

Summary Report

Temporary Accumulation Area (TAA) 769
Solid Waste Management Unit (SWMU) 222
Marine Corps Air Station, El Toro, California

18 March 2002

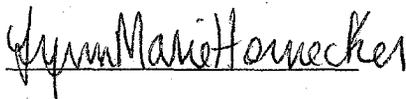
Prepared by:
Southwest Division, Naval Facilities Engineering Command
BRAC Programs Office
San Diego, CA 92101-2404

Summary Report

Temporary Accumulation Area (TAA) 769
Solid Waste Management Unit (SWMU) 222
Marine Corps Air Station, El Toro, California

18 March 2002

Prepared by:



Lynn Marie Hornecker
Project Manager

Southwest Division, Naval Facilities Engineering Command
BRAC Programs Office
San Diego, CA 92101-2404

Transmittal

Date: 18 March 2002

From: Lynn Marie Hornecker *LMH*

To: **Triss Chesney**
State of California Environmental Protection Agency
Department of Toxic Substances Control (DTSC), Region 4
Site Mitigation Branch, Base Closure Unit
5796 Corporate Avenue
Cypress, CA 90630

Subj: Temporary Accumulation Area (TAA) 769
Solid Waste Management Unit (SWMU) 222
Marine Corps Air Station, El Toro

Provided for your review as the attachment is the Summary Report for Former Temporary Accumulation Area (TAA) 769 in the southwestern section of the Marine Corps Air Station, El Toro. TAA 769, a twelve-foot by seventeen-foot storage area, was identified as Solid Waste Management Unit (SWMU) 222 during the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA). Visual inspections and a sampling visit have been conducted during the RFA.

We reviewed historical RFA documentation and other historical records, calculated screening risk levels based upon the RFA soil data, and conducted visual inspections of the former TAA 769 during March 2002. The concrete slab and concrete curb are in excellent condition and no stains or significant cracks were observed. Additionally, no stains were observed on the unpaved areas immediately adjacent to TAA 769. RFA field sampling activities did not identify significant releases at the site. The hazard index (HI) calculations for both the residential and industrial scenarios resulted in HI values that were significantly less than 1. Based upon our evaluation of the historical documentation, the screening risk calculations, and our observations from recent visual inspections, we are recommending that no further action status be designated for TAA 769 in the next BRAC Business Plan update.

If we do not receive comments from your office within sixty (60) days of receipt of this transmittal, then we will assume that you concur with our recommendation to designate no further action status for TAA 769.

SOUTHWESTNAVFACENGCOM
BRAC Operations
Code 06CC.LMH
1220 Pacific Highway
San Diego, California 92132-5190

File: ettaa769ltr.doc

Please do not hesitate to call me at (619) 532-0783 if you have questions on the attachment.
Thank you very much.

Attachment

Summary Report (SWDIV, March 2002)

CF:

Dean Gould (MCAS El Toro BEC)

Project File (MCAS El Toro)

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Section 1 *Introduction*

The purpose of this Summary Report is to present information pertaining to the former Temporary Accumulation Area (TAA) 769 at the Marine Corps Air Station (MCAS), El Toro. TAA 769 was identified near Building 1601 in the southwestern section of the Station during the Resource Conservation and Recovery Act Facility Assessment (RFA). TAA 769 was designated as Solid Waste Management Unit (SWMU) 222. TAA 769 is located within a fenced compound, southeast of Structure 175 (a water storage tank), as shown on Figure 1.

TAA 769 is also located within the investigation boundary of Installation Restoration Program (IRP) Site 24 – the Volatile Organic Compound (VOC) Source Area.

The Marine Corps Air Station, El Toro, also known as the Station, comprises approximately 4,700 acres in eastern Orange County approximately 45 miles southeast of Los Angeles, California. The Station closed on 2 July 1999 in accordance with the Base Realignment and Closure Act of 1993 (BRAC III). TAA 769 is located within a parcel, that prior to 5 March 2002, had been tentatively designated for future use as a cargo area as shown on Figure 2. Evaluation of other reuse alternatives is in progress as of March 2002.

Historical facility records and documentation from the environmental compliance program were acquired and reviewed, and the vicinity of TAA 769 was visually inspected. TAA 769 was in use for hazardous waste storage from approximately 1983 through 1993 based upon historical documentation. During the visual inspection of 1993, the TAA was being used for storage of electrical equipment, however, the floor of the TAA was not closely inspected in 1993. No stains or significant cracks were observed during the visual inspections of December 1994, November 1995, and March 2002. Soil samples were collected adjacent to TAA 769 in 1992 and no significant releases were identified. Based upon the review of historical information and the results of the visual inspections, it is recommended that no further action status be designated for TAA 769 (SWMU 222) in the next BRAC Business Plan update.

Section 2

Field Inspections and Historical Records

2.1 Field Inspections and Sampling Activities at nearby Locations of Concern.

TAA 769 was identified during the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) as Solid Waste Management Unit (SWMU) 222. TAA 769 consists of a concrete pad, approximately 12 feet wide by 17 feet long, enclosed within a chain-link fence. The pad is covered with a canopy. A six-inch concrete curb surrounds the concrete pad. The pad is located within an unpaved storage yard that is surrounded by a chain link fence.

A visual inspection was conducted on 23 April 1991 and the TAA was described as inactive. The visual inspection documentation indicates that electrical equipment (conduit, lights, fans, copper wire) and approximately 4 inches of water had ponded within the TAA. Consequently, the inspection team was not able to inspect the concrete floor of the TAA.

A sampling visit was conducted in October 1992, and a sixty-foot angle boring was advanced adjacent to the northwest side of the TAA. Samples were collected at ten-foot intervals from the sixty-foot boring. Soil data from the angle boring is summarized in Table 1 and extracts from the RFA documentation are included in the Appendix.

Table 1. RFA Sampling Visit Data for TAA 769 (SWMU 222).

Sample Identifier	Analytical Results (JEG 1993)	Comments and Risk Screening Calculations
222A1 (sample depth: 10 feet)	TRPH, TPH, Semivolatile Organic Compounds (SVOCs), Pesticides: ND. Metals were not detected at or above the background levels.	Qualified measurements of Methylene Chloride and Acetone (laboratory contaminants) in all samples from boring 222A1.
222A1 (sample depth: 20 feet)	TRPH, TPH, Semivolatile Organic Compounds (SVOCs), Pesticides: ND. Metals were not detected at or above the background levels. 2-butanone: 2 ug/kg"J"	USEPA Region IX Preliminary Remediation Goals (PRGs) dated November 2000 for 2-butanone (MEK) : Residential PRG: 7.3 E03 mg/kg (non-cancer) Hazard Index (HI): (0.002)/(7.3E03) = 0.00000027 Industrial PRG: 2.8 E04 mg/kg (non-cancer) HI: (0.002)/(2.8E04) = 0.000000071
222A1 (sample depth: 30 feet)	TRPH, TPH, Semivolatile Organic Compounds (SVOCs), Pesticides: ND. Metals were not detected at or above the background levels.	
222A1 (sample depth: 40 feet)	TPH-gasoline: 0.446 mg/kg Metals were not detected at or above the background levels.	
222A1 (sample depth: 50 feet)	TRPH, TPH, Semivolatile Organic Compounds (SVOCs), Pesticides: ND. Metals were not detected at or above the background levels. toluene: 4 ug/kg"J" 2-butanone: 2 ug/kg"J"	USEPA Region IX Preliminary Remediation Goals (PRGs) dated November 2000 for toluene : Residential PRG: 5.2 E02 mg/kg (non-cancer) HI: (0.004)/(5.2E02) = 0.00000077 Industrial PRG: 5.2 E02 mg/kg (non-cancer) HI: (0.004)/(5.2E02) = 0.00000077 2-butanone (MEK) : Residential PRG: 7.3 E03 mg/kg (non-cancer) HI: (0.002)/(7.3E03) = 0.00000027 Industrial PRG: 2.8 E04 mg/kg (non-cancer) HI: (0.002)/(2.8E04) = 0.000000071
222A1 (sample depth: 60 feet)	TRPH, Semivolatile Organic Compounds (SVOCs), Pesticides: ND. TPH-gasoline: 0.502 mg/kg Metals were not detected at or above the background levels.	
Hazard Index (based upon maximum concentration of each chemical)		Residential HI: 0.000008 Industrial HI: 0.000008

Table 1 includes a screening risk calculation based upon the maximum concentrations of toluene and 2-butanone (also known as methyl ethyl ketone (MEK)) with USEPA Region IX Preliminary Remediation Goals (PRGs). Toluene and 2-butanone were detected as estimated values (below reporting limits but above instrument detection limits). The hazard indices for toluene and 2-butanone for the residential and industrial scenarios are each significantly less than 1.

TAA 769 was also identified in the Final Environmental Baseline Survey (EBS) Report (JEG 1995) as a satellite accumulation area (SAA). The EBS identifies no further action status for SAA 769 and extracts from the EBS are included in the Appendix.

Visual inspections of TAA 769 were conducted during December 1994 and November 1995 during the preparation of the Final Addendum to the Resource Conservation and Recovery Act Facility Assessment (Bechtel 1996). Hazardous wastes were not observed at TAA 769 during the inspections of 1994 and 1995. The TAA was secure and the concrete pad was described as clean.

Representatives from the Navy conducted visual inspections of the former TAA 769 on 1 and 8 March 2002. On 8 March 2002, the surface of the concrete floor was inspected closely and no stains or significant cracks were observed on the concrete floor or on the curb. The concrete floor and curb appeared to be in excellent condition. Additionally, no stains were observed on the unpaved areas adjacent to former TAA 769. Photographs from the visual inspections of March 2002 are included in the Appendix.

2.2 Historical Property Records and Environmental Program Records

Property records and information from previously published environmental compliance and environmental restoration program projects were acquired and reviewed. Some of the documents are included in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Administrative Record. Extracts from selected documents are included in the Appendix.

According to the plant account records, TAA 769 was constructed in 1983 as a hazardous waste collection facility and the TAA covers an area of approximately 204 square feet.

The following Summary Table presents historical information pertaining to former TAA 769 and nearby buildings or locations of concern.

Table 2. Former TAA 769 Vicinity, MCAS El Toro.

Building or Feature Identifier	Approximate Date of Construction	Comments
TAA 769	1983	Former hazardous waste accumulation area. Approximate dimensions: 12 feet by 17 feet. (204 square feet). TAA 769 was not in use for HW storage during the visual inspection of April 1991. TAA 769 was not in use for HW storage during the visual inspections of December 1994 and November 1995.
Building 369	1954	ServMart An underground storage tank was removed near Building 369 (UST 369) and the site was closed by the Orange County Health Care Agency in 1996.
Building 1601	1945	Public Works Storage (large Quonset hut)
Structure 175	1943	Potable Water Storage Tank (1,000,000-gallon tank)
IRP Site 11		Former Transformer Storage Area adjacent to Building 369 (south of TAA 769). Record of Decision (ROD) was signed in September 1999. Residual risk evaluation is in progress as of March 2002.
IRP Site 24		VOC Source Area. Vadose zone was treated by soil vapor extraction. Development of ROD for groundwater is in development as of March 2002.
SWMU 88		Former Drum and Transformer Storage Area (southwest of TAA 769). Work is in progress as of March 2002.

Regional Water Quality Control Board, Santa Ana Region Correspondence

The RWQCB letter dated 23 June 1989 (Administrative Record ID M60050.001130) addresses several solvent storage areas and drum storage areas, however, the letter does not identify TAA 769. A copy of the letter is included in the Appendix.

A list dated 17 April 1989 (AR Identifier M60050.000776) of areas where hazardous substances were used or wastes were generated does not identify Building or TAA 769. The list is included in the Appendix.

Storm Water Pollution Prevention Plan (SWPPP)

Visual inspections of areas where hazardous materials and hazardous wastes were stored were conducted in 1993 during the development of the SWPPP. The SWPPP recommended that appropriate spill prevention and response documentation be prepared. The SWPPP also includes a spill history table in Section 5, and this table does not identify historic spills near at or near TAA 769. Extracts from the SWPPP are included in the Appendix.

2.3 Ground Water Conditions

Groundwater conditions in the vicinity of TAA 769 were investigated during the remedial investigation of Installation Restoration Program (IRP) Site 24 – the volatile organic compound (VOC) source area. The groundwater beneath TAA 769 is contaminated with VOCs and will be managed under IRP Site 24. An interim Record of Decision (ROD) was signed for IRP Site 24 (vadose zone) in 1997, and a final ROD is in development as of March 2002.

Section 3

Findings and Recommendations

The following findings are based upon information collected during the record search activities and from observations during the visual inspections of the vicinity of Building 769:

- TAA 769, a temporary accumulation area, was identified during Resource Conservation and Recovery Act Facility Assessment (RFA) as Solid Waste Management Unit (SWMU) 222. TAA 769 includes a concrete slab with curb, approximately 12 feet by 17 feet, and a canopy. During the visual inspections of 1991, 1994, and 1995, the TAA was not in use for storage of hazardous waste.
- A sampling visit was conducted in 1992. The results of the inspections and sampling activities indicated that no significant releases had occurred at TAA 769. Total petroleum hydrocarbons as gasoline were detected at a maximum concentration of 0.502 milligrams per kilogram in the 60-foot sample. Toluene was detected at a maximum concentration of 4 micrograms per kilogram with "J" qualifier. 2-butanone was detected at a maximum concentration of 2 micrograms per kilogram with "J" qualifier. Screening risk levels were calculated using the maximum toluene and 2-butanone concentrations, and the cumulative hazard indices for residential and industrial scenarios were significantly less than 1.
- The Navy inspected TAA 769 on 1 and 8 March 2002. No stains were observed on the concrete surfaces of the floor or on the curb of the TAA. No significant cracks were observed in the concrete surfaces of the floor or on the curb. No stains were observed on the unpaved areas surrounding the TAA.

Based upon the absence of visual evidence of a significant release at or near former TAA 769, the results of the screening risk calculations, and the excellent condition of the concrete floor and curb, it is recommended that no further action status be designated for TAA 769 in the next BRAC Business Plan Update

Section 4

References and/or Sources of Information

County of Orange. 1999. Preferred Land Use Plan, Concept B. August. [prepared by the MCAS El Toro Local Redevelopment Authority]

Jacobs Engineering Group (JEG). 1993. Installation Restoration Program, Final Resource Conservation and Recovery Act Facility Assessment Report for Marine Corps Air Station, El Toro, California. [Navy Contract N68711-89-D-9296, Contract Task Order 193]

Jacobs Engineering Group (JEG). 1994. Marine Corps Air Station El Toro, El Toro, California, Installation Restoration Program, Remedial Investigation/Feasibility Study, Final Soil Gas Survey, Technical Memorandum. October. [Navy Contract N68711-89-D-9296, Contract Task Order 145]

Jacobs Engineering Group (JEG). 1995. Marine Corps Air Station El Toro, El Toro, California, Final Environmental Baseline Survey Report. April. [Navy Contract N68711-89-D-9296, Contract Task Order 284]

Naval Facilities Engineering Command, Southwest Division. 1997. Plant Account Record for MCAS El Toro.

NBS/Lowry Engineers - Planners. 1988. Oil and Hazardous Substance Spill Prevention, Control and Countermeasure Field Survey Report, SPCC Plan, and Spill Contingency Plan for the U. S. Marine Corps Air Station, El Toro, California. [Administrative Record ID # M60050.000800]

Roy F. Weston. 1984. Hazardous Materials/Hazardous Waste Engineering Study. [Administrative Record ID # M60050.000899]

Science Applications International Corporation (SAIC). 1994. Final, Marine Corps Air Station, El Toro, Hazardous Material/Hazardous Waste Management Plan {with Appendices C and I, Hazardous Waste Accumulation Areas and Photographs of Accumulation Points and Hazardous Material Storage Areas}. August. [Contract N68711-92-D-4658, Delivery Order Number 4].]

SCS Engineers. 1979. Oil and Hazardous Substance Spill Prevention, Control, and Countermeasure Field Survey Report and SPCC Plan (Administrative Record Identifier M60050.000808).

United States Marine Corps Air Station, El Toro. 2001. Base Realignment and Closure (BRAC) Business Plan.

United States Marine Corps Air Station, El Toro. Circa 1946-1999. Station Property Records, Utility Maps, Construction Drawings, Facility Maps, Aerial Photographs, and Building Guides.

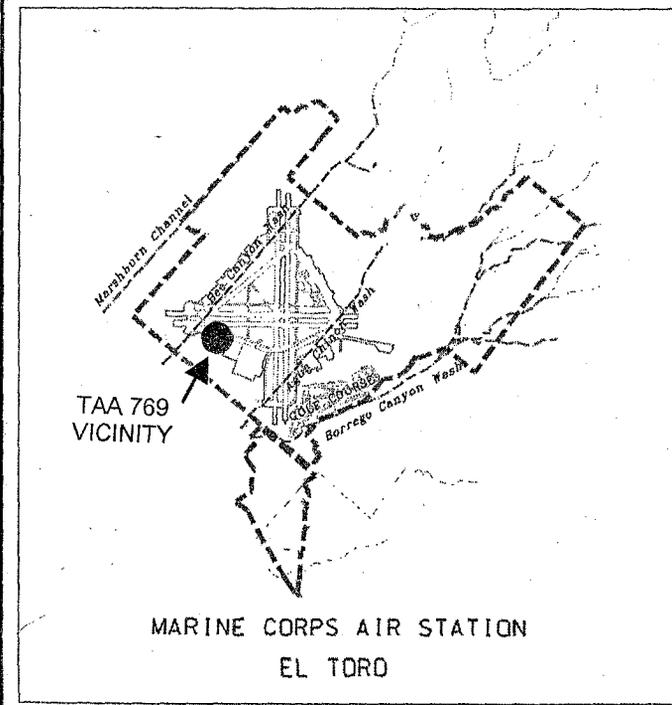
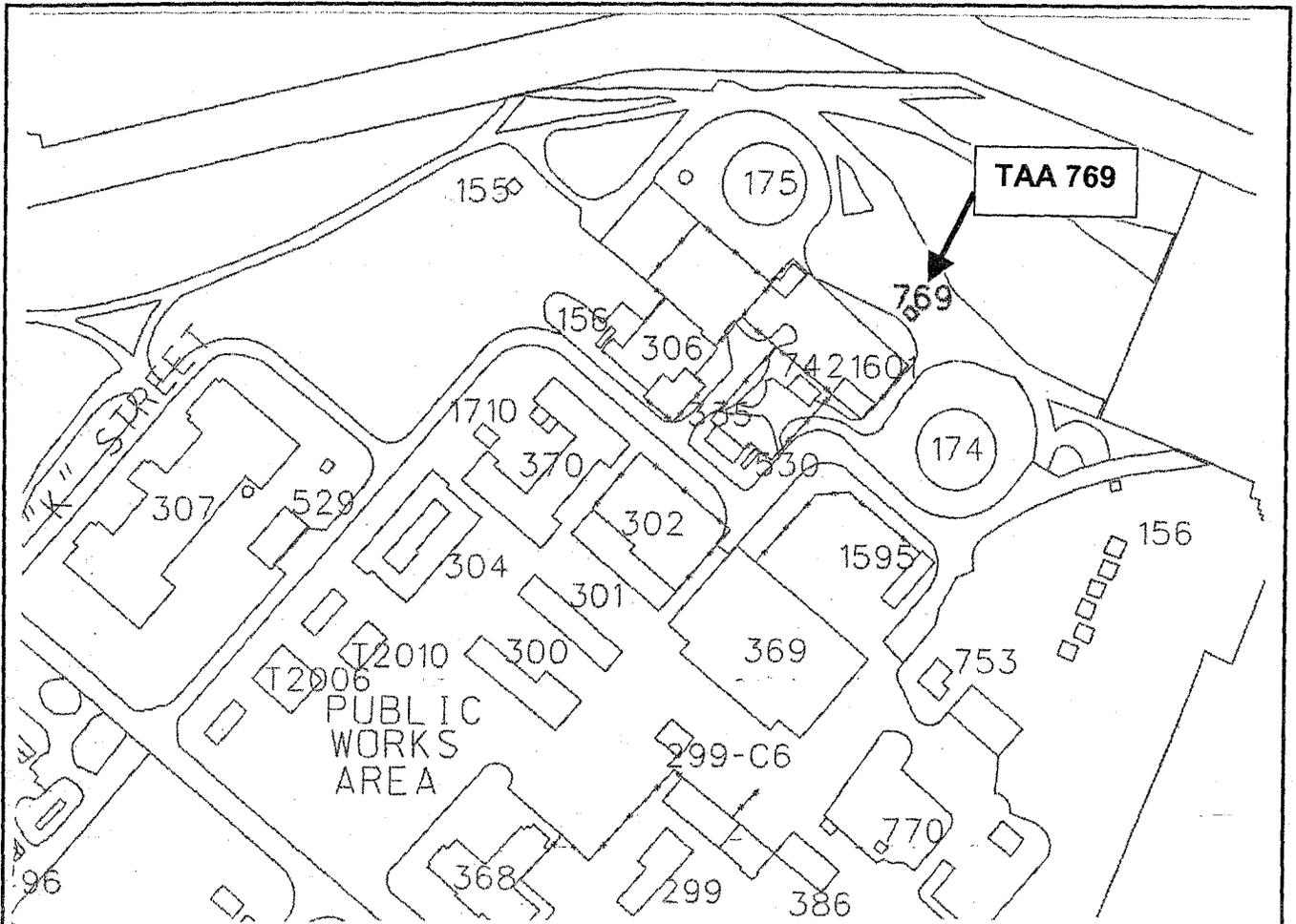
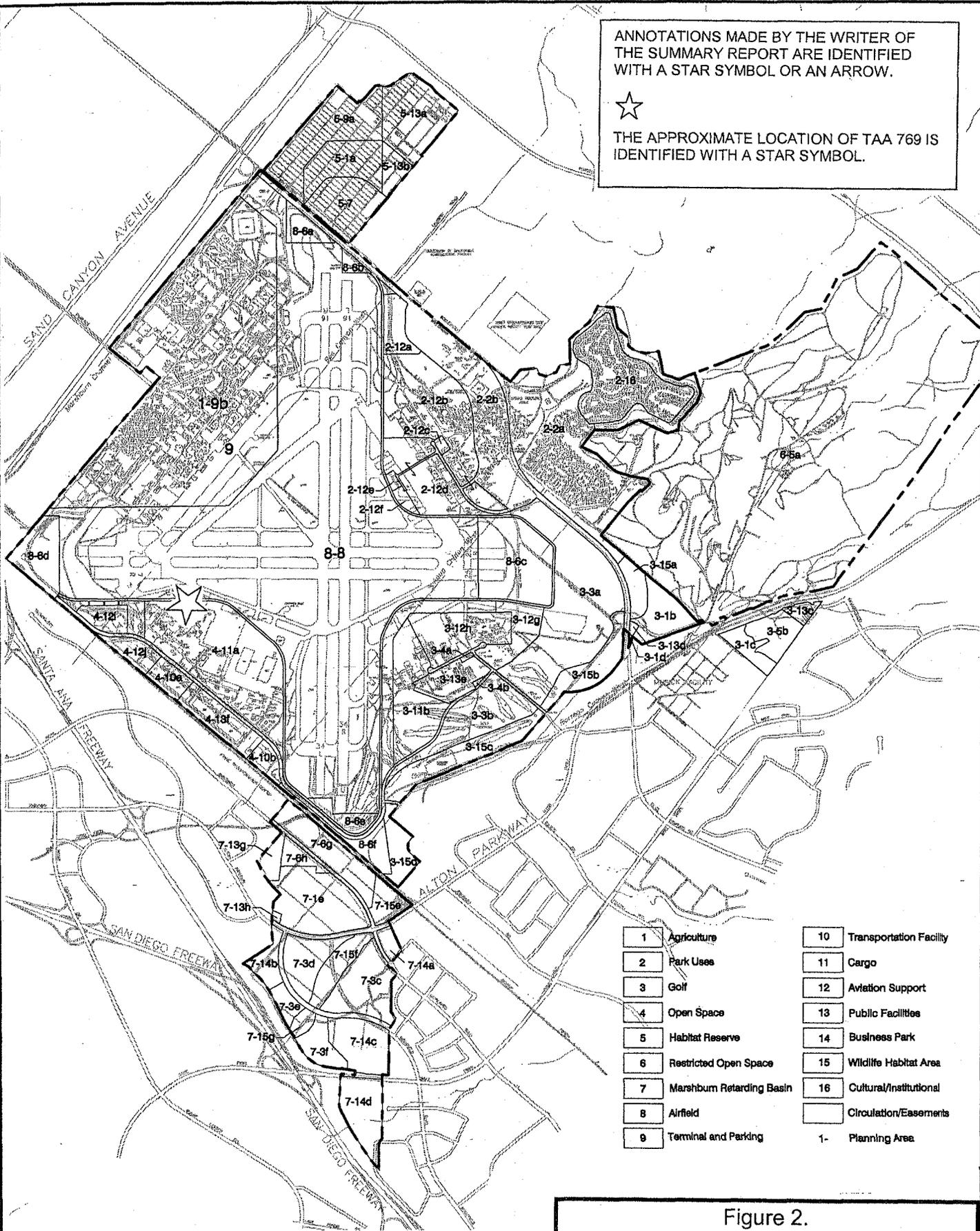


Figure 1.
 TEMPORARY ACCUMULATION AREA (TAA) 769
VICINITY MAP
 MARINE CORPS AIR STATION, EL TORO

ANNOTATIONS MADE BY THE WRITER OF THE SUMMARY REPORT ARE IDENTIFIED WITH A STAR SYMBOL OR AN ARROW.



THE APPROXIMATE LOCATION OF TAA 769 IS IDENTIFIED WITH A STAR SYMBOL.



1	Agriculture	10	Transportation Facility
2	Park Uses	11	Cargo
3	Golf	12	Aviation Support
4	Open Space	13	Public Facilities
5	Habitat Reserve	14	Business Park
6	Restricted Open Space	15	Wildlife Habitat Area
7	Marshburn Retarding Basin	16	Cultural/Institutional
8	Airfield		Circulation/Easements
9	Terminal and Parking	1-	Planning Area

Figure 2.
 TEMPORARY ACCUMULATION AREA (TAA) 769
TENTATIVE REUSE PARCEL LOCATIONS
 MARINE CORPS AIR STATION, EL TORO

Appendix

Site Photographs and Other Documentation

Site Photographs

— Extracts From RFA And EBS Documentation

Extracts from MCAS El Toro Property Records, Building Guides, and
— Historical Facility Maps

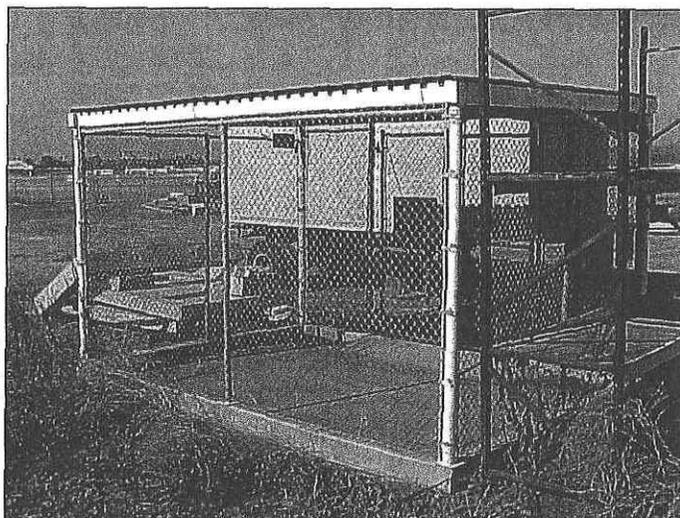
Extracts from historical hazardous waste management documents

**Photograph 1. Former Temporary Accumulation Area (TAA) 769
Solid Waste Management Unit (SWMU) 222**

Structure is Approximately 12 feet wide by 17 feet long according to property records.

Marine Corps Air Station, El Toro

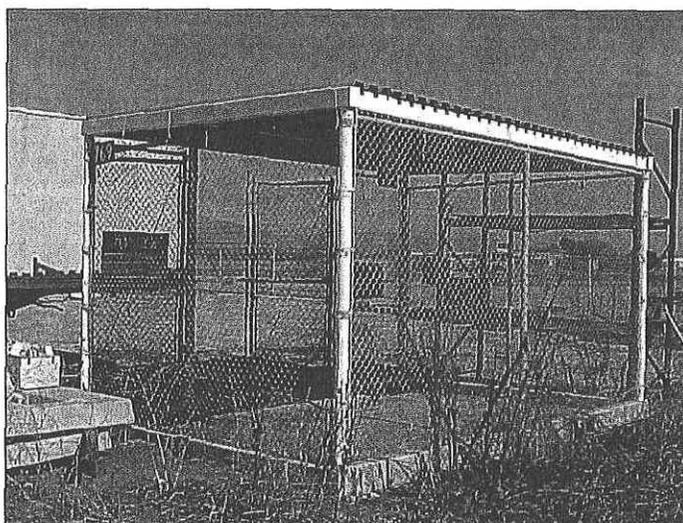
Date of Photograph: 8 March 2002



**Photograph 2. Former Temporary Accumulation Area (TAA) 769
Solid Waste Management Unit (SWMU) 222**

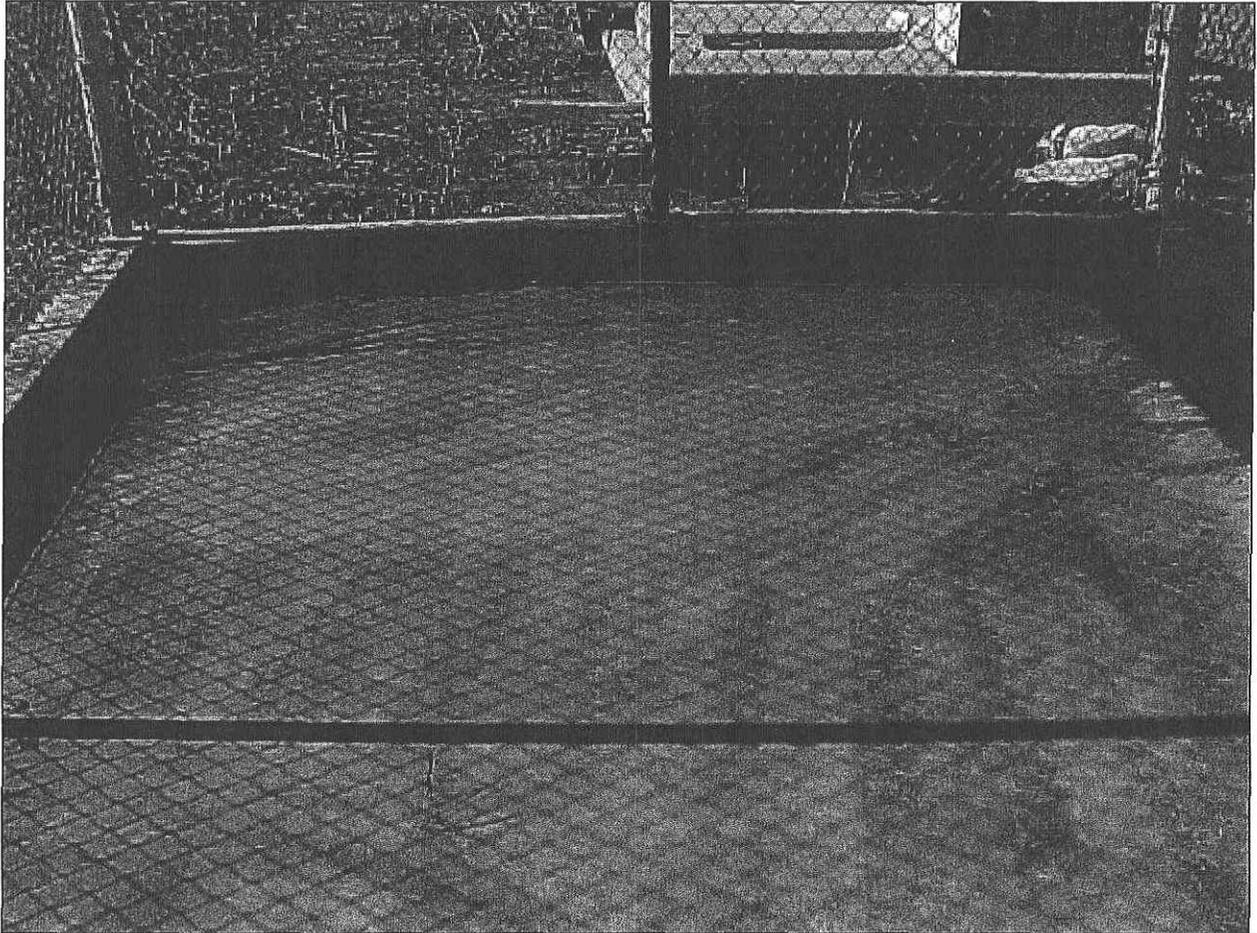
Marine Corps Air Station, El Toro

Date of Photograph: 8 March 2002



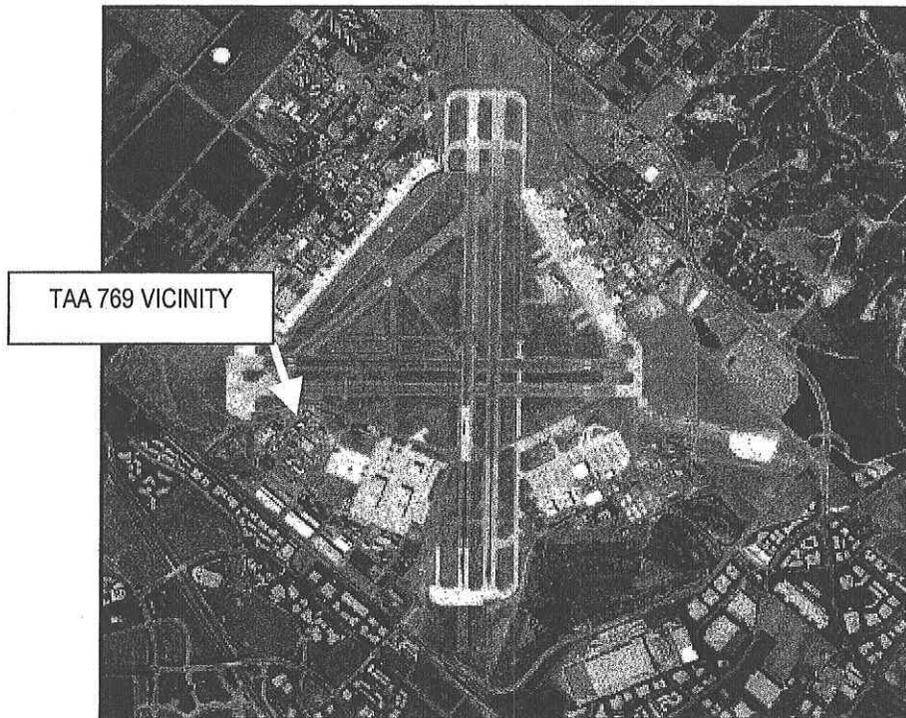
Photograph 3. Former Temporary Accumulation Area (TAA) 769
Solid Waste Management Unit (SWMU) 222
Marine Corps Air Station, El Toro

Date of Photograph: 8 March 2002



Aerial Photograph. Vicinity of TAA 769
Marine Corps Air Station, El Toro

Date of Aerial Photograph: 1994



SOUTHWESTNAVFACENGCOM
CODE 06CC.LMH
SAN DIEGO, CA 92101

Extracts from RFA and EBS Documentation

EXTRACTS

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

ANNOTATIONS MADE BY THE WRITER OF
THE SUMMARY REPORT ARE IDENTIFIED
WITH A STAR SYMBOL OR AN ARROW.

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


Mike Arends, P.E. 7/14/93
CLEAN Project Manager Date
CH2M HILL, Inc.


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

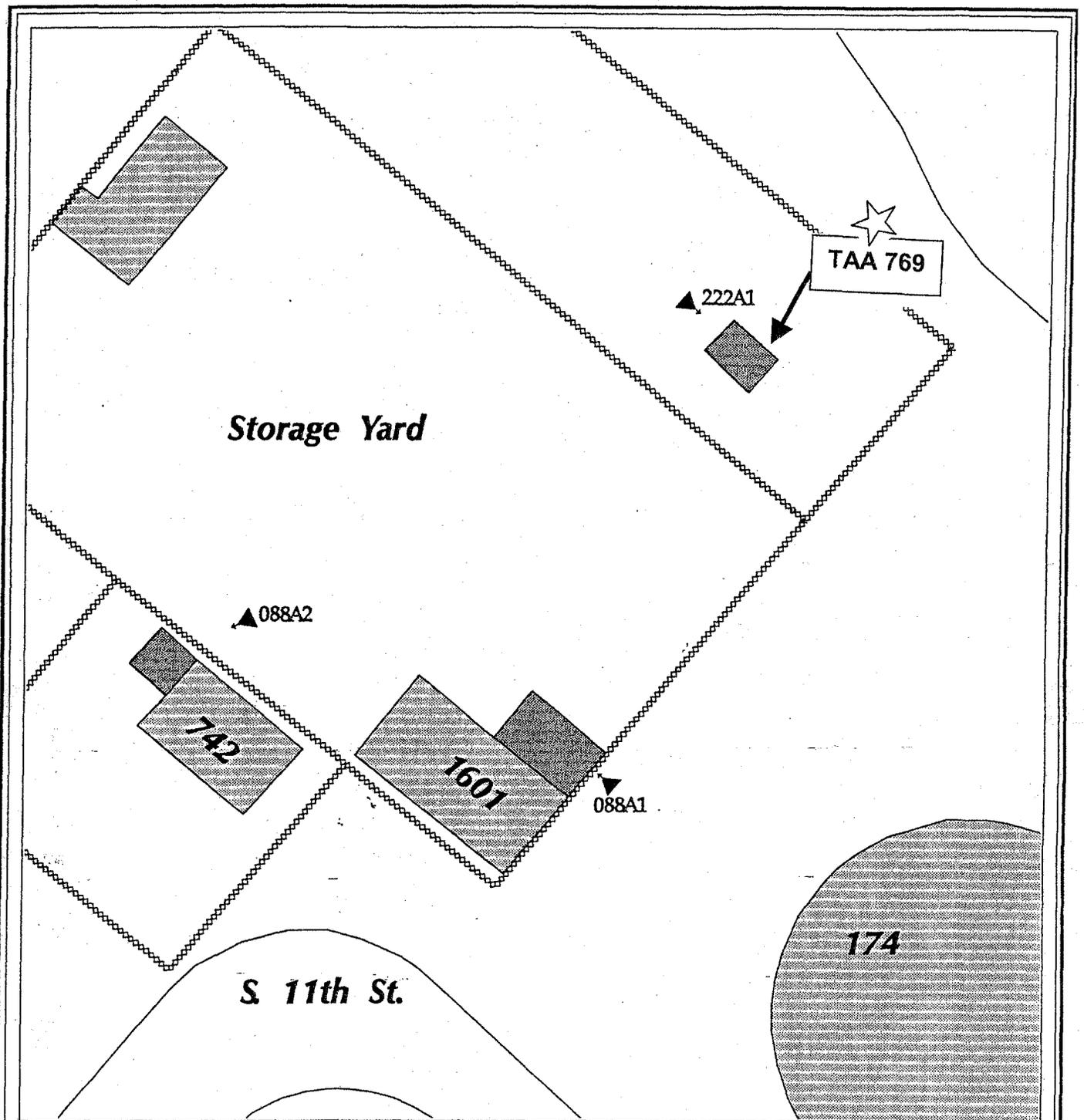


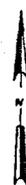
Figure 29 Sample Location Map

Boring Location and Number:

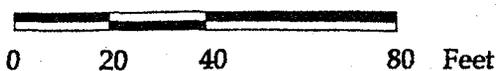
- ⊕ 123H4 5' Deep Boring
- ⊙ 123B4 25' Deep Boring
- ▲ 123A4 60' Long, Angle Boring

Features:

- Building
- Concrete
- Fence
- Railroad



Scale



SWMU/AOC Number and Type:

88 - Drum Storage Area

222 - Hazardous Waste Storage Area

MCAS El Toro
RCRA Facility Assessment

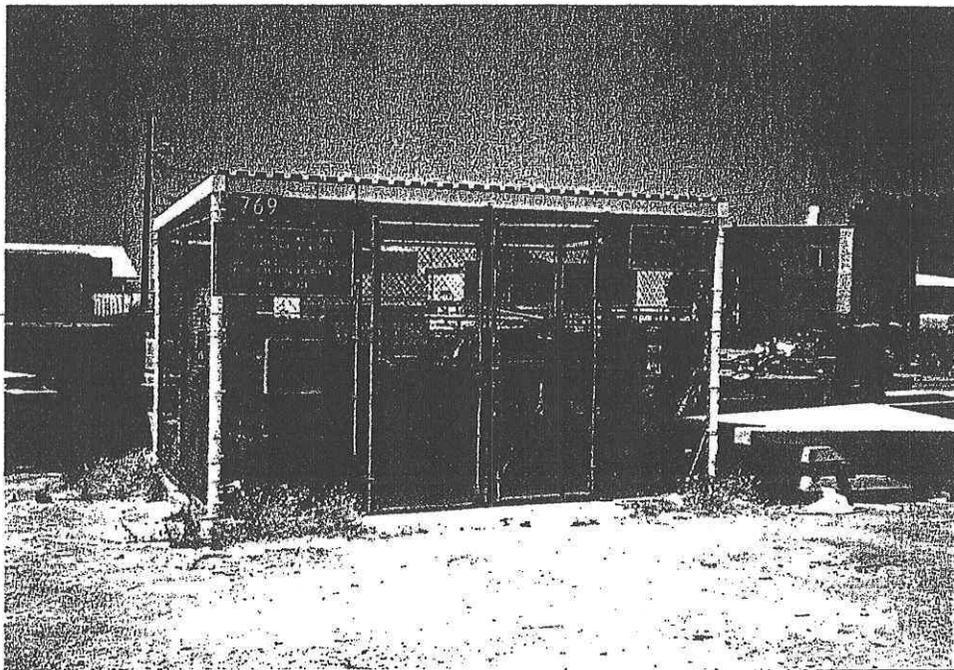
**Evaluation Form
SWMU/Area of Concern
Number 222**

Name: Hazardous Waste Storage Area 769

Location: East of Building 306

Size: 144 sq ft

Date of Site Visit: 23 April 91



Period of Operation

Currently inactive

**Evaluation Form
SWMU/Area of Concern
Number 222**

Unit Characteristics

This Hazardous Waste Storage Area (HWSA) is one of the six DHS-permitted HWSAs at MCAS El Toro. These six HWSAs (SWMU/AOC Numbers 222 through 227) are not planned for future use. Historically, these six HWSAs have had drums stored outside of the storage area. The HWSA is located in a storage yard east of Building 306. The HWSA is built with a concrete storage pad surrounded by a 6-in. concrete berm. The storage area is protected by a chain-link fence and covered by an aluminum roof. At the time of our visit, the HWSA was not being used to store hazardous waste. Various types of electrical equipment (e.g. fans, conduit, copper wire, light fixtures) were being stored inside the storage area. There was also about 4 inches of ponding water covering the storage surface. Because of the ponding water and electrical equipment, the storage surface or berm could not be inspected for cracks or stains.

Waste Characteristics

Unknown

Possible Migration Pathways

Soil

Evidence of Release

None observed

Exposure Potential

Authorized on-Station personnel

Recommendations

Although there was no evidence of a release during the site visit and hazardous waste was not currently stored in the area, the past and present HWSAs at MCAS El Toro are recommended for a sampling visit.

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							
222	Hazardous Waste Storage Area (29)	A1	10	ND	ND	ND	Methylene Chloride-14 B *	ND		ND	NAB	NFA TPH/TFH < 100 ppm VOCs < CRDL SVOCs < CRDL Pest/PCB < CRDL Metals < BGT CRDL - Contract Required Detection Limit BGT - Background Threshold Value	
			20	ND	ND	ND	Methylene Chloride-18 B * Acetone-28 B * 2-Butanone-2 J	ND		ND	NAB		
			30	ND	ND	ND	Methylene Chloride-21 B * Acetone-40 B * 2-Butanone-2 J	ND		ND	NAB		
			40	ND	0.446	ND	Methylene Chloride-16 B * Acetone-21 B *	ND		ND	NAB		
			50	ND	ND	ND	Methylene Chloride-18 B * Acetone-18 B * Toluene-4 J 2-Butanone-2 J	ND		ND	NAB		
			60	ND	0.502	ND	Methylene Chloride-18 B * Acetone-37 B *	ND		ND	NAB		

TABLE 4-1
 COMPREHENSIVE LIST OF SWMUs AND AREAS OF CONCERN
 IDENTIFIED DURING THE PRELIMINARY REVIEW/VISUAL SITE INSPECTION
 MCAS EL TORO RFA

SWMU	SWMU TYPE	SOURCE (1)	LOCATION/BUILDING	COMMENTS	DATE	SIZE	MATERIAL	CONTENTS
211	Oil/Water Separator	f	763	Active	1982	100 gal	Steel	
212	Underground Storage Tank	f	763	Active	1982	185 gal	Steel	Waste Oil
213	Vehicle Wash Rack	a	764					
214	Underground Storage Tank	f	764	Active	1982	185 gal	Steel	
215	Oil/Water Separator	f	764	Active	1982	100 gal	Steel	Waste Oil
216	Vehicle Wash Rack	a	765					
217	Underground Storage Tank	f	765	Active	1982	185 gal	Steel	
218	Oil/Water Separator	f	765	Active	1982	100 gal	Steel	Waste Oil
219	Vehicle Wash Rack	a	766					
220	Oil/Water Separator	f	766	Active	1982	100 gal	Steel	
221	Underground Storage Tank	f	766	Active	1982	185 gal	Steel	Waste Oil
222	Hazardous Waste Storage Area	d	769	Former permitted Haz Waste collection facility				
223	Hazardous Waste Storage Area	d	770	Former permitted Haz Waste collection facility				
224	Hazardous Waste Storage Area	d	771	Former permitted Haz Waste collection facility				
225	Hazardous Waste Storage Area	d	772	Former permitted Haz Waste collection facility				
226	Hazardous Waste Storage Area	d	778	Former permitted Haz Waste collection facility				
227	Hazardous Waste Storage Area	d	779	Former permitted Haz Waste collection facility				
228	Underground Storage Tank	f	779	Active	1988	1,000 gal	Fiberglass-Coated Steel	Fuel Slop
229	Hazardous Waste Storage Area	Active	800					
230	Underground Storage Tank	f	800	Active	1984	1,000 gal	Fiberglass	Waste Oil
231	Underground Storage Tank	f	800	Active	1984	1,000 gal	Fiberglass	Waste Oil
232	Underground Storage Tank	Active	800	Active	1984	1,500 gal	Concrete	
233	Oil/Water Separator	f	817					
234	Hazardous Waste Storage Area	Active	856					
235	Drum Storage Area	c	1519	Possible Duplicate of SWMU/AOC 27		300 sq ft		
236	Drum Storage Area	b	1663	RI/FS Site				
237	Drum Storage Area (2)	b	1700					
238	Drum Storage Area (2)	b	1727					
239	Drum Storage Area (2)	a	1798					
240	Drum Storage Area (2)	k	155					

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

Contract No. N68711-92-D-4670

EXTRACTS

**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: _____

Jacques Lord, CTO Leader

Date: _____

31 May 1996

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 #: 222 Accumulation Area (AA) #: 769
Location (bldg): HWSA/Bldg. 769
Site Contact: Leta Suarez Ext: 2772
Permission for Access? Y N If yes, explain: Locked fence around berm.
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: ~20 ea. 5 gal Outdoor

CONDITION:

~~Stain(s)~~ ~~Odor(s)~~ ~~Crack(s)~~
Placards/Labels: Y N If Yes, list: .
Observations: Clean concrete pad. Roof over pad. The SWMU is bldg 769.
Status: No change, apparently inactive as of 11-10-95.

DIMENSIONS: (ESTIMATED SIZE OR AREA IN FT)

AA/SWMU: 10x10 ft.
"Stain(s)": None
Any Restrictions To Access?: Fence, roof and poles.

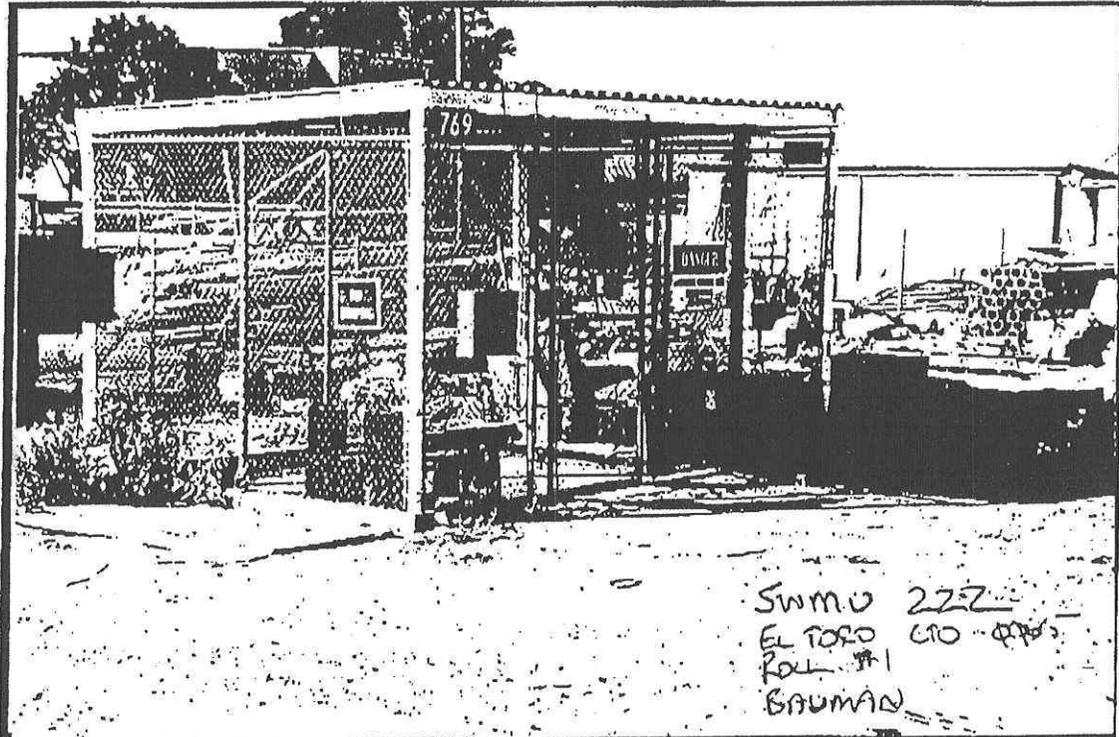
EVALUATION OF REMOVAL/DECONTAMINATION STRATEGY (CIRCLE AS APPROPRIATE)

- 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: 12/2/94/09:20
UPDATED: 11-10-95/11:11
SURVEILLANCE PERFORMED BY: Larry Bauman

PHOTO LOG



SWMU #: 222

PHOTO DATE: 12-14-94

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

01 April 1995

Revision 0

EXTRACTS

Annotations made by the writer of the
Summary Report are identified with a
star symbol or an arrow.

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

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

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

In association with:
International Technology Corporation
CH2M HILL

Table 3-7
Less Than 90-Day Accumulation Area Inventory
MCAS El Toro EBS Report - April 1995

Database Tracking	Building Number	Status	SWMU/AOC	Comments	AREA TYPE
SAA 441	441	Inactive	256	RFA recommended NFA	3
SAA 442	442	Inactive	126	Sampling Visit Not Recommended During PR/VS	2
SAA 445	445	Inactive	127	Sampling Visit Not Recommended During PR/VS	2
SAA 447	447	Inactive	130	RFA recommended NFA	3
SAA 456	456	Inactive	135	Sampling Visit Not Recommended During PR/VS	2
SAA 461	461	Active	138	RFA recommended NFA (1)	2
SAA 462	462	Active	140	Sampling Visit Not Recommended During PR/VS	2
SAA 529	529	Inactive	144	RFA recommended NFA	2
SAA 534	534	Inactive	146	Sampling Visit Not Recommended During PR/VS	2
SAA 602	602	Inactive	147	RFA recommended NFA	3
SAA 605	605	Active	149	RFA recommended NFA	3
SAA 606	606	Active	255	RFA recommended NFA	2
SAA 626	626	Active	158	IRP Site 20 (1)	7
SAA 634	634	Active		Identified in 1994 SPCC Plan	7
SAA 636	636	Inactive	160	RFA recommended NFA	3
SAA 651	651	Active	165	Located within SWMU/AOC 164	3
SAA 658	658	Active	171	Shallow soil borings recommended	7
SAA 671	671	Active	172	RFA recommended NFA	2
SAA 672	672	Inactive	177	Sampling Visit Not Recommended During PR/VS	2
SAA 673	673	Active	186	RFA recommended NFA	2
SAA 693	693	Active		Identified in Station's HW Open Drum Inspection Report	7
SAA 698	698	Active		Identified in 1994 SPCC Plan	7
SAA 744	744	Active		Identified in 1994 SPCC Plan	7
SAA 746	746	Active		Identified in Station's HW Open Drum Inspection Report	7
SAA 747	747	Active		Identified in Station's HW Open Drum Inspection Report	7
SAA 761	761	Inactive		Located at IRP Site 6 (2)	7
SAA 765	765	Inactive	266	Sampling Visit Not Recommended During PR/VS	2
SAA 769	769	Inactive	222	RFA recommended NFA	2
SAA 770	770	Inactive	223	RFA recommended NFA	3
SAA 771	771	Inactive	224	RFA recommended NFA	2
SAA 772	772	Inactive	225	RFA recommended NFA	3
SAA 778	778	Inactive	226	RFA recommended NFA	3
SAA 779	779	Inactive	227	RFA recommended NFA	3
SAA 800	800	Active	229	RFA recommended NFA	2
SAA 831	831	Active		Identified in Station's HW Open Drum Inspection Report	7
SAA 856	856	Active	234	RFA recommended NFA	3
SAA 900	900	Active		Environmental Office accumulation area	7



Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.



THE EBS INDICATES THAT NO FURTHER ACTION IS RECOMMENDED FOR TAA 769 (ALSO KNOWN AS SATELLITE ACCUMULATION AREA (SAA) 769)

**Table 3-7
 Less Than 90-Day Accumulation Area Inventory
 MCAS El Toro EBS Report - April 1995**

Database Tracking	Building Number	Status	SWMU/AOC	Comments	AREA TYPE
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NOTES:

(1) - SWMUs/AOCs that were determined to be located within RI/FS site boundaries were eliminated from RFA sampling visits. These SWMUs/AOCs will be investigated in the IRP.

(2) - Accumulation areas are currently being evaluated for removal and/or decontamination strategies.

* - Indicates RFA recommendation of "no further action" is pending U.S. EPA approval.

PR/VSJ - Preliminary Review/Visual Site Inspection performed as part of the RFA.

IRP - Installation Restoration Program

RFA - RCRA Facility Assessment

NFA - No Further Action

Sources:

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).

SOUTHWESTNAVFACENGCOM
CODE 06CC.LMH
SAN DIEGO, CA 92101

Extracts from MCAS El Toro Property Records, Building Guides, and Historical Facility Maps

773	13210	ANTENNA (MARS)		19830822		0	0	0	0	\$12,385	\$17,153	1983	
774	13210	ANTENNA (MARS)		19830822		0	0	0	0	\$12,384	\$17,152	1983	
775	13210	ANTENNA (MARS)		19830822		0	0	0	0	\$12,384	\$17,152	1983	1983
776	13210	ANTENNA (MARS)		19830822		0	0	0	0	\$12,384	\$17,152	1983	
777	13210	ANTENNA (MARS)		19830822		0	0	0	0	\$12,384	\$17,152	1983	
744	14345	ARMORY	N6247480C9163	19830114	SF	10,789	153	100	15	\$1,131,033	\$1,527,340	1983	1990
748	73075	RESTROOM VAN COMPLEX	N6247480C9165	19830125	SF	560	20	20	11	\$106,358	\$145,594	1983	1984
749	73075	RESTROOMS	N6247480C9165	19830125	SF	560	28	20	11	\$106,358	\$145,594	1983	1984
750	73025	SENTRY BOOTH	N6247480C9165	19830125	SF	60	14	13	9	\$27,273	\$37,337	1983	1984
751	44130	STORAGE SHED	N6247480C9165	19830125	SF	126	14	9	8	\$16,930	\$23,178	1983	1984
	11665	MAG-11 VAN COMPLEX	N6247480C9165	19830125	SY	6,273	0	0	0	\$389,036	\$532,568	1983	1984
753	44130	PEST CONTROL FACILITY	N6247482C2834	19830511	SF	1,118	43	26	13	\$71,631	\$96,392	1984	1990
747	61010	PHOTO MAINT BLDG	N6247480C9329	19830409	SF	1,200	60	20	16	\$346,816	\$476,739	1983	1984
	11665	PHOTO VAN COMPLEX	N6247480C9329	19830409	SY	131	0	0	0	\$2,160	\$2,992	1983	
	11665	APU TEST STAND	N6247480C9167	19830822	SY	87	0	0	0	\$1,200	\$1,662	1983	
745	44112	WAREHOUSE	N6247480C9830	19830114	SF	23,693	201	121	27	\$1,090,822	\$1,501,512	1983	1986
782	74080	GOLF COURSE STRGE BLDG		19840201	SF	1,320	60	22	21	\$32,281	\$44,748	1983	1988
783	74003	EXCHANGE SERVICES/ADMIN	N6247481C8526	19840203	SF	21,720	147	89	33	\$1,703,791	\$2,298,414	1984	
769	83141	HAZ MATLS COL FAC	N6247483C5697	19830901	SF	204	17	12	10	\$6,605	\$9,145	1983	1984
770	83141	HAZ MATLS COL FAC	N6247483C5697	19830901	SF	204	17	12	10	\$6,605	\$9,145	1983	1984
771	83141	HAZ MATLS COL FAC	N6247483C5697	19830901	SF	204	17	12	10	\$6,605	\$9,145	1983	1984
772	83141	HAZ MATLS COL FAC	N6247483C5697	19830901	SF	204	17	12	10	\$6,605	\$9,145	1983	1984
778	83141	HAZ MATLS COL FAC	N6247483C5697	19830901	SF	204	17	12	10	\$6,605	\$9,145	1983	1984
779	83141	HAZ MATLS COL FAC	N6247483C5697	19830901	SF	204	17	12	10	\$6,605	\$9,145	1983	1984
784	61010	DRMO FIELD OFFICE LOT #2	N6247482C2828	19840515	SF	400	40	10	10	\$5,500	\$7,420	1984	
6604	71170	3146 A-F AKINS ST.	N62474818934	19831209	SF	13,320	90	74	26	\$194,550	\$270,114	1983	
6605	71170	3147 A-F AKINS ST.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6606	71170	3150 A-F AKINS ST.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6607	71170	3151 A-F AKINS ST.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6608	71170	3157 A-F AKINS ST.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6609	71170	3158 A-F AKINS ST.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6610	71170	3159 A-F AKINS ST.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6611	71170	3162 A-F AKINS ST.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6612	71170	3172 A-F AKINS ST.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6613	71170	3178 A-F AKINS ST.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6614	71170	3184 A-F AKINS ST.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6615	71170	3186 A-F AKINS ST.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6616	71170	15902 A-F BECKER CRT.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6617	71170	15905 A-F BECKER CRT.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6618	71170	15918 A-F BECKER CRT.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6619	71170	15921 A-F BECKER CRT.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6620	71170	15924 A-F BECKER CRT.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6621	71170	15205 A-F GALLION CRT.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6622	71170	15214 A-D GALLION CRT.	N6247481C8934	19831209	SF	6,688	74	45	26	\$132,110	\$182,972	1983	
6623	71170	15225 A-D GALLION CRT.	N6247481C8934	19831209	SF	6,688	74	45	26	\$132,110	\$182,972	1983	
6624	71170	15201 A-F JAMES CRT.	N6247481C8934	19841209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6625	71170	15210 A-F JAMES CRT.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6626	71170	15221 A-D JAMES CRT.	N6247481C8934	19831209	SF	6,688	74	45	26	\$132,110	\$182,972	1983	
6627	71170	15904 A-F POLIQUIN CRT.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6628	71170	15912 A-F POLIQUIN CRT.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6629	71170	15913 A-F POLIQUIN CRT.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6630	71170	15920 A-F POLIQUIN CRT.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	
6631	71170	15207 A-F ROGERS CRT.	N6247481C8934	19831209	SF	13,320	90	74	26	\$200,861	\$278,855	1983	



ANNOTATIONS MADE BY THE WRITER OF THE SUMMARY REPORT ARE IDENTIFIED WITH A STAR OR AN ARROW.

★ PLANT ACCOUNT RECORD (NOVEMBER 1997) IDENTIFIES STRUCTURE 769 AS A HAZARDOUS MATERIALS COLLECTION FACILITY.

MCAS EL TORO BUILDING GUIDE

BLDG NO.	MAP GRID	DESCRIPTION	TENANT	CAT CODE NUMB	COST ACCOUNT CODE	U S E
748	M9	Public Toilet/Van Complex	H&MS-11	73075	71JO	
749	M9	Public Toilet/Van Complex	H&MS-11	73075	71JO	
750	M9	Sentry House/Van Complex	H&MS-11	73025	71JO	
751	M10	Hazardous/Flam Storage	H&MS-11	44130	7140	
752	N10	Fuel Farm #5 Office	Supply	61010	7160	
753	T7	Pest Control Bldg	FMD	44130	7140	
754	Q14	Check Valve	FMD	84209		
755	R12	LOX/NOX Shelter	Supply	14187	71LO	
756	R12	LOX/NOX Shelter	H&MS-11	14187	71LO	
757	M2	MARS Facility	CEO	13160	71KO	
758	U7	Vehicle Washrack Utility Bldg	FMD	89009	76EO	
759	T7	Vehicle Washrack Utility Bldg	FSSG	89009	76EO	
760	U8	Vehicle Washrack Utility Bldg	FSSG	89009	76EO	
761	R11	ACFT Washrack Utility Bldg	MAG-11	89009	76EO	
762	P13	Vehicle Washrack Utility Bldg	WTS-37	89009	76EO	
763	N10	ACFT Washrack Utility Bldg	MAG-11	89009	76EO	
764	M9	Vehicle Washrack Utility Bldg	H&MS-11	89009	76EO	
765	S5	Vehicle Washrack Utility Bldg	MWSS-371	89009	76EO	
766	R5	Vehicle Washrack Utility Bldg	MWCS-38	89009	76EO	
767	M7	Billboard	MAG-11	69010	75DO	
769	T6	Hazardous Waste Coll Facility	FMD	44135	7140	
770	T7	Hazardous Waste Coll Facility	FMD	44135	7140	
771	S4	Hazardous Waste Coll Facility	MWSG-37	44135	7140	
772	P13	Hazardous Waste Coll Facility	MAG-11	44135	7140	
773	M2	Antenna-MARS	CEO	13210	7530	
774	M2	Antenna-MARS	CEO	13210	7530	
775	N2	Antenna-MARS	CEO	13210	7530	
776	V1	Antenna-MARS	CEO	13210	7530	
777	M2	Antenna-MARS	CEO	13210	7530	
778	U9	Hazardous Waste Coll Facility	MAG-46	44135	7140	
779	N10	Hazardous Waste Coll Facility	MAG-11	44135	7140	
780	G14	Ready Serv Locker	EOD	42135	71NO	
781	G15	Ready Serv Locker	Sta Ordn	42135	71NO	
782	Q13	Golf Course Maint Bldg	MWR	74080	71JO	
783	P2	Exchange Admin/Serv Outlets	MWR	74009	71JO	
784	Q13	DRMO Field Office Lot #2	DRMO	61010	7160	
785	Q11	Aviation Maint Bldg	VMFAT-101	21106	71UO	
786	P12	Aviation Armament	H&MS-11	21154	71UO	
787	P12	NBC Defense Training		17110	7110	
789	U6	Sewage Monitoring Station	FMD	83229	7760	
790	S13	Golf Cart Bldg	MWR	74080	71JO	
791	T3	Officers Club	MWR	74060	71JO	
792	K7	Stables Barn	MWR	74077	71JO	
793	O3	Mc Donalds	MWR	74004	71JO	
794	Q4	EOD Team Bldg	EOD	14320	71MO	
795	E14	EOD Range Bldg	EOD	14820	75WO	
796	M10	Substation/Chiller Bldg	FMD	82610	76GO	
797	R5	AVGAS Fueling Station	Supply	12120	7550	

1994 BUILDING GUIDE

e No. 13

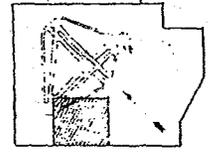
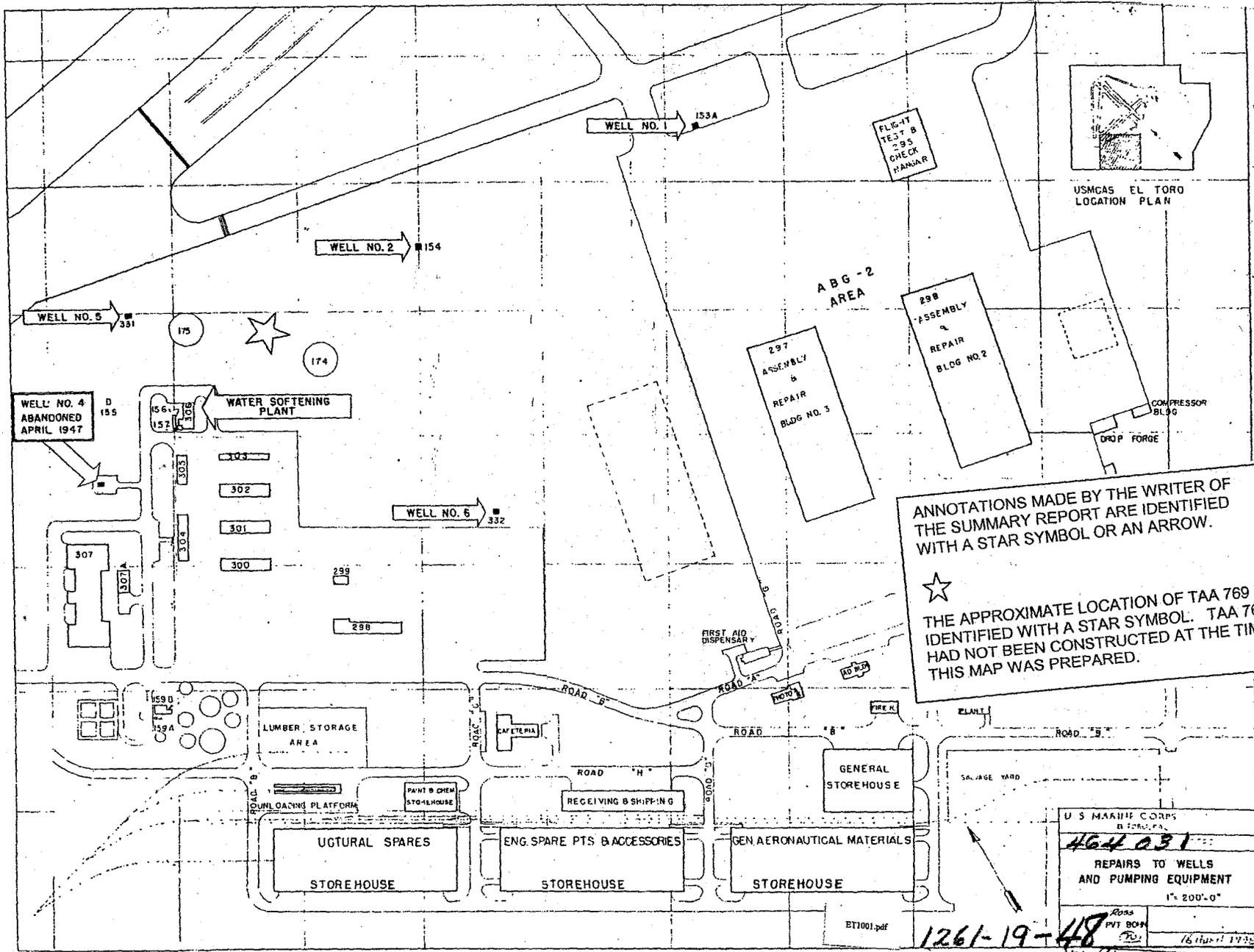
/14/94

MCAS EL TORO BUILDING GUIDE

FAC NO.	MAP GRID	DESCRIPTION	TENANT	CAT CODE NUMB	COST ACCT CODE	SIZE
745	M10	Office Space	NAESU	61072	EBFO	23396 SF
746	M10	Flight Simulator	Training	17135	EBAO	22516 SF
747	M9	Contract Refueler Facility	Supply	61010	EBFO	1200 SF
748	M9	Public Toilet/Van Complex	MCC-3	73075	EBLO	560 SF
749	M9	Public Toilet/Van Complex	MALS-11	73075	EBLO	560 SF
750	M9	Sentry Booth/Van Complex	MALS-11	73025	EBLO	60 SF
751	M10	Hazardous/Flam Storage	MALS-11	44130	EBDO	126 SF
752	N10	Fuel Farm #5 Office	Supply	61010	EBFO	348 SF
753	T7	Pest Control Bldg	Installation	44130	EBDO	1118 SF
755	R12	LOX/NOX Shelter	Supply	14187	EBNO	150 SF
756	R12	LOX/NOX Shelter	MALS-11	14187	EBNO	150 SF
757	M2	MARS Facility	CEO	13160	EBMO	1716 SF
758	U7	Vehicle Washrack Util Bldg	MWSG-37	89009	EAPF	228 SF
759	T7	Vehicle Washrack Util Bldg	CSSD-14	89009	EAPF	228 SF
760	U8	Vehicle Washrack Util Bldg	CSSD-14	89009	EAPF	228 SF
761	R11	ACFT Washrack Utility Bldg	MAG-11	89009	EAPF	684 SF
762	P13	Vehicle Washrack Util Bldg	MWSG-37	89009	EAPF	228 SF
763	N10	ACFT Washrack Utility Bldg	MAG-11	89009	EAPF	684 SF
764	M9	Vehicle Washrack Util Bldg	MALS-11	89009	EAPF	228 SF
765	S5	Vehicle Washrack Util Bldg	MWSS-371	89009	EAPF	228 SF
766	R5	Vehicle Washrack Util Bldg	Aero Club	89009	EAPF	228 SF
767	M7	Billboard	MAG-11	69010	ECLD	1 EA
769	T6	HW Collection Facility	Environment	83142	EAQD	204 SF
770	T7	HW Collection Facility	Environment	83142	EAQD	204 SF
771	S4	HW Collection Facility	MWSG-37	83142	EAQD	204 SF
772	P13	HW Collection Facility	Environment	83142	EAQD	204 SF
773	M2	Antenna-MARS	CEO	13210	ECCD	1 EA
774	M2	Antenna-MARS	CEO	13210	ECCD	1 EA
775	N2	Antenna-MARS	CEO	13210	ECCD	1 EA
776	M2	Antenna-MARS	CEQ	13210	ECCD	1 EA
777	M2	Antenna-MARS	CEO	13210	ECCD	1 EA
778	U9	HW Collection Facility	Environment	83142	EAQD	204 SF
779	N10	HW Collection Facility	Environment	83142	EAQD	204 SF
780	G14	Ready Serv Magazine	EOD	42135	EBQD	128 SF
781	G15	Ready Serv Magazine	Sta Ordn	42135	EBQD	512 SF
782	Q13	Golf Course Maint Bldg	MWR-Rec	74080	EBLD	1320 SF
783	P2	Exchange Admin	MWR-Retail	74003	EBLD	10683 SF
783	P2	MCX Service Outlets	MWR-Retail	74009	EBLD	11037 SF
784	Q13	DRMO Field Office Lot #2	DRMO	61010	EBFO	400 SF
785	Q11	Aviation Maint Bldg	VMFAT-101	21106	EBVD	5600 SF
786	P12	Aviation Armament	MALS-11	21154	EBVD	3000 SF
787	P12	NBC Defense Training	MWHS-3	17110	EBAO	4000 SF
788	L2	Recreation Pavilion	MWR-Rec	74078	EBLD	1500 SF
789	U6	Sewage Monitoring Station	Installation	83229	EHFO	36 SF
790	S13	Golf Cart Bldg	MWR-Rec	74080	EBLD	3471 SF
791	T3	Officers Club	MWR-Hosp	74060	EBLD	22500 SF
792	K7	Stables Barn	MWR-Rec	74079	EBLD	2880 SF
793	O3	Mc Donald's	MWR-Hosp	74004	EBLD	3754 SF

El Toro Building Guide

BLDG	GRI	DESCRIPTION	TENANT	CATCO	CAC	SIZE
751	M10	Hazardous/Flam Storage	MALS-11	44130	EBDO	126 SF
752	N10	Fuel Farm #5 Office	Supply	61010	EBFO	348 SF
753	T7	Pest Control Bldg	Installation	44130	EBDO	1118 SF
755	R12	LOX/NOX Shelter	Supply	14187	EBNO	150 SF
756	R12	LOX/NOX Shelter	MALS-11	14187	EBNO	150 SF
757	M2	Telephone Office	Sta/G-6			1716 SF
758	U7	Vehicle Washrack Util Bldg	MWSG-37	89009	EAPO	228 SF
759	T7	Vehicle Washrack Util Bldg	CSSD-14	89009	EAPO	228 SF
760	U8	Vehicle Washrack Util Bldg	CSSD-14	89009	EAPO	228 SF
761	R11	ACFT Washrack Utility Bldg	MAG-11	89009	EAPO	684 SF
762	P13	Vehicle Washrack Util Bldg	MWSG-37	89009	EAPO	228 SF
763	N10	ACFT Washrack Utility Bldg	MAG-11	89009	EAPO	684 SF
764	M9	Vehicle Washrack Util Bldg	MALS-11	89009	EAPO	228 SF
765	S5	Vehicle Washrack Util Bldg	MWSS-371	89009	EAPO	228 SF
766	R5	Vehicle Washrack Util Bldg	Aero Club	89009	EAPO	228 SF
767	M7	Billboard	MAG-11	69010	ECLO	1 EA
→ 769	T6	HW Collection Facility	Environment	83141	EAQO	204 SF
770	T7	HW Collection Facility	Environment	83141	EAQO	204 SF
771	S4	HW Collection Facility	MWSG-37	83141	EAQO	204 SF
772	P13	HW Collection Facility	Environment	83141	EAQO	204 SF
773	M2	Antenna-MARS	CEO	13210	ECCO	1 EA
774	M2	Antenna-MARS	CEO	13210	ECCO	1 EA
775	N2	Antenna-MARS	CEO	13210	ECCO	1 EA
776	M2	Antenna-MARS	CEO	13210	ECCO	1 EA
777	M2	Antenna-MARS	CEO	13210	ECCO	1 EA
778	U9	HW Collection Facility	Environment	83141	EAQO	204 SF
779	N10	HW Collection Facility	Environment	83141	EAQO	204 SF
780	G14	Ready Serv Magazine	EOD	42135	EBQO	128 SF
781	G15	Ready Serv Magazine	Sta Ordn	42135	EBQO	512 SF
782	Q13	Golf Course Maint Bldg	MWR/Rec	74080	EBLO	1320 SF
783	P2	Exchange Admin	MWR/Ret	74003	EBLO	10683
783	P2	MCX Service Outlets	MWR/Ret	74009	EBLO	11037
784	Q13	DRMO Field Office Lot #2	DRMO	61010	EBFO	400 SF
785	Q11	Aviation Maint Bldg	VMFAT-101	21106	EBVO	5600 SF
786	P12	Aviation Armament	MALS-11	21154	EBVO	3000 SF
787	P12	NBC Defense Training	MWHS-3	17110	EBAO	4000 SF
788	L2	Recreation Pavilion	MWR/Rec	74078	EBLO	1500 SF
789	U6	Sewage Monitoring Station	Installation	83229	EHFO	36 SF
790	S13	Golf Cart Bldg	MWR/Rec	74080	EBLO	3471 SF
791	T3	Officers Club	MWR/Hosp	74060	EBLO	22500
792	K7	Stables Barn	MWR/Rec	74079	EBLO	2880 SF
793	O3	Mc Donald's	MWR/Hosp	74004	EBLO	3754 SF
794	Q4	EOD Team Bldg	EOD	14320	EBPO	3600 SF
795	E14	EOD Range Bldg	EOD	14320	EBPO	340 SF
796	M10	Substation/Chiller Bldg	Installation	82610	EBPO	1518 SF
797	R5	AVGAS Fueling Station	DLA	12120	ECDO	800 GM



USMCAS EL TORO
LOCATION PLAN

FLG-11
TEST &
295
CHECK
MANAR

ABG-2
AREA

297
ASSEMBLY
&
REPAIR
BLDG NO. 3

298
ASSEMBLY
&
REPAIR
BLDG NO. 2

COMPRESSOR
BLDG
DRO P FORGE

WELL NO. 4
ABANDONED
APRIL 1947

WATER SOFTENING
PLANT

WELL NO. 6

ANNOTATIONS MADE BY THE WRITER OF
THE SUMMARY REPORT ARE IDENTIFIED
WITH A STAR SYMBOL OR AN ARROW.

★
THE APPROXIMATE LOCATION OF TAA 769 IS
IDENTIFIED WITH A STAR SYMBOL. TAA 769
HAD NOT BEEN CONSTRUCTED AT THE TIME
THIS MAP WAS PREPARED.

LUMBER STORAGE
AREA

STRUCTURAL SPARES
STOREHOUSE

ENG SPARE PTS & ACCESSORIES
STOREHOUSE

GEN AERONAUTICAL MATERIALS
STOREHOUSE

GENERAL
STOREHOUSE

U S MARINE CORPS EL TORO, PAC	
464 031	
REPAIRS TO WELLS AND PUMPING EQUIPMENT	
1" = 200'-0"	
ROSS PVT 5054	16 MAR 1948
End on USMCAS El Toro, 793	
Serial 117-12, dated	

1261-19-48

APPROXIMATE MAP DATE: 1948

MARINE CORPS AIR STATION EL TORO
EL TORO, CALIFORNIA
INSTALLATION RESTORATION PROGRAM
REMEDIAL INVESTIGATION/FEASIBILITY STUDY
FINAL SOIL GAS SURVEY
TECHNICAL MEMORANDUM
SITES 24 AND 25

Revision 0

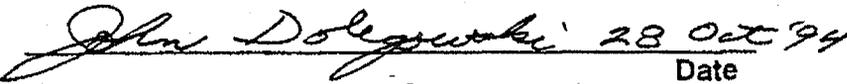
EXTRACTS

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

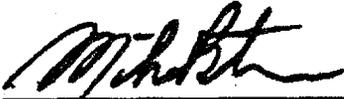
THROUGH:
CONTRACT #N66711-89-D-9296
CTO: #145
DOCUMENT CONTROL NO:
CLE-C01-01F145-S2-0004

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

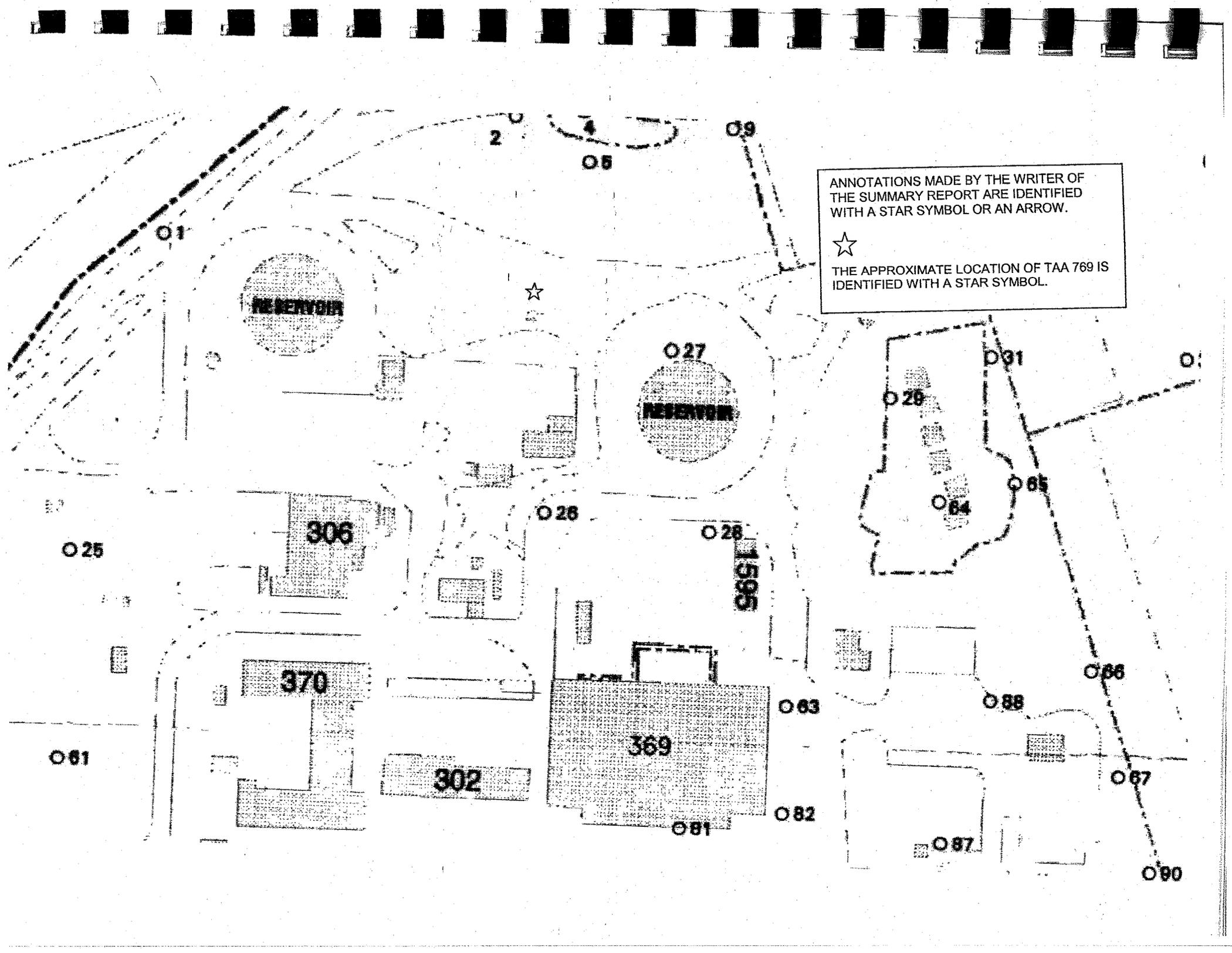
In association with:
International Technology Corporation
CH2M HILL


John Dolegowski
CLEAN Project Manager
CH2M HILL, Inc.

28 Oct 94
Date


Michael Bitner, R.G.
CLEAN Technical Reviewer
CH2M HILL, Inc.

27 Oct 94
Date



RESERVOIR



☆

RESERVOIR

306

370

302

369

1595

O25

O61

O26

O28

O29

O31

O64

O65

O66

O88

O67

O87

O63

O82

O90

O81

O9

O5

O1

2

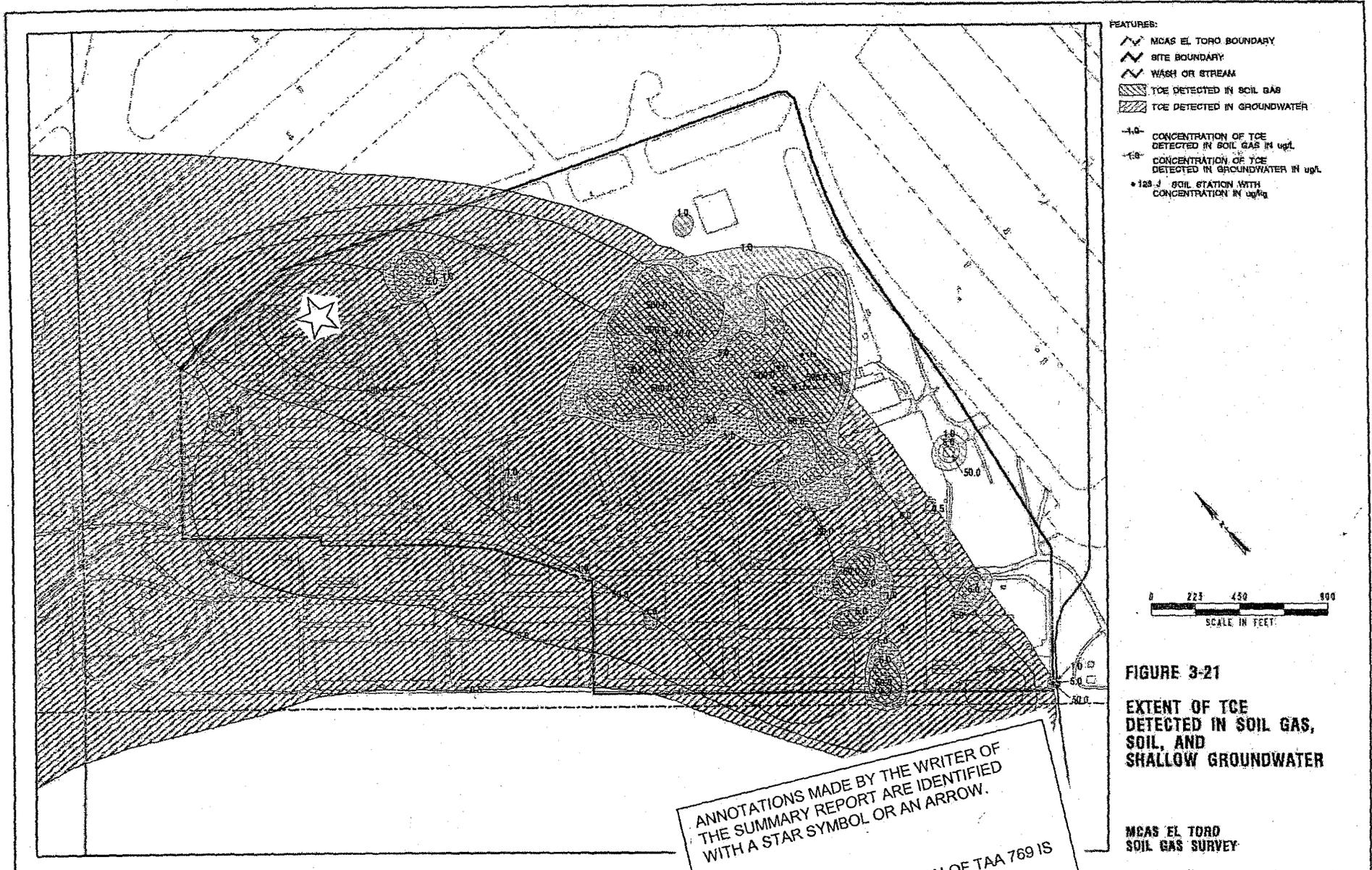
4

27

28

29

O1



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SOUTHWESTNAVFACENCOM
CODE 08CC.LMH
SAN DIEGO, CA 92101

Extracts from historical hazardous waste management documents

Final

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

August 1994

EXTRACTS

ANNOTATIONS MADE BY THE WRITER OF
THE SUMMARY REPORT ARE IDENTIFIED
WITH A STAR SYMBOL OR AN ARROW.



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

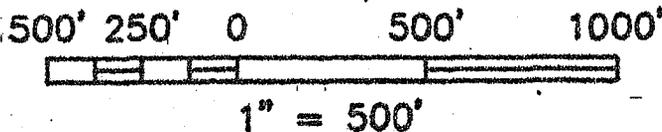
TABLE 6-1
 GENERATORS OF HAZARDOUS WASTE
 AT MCAS EL TORO

Aero Club
 Armory
 Auto Hobby Shop
 Combat Service Support Detachment 14 (CSSD 14)
 Facilities Maintenance Department Shops, Bldg. 1601 (FMD)
 Headquarters & Headquarters Squadron 38 (H&HS 38)
 Marine Aerial Refueler/Transport Squadron 352 (VMGR 352)
 Marine Air Control Group 38 (MACG 38)
 Marine Aircraft Group 46 (MAG 46)
 Marine Aircraft Group 46 (MAG 46), Fixed Wing
 Marine Aircraft Group 46 (MAG 46), Helo Mals 11
 Marine All Weather Fighter Attack Squadron 121 (VFMA (AW) 121)
 Marine All Weather Fighter Attack Squadron 225 (VFMA (AW) 225)
 Marine All Weather Fighter Attack Squadron 242 (VFMA (AW) 242)
 Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames
 Marine Aviation Logistics Squadron 11 (MALS 11), Avionics
 Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics
 Marine Aviation Logistics Squadron 11 (MALS 11), GSE North
 Marine Aviation Logistics Squadron 11 (MALS 11), Ordnance
 Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant
 Marine Aviation Logistics Squadron 11 (MALS 11), Supply
 Marine Fighter Attack Squadron 314 (VFMA 314)
 Marine Fighter Attack Squadron 323 (VFMA 323)
 Marine Fighter Attack Training Squadron 101 (VFMA 101)
 Marine Wing Headquarters Squadron 3 (MWHS 3)
 Marine Wing Support Squadron 373 (MWSS 373), Headquarters
 Marine Wing Support Squadron 373 (MWSS 373), Refuelers
 Marine Wing Support Squadron Utilities (MWSS Utilities)
 Maytag Aircraft Corporation
 MOD Team
 Morale, Welfare & Recreation Department (MWR), Auto #1
 Morale, Welfare & Recreation Department (MWR), Golf Course
 Motor Pool (G-4) Bldg. 770
 Photolab
 Squadron Operations & Maintenance Squadron (SOMS), Headquarters
 Squadron Operations & Maintenance Squadron (SOMS), Maintenance
 Squadron Operations & Maintenance Squadron (SOMS), Recovery
 Supply

MCAS El Toro
Santa Ana, California

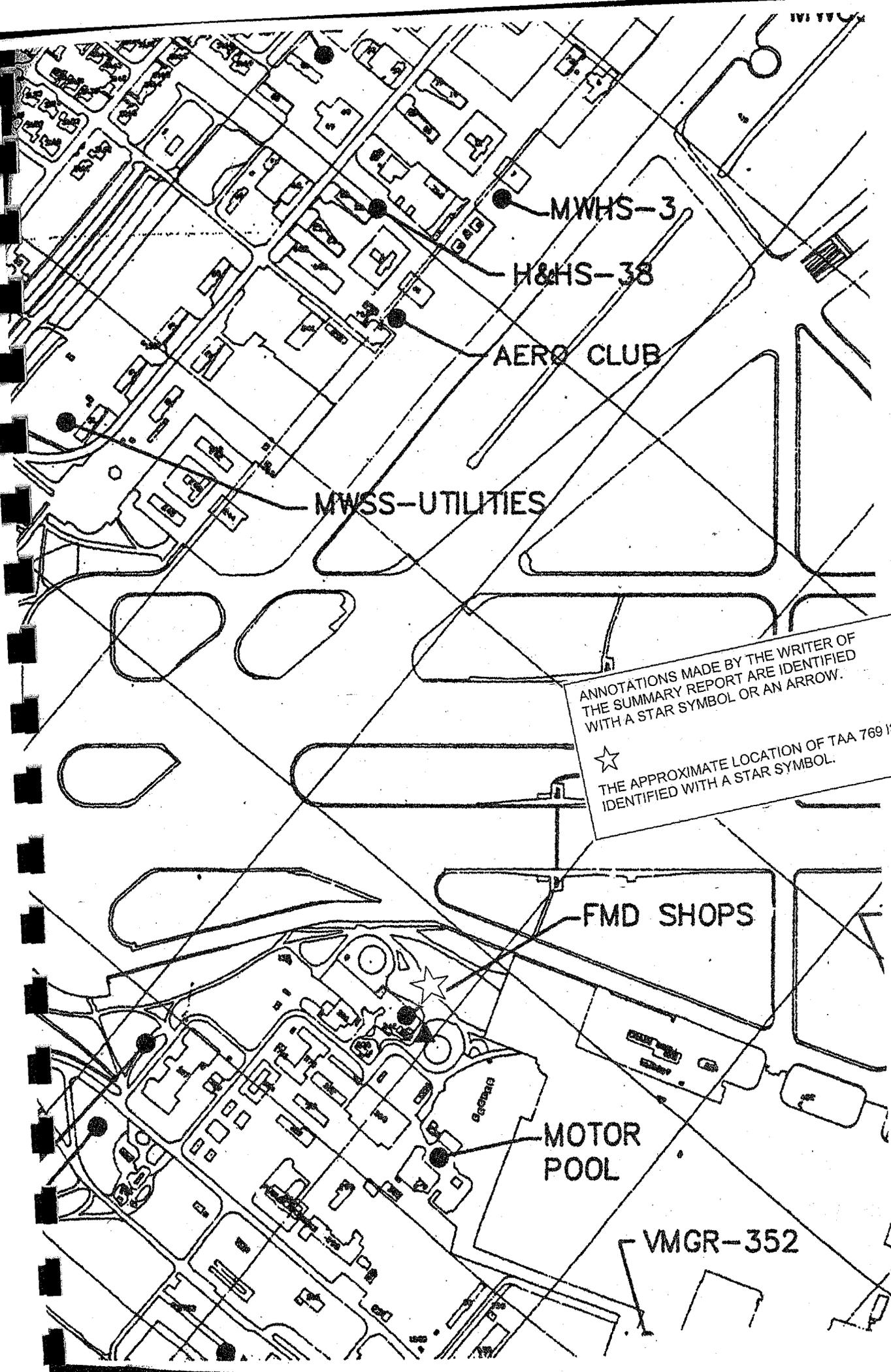
HAZARDOUS WASTE ACCUMULATION POINTS AND HAZARDOUS MATERIAL STORAGE LOCATIONS

NOVEMBER 5, 1993



 **Science Applications
International Corporation**
● An Employee-Owned Company

Hazardous Waste Accumulation Point Summary		
Unit	Bldg #	Coordinates
Aero Club	10	R5
Armory	744	O2
Auto Hobby Shop	626	M3
CSSD-14	388	U8
Environmental Above Ground Storage Tank	n/a	U6
FMD Shops, Bldg 1601	370	T6
Fuels Division	314	U9
H&HS 38	22	R4
MACG-38 MWCS 38	HGR 5	R4
MAG-46	51	O4
MAG-46 Fixed Wing	296	T8
MAG-46 Helo Mals-46	295	S8
MALS-11 Air Frames	130	M9
MALS-11 Avionics	656	Q12
MALS-11 Cryogenics (ALSS)	636	R12
MALS-11 GSE North	392	M9
MALS-11 Ordnance	673	P12
MALS-11 Power Plant	658	N10
MALS-11 Power Plant	634	N9
MALS-11 Supply	441	P12
Maytag Aircraft Corp	779	N10
MOD Team	115	N9
Motor Pool (G-4), Bldg 770	396	T7
MWHS-3	7	O5
MWR Auto #1	651	O2
MWR Golf Course	390	P13
MWSS-Utilities	31	S4
MWSS-373 HQ	800	U10
MWSS-373 Refuelers	671	U8
SOMS HQ	288	N5
SOMS Maintenance	HGR 2	O4
SOMS Recovery		
Supply	320	U7
VMFA (AW)-121	462	R11
VMFA (AW) 225	698	N8
VMFA (AW)-242	461	R11
VMFAT-101	371	Q10
VMFA-323	606	N8
VMGR-352	297	T8
VFMA-314	605	N7



MWHS-3

H&HS-38

AERO CLUB

MWSS-UTILITIES

ANNOTATIONS MADE BY THE WRITER OF THE SUMMARY REPORT ARE IDENTIFIED WITH A STAR SYMBOL OR AN ARROW.



THE APPROXIMATE LOCATION OF TAA 769 IS IDENTIFIED WITH A STAR SYMBOL.

FMD SHOPS

MOTOR POOL

VMGR-352

EXTRACTS

**STORM WATER POLLUTION PREVENTION PLAN
(SWPPP)**

FOR

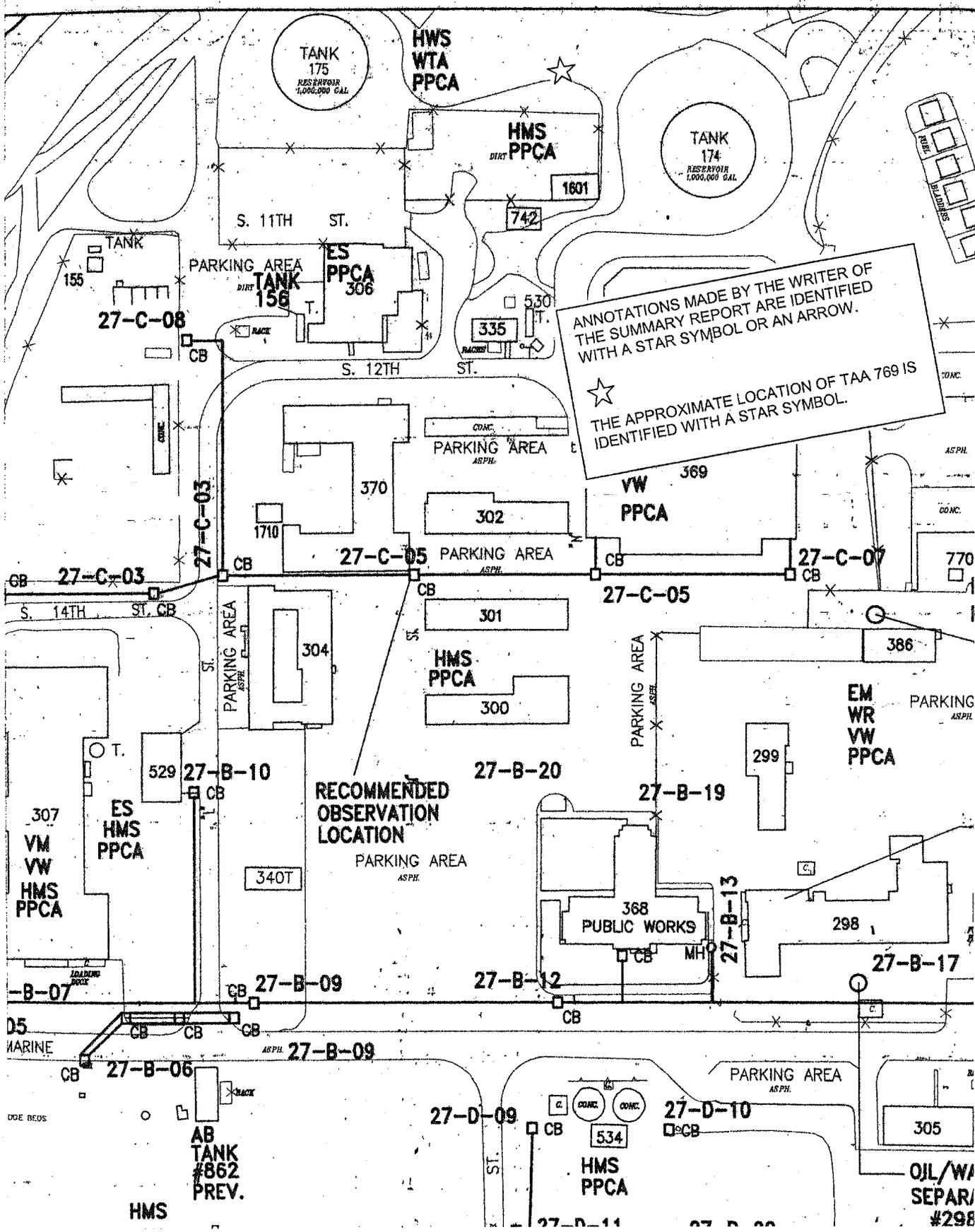
**MARINE CORPS AIR STATION EL TORO
EL TORO, CALIFORNIA**

CONTRACT NO. N68711-96-D-2059
DELIVERY ORDER NO. 0002

VOLUME 1

JULY, 1997

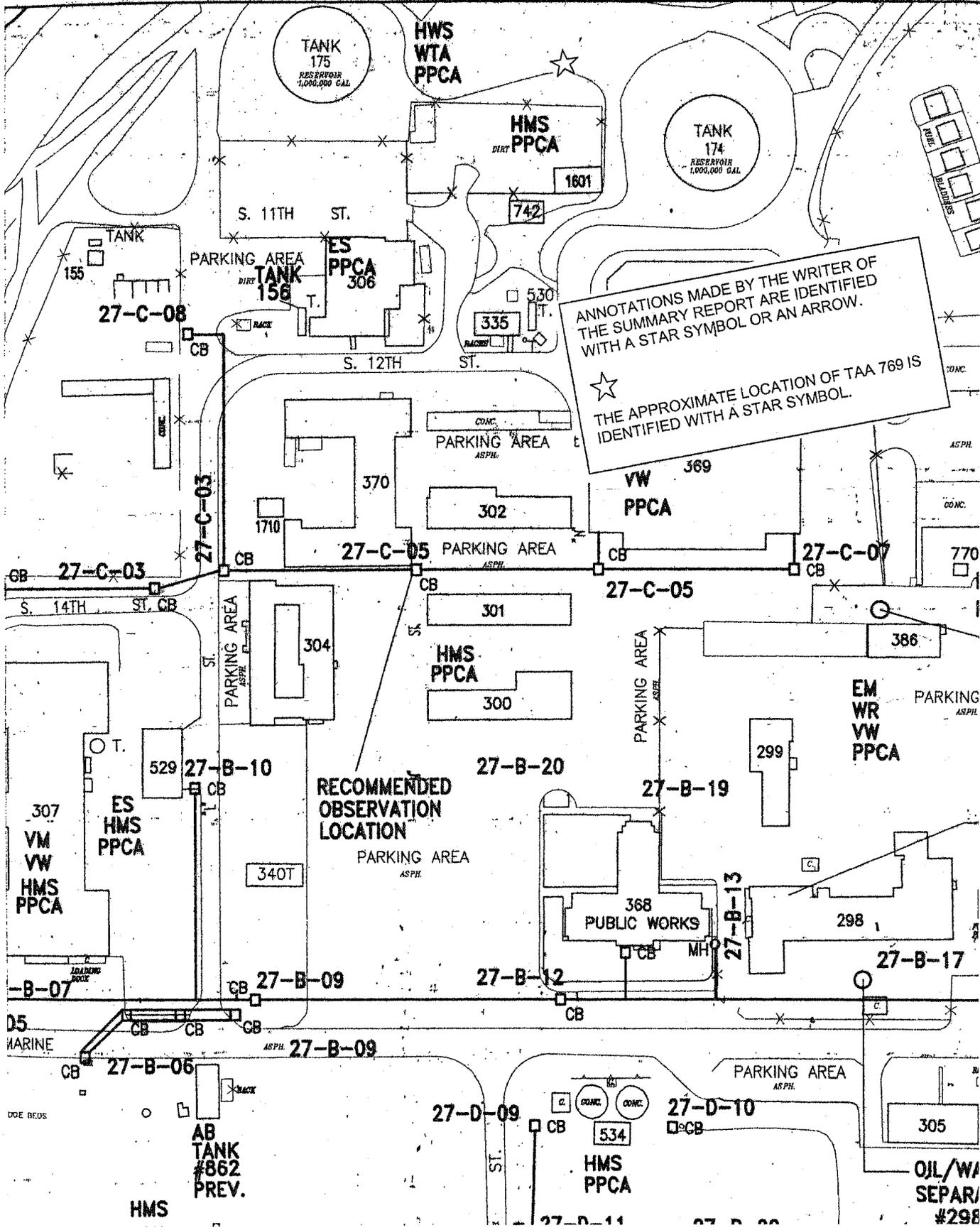
INTEGRATED ENVIRONMENTAL MANAGEMENT, INC.



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 ☆
 THE APPROXIMATE LOCATION OF TAA 769 IS
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RECOMMENDED
 OBSERVATION
 LOCATION
 PARKING AREA
 ASPH.

OIL/WA
 SEPAR.
 #298



5. STORM WATER POLLUTION PREVENTION EVALUATION

Because of its mission as a part of the National Defense system, MCAS El Toro has numerous facilities and activities where there is potential for pollutants to contact storm water. These facilities include fueling operations, wash racks for aircraft, vehicles, and equipment, engine repair and maintenance, and support facilities that use or store significant quantities of materials containing potential pollutants.

Discharges from MCAS El Toro occur at various locations. Storm water run-off enters Agua Chinon Wash, Bee Canyon Wash, Rifle Range Road Ditch, San Diego Creek, and Upper Newport Bay. A Site Topographic Map shows the locations of discharges leaving the air station. To provide a clearer understanding of the hydrologic conditions at MCAS El Toro, each drainage basin has been modeled using the U.S. Environmental Protection Agency's Storm Water Management Model, as described in the Watershed Characterization Report (Volume 3). The physical characteristics of each drainage basin (e.g., percent impermeability, etc.) are also discussed in that report.

The facilities at MCAS El Toro were investigated from field visits in 1993 to determine whether they were of limited concern or were more likely to be a possible threat to water quality. Addressed in the following sections are those buildings of concern within each Drainage Basin. Each building or activity observed during field observations is listed and discussed by drainage basin.

5.1 DRAINAGE BASIN 1

This drainage basin comprises most of the buildings in Areas 27 and 28. It has a map area of about 188 acres.

5.1.1 Buildings of Limited Concern

The buildings listed below in Table 5-1 do not use, handle, transport or store significant quantities of industrial materials nor do they generate significant amounts of liquid or solid industrial pollutants, and they do not appear to be of concern to the quality of storm water discharges:

TABLE 7-1
MCAS EL TORO MATERIALS INVENTORY

BLDG #	BASIN	BUILDING DESCRIPTION	TENANT	Concern Level	TRADE/COMMON NAME	MAX. DAY	AVE. Day	CONT.
766	22	Vehicle Washrack Utility Building	Aero Club	Concern	N/A			
769	01	HW Collection Facility	Environment	Concern	N/A			
770	01	HW Collection Facility	Environment	Concern	Aerosol	N/A	N/A	N/A
770	01	HW Collection Facility	Environment	Concern	Aerosol Spray Paint	N/A	N/A	N/A
770	01	HW Collection Facility	Environment	Concern	Cleaner	N/A	N/A	N/A
770	01	HW Collection Facility	Environment	Concern	Diesel Fuel	N/A	N/A	N/A
770	01	HW Collection Facility	Environment	Concern	Hydraulic Fluid	N/A	N/A	N/A
779	08	HW Collection Facility	Environment	Concern	Jet Fuel JP-5	N/A	N/A	N/A
779	08	HW Collection Facility	Environment	Concern	Lubricating Oil	N/A	N/A	N/A
779	08	HW Collection Facility	Environment	Concern	Waste Oil	N/A	N/A	N/A
797 Tank		Tank	MWR Aero Club	Concern	Aviation Gasoline 100LL	8000 gal	5000 gal	10000 gal
800	02	Vehicle Maint Facility	MWSS-373 HM Storage	Concern	Antifreeze	220 gal	55 gal	55 gal
800	02	Vehicle Maint Facility	MWSS-373 HM Storage	Concern	Antifreeze	330 gal	55 gal	55 gal
800 A	02	UST-Motor Pool	MWSS-373	Concern	Diesel Fuel No. 2	10000 gal	5000 gal	10000 gal
800	02	Vehicle Maint Facility	MWSS-373	Concern	Lubricating oil, 30W	220 gal	95 gal	55 gal

TABLE 5-2
BASIN 1
SUMMARY OF BMPs

BLDG #	BASIN	BUILDING DESCRIPTION	TENANT	Concern Level	BMP STATUS	BMP #	BMP Description
					Existing	005	Provide Regular Sweeping of Floor/Lot
					Existing	065	Place Spill Kit in Area
758	01	Vehicle Washrack Utility Building	MWSG-37	Concern	Rec	012	Construct Berm or Dike Around Critical Areas
					Rec	110	Regularly Inspect and Maintain Storm Water Conveyance Systems
					Existing	041	Wash Equipment and Vehicles at Designated Areas
					Existing	005	Provide Regular Sweeping of Floor/Lot.
					Rec	042	Discharge Wash Water to a Sanitary Sewer
759	01	Vehicle Washrack Utility Building	CSSD-14	Previous			No Additional BMPs are Recommended
760	01	Vehicle Washrack Utility Building	CSSD-14	Previous			No Additional BMPs are Recommended
769	01	HW Collection Facility	Environment	Concern	Rec	112	Prepare Appropriate Spill Prevention and Response Plans
					Rec	018	Provide Roof to Cover Source Area
770	01	HW Collection Facility	Environment	Concern	Rec	009	Personnel Training
					Rec	112	Prepare Appropriate Spill Prevention and Response Plans
789	01	Sewage Monitoring Station	Installation	Limited			No Additional BMPs are Recommended
824	01	Crash Crew and Station Recovery	Station G-3	Limited			No Additional BMPs are Recommended
827	01	Supply Loading Ramp	Supply	Limited			No Additional BMPs are Recommended

TABLE 5-39
MCAS EL TORO
SPILL HISTORY

Date	Incident No.	Description
November 28, 1995	N/A	Approximately 2 quarts of hydraulic fluid were lost on the roadway and shoulder when a forklift's hydraulic line was inadvertently punctured. A drip pan was placed under the leaking line to contain the leak and contaminated soil was removed and drummed as hazardous waste.
September 18, 1995	N/A	A one gallon container of liquid scale dissolver spilled when it was dropped by warehouse personnel. The spill was diked and absorbed with ash. Spill contained to the warehouse floor.
September 12, 1995	N/A	Three quarts of hydraulic fluid spilled onto the concrete warehouse floor when a forklift's fork punctured the stored material during issuance. Spilled cleaned up with speedy dry absorbent. Spill contained to the warehouse floor.
July 21, 1995	N/A	Approximately 80 gallons of JP-5 fuel spilled when a fuel truck attempted to fuel an aircraft with an open fuel cell. Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.
July 20, 1995	N/A	Approximately 10 gallons of JP-5 fuel spilled when an aircraft vented it's tanks. Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.
June 29, 1995	N/A	Approximately 70 gallons of JP-5 fuel spilled from an aircraft fuel tank with a dysfunctional valve. Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.
November 1, 1994	N/A	Approximately 400 gallons of JP-5 fuel leaked from an F/A-18 aircraft. Three hundred gallons were recovered and 100 gallons were cleaned up with speedy dry absorbent. Spill contained to the flightline.
November 1, 1994	N/A	Approximately 250 gallons of JP-5 fuel leaked from an F/A-18 aircraft. Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.

TABLE 5-39
MCAS EL TORO
SPILL HISTORY

Date	Incident No.	Description
September 1, 1994	N/A	Approximately 1 gallon of hydrochloric acid and another gallon of chlorine spilled when their lines ruptured. Pumping through the line was stopped immediately and the spill was cleaned up with sodium bicarbonate. Spill contained to the flightline.
August 12, 1994	N/A	A small amount of paint stripper (methylene chloride) from a 5 gallon can spilled when the can overheated and blew its cap. The small amount evaporated before cleanup could occur.
July 14, 1994	249777	Approximately 25 gallons of transformer oil, possibly containing more than 55 ppm PCBs, spilled when the personnel handling the transformer overturned it. The initial responders laid down absorbent socks, mats pads and Lite-Dri absorbent around the spill and on the liquid. Workers then removed and drummed soil from the spill area as hazardous waste. Cleanup began immediately on 14 July 94 and was completed 15 July 94. Additional hazardous waste included the absorbent materials, personal protective gear rags and mops used to cleanup the spill.
April 26, 1994	N/A	Approximately 100 gallons of JP-5 fuel spilled when an aircraft vented its tanks. Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.
March 8, 1994	N/A	Approximately 20 gallons of JP-5 fuel spilled when an aircraft was refueling. Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.
May 11, 1993	318	Caustic soap leaked from a container behind Bldg. 317.
March 1, 1993	146	Approximately one quart of methyl ethyl ketone spilled to the ground at Bldg. 306.
September 9, 1992	873	Unknown quantity of fumigant released into the soil at Strawberry Field.
August 16, 1992	788	Fire occurred at Bldg. 751 with a van containing Hg, Li, Cd, and Pb-acid batteries. This caused a chemical release into the atmosphere.

TABLE 5-39
MCAS EL TORO
SPILL HISTORY

Date	Incident No.	Description
June 1, 1992	560	Approximately 3,950 gallons of JP-5 spilled from a refueler. Fuel was contained and did not enter storm drains.
May 28, 1992	552	JP-5 smell coming from storm drain at Bldg. 368. Flow from drain diverted to oil/water separators.
March 5, 1992	228	Three quarts of Hg spilled at Bldg. 297. The spill was contained.
March 5, 1992	223	Tractor trailer spilled 15-20 gallons of diesel fuel into sanitary sewer. Sewer system was diked and covered.
February 5, 1992	121	One gallon of transformer oil containing PCBs spilled at Bldg. 439. The spill was contained.
January 17, 1992	053	Approximately 100 gallons of antifreeze spilled into ditch and then to Agua Chinon.
December 18, 1991	1092	Lithium battery exploded at Bldg. 17. The debris was contained with some off-gassing.
November 19, 1991	997	Approximately 10 Lithium Batteries leaking and off-gassing at Bldg. 673T3.
September 16, 1991	754	Contaminated oil spilled into sewer at Bldg 295.
July 12, 1991	580	Paint stripper spilled into ditch near Bldg. 800. The spill was diverted to oil/water separator.
May 23, 1991	453	Unknown white substance found at Officer's Club crystal room.

A reference to a major spill is contained in the May 1990 SPCCP written for the MCAS. The SPCC states that "one major unauthorized release has occurred in the last two years. In August 1988, a 108,000 gallon JP-5 storage tank pipe was reported to have leaked causing soil and ground water contamination. The leak was reportedly repaired in early 1990."

STATE OF CALIFORNIA

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION
INDIANA AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92705
PHONE: (714) 782-4130

ML0050.001130



Annotations made by the writer of the
Summary Report are identified with a
star symbol or an arrow.



The RWQCB letter of 23 June 1989
does not identify Building or TAA 769.

GATE

June 23, 1989

LTJG Michael Rehor, Environmental Di
MCAS El Toro (Code 1JG)
Santa Ana, CA 92709-5001

MCAS EL TORO - SITE INSPECTION PLAN OF ACTION

Dear LTJG Rehor:

As we discussed in our May 30, 1989 meeting, we are hereby transmitting our recommendations for additional sites at the El Toro Marine Corps Air Station (MCAS) which we believe should be included in the Site Inspection Plan of Action.

Although the Installation Restoration (IRP) program is intended to address only past facility operations, we believe that some currently operating facilities should be included in the IRP program. Past and current chemical use and disposal practices at these sites may have allowed contaminants to be discharged where they could impact water quality. We believe that it is appropriate to include these sites in the present phase of investigation. The sites listed are areas where trichloroethylene (TCE) is either known or suspected to have been used. Chemical use and disposal practices, documented in the November 1987 Oil and Hazardous Substance Spill Prevention Control and Countermeasure (SPCC) plan, strongly suggest that there are areas on the base where TCE was routinely discharged to bare ground and unlined channels.

Although some of these areas are located near sites that have already been selected for investigation, we believe that the sites require individual investigation to adequately evaluate the threat to water quality from past chemical use practices. In some cases adequate coverage may be provided by expanding the specific site investigations. However, in most cases separate site investigations will be necessary. Investigation of these sites should focus on potential discharge areas and any adjacent drainage channels. The following sites should be given highest priority:

1. Building 359 - corrosion control facility, which housed 2 TCE degreasers.
2. Three engine test cells - the SPCC plan documents oily discharges from two of these test cells, located in buildings 658 and 447, that eventually entered storm drains. The location of the third test cell is not indicated.

3. Six drum storage areas - The SPCC plan depicts numerous drum storage areas on bare ground. The plan documents solvent storage in the following areas:
 - A. Northeast of building 392
 - B. Southeast of building 602
 - C. Between buildings 454 and 456
 - D. Northeast of building 320
 - E. Northeast of building 317
 - F. East of building 359
4. Hazardous and flammable materials storehouses 320 and 357.
5. Oil/water separators at Bee Canyon Wash and Agua Chinon Wash.

In addition, the SPCC plan identifies 23 wash areas including seven aircraft wash facilities. Each of these wash areas should be evaluated to determine whether solvents were used. If solvents were used at any wash area, that area should be included in the investigation.

Please submit a proposed sampling program for the sites discussed above in the form of an amendment to the Site Inspection Plan of Action. If you should have any questions, please call me or Steven Overman of our Pollutant Investigation Section.

Sincerely,

Kurt V. Berchtold
Kurt V. Berchtold
Supervising Engineer

cc: OCWD - Jim Reilly

TDP/mcaset2

M60050.000776 (1-4)
4/17/89 TDP

MCAS EL TORO

ADDITIONAL SITES NEEDING INVESTIGATION

Tom D Peltier

M60050.0007
MCAS El Toro

DUPLICATE

Test Cells 658 and 447

Bldg. 626

Wash Rack

Bldg. 392

Wash Rack and Drum Storage Area

Bldg. 127

Wash Rack

Bldg. 673

Wash Rack and Drum Storage

Bldg. 390

Wash Rack

Bldg. 386

Steam Cleaning Area

Bldg. 298

Maintenance Shop

Bldg. 388

Wash Rack

Hanger 605

Aircraft Wash Area

Hanger 606

Aircraft Wash Area

Hanger 114

Aircraft Wash Area

Hanger 463

Aircraft Wash Area

Hanger 461

Aircraft Wash Area

Hanger 297

Aircraft Wash Area and Drum Storage

Bldg. 320

Trichloroethylene Drum Storage

Bldg. 357

Drum Storage

Bldg. 454/456

Drum Storage

Bldg. 317

Drum Storage

Bldg. 534

Drum Storage

Bldg. 655

Drum Storage

Bldg. 359

Drum Storage

Bldg. 130

Drum Storage

Bldg. 602

Drum Storage

Salvage Yard

Drum Storage

Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.

The 1989 list does not identify Building or TAA 769.

ADDITIONAL SITES NEEDING INVESTIGATION, POTENTIAL AREAS OF CONTAMINATION

TOM D. PELTIER/

TITLE:

AUTHOR:

DATE: 4/17/89

CATEGORY: 1.2

OTHER POTENTIAL AREAS OF CONTAMINATION

Mag. 13	Paint Sheds
Auto Hobby Shop	Leaking waste Oil Tank
Bldg. 103	Paint Shed
Heavy Equipment	Vehicle Wash Area
Empty or Destroyed Buildings 143, 343, and 1789	
Combat Ready Vehicle Storage and Wash Area	
Bldgs. 359 & 651	Wash Areas
Bldg. 262	Wash Rack
Exchange Car Wash	