 38) 23
Marine Aircraft Group 46 (MAG 46) 23
Marine Aircraft Group 46 (MAG 46) 24
Marine Air Control Group 38 (MACG 38) 24
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Headquarters 26
Morale, Welfare & Recreation Department (MWR), Auto #1 26
Auto Hobby Shop 27
Armory 27
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 29
Environmental Above Ground Storge Tank 29
Environmental Above Ground Storge Tank 30

Hazardous Materials Storage Areas, El Toro

Headquarters & Headquarters Squadron 38 (H&HS 38), Storage Area 31
Aero Club, Storage Area 31
Marine Air Control Group 38 (MACG 38), Storage Area 32
Morale, Welfare & Recreation Department (MWR), Auto #1, Storage Area 32
Squadron Operations & Maint Squad (SOMS), HQ, Storage Area 33
Marine Fighter Attack Squadron 314 (VFMA 314), Storage Area 33
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 37
Marine Aviation Logistics Squadron 11 (MALS 11), Storage Area 37
Compressed Gas Cylinder Storage Area 38
Flammable Material Storage Area 38
Chemical Storage Area 39
Chemical Storage Area 39
Flammable Storage Area 40
Hospital Compressed Gas Storage Area 40
Hospital Flammable Material Storage Area 41

Attachment D
OHM Site Assessment Log

SITE ASSESSMENT LOG

MCAS EL TORO

TEMPORARY ACCUMULATION AREA & RFA SITE

18609, D.O. 70

TAA SITE: 445 RFA SITE: None SWMU NO. 127

Field Observations by: D. Rawal **Date:** 1/22/99

TAA area: Paved or Unpaved No TAA observed Bldg looks closed and abandoned

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

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

Is there any Drums or any types of Waste Stored: Yes/No, If Yes, Describe: None, Only empty trash containers and lockers.

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

Describe other Structural details: No TAA observed, OHM observed the same empty trash bin as BNI, VSI in 1995.

TAA Decontamination and/or Demolition Possible: Yes/No Saw empty locker & Trash bin, ~~NO~~ NO TAA observed.

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

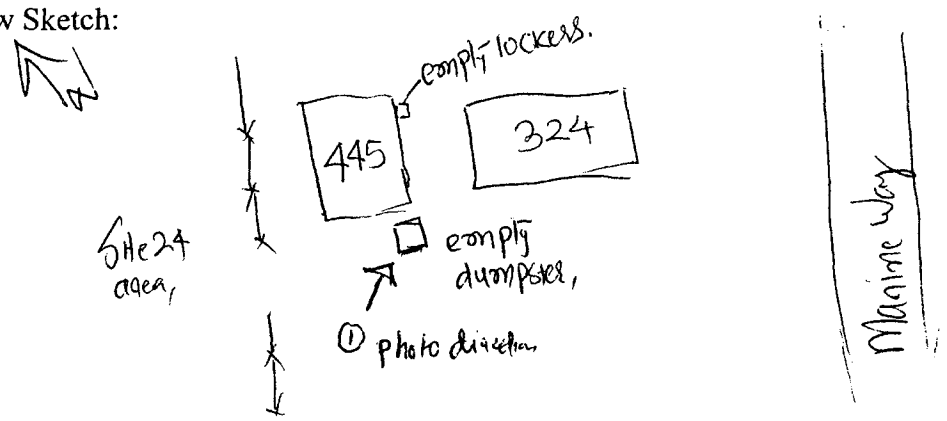
Nearest Building or Structure Distance: 324, (4 50 ft)

Any Underground Piping/Lines, or Transformer Observed: N/A

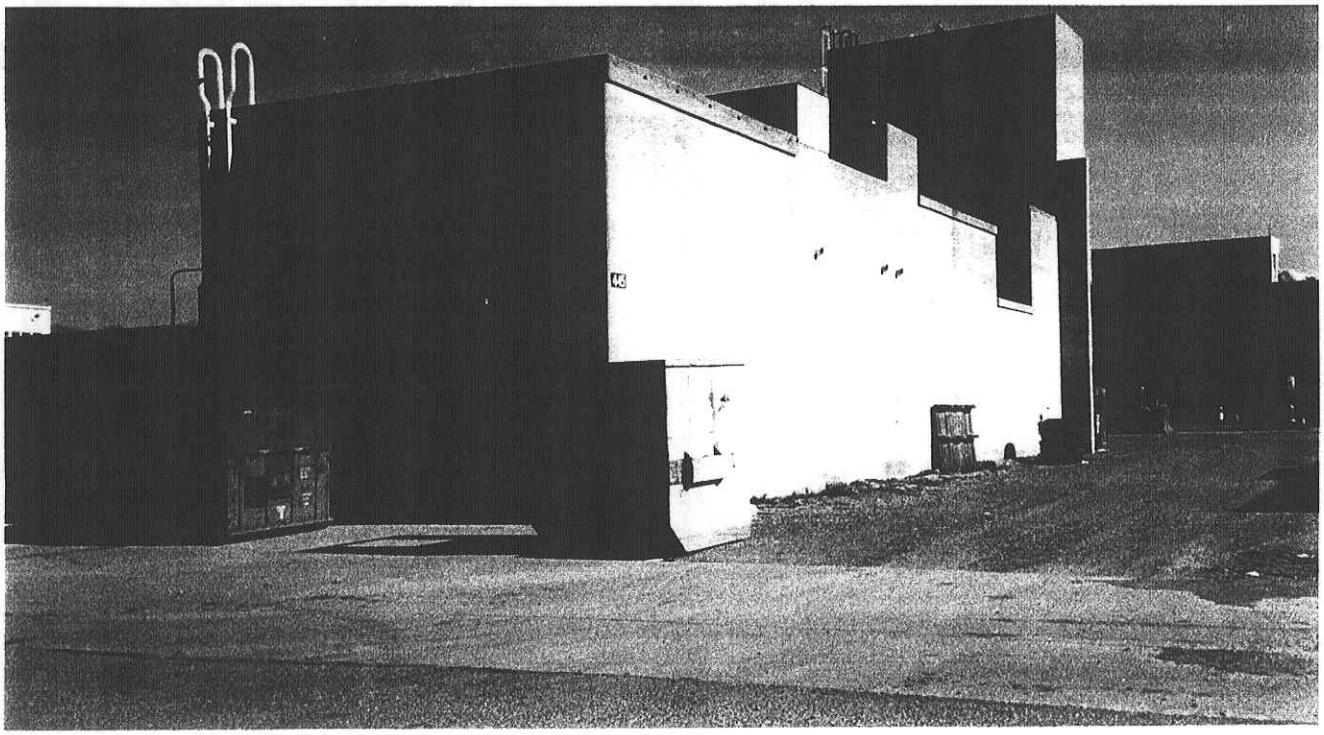
Overhead Utility Lines/Poles: N/A

Photograph Roll No. I, II, Please attach all the Photographs to this sheet.

Draw Sketch:



TAA 445 - Current condition of the Building 445area. Trash Bin and Empty locker and pallet for base recycling. No TAA 445 was observed.



Attachment E
Excerpts from March 1998 Base Realignment and Closure Cleanup Plan

United States Marine Corps

Base Realignment and Closure Cleanup Plan (BCP)

For

Marine Corps Air Station El Toro, CA

March 1998

Table 3-1a
Site Summary
(Sheet 22 of 37)

Seq. No.	Database Tracking	Previous Parcel	New Parcel	Description	Material Disposed	Date of Operation	Status	Risk to Human Health and the Environment[1]	Regulatory Mechanism	NFA	Comments	ECP Area Type[3]
538	TAA 388A	4A	A1	< 90-day accumulation area-Bldg. 388			Active				See Tables 3-9 and 3-13; SWMU/AOC 116	1*
539	TAA 388B	4A	A1	< 90-day accumulation area-Bldg. 388			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 251	1
540	TAA 389A	3A	J4	< 90-day accumulation area-Bldg. 389			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 119	1
541	TAA 389B	3A	J4	< 90-day accumulation area-Bldg. 389			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 259	1
542	TAA 390A	3A	J4	< 90-day accumulation area-Bldg. 390			Active				See Tables 3-9 and 3-13; SWMU/AOC 122	1
543	TAA 390B	3A	J4	< 90-day accumulation area-Bldg. 390			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 261	1*
544	TAA 392A	2A	R	< 90-day accumulation area-Bldg. 392			Active				See Tables 3-9 and 3-13; SWMU/AOC 124	1*
545	TAA 392B	2A	R	< 90-day accumulation area-Bldg. 392			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 271	1*
546	TAA 398	5A	K	< 90-day accumulation area-Bldg. 398			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 252	1*
547	TAA 441	3A	B1	< 90-day accumulation area-Bldg. 441			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 256	1*
548	TAA 442	3A	B1	< 90-day accumulation area-Bldg. 442			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 126	1
549	TAA 443	1G	C2	< 90-day accumulation area-Bldg. 443			Active				See Table 3-9	7
550	TAA 445	4A	A1	< 90-day accumulation area-Bldg. 445			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 127	1
551	TAA 447	3A	B1	< 90-day accumulation area-Bldg. 447			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 130	1*
552	TAA 456	3A	B1	< 90-day accumulation area-Bldg. 456			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 135	1
553	TAA 461	5A	B1	< 90-day accumulation area-Bldg. 461			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 138	1
554	TAA 462	5A	B1	< 90-day accumulation area-Bldg. 462			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 140	1
555	TAA 529	4A	A2	< 90-day accumulation area-Bldg. 529			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 144	1
556	TAA 534	4B	A3	< 90-day accumulation area-Bldg. 534			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 146	1
557	TAA 602	2A	R	< 90-day accumulation area-Bldg. 602			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 147	1*
558	TAA 605	5A	I1	< 90-day accumulation area-Bldg. 605			Active				See Tables 3-9 and 3-13; SWMU/AOC 149	1*
559	TAA 606	5A	I1	< 90-day accumulation area-Bldg. 606			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 255	1
560	TAA 626	1B	H2	< 90-day accumulation area-Bldg. 626			Active				See Tables 3-9 and 3-13; SWMU/AOC 158	6

Table 3-9
Less-Than-90-Day Accumulation Areas
(Sheet 3 of 5)

Database Tracking	Building Number	Previous Parcel	New Parcel	Status	Closure Evaluation[1]	SWMU/ AOC No.	RFA Sampling	Comments	ECP Area Type[2]
TAA 370	370	4A	A2	Active	X	-		Identified in 1994 SPCC Plan. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	7
TAA 371A	371	5A	B1	Active	X	107	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 371B	371	5A	B1	Active	X	242	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 109	379	4A[4]	A1	Inactive		109		Source: SPCC map (no date). Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*
TAA 386	386	4A	A2	Active	X	114		Source: 1980 DHS photograph; no evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 388A	388	4A	A1	Active	X	116	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 388B	388	4A	A1	Active	X	251		No evidence of release/surface defects. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 389A	389	3A	J4	Inactive	X	119		No evidence of release. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 389B	389	3A	J4	Inactive	X	259		Drum storage not confirmed. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 390A	390	3A	J4	Inactive	X	122		Source: 1980 DHS photograph; no evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 390B	390	3A	J4	Inactive	X	261	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 392A	392	2A	R	Active	X	124	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 392B	392	2A	R	Inactive	X	271	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 398	398	5A	K	Inactive	X	252	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 125	415	2B	I2	Inactive	X	125	X	Site was dismantled and stored waste had been removed since VSI was conducted in 1991. NFA concurrence by DTSC (letter dated 7/23/96).	3
TAA 441	441	3A	B1	Inactive	X	256	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 442	442	3A	B1	Inactive	X	126		New site; no evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 443	443	1G	C2	Active		-		Not plotted on Figure 3-1 or Figure 3-4.	7
TAA 445	445	4A	A1	Inactive	X	127		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 447	447	3A	B1	Inactive	X	130	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 133	453	3A[4]	B1	Inactive		133		Source: SPCC map (no date). Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*

RESULTS OF THE RECORD SEARCH

SWMU/AOC Name: Drum Storage Area (DSA)

TAA 447	SWMU/AOC No: 130	1998 BCP ID: 551

JEG's Final RCRA Facility Assessment Report, (1993) Notes: This DSA was identified in a letter from RWQCB to Station in June 1989. During the field VSI in May 1991, JEG team was unable to locate an active DSA. JEG team observed an unpaved area near northeast side of Building 447 with mobile steel matting. Soil around matting had some stains; therefore JEG recommended sampling visit for SWMU 130. A total of 3 soil borings up to 5-feet deep were drilled and 6 soil samples were collected. No TPH, VOCs, SVOCs, Pesticide/PCBs, and Metal compounds were detected above the laboratory detection limits. A copy of the JEG RFA VSI Evaluation form is included in Attachment A.

JEG's Recommendations: After review of the soil sampling analytical data, No Further Action.

Bechtel's Final Addendum RCRA Facility Assessment Report [1996 (Notes)]: BNI visited Building 447 in November 1995 as part of VSI and discovered no sign of permanent hazardous waste storage area inside or outside of the building. Per BNI, no visible signs of stains or release or odors were observed, probably Desert Storm Area. A copy of the BNI Accumulation Area Evaluation Check List is included in Attachment B.

BNI's Recommendation: Evaluate Removal and/or Decontamination Strategy.

Station's Hazardous Materials / Waste Management Plan (August 1994) Notes: Station's HMWMP does not identify a DSA or TAA 447 at Building 447 as a less than 90 day storage facility or an accumulation point for storage of hazardous waste. Copies of the excerpts from the HMWMP listing Accumulation points and Hazardous Materials Storage Areas at MCAS El Toro are included in Attachment C.

OHM's Site Visit and Recommendations: OHM visited Building 447 in January 1999. Building 447 used to be an Engine Test Cell facility. OHM was unable to locate any physical evidence or sign of a current or former temporary DSA at this facility. A copy of the OHM Site Assessment Log is included in Attachment D.

After reviewing JEG and BNI VSI record, it is obvious that a less than 90-day facility or an accumulation point for storage of hazardous waste does not exist at Building 447. Also, SWMU 130, DSA was identified by the RWQCB in a letter. JEG team was unable to locate the former DSA in the field but performed soil sampling in the visually stained area. Soils sampling analytical results were not detected above the laboratory reporting limits for TPH, VOCs, SVOCs, Pesticides/PCBs, and Metal compounds.

Based on the review of the historical records from JEG, BNI, Station's HMWMP, and OHM field VSI records, OHM concludes that no such hazardous waste TAA or former DSA exist at Building 447. Therefore, **OHM recommends that Station delete the TAA 447 (BCP ID. 551) from the BCP of Environmental Locations of Concern list (Table 3-1a Site Summary & Table 3-9 Less Than 90-Day Accumulation Areas).** Copies of the March 1998 BCP excerpt are included in Attachment E.

Attachment A
JEG RFA VSI Evaluation Form

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

VOLUME I

16 July 1993

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

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

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

In association with:
International Technology Corporation
CH2M HILL

Evaluation Form
SWMU/Area of Concern
Number 130

Unit Characteristics

A drum storage area (DSA) near Building 447 was identified in a Regional Water Quality Control Board Letter to Lt. Rehor dated June 23, 1989. The probable location of the DSA was identified near the southwest corner of Building 447. This area consists of metal mobil runway sheets covering an unpaved soil area of approximately 12 ft x 22 ft. Several dark soil patches were observed near the east side of the metal sheets. The metal sheets appeared to be securely implanted into the ground surface probably indicating their presence for an extended time period. These sheets have been present at other observed DSAs at the station.

Waste Characteristics

Unknown

Possible Migration Pathways

Soil

Evidence of Release

Stained soil observed near the east side of metal runway sheets

Exposure Potential

On-Station personnel

Recommendations

Because of the observed stains, a sampling visit is recommended for this site.

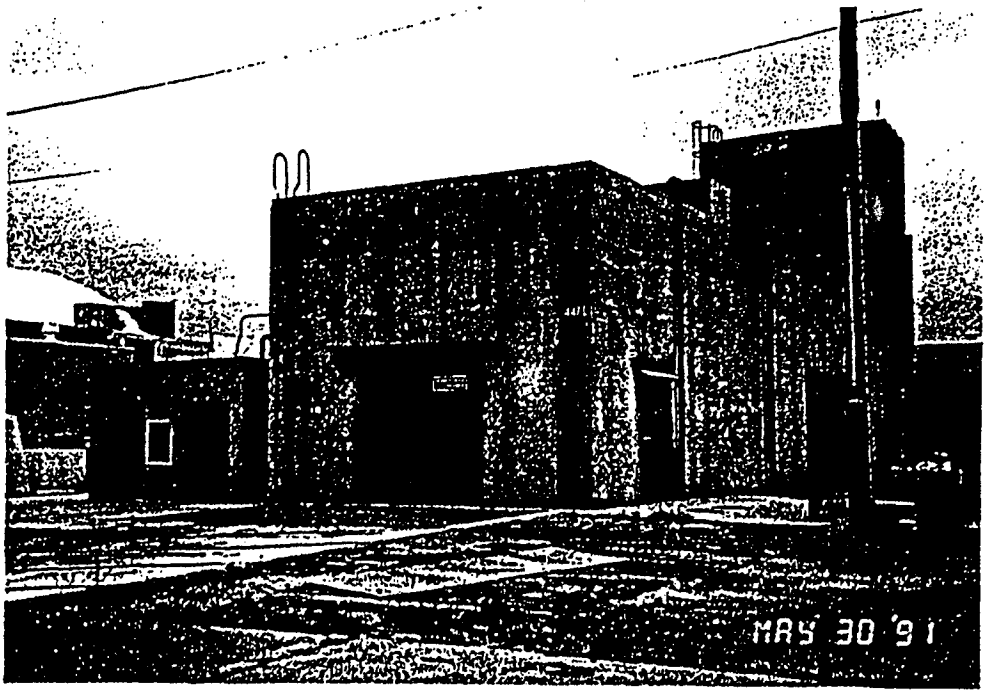
Evaluation Form
SWMU/Area of Concern
Number 130

Name: Drum Storage Area

Location: Southwest of Building 447

Size: Approximately 260 sq ft (estimated)

Date of Site Visit: 03 May 91



Period of Operation

Unknown

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						
130	Drum Storage Area (40)	H1	2	ND	ND	ND	Methylene Chloride-3 BJ * Acetone-5 BJ *	Di-n-butylphthalate-48 J	ND	Antimony-ND Selenium-ND Silver-ND	NFA	TPH/TFH < 100 ppm VOCs < CRDL SVOCs < CRDL Pest/PCB < CRDL Metals < ETM & PRG
			5	ND	ND	ND	Methylene Chloride-6 J * Acetone-3 BJ * Toluene-2 J	ND	ND	Antimony-ND Selenium-ND Silver-0.79 B		
		H2	2	ND	ND	ND	Methylene Chloride-6 J * Acetone-6 BJ * Toluene-2 J	ND	ND	Antimony-ND Selenium-ND Silver-0.55 B		CRDL - Contract Required Detection Limit
			5	ND	ND	ND	Methylene Chloride-3 BJ * Acetone-5 BJ * Toluene-3 J	Bis(2-Ethylhexyl)phthalate-290 J	ND	Antimony-ND Selenium-0.79 B Silver-1.0 B		
		H3	2	ND	ND	ND	Methyene Chloride-5 J * Acetone-6 BJ * 2-Butanone-2 J	Diethylphthalate-210 J	ND	Antimony-ND Selenium-ND Silver-ND		
			5	ND	ND	ND	Methylene Chloride-7 J * Acetone-5 BJ * Toluene-2 J	Bis(2-Ethylhexyl)phthalate-320 J	ND	Antimony-11 B Selenium-ND Silver-ND		

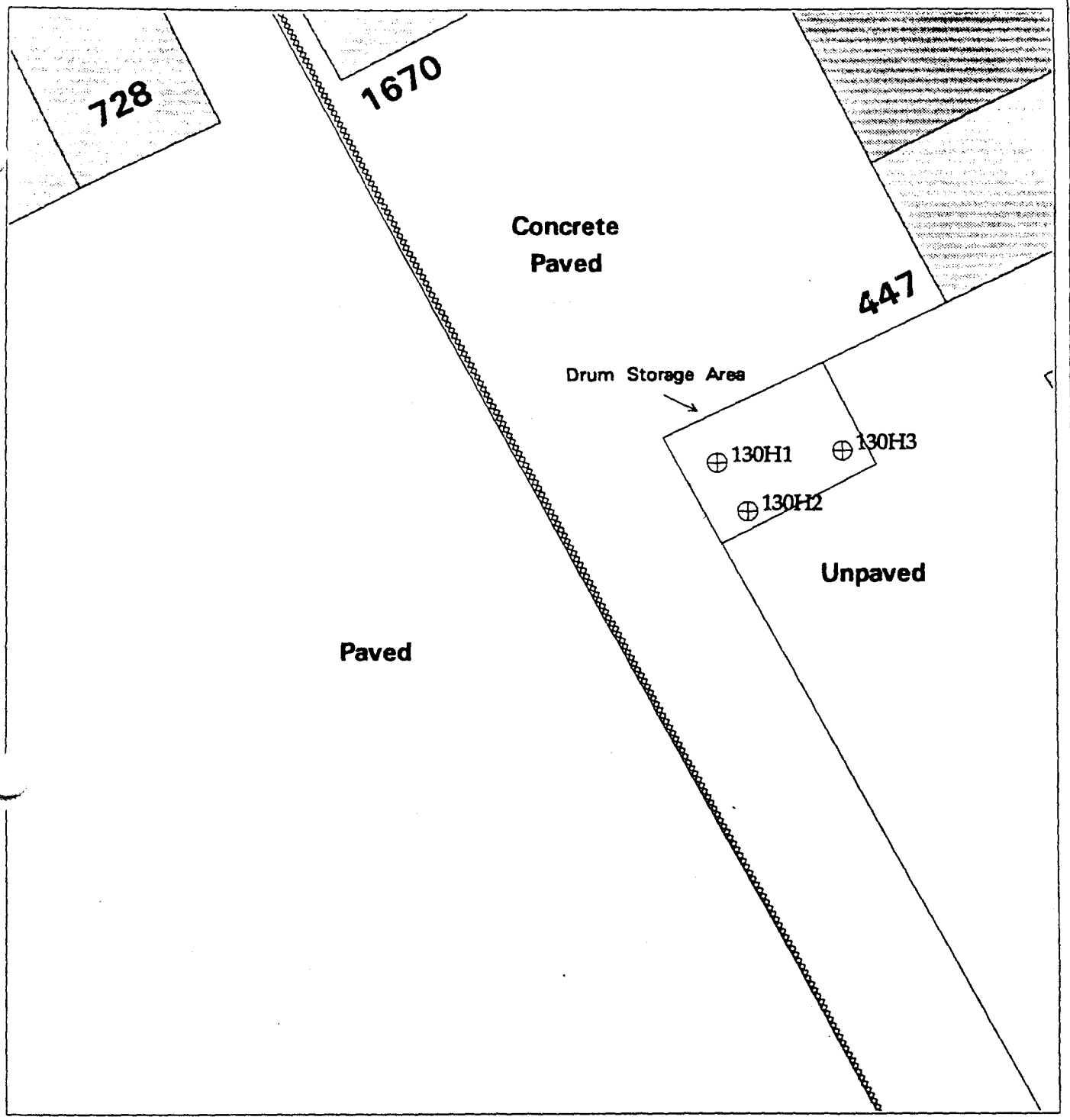


Figure 40 Sample Location Map

SWMU/AOC Number and Type:
130 - Drum Storage Area

Boring Location and Number:

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

Features:

- Building
- Concrete
- Fence
- Railroad

Scale

0 10 20 40 Feet

MCAS El Toro
RCRA Facility Assessment

Table 6-15
Recommendations for SWMUs/AOCs
MCAS El Toro RFA

SWMU No.	SWMU/AOC Type	Recommendation (FA/NFA)	Description of Further Action	Rationale for Further Action
84	Oil/Water Separator	FA	Leak test/inspection of separator	Moderate petroleum hydrocarbon contamination at 10-foot dept
88	Drum Storage Area	FA	Shallow soil borings	Potential for PCBs in shallow soil
90	Former Sewage Treatment Plant Sit	NFA	--	--
91	Underground Storage Tank	NFA	--	--
92	Underground Storage Tank	NFA	--	--
95	Engine Test Cell	NFA	--	--
98	Vehicle Wash Rack	NFA	--	--
99	Drum Storage Area	NFA	--	--
100	TCE Degreaser	NFA	--	--
101	Oil/Water Separator	NFA	--	--
102	Underground Storage Tank	NFA	--	--
107	Hazardous Waste Storage Area	NFA	--	--
110	Vehicle Wash Rack	FA	Repair cracks in pavement	Prevent future migration of petroleum hydrocarbons
112	Oil/Water Separator	NFA	--	--
116	Drum Storage Area	NFA	--	--
120	Vehicle Wash Rack	NFA	--	--
124	Hazardous Waste Storage Area	NFA	--	--
125	Hazardous Waste Storage Area	NFA	--	--
129	Underground Storage Tank	NFA	--	--
130	Drum Storage Area	NFA	--	--
131	Engine Test Cell	FA	Shallow soil borings	SVOC above PRG value
132	Oil/Water Separator	NFA	--	--
137	Oil/Water Separator	NFA	--	--
138	Drum Storage Area	NFA	--	--
139	Oil/Water Separator	NFA	--	--
144	Drum Storage Area	NFA	--	--
145	Underground Storage Tank	FA	Additional boring(s)	Petroleum hydrocarbon contamination, unknown extent
147	Drum Storage Area	NFA	--	--
149	Drum Storage Area	NFA	--	--
151	Oil/Water Separator	FA	Leak test/inspection of separator	Moderate petroleum hydrocarbon contamination at 10-foot dept

Attachment B
BNI VSI Accumulation Area Evaluation Check List

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

Contract No. N68711-92-D-4670

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY

CLEAN II

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

CTO-0065/0170

May 1996

Prepared by:

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

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

ACCUMULATION AREA EVALUATION CHECKLIST

(CIRCLE AS APPROPRIATE AND FILL IN COMPLETELY)

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

GENERAL DESCRIPTION:

SWMU #: **130** Accumulation Area (AA) #: **447**
Location (bldg): **Drum Storage Area/Bldg. 447**
Site Contact: **Leta Suarez** Ext: **2772**
Permission for Access? ~~Y~~ N If yes, explain: **N/A**
Type of Wastes Observed **None**

TYPE: (CIRCLE AS APPROPRIATE)

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

CONDITION:

~~Stain(s)~~ ~~Odor(s)~~ ~~Crack(s)~~
Placards/Labels: ~~Y~~ N If Yes, list:

Observations: **This is a "Desert Storm" operations temporary storage area. No permanent facility such as a pad or berm or fenced area. Presently some pallets of used tires and drums of various wastes from Desert Storm (No photo).**
Status: **Area is clear of material, and is vacant as of 11-10-95.**

DIMENSIONS: (ESTIMATED SIZE OR AREA IN FT)

AA/SWMU: **N/A**
"Stain(s)" : **None.**
Any Restrictions To Access?: **Pallets of tires pose an obstruction.**

EVALUATION OF REMOVAL/DECONTAMINATION STRATEGY (CIRCLE AS APPROPRIATE)

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

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

DATE/TIME OF SURVEILLANCE: 12-5 & 8-94/13:20 & 13:10
UPDATED: 11-10-95/13:40
SURVEILLANCE PERFORMED BY: Larry Bauman

No Photo. This page intentionally left blank.

Table 1-2 (continued)

SWMU[a]/TAA[b]	Description; Location	Proposed Action(s)
GROUP 2 TAAs (continued)		
73/TAA 297	Drum Storage Area; Bldg. 297	Evaluate removal and/or decontamination strategy
83/TAA 298	Drum Storage Area; Bldg. 298	Evaluate removal and/or decontamination strategy
88/TAA 306	HWSA; Bldg. 306	Evaluate removal and/or decontamination strategy
269/TAA 314	HWSA; Bldg. 314	Evaluate removal and/or decontamination strategy
93/TAA 317	Drum Storage Area; Bldg. 317	Evaluate removal and/or decontamination strategy
97/TAA 357	Drum Storage Area; Bldg. 357	Evaluate removal and/or decontamination strategy
254/TAA 359A	Drum Storage Area; Bldg. 359A	Evaluate removal and/or decontamination strategy
99/TAA 359B	HWSA; Bldg. 359B	Evaluate removal and/or decontamination strategy
107/TAA 371A	HWSA; Bldg. 371A	Evaluate removal and/or decontamination strategy
242/TAA 371B	HWSA; Bldg. 371	Evaluate removal and/or decontamination strategy
114/TAA 386	Drum Storage Area; Bldg. 386	Evaluate removal and/or decontamination strategy
116/TAA 388A	HWSA; Bldg. 388	Evaluate removal and/or decontamination strategy
251/TAA 388B	Drum Storage Area; Bldg. 388	Evaluate removal and/or decontamination strategy
119/TAA 389A	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
259/TAA 389B	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
122/TAA 390A	Drum Storage Area; Bldg. 390	Evaluate removal and/or decontamination strategy
261/TAA 390B	HWSA; Bldg. 390	Evaluate removal and/or decontamination strategy
124/TAA 392A	Drum Storage Area; Bldg. 392	Evaluate removal and/or decontamination strategy
271/TAA 392B	HWSA; Bldg. 392	Evaluate removal and/or decontamination strategy
252/TAA 398	HWSA; Bldg. 398	Evaluate removal and/or decontamination strategy
256/TAA 441	HWSA; Bldg. 441	Evaluate removal and/or decontamination strategy
126/TAA 442	HWSA; Bldg. 442	Evaluate removal and/or decontamination strategy
127/TAA 445	Drum Storage Area; Bldg. 445	Evaluate removal and/or decontamination strategy
130/TAA 447	Drum Storage Area; Bldg. 447	Evaluate removal and/or decontamination strategy
135/TAA 456	Drum Storage Area; Bldg. 456	Evaluate removal and/or decontamination strategy
138/TAA 461	HWSA; Bldg. 461	Evaluate removal and/or decontamination strategy
140/TAA 462	HWSA; Bldg. 462	Evaluate removal and/or decontamination strategy
144/TAA 529	HWSA; Bldg. 529	Evaluate removal and/or decontamination strategy
146/TAA 534	Drum Storage Area; Bldg. 534	Evaluate removal and/or decontamination strategy

(table continues)

Attachment C
List of Accumulation Points and Hazardous Material Storage Areas from Station's HMWMP.

Final

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

August 1994

Appendix I
Photographs of Accumulation Points and Hazardous Material Storage Areas

Prepared for:

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

Prepared by:

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

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

Accumulation Points and Hazardous Material Storage Locations
MCAS El Toro

Page No.

Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Supply 4
Supply 4
Combat Service Support Detachment 14 (CSSD 14) 5
Combat Service Support Detachment 14 (CSSD 14) 5
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Wing Support Squadron 373 (MWSS 373), Refuelers 9
Marine Wing Support Squadron 373 (MWSS 373), Headquarters 9
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 10
Morale, Welfare & Recreation Department (MWR), Golf Course 10
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
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Marine All Weather Fighter Attack Squadron 225 (VFMA (AW) 225) 15
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Accumulation Points, El Toro (Continued)

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Auto Hobby Shop 27
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Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 29
Environmental Above Ground Storge Tank 29
Environmental Above Ground Storge Tank 30

Hazardous Materials Storage Areas, El Toro

Headquarters & Headquarters Squadron 38 (H&HS 38), Storage Area 31
Aero Club, Storage Area 31
Marine Air Control Group 38 (MACG 38), Storage Area 32
Morale, Welfare & Recreation Department (MWR), Auto #1, Storage Area 32
Squadron Operations & Maint Squad (SOMS), HQ, Storage Area 33
Marine Fighter Attack Squadron 314 (VFMA 314), Storage Area 33
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames, Storage Area 34
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Marine Aviation Logistics Squadron 11 (MALS 11), Supply 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 37
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Compressed Gas Cylinder Storage Area 38
Flammable Material Storage Area 38
Chemical Storage Area 39
Chemical Storage Area 39
Flammable Storage Area 40
Hospital Compressed Gas Storage Area 40
Hospital Flammable Material Storage Area 41

Attachment D
OHM Site Assessment Log

SITE ASSESSMENT LOG

MCAS EL TORO

TEMPORARY ACCUMULATION AREA & RFA SITE

18609, D.O. 70

TAA SITE: 447 RFA SITE: N/A SWMU NO. 130

Field Observations by: D. Rawal **Date:** 1/26/99

TAA area: Paved or Unpaved None observed, Bldg 447 is abandoned for Base closure.

Paved: Concrete or Asphalt, Condition of the Concrete/Asphalt: Minor Cracks, Stains, etc. N/A
Steel/metal runway plate is not at Bldg. 447.

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

Is there any Drums or any types of Waste Stored: Yes/No, If Yes, Describe: None,
Bldg. had two UST, 447 A/B removed & closed by OHM. Also, closed OWS 447-C, in place.

Fenced: Yes/No, **Sump:** Yes /No, **Concrete Berm**: Yes/No, ___ inch, **Roof:** Yes/No None

Describe other Structural details: Bldg 447 used to be a Engine Test Cell facility and was closed in 1994-1995. OHM removed two USTs & closed one OWS at this site. No Possible sign of an TAA at this Bldg.

TAA Decontamination and/or Demolition Possible: Yes/No

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

Nearest Building or Structure Distance: Bldg 447.

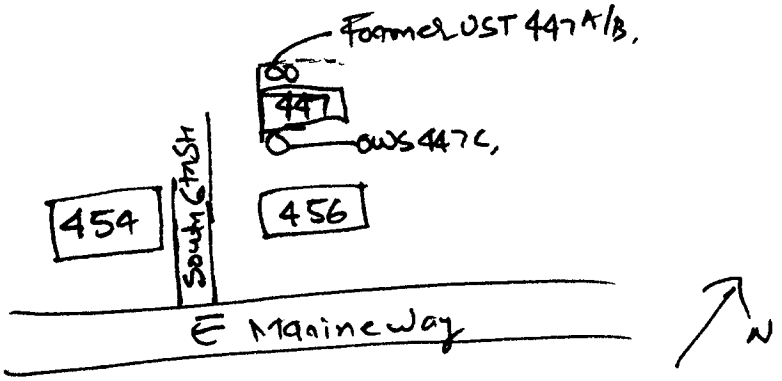
Any Underground Piping/Lines, or Transformer Observed: None

Overhead Utility Lines/Poles: N/A

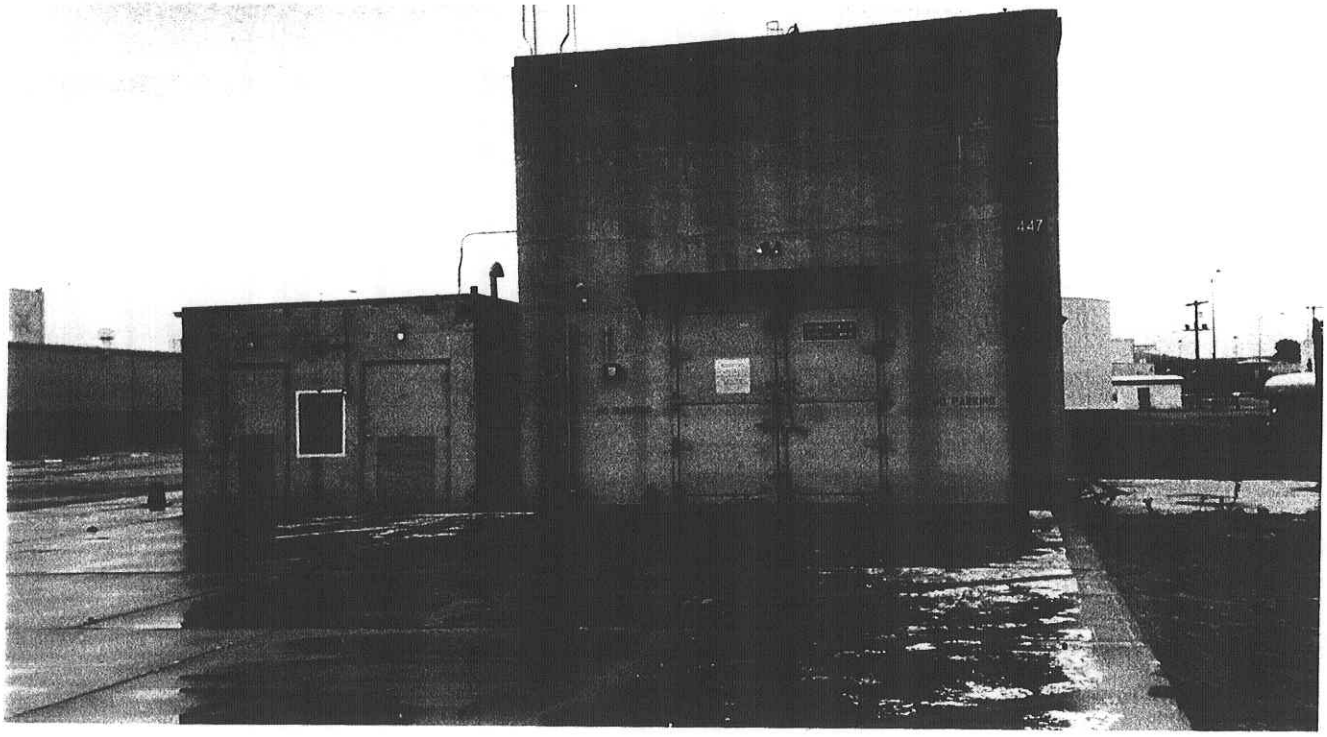
No TAA 447 Existed at this Site, SWMU 131 is under field assessment

Photograph Roll No. 6 Please attach all the Photographs to this sheet.

Draw Sketch:



TAA 447 - Current condition of the Building 447 area. No TAA 447 was observed.



Attachment E
Excerpts from March 1998 Base Realignment and Closure Cleanup Plan

United States Marine Corps

Base Realignment and Closure Cleanup Plan (BCP)

For

Marine Corps Air Station El Toro, CA

March 1998

Table 3-1a
Site Summary
(Sheet 22 of 37)

Seq. No.	Database Tracking	Previous Parcel	New Parcel	Description	Material Disposed	Date of Operation	Status	Risk to Human Health and the Environment[1]	Regulatory Mechanism	NFA	Comments	ECP Area Type[5]
538	TAA 388A	4A	A1	< 90-day accumulation area-Bldg. 388			Active				See Tables 3-9 and 3-13; SWMU/AOC 116	1*
539	TAA 388B	4A	A1	< 90-day accumulation area-Bldg. 388			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 251	1
540	TAA 389A	3A	J4	< 90-day accumulation area-Bldg. 389			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 119	1
541	TAA 389B	3A	J4	< 90-day accumulation area-Bldg. 389			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 259	1
542	TAA 390A	3A	J4	< 90-day accumulation area-Bldg. 390			Active				See Tables 3-9 and 3-13; SWMU/AOC 122	1
543	TAA 390B	3A	J4	< 90-day accumulation area-Bldg. 390			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 261	1*
544	TAA 392A	2A	R	< 90-day accumulation area-Bldg. 392			Active				See Tables 3-9 and 3-13; SWMU/AOC 124	1*
545	TAA 392B	2A	R	< 90-day accumulation area-Bldg. 392			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 271	1*
546	TAA 398	5A	K	< 90-day accumulation area-Bldg. 398			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 252	1*
547	TAA 441	3A	B1	< 90-day accumulation area-Bldg. 441			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 256	1*
548	TAA 442	3A	B1	< 90-day accumulation area-Bldg. 442			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 126	1
549	TAA 443	1G	C2	< 90-day accumulation area-Bldg. 443			Active				See Table 3-9	7
550	TAA 445	4A	A1	< 90-day accumulation area-Bldg. 445			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 127	1
551	TAA 447	3A	B1	< 90-day accumulation area-Bldg. 447			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 130	1*
552	TAA 456	3A	B1	< 90-day accumulation area-Bldg. 456			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 135	1
553	TAA 461	5A	B1	< 90-day accumulation area-Bldg. 461			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 138	1
554	TAA 462	5A	B1	< 90-day accumulation area-Bldg. 462			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 140	1
555	TAA 529	4A	A2	< 90-day accumulation area-Bldg. 529			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 144	1
556	TAA 534	4B	A3	< 90-day accumulation area-Bldg. 534			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 146	1
557	TAA 602	2A	R	< 90-day accumulation area-Bldg. 602			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 147	1*
558	TAA 605	5A	I1	< 90-day accumulation area-Bldg. 605			Active				See Tables 3-9 and 3-13; SWMU/AOC 149	1*
559	TAA 606	5A	I1	< 90-day accumulation area-Bldg. 606			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 255	1
560	TAA 626	1B	H2	< 90-day accumulation area-Bldg. 626			Active				See Tables 3-9 and 3-13; SWMU/AOC 158	6

Table 3-9
Less-Than-90-Day Accumulation Areas
(Sheet 3 of 5)

Database Tracking	Building Number	Previous Parcel	New Parcel	Status	Closure Evaluation[1]	SWMU/ AOC No.	RFA Sampling	Comments	ECP Area Type[2]
TAA 370	370	4A	A2	Active	X	-		Identified in 1994 SPCC Plan. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	7
TAA 371A	371	5A	B1	Active	X	107	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 371B	371	5A	B1	Active	X	242	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 109	379	4A[4]	A1	Inactive		109		Source: SPCC map (no date). Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*
TAA 386	386	4A	A2	Active	X	114		Source: 1980 DHS photograph; no evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 388A	388	4A	A1	Active	X	116	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 388B	388	4A	A1	Active	X	251		No evidence of release/surface defects. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 389A	389	3A	J4	Inactive	X	119		No evidence of release. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 389B	389	3A	J4	Inactive	X	259		Drum storage not confirmed. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 390A	390	3A	J4	Inactive	X	122		Source: 1980 DHS photograph; no evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 390B	390	3A	J4	Inactive	X	261	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 392A	392	2A	R	Active	X	124	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 392B	392	2A	R	Inactive	X	271	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 398	398	5A	K	Inactive	X	252	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 125	415	2B	I2	Inactive	X	125	X	Site was dismantled and stored waste had been removed since VSI was conducted in 1991. NFA concurrence by DTSC (letter dated 7/23/96).	3
TAA 441	441	3A	B1	Inactive	X	256	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 442	442	3A	B1	Inactive	X	126		New site; no evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 443	443	1G	C2	Active		-		Not plotted on Figure 3-1 or Figure 3-4.	7
TAA 445	445	4A	A1	Inactive	X	127		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 447	447	3A	B1	Inactive	X	130	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
RFA 133	453	3A[4]	B1	Inactive		133		Source: SPCC map (no date). Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*

RESULTS OF THE RECORD SEARCH

SWMU/AOC Name: Drum Storage Area (DSA)

TAA 456	SWMU/AOC No: 135	1998 BCP ID: 552

JEG's Final RCRA Facility Assessment Report, (1993) Notes: Building 456 is a General Warehouse. During the VSI in May 1991, JEG team observed some drums of engine oil, hydraulic fluid, paint remover etc. on pallets that were delivered to Receiving Bay #2. No evidence of release or stains was observed. Area is asphalt paved. A copy of the JEG RFA VSI Evaluation form is included in Attachment A.

JEG's Recommendations: No Further Action.

Bechtel's Final Addendum RCRA Facility Assessment Report [1996 (Notes)]: BNI visited Building 456 in November 1995 as part of VSI and found no DSA. No pad berm or fenced area was discovered. Area was clear and vacant as of November 1995. A copy of the BNI VSI Accumulation Evaluation Checklist for SWMU 135 is included in Attachment B.

BNI's Recommendation: Evaluate Removal and/or Decontamination Strategy.

Station's Hazardous Materials / Waste Management Plan (August 1994) Notes: Station's HMWMP does not identify a DSA or TAA 456 at Building 456 as a less than 90 day storage facility or an accumulation point for storage of hazardous waste. Copies of the excerpts from the HMWMP are included in Attachment C.

OHM's Site Visit and Recommendations: OHM visited Building 456 in April 1997 & January 1999. During the field visit, OHM discovered that the building as an active General Warehouse facility, and there was no evidence or sign of a temporary hazardous waste or material drum storage area at this facility. A copy of the OHM Site Assessment Log is included in Attachment D.

After field visit and review of the JEG VSI record, it is obvious that JEG team took pictures of some drums that were delivered at Receiving Bay #2 of Building 456 and mistakenly identified the area as a Drum Storage Area. BNI and OHM confirmed that there was no such DSA.

Based on the review of the historical records from JEG, BNI, Station's HMWMP, and OHM VSI records, OHM concludes that no such DSA exists at Building 456. Therefore, **OHM recommends that Station delete the TAA 456 (BCP ID. 552) from the BCP list of Environmental Locations of Concern (Table 3-1a Site Summary and Table 3-9 Less Than 90-Day Accumulation Areas).** Copies from the March 1998 BCP extracts are included in Attachment E.

Attachment A
JEG RFA VSI Evaluation Form

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

VOLUME I

16 July 1993

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

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

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

In association with:
International Technology Corporation
CH2M HILL

Evaluation Form
SWMU/Area of Concern
Number 135

Unit Characteristics

Building 456 is a general warehouse storage facility. A drum storage area (DSA) was identified on the southeast side of the building adjacent to East Marine Road. Approximately 40 to 50 drums of product materials are stored on asphalt paved ground outside Receiving Bay #2. The storage area is not bermed. No evidence of release (e.g., stained asphalt, leaking drums) was observed during the visual site inspection of the area.

Waste Characteristics

The following product materials were stored at this area:

engine oil
hydraulic fluid
freon
antifreeze
battery acid
paint remover

Possible Migration Pathways

Storm drain
Soil

Evidence of Release

None observed

Exposure Potential

On-Station personnel

Recommendations

No evidence of a release was observed at this DSA. The area is paved and does not have significant cracks. No further action is recommended for this SWMU/AOC.

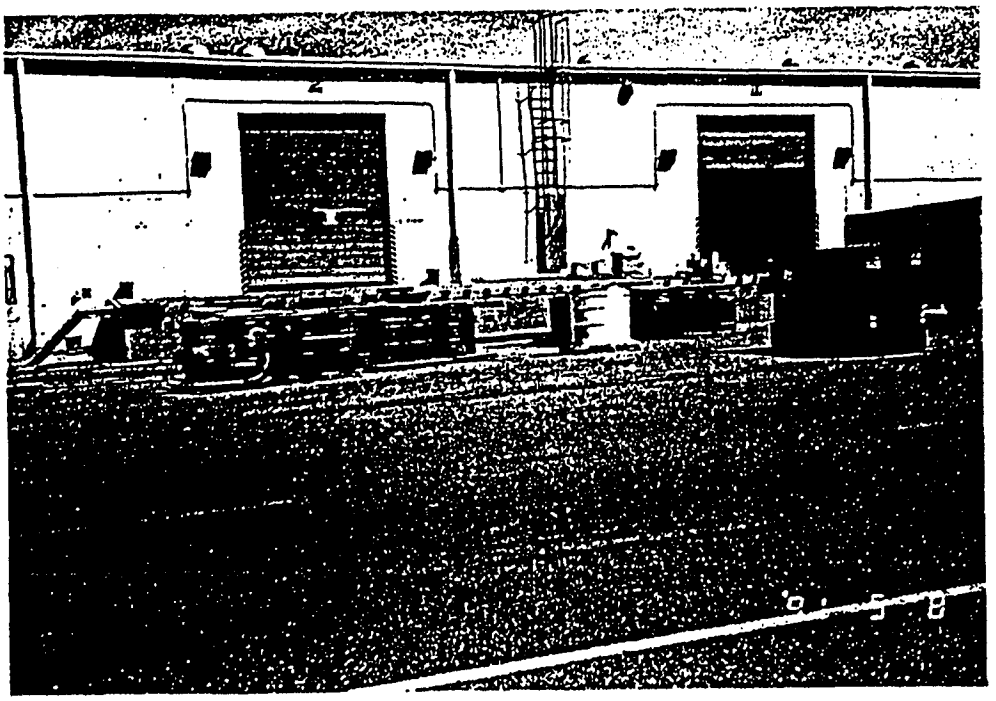
Evaluation Form
SWMU/Area of Concern
Number 135

Name: Drum Storage Area

Location: South side of Building 359 near Receiving Bay #2

Size: Approximately 900 sq ft

Date of Site Visit: 07 May 91



Period of Operation

Currently active

Attachment B
BNI VSI Accumulation Area Evaluation Check List

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

Contract No. N68711-92-D-4670

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY

CLEAN II

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

CTO-0065/0170

May 1996

Prepared by:

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

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

ACCUMULATION AREA EVALUATION CHECKLIST

(CIRCLE AS APPROPRIATE AND FILL IN COMPLETELY)

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

GENERAL DESCRIPTION:

SWMU #: **135** Accumulation Area (AA) #: **456**
Location (bldg): **Drum Storage Area/Bldg. 456**
Site Contact: **Cpls. Veretta or Padilla** Ext: **4617/3193**
Permission for Access? ~~Y~~ (N) If yes, explain: **N/A**
Type of Wastes Observed **None**

TYPE: (CIRCLE AS APPROPRIATE)

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

CONDITION:

~~Stain(s)~~ ~~Odor(s)~~ (Crack(s))
Placards/Labels: ~~Y~~ (N) If Yes, list:

Observations: **This is a "Desert Storm" operations temporary storage area. No permanent facility such as a pad or berm or fenced area. Presently there is nothing at the site. Gutter drains out to site. Small crack in asphalt; not significant.**
Status: **Area clear and vacant as of 11-10-95.**

DIMENSIONS: (ESTIMATED SIZE OR AREA IN FT)

AA/SWMU: **N/A**
"Stain(s)" : **None.**
Any Restrictions To Access?: **Used currently as a parking lot.**

EVALUATION OF REMOVAL/DECONTAMINATION STRATEGY (CIRCLE AS APPROPRIATE)

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

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

DATE/TIME OF SURVEILLANCE: 12-5 & 8-94/14:30 & 13:10
UPDATED: 11-10-95
SURVEILLANCE PERFORMED BY: Larry Bauman

PHOTO LOG

SWMU #: 135

PHOTO DATE: 12-14-94

Table 1-2 (continued)

SWMU[a]/TAA[b]	Description; Location	Proposed Action(s)
GROUP 2 TAAs (continued)		
73/TAA 297	Drum Storage Area; Bldg. 297	Evaluate removal and/or decontamination strategy
83/TAA 298	Drum Storage Area; Bldg. 298	Evaluate removal and/or decontamination strategy
88/TAA 306	HWSA; Bldg. 306	Evaluate removal and/or decontamination strategy
269/TAA 314	HWSA; Bldg. 314	Evaluate removal and/or decontamination strategy
93/TAA 317	Drum Storage Area; Bldg. 317	Evaluate removal and/or decontamination strategy
97/TAA 357	Drum Storage Area; Bldg. 357	Evaluate removal and/or decontamination strategy
254/TAA 359A	Drum Storage Area; Bldg. 359A	Evaluate removal and/or decontamination strategy
99/TAA 359B	HWSA; Bldg. 359B	Evaluate removal and/or decontamination strategy
107/TAA 371A	HWSA; Bldg. 371A	Evaluate removal and/or decontamination strategy
242/TAA 371B	HWSA; Bldg. 371	Evaluate removal and/or decontamination strategy
114/TAA 386	Drum Storage Area; Bldg. 386	Evaluate removal and/or decontamination strategy
116/TAA 388A	HWSA; Bldg. 388	Evaluate removal and/or decontamination strategy
251/TAA 388B	Drum Storage Area; Bldg. 388	Evaluate removal and/or decontamination strategy
119/TAA 389A	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
259/TAA 389B	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
122/TAA 390A	Drum Storage Area; Bldg. 390	Evaluate removal and/or decontamination strategy
261/TAA 390B	HWSA; Bldg. 390	Evaluate removal and/or decontamination strategy
124/TAA 392A	Drum Storage Area; Bldg. 392	Evaluate removal and/or decontamination strategy
271/TAA 392B	HWSA; Bldg. 392	Evaluate removal and/or decontamination strategy
252/TAA 398	HWSA; Bldg. 398	Evaluate removal and/or decontamination strategy
256/TAA 441	HWSA; Bldg. 441	Evaluate removal and/or decontamination strategy
126/TAA 442	HWSA; Bldg. 442	Evaluate removal and/or decontamination strategy
127/TAA 445	Drum Storage Area; Bldg. 445	Evaluate removal and/or decontamination strategy
130/TAA 447	Drum Storage Area; Bldg. 447	Evaluate removal and/or decontamination strategy
135/TAA 456	Drum Storage Area; Bldg. 456	Evaluate removal and/or decontamination strategy
138/TAA 461	HWSA; Bldg. 461	Evaluate removal and/or decontamination strategy
140/TAA 462	HWSA; Bldg. 462	Evaluate removal and/or decontamination strategy
144/TAA 529	HWSA; Bldg. 529	Evaluate removal and/or decontamination strategy
146/TAA 534	Drum Storage Area; Bldg. 534	Evaluate removal and/or decontamination strategy

(table continues)

Attachment C
List of Accumulation Points and Hazardous Material Storage Areas from Station's HMWMP.

Final

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

August 1994

Appendix I
Photographs of Accumulation Points and Hazardous Material Storage Areas

Prepared for:

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

Prepared by:

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

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

Accumulation Points and Hazardous Material Storage Locations
MCAS El Toro

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Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Supply 4
Supply 4
Combat Service Support Detachment 14 (CSSD 14) 5
Combat Service Support Detachment 14 (CSSD 14) 5
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
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Morale, Welfare & Recreation Department (MWR), Golf Course 10
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Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Headquarters 26
Morale, Welfare & Recreation Department (MWR), Auto #1 26
Auto Hobby Shop 27
Armory 27
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 29
Environmental Above Ground Storge Tank 29
Environmental Above Ground Storge Tank 30

Hazardous Materials Storage Areas, El Toro

Headquarters & Headquarters Squadron 38 (H&HS 38), Storage Area 31
Aero Club, Storage Area 31
Marine Air Control Group 38 (MACG 38), Storage Area 32
Morale, Welfare & Recreation Department (MWR), Auto #1, Storage Area 32
Squadron Operations & Maint Squad (SOMS), HQ, Storage Area 33
Marine Fighter Attack Squadron 314 (VFMA 314), Storage Area 33
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 37
Marine Aviation Logistics Squadron 11 (MALS 11), Storage Area 37
Compressed Gas Cylinder Storage Area 38
Flammable Material Storage Area 38
Chemical Storage Area 39
Chemical Storage Area 39
Flammable Storage Area 40
Hospital Compressed Gas Storage Area 40
Hospital Flammable Material Storage Area 41

Attachment D
OHM Site Assessment Log

SITE ASSESSMENT LOG

MCAS EL TORO

TEMPORARY ACCUMULATION AREA & RFA SITE

18609, D.O. 70

TAA SITE: 456 RFA SITE: _____ SWMU NO. 135

Field Observations by: D. Rawal **Date:** 1/22/99

TAA area: Paved or Unpaved None observed. Bldg 456 is a warehouse for receiving materials for Station.

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

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

Is there any Drums or any types of Waste Stored: Yes/No, If Yes, Describe: None, Bay were clear JEG observed some pallets & drums that were delivered at Bldg. 456.

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

Describe other Structural details: No TAA observed. Bldg 456 is a warehouse. No TAA observed.

TAA Decontamination and/or Demolition Possible: Yes/No

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

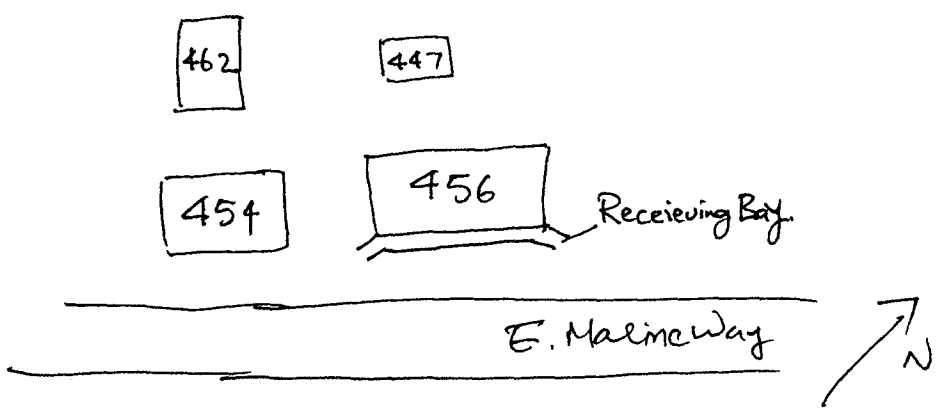
Nearest Building or Structure Distance:

Any Underground Piping/Lines, or Transformer Observed: N/A

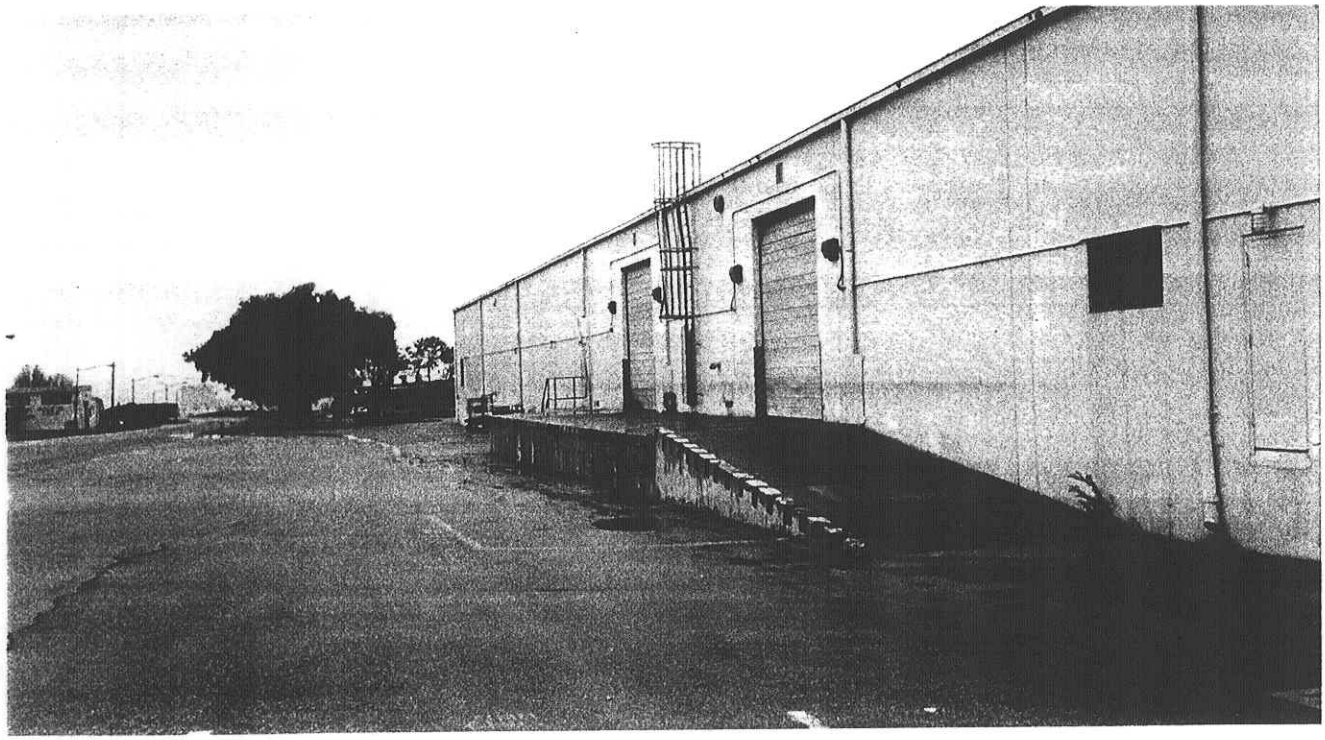
Overhead Utility Lines/Poles: N/A

Photograph Roll No. 8 Please attach all the Photographs to this sheet.

Draw Sketch:



TAA 456 - Current condition of the Building 456 area. Receiving Bay but No TAA 456 was observed.



Attachment E
Excerpts from March 1998 Base Realignment and Closure Cleanup Plan

United States Marine Corps

Base Realignment and Closure Cleanup Plan (BCP)

For

Marine Corps Air Station El Toro, CA

March 1998

Table 3-1a
Site Summary
(Sheet 22 of 37)

Seq. No.	Database Tracking	Previous Parcel	New Parcel	Description	Material Disposed	Date of Operation	Status	Risk to Human Health and the Environment[1]	Regulatory Mechanism	NFA	Comments	ECP Area Type[3]
538	TAA 388A	4A	A1	< 90-day accumulation area-Bldg. 388			Active				See Tables 3-9 and 3-13; SWMU/AOC 116	1*
539	TAA 388B	4A	A1	< 90-day accumulation area-Bldg. 388			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 251	1
540	TAA 389A	3A	J4	< 90-day accumulation area-Bldg. 389			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 119	1
541	TAA 389B	3A	J4	< 90-day accumulation area-Bldg. 389			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 259	1
542	TAA 390A	3A	J4	< 90-day accumulation area-Bldg. 390			Active				See Tables 3-9 and 3-13; SWMU/AOC 122	1
543	TAA 390B	3A	J4	< 90-day accumulation area-Bldg. 390			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 261	1*
544	TAA 392A	2A	R	< 90-day accumulation area-Bldg. 392			Active				See Tables 3-9 and 3-13; SWMU/AOC 124	1*
545	TAA 392B	2A	R	< 90-day accumulation area-Bldg. 392			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 271	1*
546	TAA 398	5A	K	< 90-day accumulation area-Bldg. 398			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 252	1*
547	TAA 441	3A	B1	< 90-day accumulation area-Bldg. 441			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 256	1*
548	TAA 442	3A	B1	< 90-day accumulation area-Bldg. 442			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 126	1
549	TAA 443	1G	C2	< 90-day accumulation area-Bldg. 443			Active				See Table 3-9	7
550	TAA 445	4A	A1	< 90-day accumulation area-Bldg. 445			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 127	1
551	TAA 447	3A	B1	< 90-day accumulation area-Bldg. 447			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 130	1*
552	TAA 456	3A	B1	< 90-day accumulation area-Bldg. 456			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 135	1
553	TAA 461	5A	B1	< 90-day accumulation area-Bldg. 461			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 138	1
554	TAA 462	5A	B1	< 90-day accumulation area-Bldg. 462			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 140	1
555	TAA 529	4A	A2	< 90-day accumulation area-Bldg. 529			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 144	1
556	TAA 534	4B	A3	< 90-day accumulation area-Bldg. 534			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 146	1
557	TAA 602	2A	R	< 90-day accumulation area-Bldg. 602			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 147	1*
558	TAA 605	5A	I1	< 90-day accumulation area-Bldg. 605			Active				See Tables 3-9 and 3-13; SWMU/AOC 149	1*
559	TAA 606	5A	I1	< 90-day accumulation area-Bldg. 606			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 255	1
560	TAA 626	1B	H2	< 90-day accumulation area-Bldg. 626			Active				See Tables 3-9 and 3-13; SWMU/AOC 158	6

Table 3-9
Less-Than-90-Day Accumulation Areas
(Sheet 4 of 5)

Database Tracking	Building Number	Previous Parcel	New Parcel	Status	Closure Evaluation[1]	SWMU/ AOC No.	RFA Sampling	Comments	ECP Area Type[2]
RFA 134	454	3A[4]	B1	Inactive		134		Source: SPCC map (no date). Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*
TAA 456	456	3A	B1	Inactive	X	135		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 461	461	5A	B1	Active	X	138	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 462	462	5A	B1	Active	X	140		Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 529	529	4A	A2	Inactive	X	144	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 534	534	4B	A3	Active	X	146		Stored inside building. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 602	602	2A	R	Inactive	X	147	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 605	605	5A	I1	Active	X	149	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 606	606	5A	I1	Active	X	255	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 626	626	1B	H2	Active		158		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 20, but will not be addressed under the IR Program. Not plotted on Figure 3-1 or Figure 3-4.	6
TAA 634	634	2A	R	Active	X	-		Identified in 1994 SPCC Plan. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1*
TAA 636	636	3A	B1	Inactive	X	160	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 651	651	1G	C2	Active	X	165	X	Located on/combined with SWMU/AOC 164 (vehicle wash rack). Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 658	658	2A	I1	Inactive	X	171	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	3
TAA 671	671	4A	A1	Active	X	172	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 672	672	4A	A1	Active	X	177		Product storage. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 673	673	3A	J4	Active	X	186	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 693	693	1G	C2	Inactive		-		Identified in Station's HW Open Drum Inspection Report	7
TAA 698	698	5A	I1	Inactive	X	-		Identified in 1994 SPCC Plan. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 744	744	1G	C2	Active	X	-		Identified in 1994 SPCC Plan. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1*
TAA 746	746	2A	I1	Active		-		Identified in Station's HW Open Drum Inspection Report	7
TAA 747	747	2A	I1	Active		-		Identified in Station's HW Open Drum Inspection Report	7
TAA 761	761	3A	B1	Inactive		236		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 20, but will not be addressed under the IR Program.	7

RESULTS OF THE RECORD SEARCH

SWMU/AOC Name: Drum Storage Area (DSA)

TAA 534	SWMU/AOC No: 146	1998 BCP ID: 556

JEG's Final RCRA Facility Assessment Report, (1993) Notes: Building 534 is a storage facility for corrosive materials such as acids and batteries. During the field VSI in May 1991, JEG team observed some drums of sulfuric, phosphoric acid and batteries inside the Building on the concrete floor. Per JEG, no evidence of release or stains and cracks were observed. No hazardous wastes were stored at this Building. Building 534 is designated for storage of hazardous corrosive materials. A copy of the JEG RFA VSI Evaluation form is included in Attachment A.
JEG's Recommendations: No evidence of release was observed at this area. No Further Action.

Bechtel's Final Addendum RCRA Facility Assessment Report [1996 (Notes)]: BNI visited Building 534 in November 1995 as part of VSI and found no DSA. No sign of any storage area inside or outside of the building was observed. Area was clear and vacant as of November 1995. A copy of the BNI's Accumulation Area Evaluation Check List for TAA 534 / SWMU 146 is included in Attachment B.
BNI's Recommendation: Evaluate Removal and/or Decontamination Strategy.

Station's Hazardous Materials / Waste Management Plan (August 1994) Notes: Station's HMWMP does not identify a TAA 534 at Building 534 as a less than 90 day storage facility or an accumulation point for storage of hazardous waste. Copies of the excerpts from HMWMP are included in Attachment C.

OHM's Site Visit and Recommendations: OHM visited Building 534 in April 1997 and January 1999. During the field visit, OHM discovered that the building 534 was locked but seems to be active. There was no evidence or sign of a temporary hazardous waste drum storage area outside of the Building. OHM looked inside and discovered some drums of hazardous materials were stored on the pallets. No placards for hazardous waste storage were observed on the Building 534 or near Building. But placard "Corrosive" for a hazardous material is on the Building. A copy of the OHM Site Assessment Log is included in Attachment D.

After reviewing JEG and BNI VSI record, it is clear that Building 534 is designated for storage of corrosive hazardous materials but no hazardous waste were stored or handled at Building 534. Building 534 seems active but was locked.

Per Station personnel, Building 534 will be closed after Station's operation activities are officially closed. Hazardous Materials are managed in accordance with the Station's HMWMP.

Based on the review of the historical records from JEG, BNI, Station's HMWMP, and OHM VSI records, OHM concludes that Building 534 does not have a hazardous waste DSA but Building 534 is designated for storage of hazardous corrosive materials. Therefore, **OHM recommends that Station delete the TAA 534 (BCP ID. 556) from the BCP list of Environmental Locations of Concern (Table 3-1a Site Summary and Table 3-9 of Less Than 90-Day Accumulation Areas).** Copies of the excerpts from March 1998 BCP are included in Attachment E.

Attachment A
JEG RFA VSI Evaluation Form

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

VOLUME I

16 July 1993

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

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

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

In association with:
International Technology Corporation
CH2M HILL

Evaluation Form
SWMU/Area of Concern
Number 146

Unit Characteristics

Building 534 is a drum storage facility for corrosive materials. The building is a one-room structure, approximately 800 sq ft. Corrosive materials such as sulfuric acid, phosphoric acid, and batteries are stored inside the building on a concrete floor. A drain, leading to an unknown destination, is located in the center of the building. There are no significant stains or cracks in the concrete flooring.

Waste Characteristics

Sulfuric acid
Phosphoric acid
Batteries

Possible Migration Pathways

Soil
Storm drain

Evidence of Release

None observed

Exposure Potential

Authorized on-Station personnel

Recommendations

No evidence of a release was observed at this area. No further action is recommended for this SWMU/AOC.

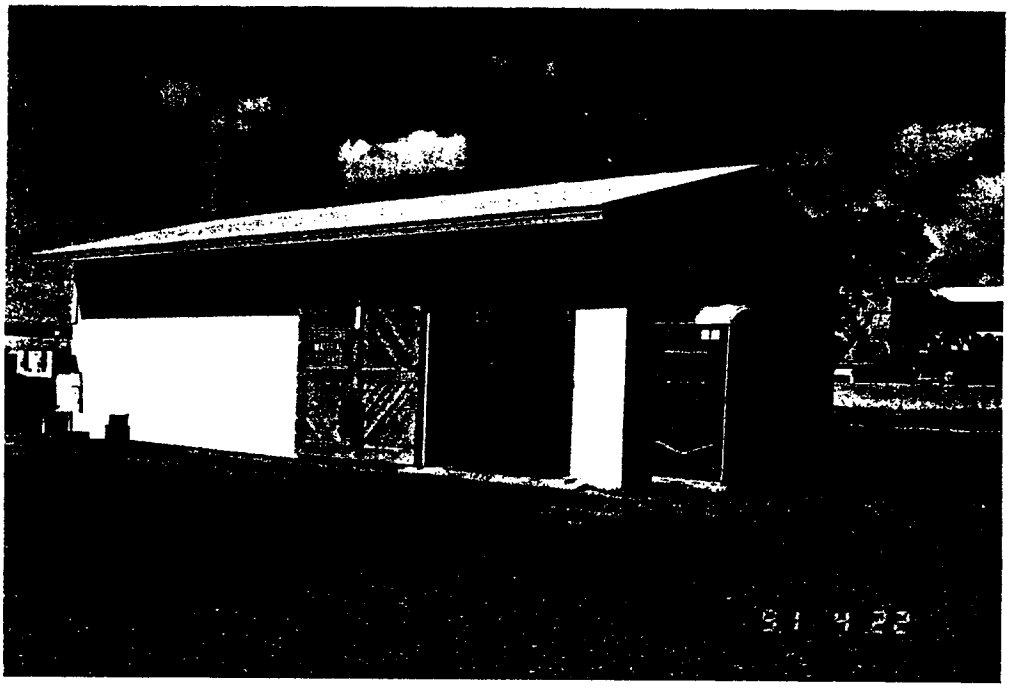
Evaluation Form
SWMU/Area of Concern
Number 146

Name: Drum Storage Area

Location: Building 534

Size: 800 sq ft

Date of Site Visit: 22 April 91



Period of Operation

Currently active

Attachment B
BNI VSI Accumulation Area Evaluation Check List

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

Contract No. N68711-92-D-4670

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY

CLEAN II

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

CTO-0065/0170

May 1996

Prepared by:

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

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

ACCUMULATION AREA EVALUATION CHECKLIST

(CIRCLE AS APPROPRIATE AND FILL IN COMPLETELY)

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

GENERAL DESCRIPTION:

SWMU #: **146** Accumulation Area (AA) #: **534**
Location (bldg): **Drum Storage Area/Bldg. 534**
Site Contact: **Leta Suarez** Ext: **2772**
Permission for Access? ~~Y~~ N If yes, explain:
Type of Wastes Observed **None**

TYPE: (CIRCLE AS APPROPRIATE)

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

CONDITION:

~~Stain(s)~~ ~~Odor(s)~~ ~~Crack(s)~~
Placards/Labels: ~~Y~~ N If Yes, list:

Observations: **No visible evidence of a storage area. Possibly a Desert Storm area. No compacted ground or tracks or other signs of use around the soil perimeter of the building.**
Status: **Area clear as of 11/10/95.**

DIMENSIONS: (ESTIMATED SIZE OR AREA IN FT)

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

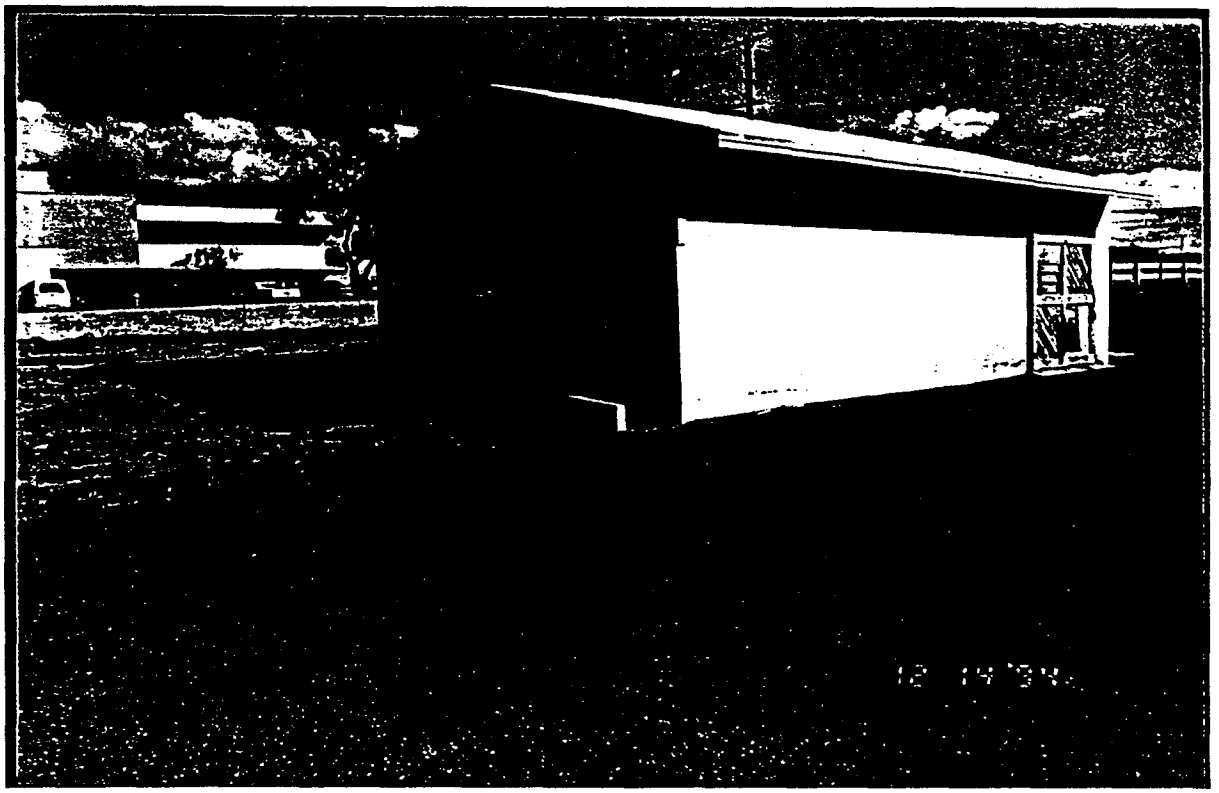
EVALUATION OF REMOVAL/DECONTAMINATION STRATEGY (CIRCLE AS APPROPRIATE)

~~Yes~~	No	Potential for release evident based on this surveillance
Yes	No	Potential for simple removal **(May already be removed)**
Yes	No	Potential for decontamination activities prior to removal
Yes	No	Potential for sampling (describe:)
Yes	No	Potential for removal after additional assessment activities

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

DATE/TIME OF SURVEILLANCE: 12/9/94/10:00
UPDATED: 11-10-95
SURVEILLANCE PERFORMED BY: Larry Bauman

PHOTO LOG



SWMU #: 146

PHOTO DATE: 12-14-94

Table 1-2 (continued)

SWMU[a]/TAA[b]	Description; Location	Proposed Action(s)
GROUP 2 TAAs (continued)		
73/TAA 297	Drum Storage Area; Bldg. 297	Evaluate removal and/or decontamination strategy
83/TAA 298	Drum Storage Area; Bldg. 298	Evaluate removal and/or decontamination strategy
88/TAA 306	HWSA; Bldg. 306	Evaluate removal and/or decontamination strategy
269/TAA 314	HWSA; Bldg. 314	Evaluate removal and/or decontamination strategy
93/TAA 317	Drum Storage Area; Bldg. 317	Evaluate removal and/or decontamination strategy
97/TAA 357	Drum Storage Area; Bldg. 357	Evaluate removal and/or decontamination strategy
254/TAA 359A	Drum Storage Area; Bldg. 359A	Evaluate removal and/or decontamination strategy
99/TAA 359B	HWSA; Bldg. 359B	Evaluate removal and/or decontamination strategy
107/TAA 371A	HWSA; Bldg. 371A	Evaluate removal and/or decontamination strategy
242/TAA 371B	HWSA; Bldg. 371	Evaluate removal and/or decontamination strategy
114/TAA 386	Drum Storage Area; Bldg. 386	Evaluate removal and/or decontamination strategy
116/TAA 388A	HWSA; Bldg. 388	Evaluate removal and/or decontamination strategy
251/TAA 388B	Drum Storage Area; Bldg. 388	Evaluate removal and/or decontamination strategy
119/TAA 389A	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
259/TAA 389B	Drum Storage Area; Bldg. 389	Evaluate removal and/or decontamination strategy
122/TAA 390A	Drum Storage Area; Bldg. 390	Evaluate removal and/or decontamination strategy
261/TAA 390B	HWSA; Bldg. 390	Evaluate removal and/or decontamination strategy
124/TAA 392A	Drum Storage Area; Bldg. 392	Evaluate removal and/or decontamination strategy
271/TAA 392B	HWSA; Bldg. 392	Evaluate removal and/or decontamination strategy
252/TAA 398	HWSA; Bldg. 398	Evaluate removal and/or decontamination strategy
256/TAA 441	HWSA; Bldg. 441	Evaluate removal and/or decontamination strategy
126/TAA 442	HWSA; Bldg. 442	Evaluate removal and/or decontamination strategy
127/TAA 445	Drum Storage Area; Bldg. 445	Evaluate removal and/or decontamination strategy
130/TAA 447	Drum Storage Area; Bldg. 447	Evaluate removal and/or decontamination strategy
135/TAA 456	Drum Storage Area; Bldg. 456	Evaluate removal and/or decontamination strategy
138/TAA 461	HWSA; Bldg. 461	Evaluate removal and/or decontamination strategy
140/TAA 462	HWSA; Bldg. 462	Evaluate removal and/or decontamination strategy
144/TAA 529	HWSA; Bldg. 529	Evaluate removal and/or decontamination strategy
146/TAA 534	Drum Storage Area; Bldg. 534	Evaluate removal and/or decontamination strategy

(table continues)

Attachment C
List of Accumulation Points and Hazardous Material Storage Areas from Station's HMWMP.

Final

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

August 1994

Appendix I
Photographs of Accumulation Points and Hazardous Material Storage Areas

Prepared for:

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

Prepared by:

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

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

Accumulation Points and Hazardous Material Storage Locations
MCAS El Toro

Page No.

Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 1
Motor Pool (G-4) Bldg 770 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 2
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Facilities Maintenance Department Shops, Bldg 1601 (FMD) 3
Supply 4
Supply 4
Combat Service Support Detachment 14 (CSSD 14) 5
Combat Service Support Detachment 14 (CSSD 14) 5
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aerial Refueler/Transport Squadron 352 (VMGR 352) 6
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Fixed Wing 7
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Aircraft Group 46 (MAG 46), Helo Mals 11 8
Marine Wing Support Squadron 373 (MWSS 373), Refuelers 9
Marine Wing Support Squadron 373 (MWSS 373), Headquarters 9
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 10
Morale, Welfare & Recreation Department (MWR), Golf Course 10
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics 11
Marine All Weather Fighter Attack Squadron 242 (VFMA (AW) 242) 12
Marine All Weather Fighter Attack Squadron 121 (VFMA (AW) 121) 12
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Fighter Attack Training Squadron 101 (VFMAT 101) 13
Marine Aviation Logistics Squadron 11 (MALS 11), Avionics 14
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance 14
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 15
Marine All Weather Fighter Attack Squadron 225 (VFMA (AW) 225) 15
Maytag Aircraft Corporation 16
Maytag Aircraft Corporation 16
MOD Team 17
Marine Fighter Attack Squadron 323 (VFMA 323) 17
Marine Fighter Attack Squadron 314 (VFMA 314) 18
Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant 18
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 19
Marine Aviation Logistics Squadron 11 (MALS 11), GSE North 20
Squadron Operations & Maintenance Squadron (SOMS), Recovery 20
Marine Wing Support Squadron Utilities (MWSS Utilities) 21
Marine Wing Support Squadron Utilities (MWSS Utilities) 21

Accumulation Points, El Toro (Continued)

Page No.

Marine Wing Headquarters Squadron 3 (MWHS 3) 22
Aero Club 22
Headquarters & Headquarters Squadron 38 (H&HS 38) 23
Marine Aircraft Group 46 (MAG 46) 23
Marine Aircraft Group 46 (MAG 46) 24
Marine Air Control Group 38 (MACG 38) 24
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Headquarters 26
Morale, Welfare & Recreation Department (MWR), Auto #1 26
Auto Hobby Shop 27
Armory 27
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 29
Environmental Above Ground Storge Tank 29
Environmental Above Ground Storge Tank 30

Hazardous Materials Storage Areas, El Toro

Headquarters & Headquarters Squadron 38 (H&HS 38), Storage Area 31
Aero Club, Storage Area 31
Marine Air Control Group 38 (MACG 38), Storage Area 32
Morale, Welfare & Recreation Department (MWR), Auto #1, Storage Area 32
Squadron Operations & Maint Squad (SOMS), HQ, Storage Area 33
Marine Fighter Attack Squadron 314 (VFMA 314), Storage Area 33
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 37
Marine Aviation Logistics Squadron 11 (MALS 11), Storage Area 37
Compressed Gas Cylinder Storage Area 38
Flammable Material Storage Area 38
Chemical Storage Area 39
Chemical Storage Area 39
Flammable Storage Area 40
Hospital Compressed Gas Storage Area 40
Hospital Flammable Material Storage Area 41

Attachment D
OHM Site Assessment Log

SITE ASSESSMENT LOG

MCAS EL TORO

TEMPORARY ACCUMULATION AREA & RFA SITE

18609, D.O. 70

TAA SITE: 534 RFA SITE: N/A SWMU NO. 146

Field Observations by: D. Rawal **Date:** 1/26/99

TAA area: Paved or Unpaved None,

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

Unpaved: Open on the Ground or Inside the Building

Is there any Drums or any types of Waste Stored: Yes/No, If Yes, Describe: None, No Visible Sign of TAA Outside of Bldg. 534.

Fenced: Yes/No, **Sump:** Yes/No, **Concrete Berm**: Yes/No, ___ inch, **Roof:** Yes/No None

Describe other Structural details: Bldg 534 Was a Former Chemical Storage area Building No Haz waste were Stored at these Facility.

TAA Decontamination and/or Demolition Possible: Yes/No N/A

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

Nearest Building or Structure Distance: Bldg 534. & 368.

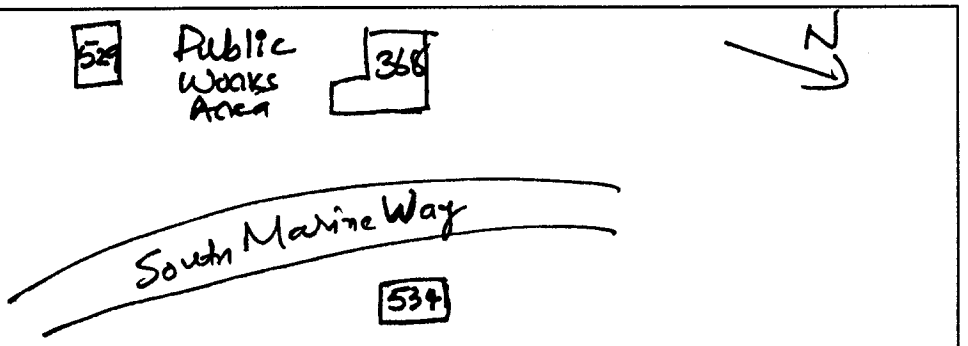
Any Underground Piping/Lines, or Transformer Observed: None,

Overhead Utility Lines/Poles: N/A.

Bldg 534 Was Former Flammable Storage Area for Acids. No Waste were Stored at this location.

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

Draw Sketch:



SITE ASSESSMENT LOG

MCAS EL TORO

TEMPORARY ACCUMULATION AREA & RFA SITE

18609, D.O. 70

TAA SITE: 534 RFA SITE: _____ SWMU NO. 146

Field Observations by: Keith **Date:** 4/17/97

TAA area (Paved) or Unpaved

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

Unpaved: Open on the Ground or (Inside the Building)

Is there any Drums or any types of Waste Stored: Yes/No, If Yes, Describe: N/A
NO visible signs of TAA outside Building

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

Describe other Structural details: Roofed Structure with Plaster walls.
1 Sliding wooden door that is open.

TAA Decontamination and/or Demolition Possible: Yes/(No) Building is being used

Site Setup Constrains: Equipment Operation, movement of Excavator or Backhoe NO

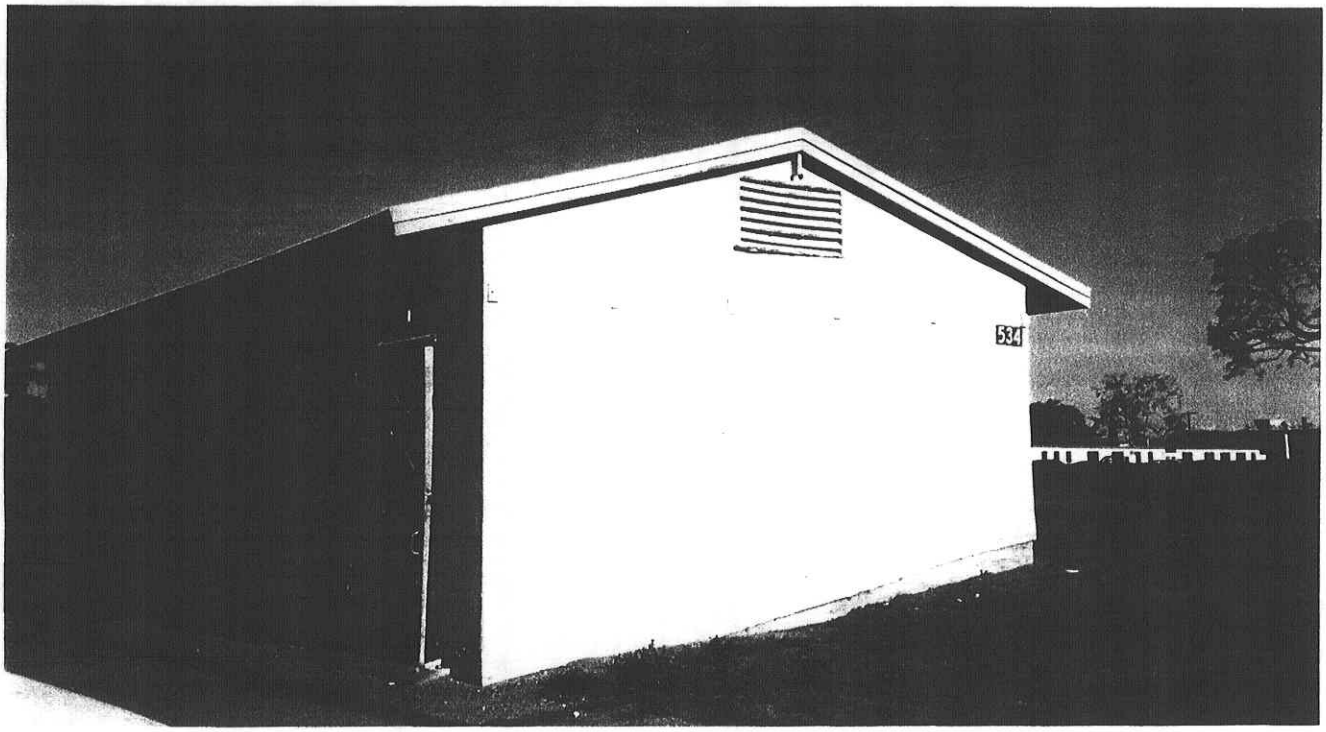
Nearest Building or Structure Distance: Loading Ramp 837 Approx 100' SW

Any Underground Piping/Lines, or Transformer Observed: NO

Overhead Utility Lines/Poles: YES

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

Draw Sketch: See Attached Photo



TAA 534 - Current condition of the Building 534 area. Building is locked but placards are still there for Corrosive Material Storage. No TAA 534 was observed.

Attachment E
Excerpts from March 1998 Base Realignment and Closure Cleanup Plan

United States Marine Corps

Base Realignment and Closure Cleanup Plan (BCP)

For

Marine Corps Air Station El Toro, CA

March 1998

Table 3-1a
Site Summary
(Sheet 22 of 37)

Seq. No.	Database Tracking	Previous Parcel	New Parcel	Description	Material Disposed	Date of Operation	Status	Risk to Human Health and the Environment[1]	Regulatory Mechanism	NFA	Comments	ECP Area Type[5]
538	TAA 388A	4A	A1	< 90-day accumulation area-Bldg. 388			Active				See Tables 3-9 and 3-13; SWMU/AOC 116	1*
539	TAA 388B	4A	A1	< 90-day accumulation area-Bldg. 388			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 251	1
540	TAA 389A	3A	J4	< 90-day accumulation area-Bldg. 389			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 119	1
541	TAA 389B	3A	J4	< 90-day accumulation area-Bldg. 389			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 259	1
542	TAA 390A	3A	J4	< 90-day accumulation area-Bldg. 390			Active				See Tables 3-9 and 3-13; SWMU/AOC 122	1
543	TAA 390B	3A	J4	< 90-day accumulation area-Bldg. 390			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 261	1*
544	TAA 392A	2A	R	< 90-day accumulation area-Bldg. 392			Active				See Tables 3-9 and 3-13; SWMU/AOC 124	1*
545	TAA 392B	2A	R	< 90-day accumulation area-Bldg. 392			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 271	1*
546	TAA 398	5A	K	< 90-day accumulation area-Bldg. 398			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 252	1*
547	TAA 441	3A	B1	< 90-day accumulation area-Bldg. 441			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 256	1*
548	TAA 442	3A	B1	< 90-day accumulation area-Bldg. 442			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 126	1
549	TAA 443	1G	C2	< 90-day accumulation area-Bldg. 443			Active				See Table 3-9	7
550	TAA 445	4A	A1	< 90-day accumulation area-Bldg. 445			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 127	1
551	TAA 447	3A	B1	< 90-day accumulation area-Bldg. 447			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 130	1*
552	TAA 456	3A	B1	< 90-day accumulation area-Bldg. 456			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 135	1
553	TAA 461	5A	B1	< 90-day accumulation area-Bldg. 461			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 138	1
554	TAA 462	5A	B1	< 90-day accumulation area-Bldg. 462			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 140	1
555	TAA 529	4A	A2	< 90-day accumulation area-Bldg. 529			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 144	1
556	TAA 534	4B	A3	< 90-day accumulation area-Bldg. 534			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 146	1
557	TAA 602	2A	R	< 90-day accumulation area-Bldg. 602			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 147	1*
558	TAA 605	5A	I1	< 90-day accumulation area-Bldg. 605			Active				See Tables 3-9 and 3-13; SWMU/AOC 149	1*
559	TAA 606	5A	I1	< 90-day accumulation area-Bldg. 606			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 255	1
560	TAA 626	1B	H2	< 90-day accumulation area-Bldg. 626			Active				See Tables 3-9 and 3-13; SWMU/AOC 158	6

Table 3-9
Less-Than-90-Day Accumulation Areas
(Sheet 4 of 5)

Database Tracking	Building Number	Previous Parcel	New Parcel	Status	Closure Evaluation[1]	SWMU/ AOC No.	RFA Sampling	Comments	ECP Area Type[2]
RFA 134	454	3A[4]	B1	Inactive		134		Source: SPCC map (no date). Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*
TAA 456	456	3A	B1	Inactive	X	135		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 461	461	5A	B1	Active	X	138	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 462	462	5A	B1	Active	X	140		Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 529	529	4A	A2	Inactive	X	144	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 534	534	4B	A3	Active	X	146		Stored inside building. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 602	602	2A	R	Inactive	X	147	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 605	605	5A	I1	Active	X	149	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 606	606	5A	I1	Active	X	255	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 626	626	1B	H2	Active		158		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 20, but will not be addressed under the IR Program. Not plotted on Figure 3-1 or Figure 3-4.	6
TAA 634	634	2A	R	Active	X	-		Identified in 1994 SPCC Plan. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1*
TAA 636	636	3A	B1	Inactive	X	160	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 651	651	1G	C2	Active	X	165	X	Located on/combined with SWMU/AOC 164 (vehicle wash rack). Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 658	658	2A	I1	Inactive	X	171	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	3
TAA 671	671	4A	A1	Active	X	172	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 672	672	4A	A1	Active	X	177		Product storage. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 673	673	3A	J4	Active	X	186	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 693	693	1G	C2	Inactive		-		Identified in Station's HW Open Drum Inspection Report	7
TAA 698	698	5A	I1	Inactive	X	-		Identified in 1994 SPCC Plan. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 744	744	1G	C2	Active	X	-		Identified in 1994 SPCC Plan. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1*
TAA 746	746	2A	I1	Active		-		Identified in Station's HW Open Drum Inspection Report	7
TAA 747	747	2A	I1	Active		-		Identified in Station's HW Open Drum Inspection Report	7
TAA 761	761	3A	B1	Inactive		236		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 20, but will not be addressed under the IR Program.	7

RESULTS OF THE RECORD SEARCH

SWMU/AOC Name: Drum Storage Area (DSA)

TAA 602	SWMU/AOC No: 147	1998 BCP ID: 557

JEG's Final RCRA Facility Assessment Report, (1993) Notes: This DSA was identified in a letter from RWQCB to Station in June 1989. During the field VSI in May 1991, JEG team was unable to locate an active DSA. JEG team observed an unpaved area near northeast side of Building 602 with mobile steel matting. Soil around matting had some stains; therefore JEG recommended sampling visit for SWMU 147. Three, 5-feet deep soil borings were drilled and 6 soil samples were collected. No TPH, VOCs, SVOCs, Pesticides/PCBs, and Metal compounds were detected above the laboratory detection limits. A copy of the JEG RFA VSI Evaluation form is included in Attachment A.

JEG's Recommendations: After review of the soil sampling analytical data, No Further Action.

Bechtel's Final Addendum RCRA Facility Assessment Report [1996 (Notes)]: BNI visited Building 602 in November 1995 as part of VSI and discovered the same matting area. No sign of any hazardous waste storage area inside or outside of the building was observed. Per BNI, no visible signs of stains or release or odors were observed around the matting area. Ground was wet due to rain. A copy of the BNI Accumulation Area Evaluation Checklist is included in Attachment B.

BNI's Recommendation: Evaluate Removal and/or Decontamination Strategy.

Station's Hazardous Materials / Waste Management Plan (August 1994) Notes: Station's HMWMP does not identify a DSA or TAA 602 at Building 602 as a less than 90 day storage facility or an accumulation point for storage of hazardous waste. Copies of the excerpts listing Accumulation points and Hazardous Materials Storage Areas at MCAS El Toro are included in Attachment C.

OHM's Site Visit and Recommendations: OHM visited Building 602 in April 1997 and January 1999. Building 602 used to be a Van Maintenance shop. In April 1997, Building 602 was preparing for closure of operations. Per Sgt. Baird some empty drums were kept outside but no hazardous waste drums were handled or stored at Building 602. During the maintenance activities some used oil rags were stored in drums and disposed through Station's Environmental office. There was no physical evidence or sign of a current or former temporary DSA at this facility. A copy of the OHM Site Assessment Log is included in Attachment D.

After reviewing JEG and BNI VSI record, it is obvious that a less than 90-day facility or an accumulation point for storage of hazardous waste does not exist at Building 602. SWMU 147 DSA was identified by RWQCB in a letter. JEG was unable to locate the former DSA but performed soil sampling in the visually stained area and soil sampling analytical data were non detect for TPH, VOCs, SVOCs, Pesticides/PCBs, and Metal compounds.

Based on the review of the historical records from JEG, BNI, Station's HMWMP, and OHM field VSI records, OHM concludes that no such hazardous waste TAA or former DSA exist at Building 602. Therefore, **OHM recommends that Station delete the TAA 602 (BCP ID. 557) from the BCP list of Environmental Locations of Concern (Table 3-1a Site Summary & Table 3-9 Less Than 90-Day Accumulation Areas).** Copies of the March 1998 BCP excerpts are included in Attachment E.

Attachment A
JEG RFA VSI Evaluation Form

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

VOLUME I

16 July 1993

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

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

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

In association with:
International Technology Corporation
CH2M HILL

Evaluation Form
SWMU/Area of Concern
Number 147

Unit Characteristics

According to a letter from the Regional Water Quality Control Board to Lt. Rehor dated June 23, 1989, a drum storage area (DSA) was located near Building 602. At the time of the visual site inspection, an active drum storage area was not present in the area. Building 602 is bordered on the southeast side by asphalt pavement and on the remaining perimeter by unpaved soil. A probable location of the former DSA was identified on the northeast side of Building 602 at the east corner. An unpaved area measuring approximately 12 ft by 12 ft is covered with mobile steel runway matting. Soil around the matting has numerous stains. The most significant stained area measures approximately 5 ft by 10 ft and is located off the northeast side of the matting.

Waste Characteristics

Unknown

Possible Migration Pathways

Soil

Evidence of Release

Stained soil located on the northeast side of Building 602 adjacent to the probable site of the former DSA

Exposure Potential

On-Station personnel

Recommendations

A sampling visit is recommended for this area.

Evaluation Form
SWMU/Area of Concern
Number 147

Name: Drum Storage Area

Location: Adjacent to Building 602

Size: 144 sq ft

Date of Site Visit: 07 May 91

Period of Operation

Currently active

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						
147	Drum Storage Area (47)	H1	2	ND	ND	75 Z	Methylene Chloride-5 BJ * Toluene-1 J	Diethylphthalate-180 J	ND	NAB	NFA	TPH/TFH < 1000 ppm VOCs < CRDL SVOCs < CRDL Pest/PCB < CRDL Metals < BGT CRDL - Contract Required Detection Limit BGT - Background Threshold Value
			5	ND	ND	31 Z	Methylene Chloride-5 BJ * Acetone-13 *	Di-n-butylphthalate-48 BJ *	ND	NAB		
		H2	2	160	ND	66 Z	Methylene Chloride-5 J * Acetone-8 J * Toluene-1 J	ND	ND	NAB		
			5	ND	ND	ND	Methylene Chloride-16 B * Acetone-8 BJ *	Di-n-butylphthalate-120 BJ *	ND	NAB		
		H3	2	ND	ND	16 Z	Methylene Chloride-5 J * Acetone-9 J *	Di-n-butylphthalate-86 BJ *	ND	NAB		
			5	ND	ND	ND	Methylene Chloride-5 BJ * Toluene-1 J	Di-n-butylphthalate-76 BJ *	ND	NAB		

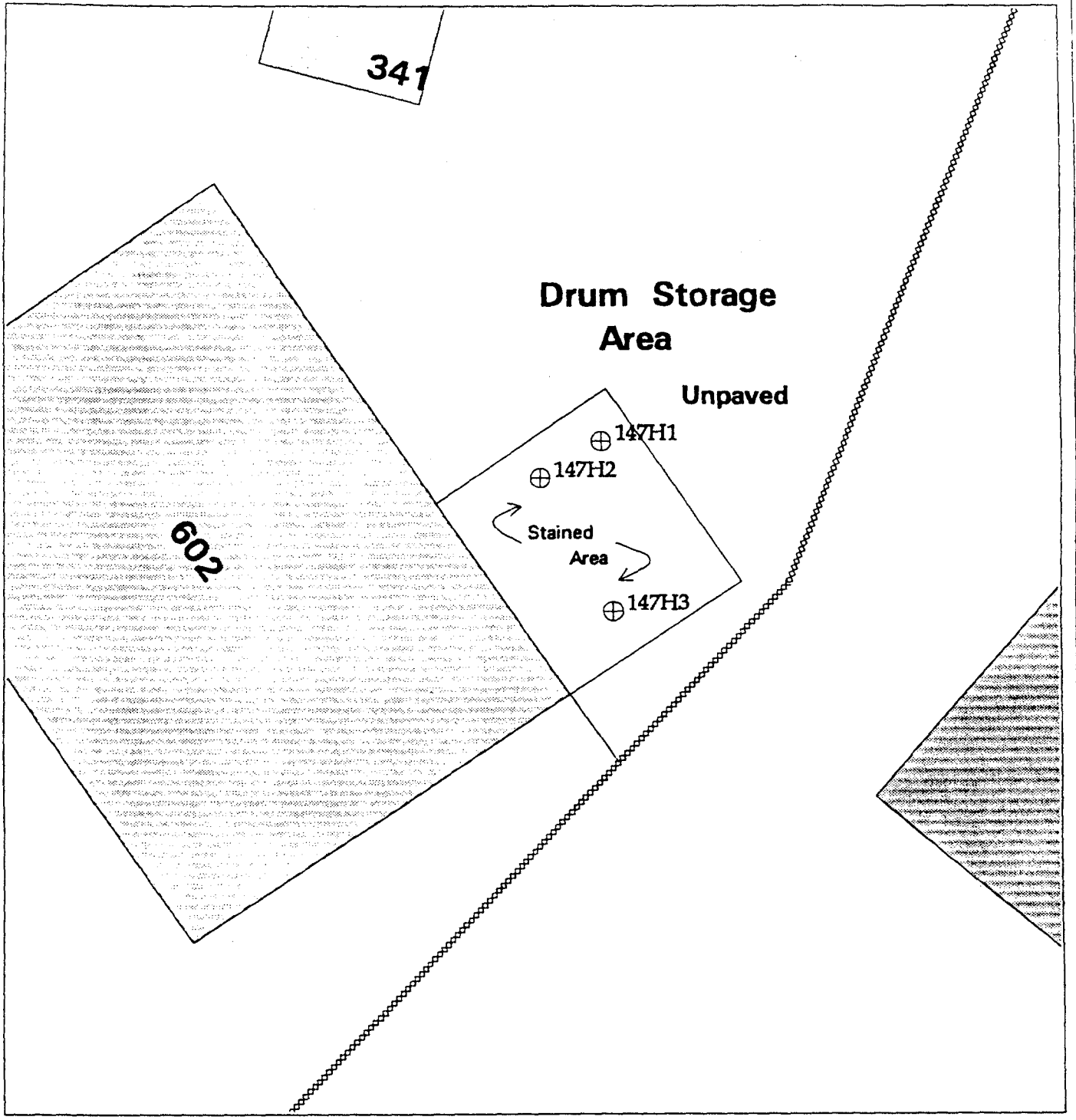


Figure 47 Sample Location Map

SWMU/AOC Number and Type:
147 - Drum Storage Area

Boring Location and Number:

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

Features:

- Building
- Concrete
- Fence
- Railroad

Scale

0 10 20 40 Feet

MCAS El Toro
RCRA Facility Assessment

Table 6-15
Recommendations for SWMUs/AOCs
MCAS El Toro RFA

SWMU No.	SWMU/AOC Type	Recommendation (FA/NFA)	Description of Further Action	Rationale for Further Action
84	Oil/Water Separator	FA	Leak test/inspection of separator	Moderate petroleum hydrocarbon contamination at 10-foot dept
88	Drum Storage Area	FA	Shallow soil borings	Potential for PCBs in shallow soil
90	Former Sewage Treatment Plant Sit	NFA	--	--
91	Underground Storage Tank	NFA	--	--
92	Underground Storage Tank	NFA	--	--
95	Engine Test Cell	NFA	--	--
98	Vehicle Wash Rack	NFA	--	--
99	Drum Storage Area	NFA	--	--
100	TCE Degreaser	NFA	--	--
101	Oil/Water Separator	NFA	--	--
102	Underground Storage Tank	NFA	--	--
107	Hazardous Waste Storage Area	NFA	--	--
110	Vehicle Wash Rack	FA	Repair cracks in pavement	Prevent future migration of petroleum hydrocarbons
112	Oil/Water Separator	NFA	--	--
116	Drum Storage Area	NFA	--	--
120	Vehicle Wash Rack	NFA	--	--
124	Hazardous Waste Storage Area	NFA	--	--
125	Hazardous Waste Storage Area	NFA	--	--
129	Underground Storage Tank	NFA	--	--
130	Drum Storage Area	NFA	--	--
131	Engine Test Cell	FA	Shallow soil borings	SVOC above PRG value
132	Oil/Water Separator	NFA	--	--
137	Oil/Water Separator	NFA	--	--
138	Drum Storage Area	NFA	--	--
139	Oil/Water Separator	NFA	--	--
144	Drum Storage Area	NFA	--	--
145	Underground Storage Tank	FA	Additional boring(s)	Petroleum hydrocarbon contamination, unknown extent
147	Drum Storage Area	NFA	--	--
149	Drum Storage Area	NFA	--	--
151	Oil/Water Separator	FA	Leak test/inspection of separator	Moderate petroleum hydrocarbon contamination at 10-foot dept

Attachment B
BNI VSI Accumulation Area Evaluation Check List

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

Contract No. N68711-92-D-4670

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY

CLEAN II

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

CTO-0065/0170

May 1996

Prepared by:

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

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

ACCUMULATION AREA EVALUATION CHECKLIST

(CIRCLE AS APPROPRIATE AND FILL IN COMPLETELY)

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

GENERAL DESCRIPTION:

SWMU #: **147** Accumulation Area (AA) #: **602**
Location (bldg): **Drum Storage Area/Bldg. 602**
Site Contact: **Leta Suarez** Ext: **2772**
Permission for Access? ~~Y~~ N If yes, explain:
Type of Wastes Observed: **None**

TYPE: (CIRCLE AS APPROPRIATE)

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

CONDITION:

~~Stain(s)~~ ~~Odor(s)~~ ~~Crack(s)~~
Placards/Labels: ~~Y~~ N If Yes, list:

Observations: **Metal pad for drums open to soil below. No visible stains or sign of release. No odors at soil level. Ground wet from rain. Samples taken for RFA CLEAN I.**
Status: **No change as of 11-10-95.**

DIMENSIONS: (ESTIMATED SIZE OR AREA IN FT)

AA/SWMU: **8x8 ft.**
"Stain(s)": **None.**
Any Restrictions To Access?: **building walls, wooden containers, pallets.**

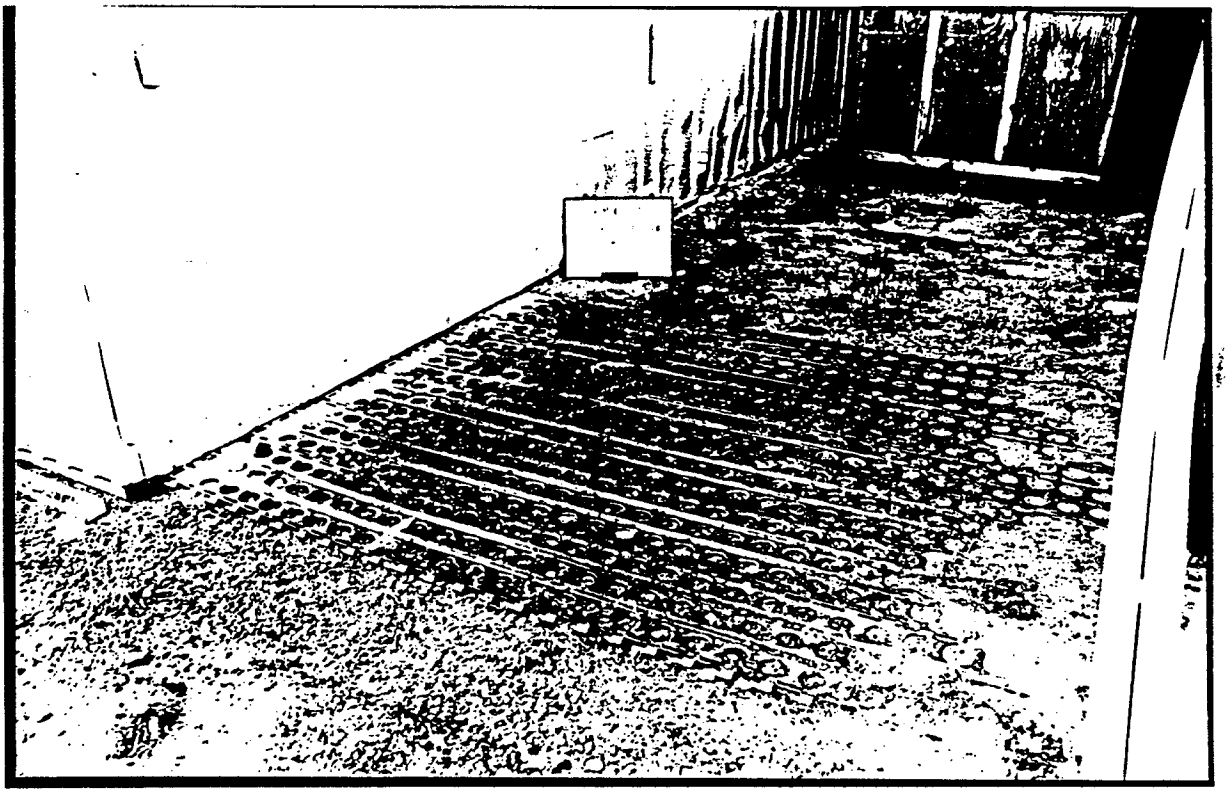
EVALUATION OF REMOVAL/DECONTAMINATION STRATEGY (CIRCLE AS APPROPRIATE)

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

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

DATE/TIME OF SURVEILLANCE: 11-10-95/09:41
UPDATED: 11-10-95
SURVEILLANCE PERFORMED BY: Larry Bauman

PHOTO LOG



SWMU #: 147

PHOTO DATE: 12-14-94

Table 1-2 (continued)

SWMU[a]/TAA[b]	Description; Location	Proposed Action(s)
GROUP 2 TAAs (continued)		
147/TAA 602	Drum Storage Area; Bldg. 602	Evaluate removal and/or decontamination strategy
149/TAA 605	Drum Storage Area; Bldg. 605	Evaluate removal and/or decontamination strategy
255/TAA 606	HWSA; Bldg. 606	Evaluate removal and/or decontamination strategy
160/TAA 636	HWSA; Bldg. 636	Evaluate removal and/or decontamination strategy
165/TAA 651	Drum Storage Area; Bldg. 651	Evaluate removal and/or decontamination strategy; possible sampling
171/TAA 658	HWSA; Bldg. 658	Evaluate removal and/or decontamination strategy
172/TAA 671	HWSA; Bldg. 671	Evaluate removal and/or decontamination strategy
177/TAA 672	Drum Storage Area; Bldg. 672	Evaluate removal and/or decontamination strategy
186/TAA 673	HWSA; Bldg. 673	Evaluate removal and/or decontamination strategy
266/TAA 765	Drum Storage Area; Bldg. 765	Evaluate removal and/or decontamination strategy
222/TAA 769	HWSA; Bldg. 769	Evaluate removal and/or decontamination strategy
223/TAA 770	HWSA; Bldg. 770	Evaluate removal and/or decontamination strategy
224/TAA 771	HWSA; Bldg. 771	Evaluate removal and/or decontamination strategy
225/TAA 772	HWSA; Bldg. 772	Evaluate removal and/or decontamination strategy
226/TAA 778	HWSA; Bldg. 778	Evaluate removal and/or decontamination strategy
227/TAA 779	HWSA; Bldg. 779	Evaluate removal and/or decontamination strategy
229/TAA 800	HWSA; Bldg. 800	Evaluate removal and/or decontamination strategy; possible sampling
234/TAA 856	HWSA; Bldg. 856	Evaluate removal and/or decontamination strategy

Notes:
- [a] SWMU – solid waste management unit
- [b] TAA – temporary accumulation areas, formerly known as satellite accumulation areas
- [c] TAA identified in the 1994 Draft Oil and Hazardous Substances Spill Prevention and Countermeasure Plan and Contingency Plan but not in the Resource Conservation and Recovery Act Facility Assessment; will be assigned a SWMU number and may require sampling
- [d] HWSA – hazardous waste storage area
- [e] HMS – hazardous materials storage
- [f] CTO – Contract Task Order

Attachment C
List of Accumulation Points and Hazardous Material Storage Areas from Station's HMWMP.

Final

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

August 1994

Appendix I
Photographs of Accumulation Points and Hazardous Material Storage Areas

Prepared for:

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

Prepared by:

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

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

Accumulation Points, El Toro (Continued)

Page No.

Marine Wing Headquarters Squadron 3 (MWHS 3) 22
Aero Club 22
Headquarters & Headquarters Squadron 38 (H&HS 38) 23
Marine Aircraft Group 46 (MAG 46) 23
Marine Aircraft Group 46 (MAG 46) 24
Marine Air Control Group 38 (MACG 38) 24
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Maintenance 25
Squadron Operations & Maintenance Squadron (SOMS), Headquarters 26
Morale, Welfare & Recreation Department (MWR), Auto #1 26
Auto Hobby Shop 27
Armory 27
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 28
Building 673-T3, Hazardous Waste Storage 29
Environmental Above Ground Storge Tank 29
Environmental Above Ground Storge Tank 30

Hazardous Materials Storage Areas, El Toro

Headquarters & Headquarters Squadron 38 (H&HS 38), Storage Area 31
Aero Club, Storage Area 31
Marine Air Control Group 38 (MACG 38), Storage Area 32
Morale, Welfare & Recreation Department (MWR), Auto #1, Storage Area 32
Squadron Operations & Maint Squad (SOMS), HQ, Storage Area 33
Marine Fighter Attack Squadron 314 (VFMA 314), Storage Area 33
Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Ordinance, Storage Area 34
Marine Aviation Logistics Squadron 11 (MALS 11), Supply 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 35
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 36
Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics, Storage Area 37
Marine Aviation Logistics Squadron 11 (MALS 11), Storage Area 37
Compressed Gas Cylinder Storage Area 38
Flammable Material Storage Area 38
Chemical Storage Area 39
Chemical Storage Area 39
Flammable Storage Area 40
Hospital Compressed Gas Storage Area 40
Hospital Flammable Material Storage Area 41

SITE ASSESSMENT LOG

MCAS EL TORO

TEMPORARY ACCUMULATION AREA & RFA SITE

18609, D.O. 70

TAA SITE: 602 RFA SITE: N/A SWMU NO. 147

Field Observations by: Dhananjay Rawal **Date:** 4/16/97, January 1999

TAA area: Paved or Unpaved None, NO TAA Observed,

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

Unpaved: Open on the Ground or Inside the Building

No hazardous waste drums stored. Some used oil bags were kept in drums but disposed by Env. office.

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

SHT BAIRD told that someone had moved drums inside the Bldg. 602 Drums are empty. Empty drums were kept outside

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

Describe other Structural details: Bldg 602 was Van Maint. Shop. Currently in process of closure.

TAA Decontamination and/or Demolition Possible: Yes/No NO

Site Setup Constrains: Equipment Operation, movement of Excavator or Backhoe Not Required.

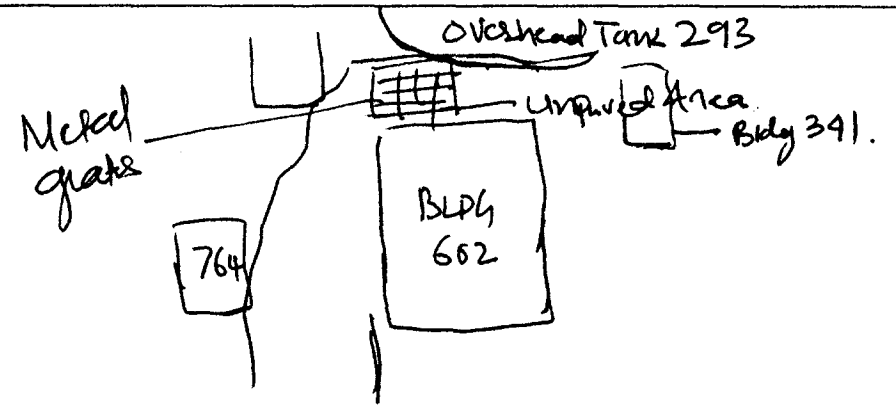
Nearest Building or Structure Distance: 602 & 764. See attached Map.

Any Underground Piping/Lines, or Transformer Observed: N/A

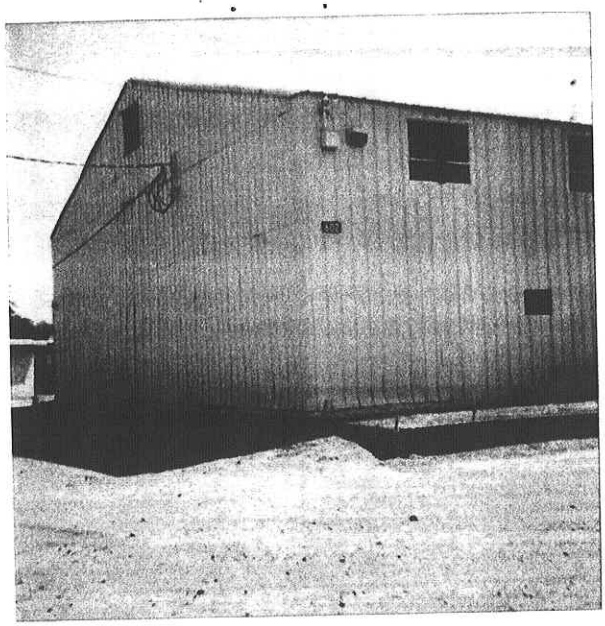
Overhead Utility Lines/Poles: N/A

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

Draw Sketch:



TAA 602 - Current condition of the Building 602 area. No TAA 602 was observed.



Bldg 602

Attachment E
Excerpts from March 1998 Base Realignment and Closure Cleanup Plan

United States Marine Corps

Base Realignment and Closure Cleanup Plan (BCP)

For

Marine Corps Air Station El Toro, CA

March 1998

Table 3-1a
Site Summary
(Sheet 22 of 37)

Seq. No.	Database Tracking	Previous Parcel	New Parcel	Description	Material Disposed	Date of Operation	Status	Risk to Human Health and the Environment[1]	Regulatory Mechanism	NFA	Comments	ECP Area Type[5]
538	TAA 388A	4A	A1	< 90-day accumulation area-Bldg. 388			Active				See Tables 3-9 and 3-13; SWMU/AOC 116	1*
539	TAA 388B	4A	A1	< 90-day accumulation area-Bldg. 388			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 251	1
540	TAA 389A	3A	J4	< 90-day accumulation area-Bldg. 389			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 119	1
541	TAA 389B	3A	J4	< 90-day accumulation area-Bldg. 389			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 259	1
542	TAA 390A	3A	J4	< 90-day accumulation area-Bldg. 390			Active				See Tables 3-9 and 3-13; SWMU/AOC 122	1
543	TAA 390B	3A	J4	< 90-day accumulation area-Bldg. 390			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 261	1*
544	TAA 392A	2A	R	< 90-day accumulation area-Bldg. 392			Active				See Tables 3-9 and 3-13; SWMU/AOC 124	1*
545	TAA 392B	2A	R	< 90-day accumulation area-Bldg. 392			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 271	1*
546	TAA 398	5A	K	< 90-day accumulation area-Bldg. 398			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 252	1*
547	TAA 441	3A	B1	< 90-day accumulation area-Bldg. 441			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 256	1*
548	TAA 442	3A	B1	< 90-day accumulation area-Bldg. 442			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 126	1
549	TAA 443	1G	C2	< 90-day accumulation area-Bldg. 443			Active				See Table 3-9	7
550	TAA 445	4A	A1	< 90-day accumulation area-Bldg. 445			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 127	1
551	TAA 447	3A	B1	< 90-day accumulation area-Bldg. 447			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 130	1*
552	TAA 456	3A	B1	< 90-day accumulation area-Bldg. 456			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 135	1
553	TAA 461	5A	B1	< 90-day accumulation area-Bldg. 461			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 138	1
554	TAA 462	5A	B1	< 90-day accumulation area-Bldg. 462			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 140	1
555	TAA 529	4A	A2	< 90-day accumulation area-Bldg. 529			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 144	1
556	TAA 534	4B	A3	< 90-day accumulation area-Bldg. 534			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 146	1
557	TAA 602	2A	R	< 90-day accumulation area-Bldg. 602			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 147	1*
558	TAA 605	5A	I1	< 90-day accumulation area-Bldg. 605			Active				See Tables 3-9 and 3-13; SWMU/AOC 149	1*
559	TAA 606	5A	I1	< 90-day accumulation area-Bldg. 606			Inactive				See Tables 3-9 and 3-13; SWMU/AOC 255	1
560	TAA 626	1B	H2	< 90-day accumulation area-Bldg. 626			Active				See Tables 3-9 and 3-13; SWMU/AOC 158	6

Table 3-9
Less-Than-90-Day Accumulation Areas
(Sheet 4 of 5)

Database Tracking	Building Number	Previous Parcel	New Parcel	Status	Closure Evaluation[1]	SWMU/ AOC No.	RFA Sampling	Comments	ECP Area Type[2]
RFA 134	454	3A[4]	B1	Inactive		134		Source: SPCC map (no date). Location not confirmed during RFA activities. NFA through agency acceptance of the EBS (Table 3-3).	1*
TAA 456	456	3A	B1	Inactive	X	135		No evidence of release. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 461	461	5A	B1	Active	X	138	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 462	462	5A	B1	Active	X	140		Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 529	529	4A	A2	Inactive	X	144	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 534	534	4B	A3	Active	X	146		Stored inside building. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 602	602	2A	R	Inactive	X	147	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 605	605	5A	I1	Active	X	149	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 606	606	5A	I1	Active	X	255	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 626	626	1B	H2	Active		158		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 20, but will not be addressed under the IR Program. Not plotted on Figure 3-1 or Figure 3-4.	6
TAA 634	634	2A	R	Active	X	-		Identified in 1994 SPCC Plan. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1*
TAA 636	636	3A	B1	Inactive	X	160	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 651	651	1G	C2	Active	X	165	X	Located on/combined with SWMU/AOC 164 (vehicle wash rack). Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1*
TAA 658	658	2A	I1	Inactive	X	171	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	3
TAA 671	671	4A	A1	Active	X	172	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 672	672	4A	A1	Active	X	177		Product storage. Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 673	673	3A	J4	Active	X	186	X	Final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed. NFA pending Station closure.	1
TAA 693	693	1G	C2	Inactive		-		Identified in Station's HW Open Drum Inspection Report	7
TAA 698	698	5A	I1	Inactive	X	-		Identified in 1994 SPCC Plan. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1
TAA 744	744	1G	C2	Active	X	-		Identified in 1994 SPCC Plan. Site visited for final RFA Addendum (BNI, 1996): evaluation of removal and/or decontamination strategy proposed.	1*
TAA 746	746	2A	I1	Active		-		Identified in Station's HW Open Drum Inspection Report	7
TAA 747	747	2A	I1	Active		-		Identified in Station's HW Open Drum Inspection Report	7
TAA 761	761	3A	B1	Inactive		236		To be addressed in the Compliance Program. Site lies within the boundaries of IRP Site 20, but will not be addressed under the IR Program.	7