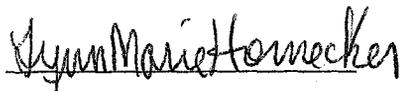


Summary Report

*Phantom Drum Storage Area
Solid Waste Management Unit (SWMU) 55
Marine Corps Air Station, El Toro, California*

14 January 2002

Prepared by:



Lynn Marie Hornecker
Project Manager

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

Transmittal

Date: 14 January 2002

From: Lynn Marie Hornecker 

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: Solid Waste Management Unit (SWMU 55)
Phantom Drum Storage Area
Marine Corps Air Station, El Toro

Provided for your review as the attachment is the Summary Report for Solid Waste Management Unit (SWMU 55), a phantom or non-existent drum storage area at the Marine Corps Air Station (MCAS), El Toro. SWMU 55 was identified during the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA). According to the RFA documentation, SWMU 55 was identified on a photograph taken in 1980 and was reportedly located south of Building 186. The RFA documentation states that the drum storage area could not be located during the visual inspection activities.

We evaluated historical property records, facility maps, and photographs for MCAS El Toro during the development of the Summary Report, and extracts from these documents are included in the Summary Report. We found no record of a Building 186 at MCAS El Toro. There is however, a structure 186 – a former 50,000-gallon underground storage tank (UST) at the former Tank Farm 1. All USTs were removed from the former Tank Farm 1 in 1996 and the Orange County Health Care Agency closed the tank sites in 1997.

We also evaluated historical documents for the Marine Corps Air Facility (MCAF), Tustin and conducted a visual inspection of Building 186 at MCAF Tustin on 11 January 2002. We believe that the south side of Building 186 at MCAF Tustin was photographed in 1980. An oil/water separator and storage area were located on the south side of Building 186 – a former automotive shop - at MCAF Tustin, and these areas of concern are being managed under the MCAF Tustin environmental restoration program.

We believe that the label on the 1980 photograph was incorrect and should have identified MCAF Tustin rather than MCAS El Toro as the facility.

We recommend that SWMU 55 be designated a phantom or non-existent site and that SWMU 55 be deleted from the list of Locations of Concern in the next MCAS El Toro 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 recommendations to designate SWMU 55 a phantom or non-existent site and to delete SWMU 55 from the list of Locations of Concern.

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, January 2002)

CF:

Dean Gould (MCAS El Toro BEC)
Project File (MCAS El Toro)

Summary

The purpose of this Summary Report is to present information pertaining to a phantom or non-existent drum storage area, designated as Solid Waste Management Unit (SWMU) 55 at the Marine Corps Air Station (MCAS), El Toro. SWMU 55 was identified during the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA). The RFA documentation states that SWMU 55 was identified as a drum storage area located south of Building 186 and that the drum storage area was identified on a photograph taken in 1980. The record from the visual inspection indicates that the drum storage area could not be located.

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).

This Summary Report includes a description of information collected during a review of historical property records, facility maps, photographs, environmental compliance management plans, the results of a recent visual inspection, and a discussion of the findings of the review of historical documentation.

The historical records do not include a Building 186 at MCAS El Toro, however, a Building 186 is located at the Marine Corps Air Facility (MCAF), Tustin. The recent visual inspection of Building 186 at MCAF Tustin confirmed that the 1980 photograph of a drum storage area was taken at Building 186 at MCAF Tustin.

Based upon the absence of evidence of a Building 186 at MCAS El Toro, and the existence of a Building 186 at the Marine Corps Air Facility, Tustin, it is recommended that SWMU 55 be designated a phantom or non-existent site and be deleted from the list of Locations of Concern in the next BRAC Business Plan update for MCAS El Toro.

Historical Records

Exhibits: A copy of the 1980 photograph and a recent photograph of Building 186 at Marine Corps Air Facility, Tustin are included in the Appendix as Exhibits 1 and 2. The 1980 photographs are maintained in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Administrative Record with the record identifier M60050.000924. The list that accompanies the 1980 photographs does not cite the California Department of Health Services (DHS) as the source, however, this information may have been inadvertently omitted from the hand-written list.

The 1980 photograph of Building 186 shows a chain-link fence that encloses an equipment pad near the door to Building 186. The photograph also shows a placard with the words "WASTE SUMP".

A photograph of Building 186 was taken on 11 January 2002, and the photograph shows the door to Building 186. Vents on the wall near the door of Building 186 are shown in both photographs. An oil/water-separator and the chain-link fenced enclosure were removed from Building 186 during the investigation of the tank sites. The pavement was replaced following the removal of the tanks.

Exhibit 3 is a plan for the removal of tanks at the former Tank Farm 1 that included UST 186. All tanks (USTs 184, 185, 186, 187, and the nearby 175) were removed in 1996.

MCAS El Toro RFA Documentation: The visual inspection record (JEG 1993) states: "This DSA was identified in a set of 1980 DHS photographs of MCAS El Toro. There is currently no Building 186 at MCAS El Toro. In addition, a building guide for the Station dated 6 February 1989 does not show this building. This site could not be located and is excluded from further consideration in the RFA." Extracts from the 1993 RFA documentation are included in the Appendix.

MCAS El Toro Building Guides dated 1994 and 1997: Building 186 is not included in the 1994 guide or the 1997 guide. Extracts from the building guides are included in the Appendix.

MCAS El Toro Property Records: The property disposal record identifies structure 186 as a 50,000-gallon tank that was installed in 1943 and that was decommissioned in 1965. The property log book identifies structure 186 as a 50,000-gallon fuel storage tank.

MCAS El Toro Underground Storage Tank Program: All tanks were removed from the former Tank Farm 1 (USTs 184, 185, 186, and 187) with oversight by the Orange County Health Care Agency (OCHCA) in 1996. An extract from the tank removal plan and the OCHCA closure letter dated 1997 are included in the Appendix.

MCAS El Toro historical hazardous waste management documents:

In the letter dated June 23, 1989 (Administrative Record Identifier M60050.001130), the Regional Water Quality Control Board, Santa Ana Region identified several drum storage areas at MCAS El Toro. The letter does not include a reference to Building 186. A copy of the letter is included in the Appendix.

A list of additional sites needing investigation dated 1989 (Administrative Record Identifier M60060.000776) does not include Building 186. A copy of the list is included in the Appendix.

The map, list of storage sites, and photographs in the Hazardous Materials/Hazardous Waste Management Plan (SAIC 1994) do not identify a Building 186. A copy of the list of storage sites is included in the Appendix.

MCAF Tustin Documentation:

The 1994 Building Guide for MCAF Tustin (formerly MCAS Tustin) includes Building 186 – a former automotive shop. An extract from the 1994 Building Guide is included in the Appendix.

The Base Realignment and Closure Business Plan, Marine Corps Air Station, Tustin, 2000 in Review (USMC February 2001) identifies an oil/water separator, a waste oil tank, above-ground tank, and a drum storage area at or near the south side of Building 186. The Extracts from the document are included in the Appendix.

Findings and Recommendations

The following findings are based upon information collected during the record search activities, the RFA documentation, and from observations during the visual inspections:

- The RFA identified SWMU 55 as a drum storage area located south of Building 186 at MCAS EI Toro, and the RFA identified a photograph dated 1980 as the source of the information.
- Historical records, including building guides, property records, and facility maps, for MCAS EI Toro do not indicate that a Building 186 existed. However, the records identify structure 186 as a 50,000-gallon underground storage tank at the former Tank Farm 1. UST 186 was removed in 1996 and the tank site has been closed by OCHCA.
- Historical records for MCAF Tustin include a Building 186 – a former automotive shop - and the areas of concern at or near Building 186 are being managed under the MCAF Tustin environmental restoration program.
- A recent photograph of Building 186 at MCAF Tustin shows the same vent features on the wall of Building 186 as the 1980 photograph of Building 186. The area of replaced pavement corresponds to the area where tanks were removed.
- It is possible that a transcription error caused the 1980 photograph of Building 186 at MCAF Tustin to be identified as a building at MCAS EI Toro.

Based upon the absence of evidence of a Building 186 at MCAS EI Toro and the existence of Building 186 at MCAF Tustin, it is recommended that SWMU 55 that is associated with Building 186 be considered a phantom or non-existent site. It is also recommended that SWMU 55 (drum storage area located south of Building 186) be deleted from the inventory of locations of concern in the next Business Plan Update for MCAS EI Toro.

References and/or Sources of Information

American Processing Co., Inc. 1997. Closure Report, Underground Storage Tank Removals at Fuel Farm #1, United States Marine Corps Air Station, El Toro, California, Contract N68711-94-C-0697. January.

California Regional Water Quality Control Board, Santa Ana Region. 1989. Correspondence dated June 23, 1989.

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]

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]

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].]

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, Facility Maps, and Building Guides.

United States Marine Corps Air Station, El Toro. 1997-2000. No Further Action correspondence from RWQCB, OCHCA, and/or DTSC.

United States Marine Corps Air Station, El Toro. Administrative Record Identifier M60050.000924. Historical photographs of drum storage areas dated 1980.

United States Marine Corps Air Station, El Toro. Administrative Record Identifier M60050.00000776. List of Additional Sites Needing Investigation dated 1989.

United States Marine Corps Air Facility, Tustin. Historical environmental restoration program documents and building records.

Appendix

Site Photographs and Other Documentation

Exhibits: Photograph of Building 186 at MCAF Tustin (January 2002);
Photograph of SWMU 55 (1980); and Extract from Construction Plan for
Removal of USTs from Tank Farm 1

Extracts from RFA Documentation (JEG 1993) and 1980 Photograph List

Extracts from MCAF Tustin Documents

Extracts from MCAS El Toro Business Plan (Published March 2001)

Extracts from Property Records, Building Guides, and Historical Facility
Maps

Extracts from historical hazardous waste management documents

No Further Action Decision Document for UST 186 (Former Tank Farm 1
(also known as Fuel Farm 1))

M60050.002787
MCAS EL TORO
SSIC # 5090.3

APPENDIX
EXHIBITS

SUMMARY REPORT
PHANTOM DRUM STORAGE AREA
SOLID WASTE MANAGEMENT UNIT (SWMU) 55

DATED JANUARY 2002

**Exhibit 1. South Side of Building 186
Marine Corps Air Facility, Tustin**

Also identified as Solid Waste Management Unit (SWMU) 55 - a phantom or non-existent site - at the Marine Corps Air Station, El Toro

NOTE: The Navy conducted record search activities and visual inspections in December 2001 and in January 2002 and determined that the location of SWMU 55 as shown on the 1980 Photograph (Administrative Record ID M60050.000924, Photograph Number 6) is at the Marine Corps Air Facility, Tustin. An oil/water separator and waste oil tank were removed from the south side of Building 186, the chain-link fenced enclosure was removed, and the pavement was replaced.

Date of Photograph: 11 January 2002

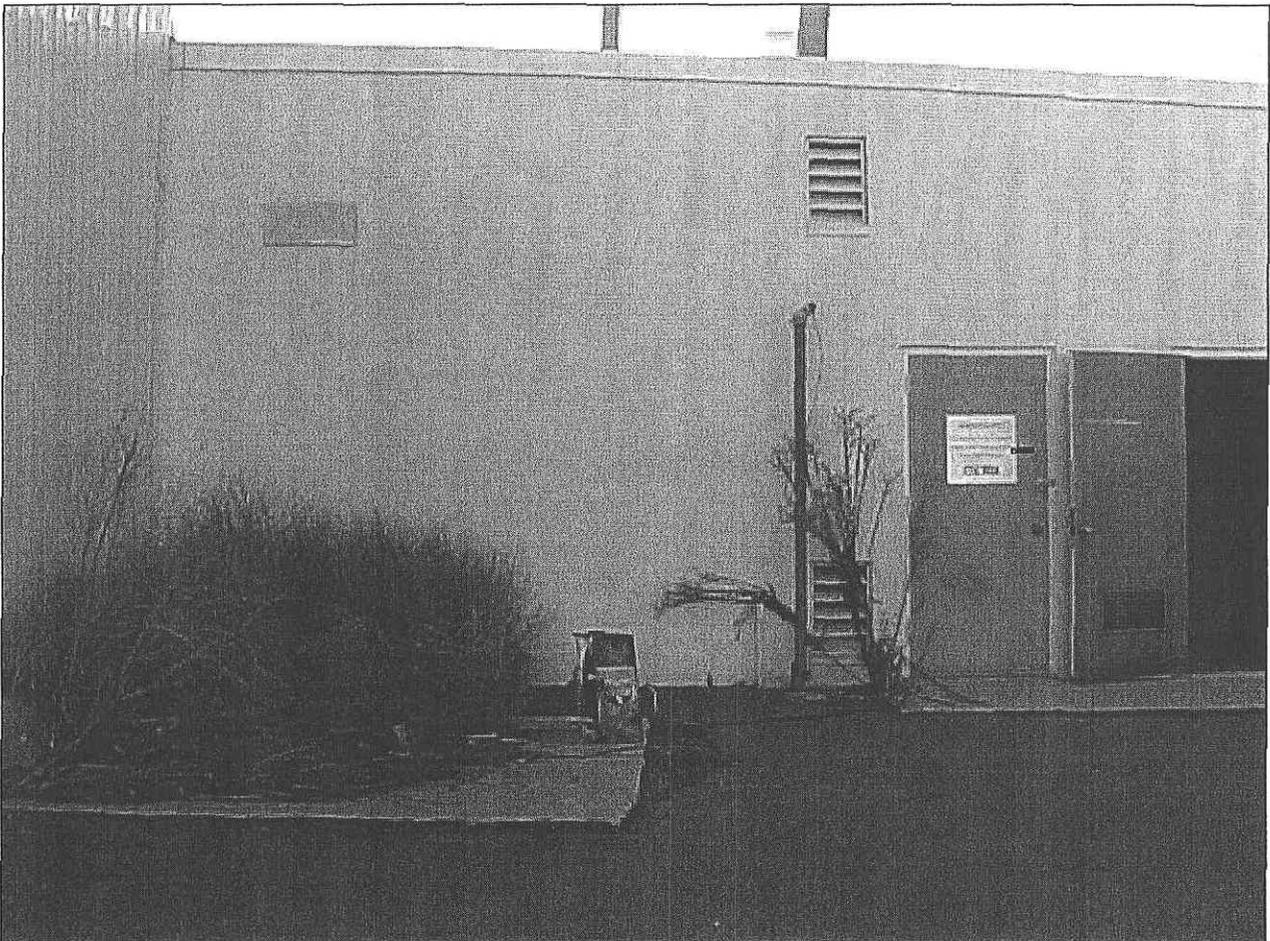
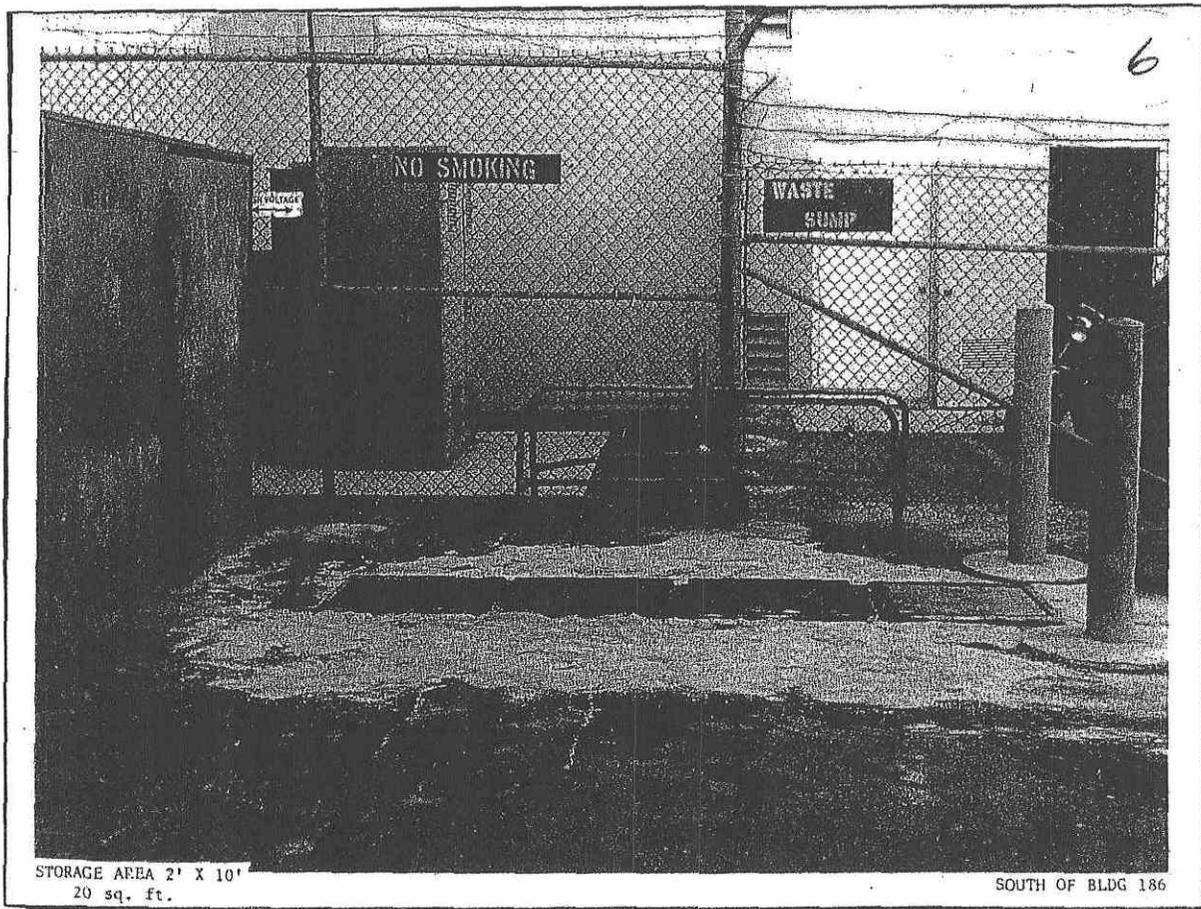
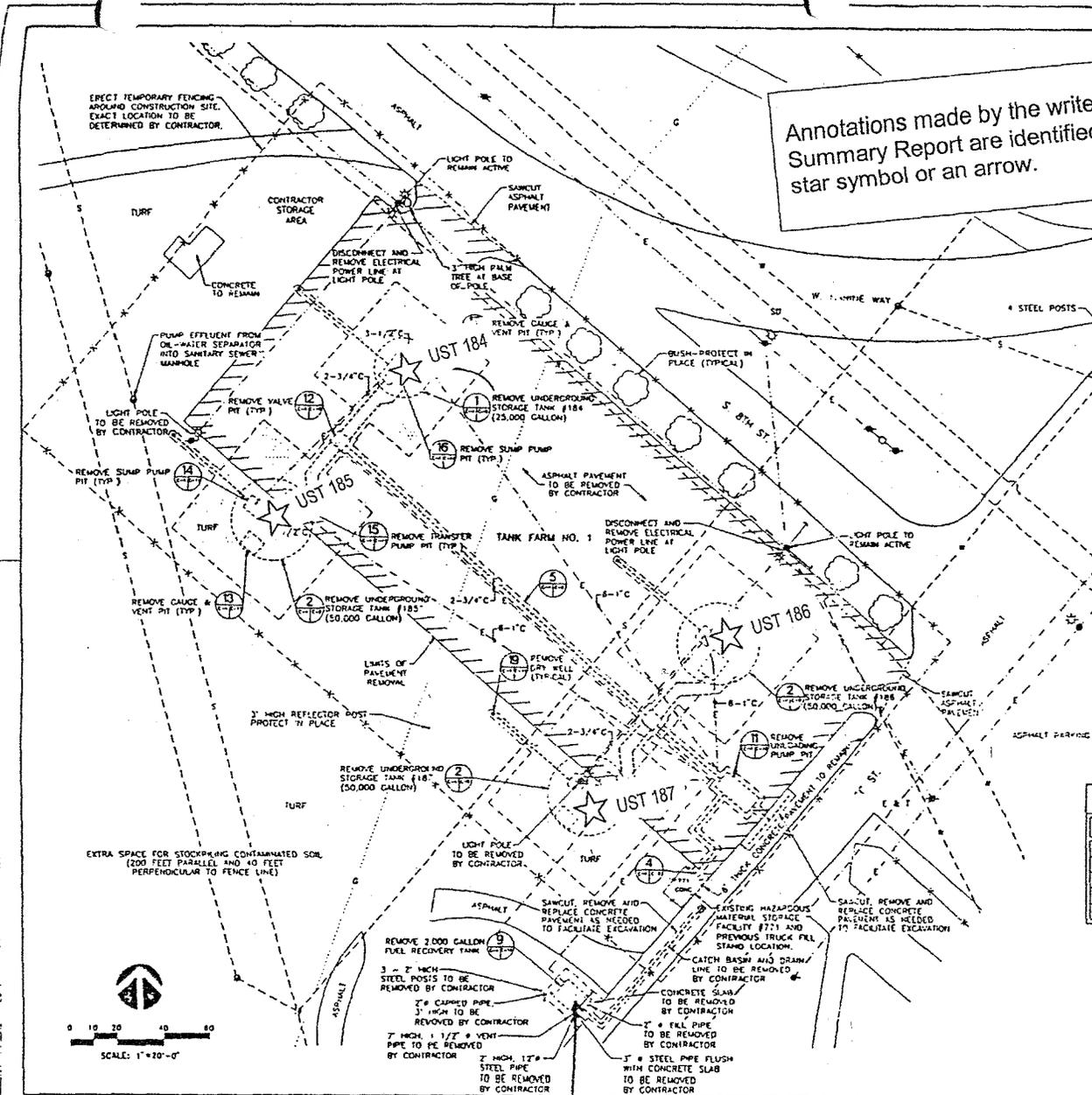


Exhibit 2. Copy of Photograph 6 - South of Building 186.
Administrative Record ID M60050.000924
Date of Photograph: 1980





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

SYMBOLS LEGEND:

- S — S — INDICATES APPROXIMATE LOCATION OF UNDERGROUND STORM DRAIN, SEWER, OR WATER LINE
- G INDICATES APPROXIMATE LOCATION OF UNDERGROUND GAS LINE
- T — C — INDICATES APPROXIMATE LOCATION OF ELECTRICAL, TELEPHONE, OR CABLE TV CONDUIT
- F — INDICATES APPROXIMATE LOCATION OF UNDERGROUND FUEL PIPE
- SEWER MANHOLE
- STORM DRAIN
- CATCH BASIN
- FIRE HYDRANT
- STREET LIGHT
- APPROXIMATE LIMITS OF EXCAVATION & DEMOLITION (SEE SHEET C-9)
- — — — — EXISTING FENCE LINE
- - - - - TEMPORARY FENCE LINE
- ⊕ UTILITY POLE
- ⊕ ELECTRICAL MANHOLE
- ⊕ TELEPHONE MANHOLE
- ⊕ HIGH TEMPERATURE WATER MANHOLE
- ⊕ METER (GAS, WATER, ELECTRICAL)
- ⊕ ELECTRICAL TRANSFORMER
- ⊕ ELECTRICAL SWITCH BOX
- ⊕ VAULT
- ////// LIMITS OF ASPHALT PAVEMENT TO BE REMOVED
- ▲ FILL PORT

NOTES:

- 1) THE CONTRACTOR SHALL HYDROSEED AND MOW TOPSOIL (EXISTING AND IMPORTED) AT LOCATIONS WHERE THE TANKS ARE EXCAVATED AND WHERE PAVEMENT IS REMOVED.
- 2) ASPHALT PAVEMENT TO BE REMOVED CONSISTS OF APPROXIMATELY 4 INCHES OF ASPHALT CONCRETE AND 6 INCHES OF AGGREGATE BASE.
- 3) PRIOR TO DEMOLISHING A TANK THE CONTRACTOR SHALL PUMP THE WATER FROM THE TANK THROUGH A PORTABLE OIL-WATER SEPARATOR AND INTO THE INDICATED SANITARY SEWER MANHOLES. THE CONTRACTOR SHALL SUPPLY THE PUMP, ITS POWER SUPPLY, A PORTABLE OIL-WATER SEPARATOR, F-PIPE, HOSES AND ACCESSORIES. THE FREE PETROLEUM HYDROCARBON CONCENTRATION IN THE PORTABLE OIL-WATER SEPARATOR EFFLUENT SHALL NOT EXCEED 15 PPM #15 WITH NO DROPLETS GREATER THAN 80 MICRONS.
- 4) THE TRUCK FILL STAKES IDENTIFIED IN THESE DRAWINGS HAVE HAD ALL THEIR ABOVE GRADE FIRING AND COMPONENTS PREVIOUSLY DEMOLISHED. THE ONLY PORTIONS OF THESE STAKES THAT REMAINS IS A 20 IN-THICK CONCRETE SLAB BURIED APPROXIMATELY 2 FEET BELOW GRADE AND SOME PIPING BELOW THIS SLAB.
- 5) ALL ABOVE GROUND FEATURES OF THE TANKS, VALVE PITS, AND UNLOADING PUMP PITS HAVE BEEN DEMOLISHED BELOW GRADE AND ARE COMPLETELY COVERED WITH SOIL AND PAVEMENT.

SCHEDULE OF UNDERGROUND STORAGE TANKS

TANK NUMBER	TANK MATERIAL	TANK VOLUME (GALLONS)	TANK CONTENTS	OFFICE PRODUCT (GALLONS)	OFFICE WATER (GALLONS)	APPROX. EXCAVATION DEPTH (FEET BELOW GRADE)
184	CONCRETE	25,000	AQUEOUS	0	8.0	17
185	CONCRETE	50,000	AQUEOUS	0	8.0	16
186	CONCRETE	50,000	AQUEOUS	0	8.0	16
187	CONCRETE	50,000	AQUEOUS	0	8.0	16
FUEL RECOVERY	STEEL	2,000	AQUEOUS	0	6.0	10

Exhibit 3.

Extract from Construction Plan for Removal of USTs from Tank Farm 1 (also known as Fuel Farm 1)

(from Navy construction contract N68711-94-C-0697)

MARINE CORPS AIR STATION, EL TORO

★ UST 175 Tank # 175

Primary Source of Map Information: Closure Report (American Processing 1997)

M60050.002787
MCAS EL TORO
SSIC # 5090.3

APPENDIX
EXTRACTS FROM RFA DOCUMENTATION
(JEG 1993) AND 1980 PHOTOGRAPH LIST

SUMMARY REPORT
PHANTOM DRUM STORAGE AREA, SOLID
WASTE MANAGEMENT SOLID WASTE UNIT 55

DATED JANUARY 2002

EXTRACTS

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

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

THROUGH:
CONTRACT #NG6711-89-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.
CLEAN Project Manager
CH2M HILL, Inc.

7/14/93
Date



Raoul Portillo
CLEAN Technical Reviewer
Jacobs Engineering Group Inc.

15 July 1993
Date

**Evaluation Form
SWMU/Area of Concern
Number 55**

Name: Drum Storage Area

Location: South of Building 186

Size: 20 sq ft

This DSA was identified in a set of 1980 DHS photographs of MCAS El Toro. There is currently no Building 186 at MCAS El Toro. In addition, a building guide for the Station dated 6 February 1989 does not show this building. This site could not be located and is excluded from further consideration in the RFA.

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

SWMU	SMWU TYPE	SOURCE (1)	LOCATION/BUILDING	COMMENTS	DATE	SIZE	MATERIAL	CONTENTS
31	Drum Storage Area	c	29	R/FS Site				
32	Drum Storage Area (2)	b	36					
33	Hazardous Waste Storage Area	Active	51					
34	Drum Storage Area	c	71	Identified as MCAS Tustin		45,000 sq ft		
35	Drum Storage Area	b	96					
36	Drum Storage Area	a	103	Duplicate of SWMU/AOC 27				
37	Aircraft Wash Area	a	114	Duplicate of SWMU/AOC 210				
38	Drum Storage Area	a	114					
39	Hazardous Waste Storage Area	Active	115					
40	Drum Storage Area (2)	a	127					
41	Vehicle Wash Rack	a	127					
42	Drum Storage Area	a,b	130					
43	Drum Storage Area (2)	c	137			450 sq ft		
44	Drum Storage Area (2)	a	143					
45	Drum Storage Area	c	155			150 sq ft		
46	Vehicle maintenance and parking	e	163	DRMO Lot 2				
47	Drum Storage Area (2)	c	172					
48	Underground Storage Tank	f	178	Active	1943	50,000 gal	Steel-Lined Concrete	Waste Oil
49	Underground Storage Tank	f	179	Active	1943	25,000 gal	Steel-Lined Concrete	Waste Oil
50	Drum Storage Area	c	179			56 sq ft		
51	Underground Storage Tank	f	180	Active	1943	50,000 gal	Steel-Lined Concrete	Waste JP-5
52	Underground Storage Tank	f	182	Active	1943	25,000 gal	Steel-Lined Concrete	Waste Oil
53	Underground Storage Tank	f	185	Identified as MCAS Tustin	Unknown	750 gal	Steel	Waste Oil
54	Underground Storage Tank	f	185	Identified as MCAS Tustin	Unknown	750 gal	Steel	Waste Oil
55	Drum Storage Area (2)	c	186			20 sq ft		
56	Drum Storage Area (2)	c	187			172 sq ft		
57	Underground Storage Tank	f	189	Active	1943	50,000 gal	Steel-Lined Concrete	Waste Oil
58	Underground Storage Tank	f	189	Active	1988	2,000 gal	Fiberglass-Coated Steel	Waste Oil
59	Underground Storage Tank	f	191	Active	1943	25,000 gal	Steel-Lined Concrete	Waste Oil
60	Underground Storage Tank	f	204	Release detection 1989. Active	1943	50,000 gal	Steel-Lined Concrete	Waste JP-5

4-9

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
301	Mark Arrest System	m	East side of Runway 34R					
302	Mark Arrest System	m	West side of Runway 34R					
303	Underground Storage Tank	m	359					
304	Trenches inside Building 359	m	359					
305	Septic Tank	l	601			2,000 gal	Concrete	Sanitary Waste
306	Septic Tank	l	687			2,000 gal	Concrete	Sanitary Waste
307	Septic Tank	l	819		1986	2,200 gal	Concrete	Sanitary Waste

NOTES:

(1) SOURCE:

- Current - Based on site visits Jan-Feb 1991
- Past - Based on agency records review and miscellaneous records for MCAS El Toro as identified below:
 - a - Regional Water Quality Control Board, letter to LL Rehor (June 23, 1989)
 - b - SPCC map (no date)
 - c - Department of Health Services, 1980 Photographs
 - d - EPA, Region IX, Compliance Inspection Report, May 1987
 - e - interview
 - f - UST list EG & G Idaho, Inc., November 1990
 - i - Department of Conservation, California Division of Oil and Gas, Long Beach
 - j - Per MCAS El Toro List of Oil/Water Separators
 - k - Observed during VSI
 - l - Other
 - m - Per Navy direction (added during SV)

(2) SWMU/AOC was not able to be accurately located and/or identified from the records review information and the site visits.

4-27



PHOTO RECORD FILE INDEX

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ROLL NO. SSIC # 5090.3

M60050.000924
MCAS EL TORO
SSIC # 5090.3

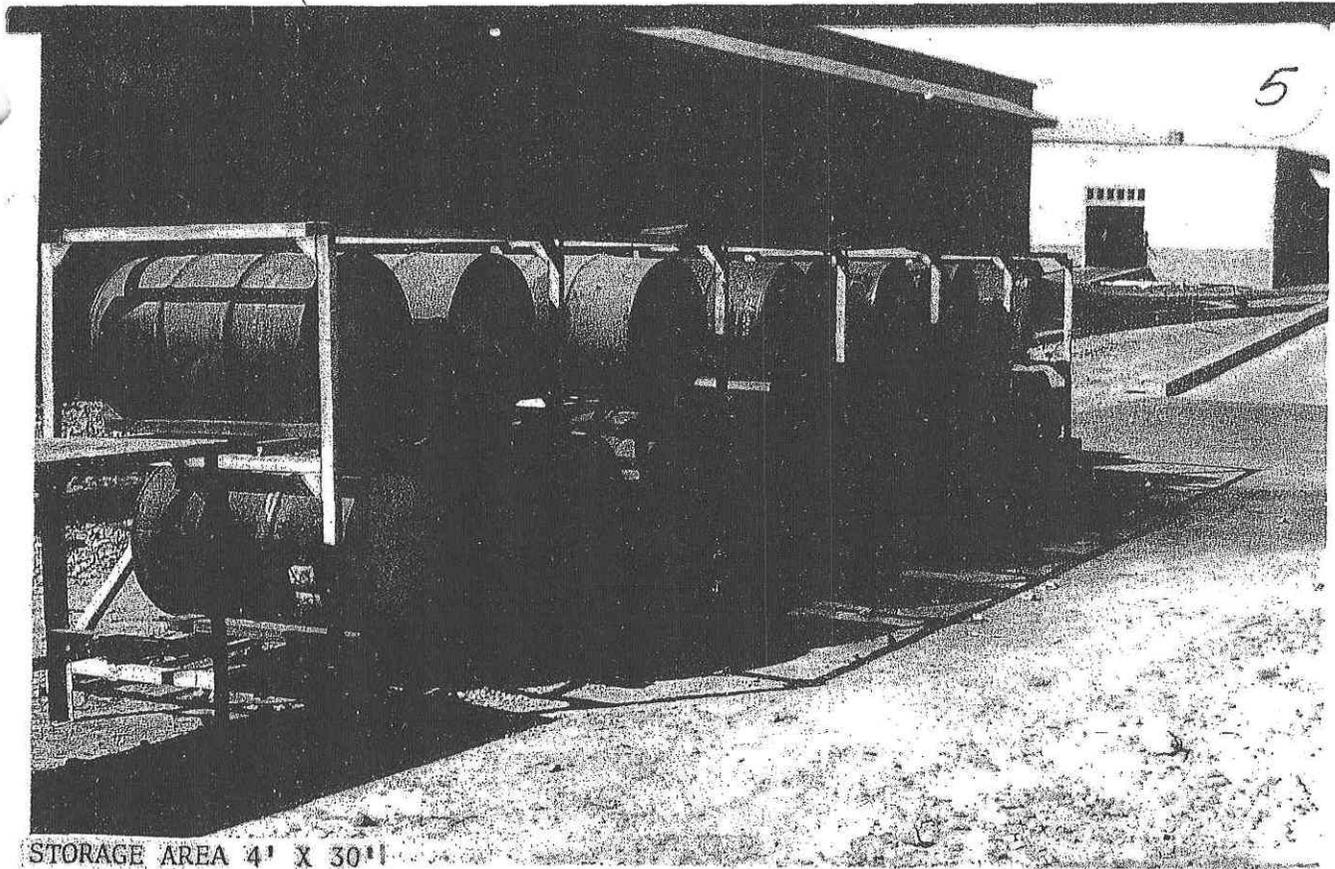
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PROJECT: CTO #193 RFA

PROJECT NO. SCE 70022 MR

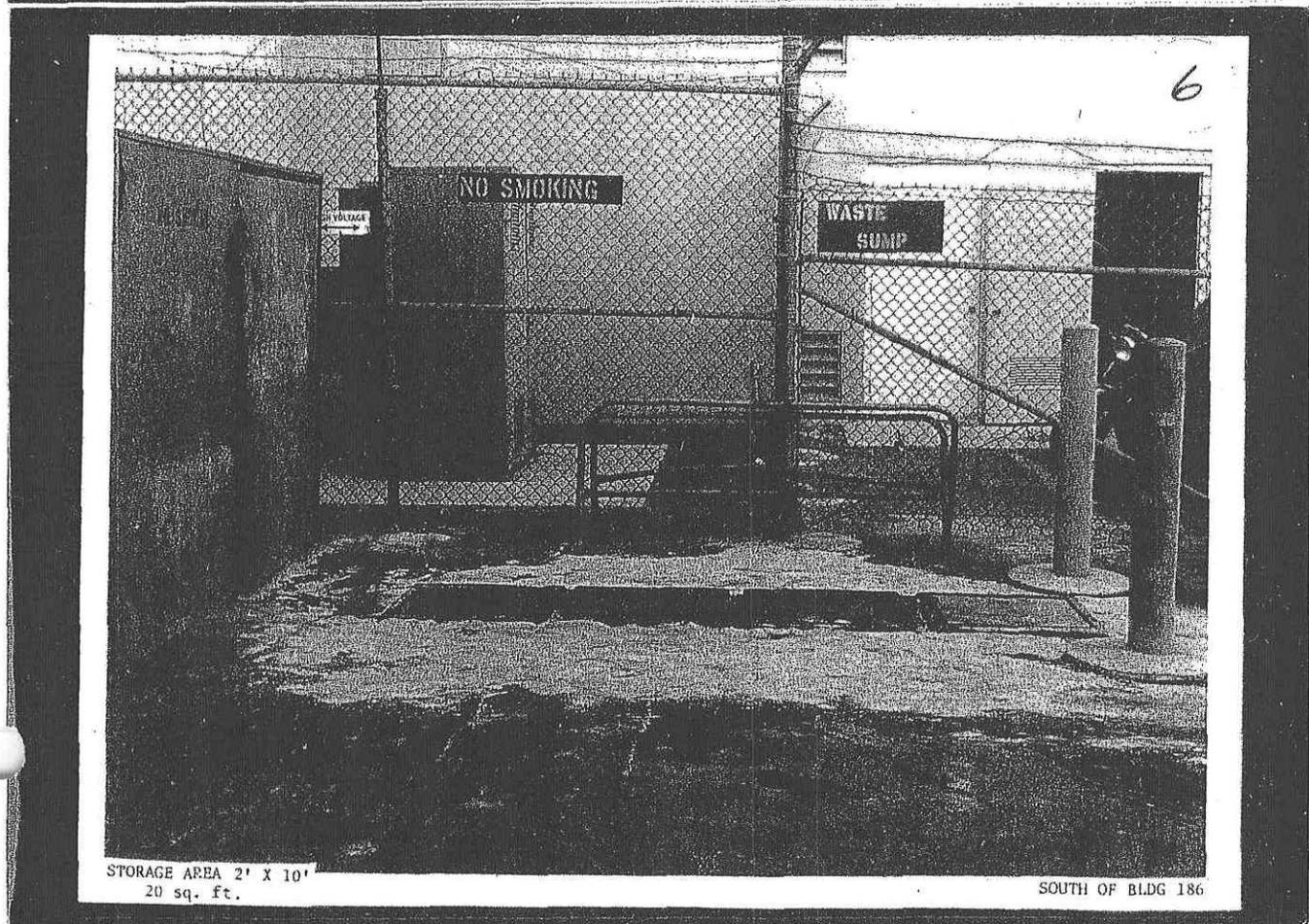
PREPARED BY: _____

PICTURE NUMBER	PHOTO DESCRIPTION/LOCATION	DATE	DAILY LOG NUMBER
1	Storage Area View Change - North of Bldg. 360 Facing North	12/8/80	
2	Storage Area 5076 S.F. Available - North of Bldg. 360 Facing East	12/8/80	
3	Storage Area 12' x 30' 360 sq. ft. - West of Bldg. 29	10/29/80	
4	Cash Crew Training Pit 50' Dia 1963 sq. ft. - East of Bldg. 23A	10/28/80	
5	Storage Area 4' x 30' 120 sq. ft. - East of Bldg. 359	10/29/80	
6	Storage Area 2' x 10' 20 sq. ft. - South of Bldg. 186	10/28/80	
7	Storage Area 172 sq. ft. - South of Bldg. 187	10/28/80	
8	Storage Area 15' x 30' 450 sq. ft. - West of Bldg. 297	10/29/80	
9	Storage Area 5' x 10' 50 sq. ft. - West of Bldg. 297	10/29/80	
10	Storage Area 15' x 80' 120 sq. ft. - East of Bldg. 155	10/29/80	
11	Storage Area 12' x 30' 360 sq. ft. - East of Bldg. 672	10/29/80	
12	Storage Area 14' x 20' / 12' x 6' 352 sq. ft. - West of Bldg. 297	10/29/80	
13	Storage Area 18' x 40' 720 sq. ft. - West of Bldg. 297	10/29/80	
14	Storage Area 4' x 4' 16 sq. ft. - West of Bldg. 297	10/29/80	
15	Storage Area 5' x 10' 50 sq. ft. - North of Bldg. 386	10/29/80	
16	Storage Area 25' x 30' 600 sq. ft. - West of Bldg. 29	10/29/80	



STORAGE AREA 4' X 30'
120 sq. ft.

EAST OF BLDG 359



STORAGE AREA 2' X 10'
20 sq. ft.

SOUTH OF BLDG 186

CLEAR TOPPER

SOUTHWESTNAVFACENGCOM
CODE 06CC.LMH
SAN DIEGO, CA 92101

Extracts from MCAF Tustin Documents

**EXTRACT FROM 1994 BUILDING GUIDE
MCAS TUSTIN**

Page No. 3
14/94

MCAS TUSTIN BUILDING GUIDE

FAC NO.	MAP GRID	DESCRIPTION	TENANT	CAT CODE NUMB	COST ACCT CODE	SIZE
143	B3	Barbeque Pit	MWR-Rec	75057		1 EA
144	B3	Volleyball Court	MWR-Rec	75010		1 EA
145	B3	Basketball Court	MWR-Rec	75010		1 EA
146	B3	Barbeque Hut	MWR-Rec	75057		1 EA
148	B3	Soccer Field	MWR-Rec	75020		1 EA
149	E7	Vehicle Grease Rack	MWSS-374	21456		517 SF
150	B3	Racquetball Court	MWR-Rec	75010		1 EA
159	C2	Bowling Center	MWR-Rec	74040		5640 SF
160	D3	Basketball/Volleyball Ct	MWR-Rec	75010		1 EA
161	D4	Applied Instruction	NAMTRADET	17120		13980 SF
162	B3	Public Toilet @ Playground	MWR-Rec	73075		245 SF
163	B3	Public Toilet @ Ftball Field	MWR-Rec	73075		245 SF
164	B2	Combat Training Pool/Tank	Training	17955		1 EA
165	C3	Convenience Food Str #4	MWR-Retail	74001		7520 SF
166	C3	Retail Store	MWR-Retail	74001		9600 SF
167	C3	Exchange Cafeteria	MWR-Retail	74004		1800 SF
168	C3	Retail/Services Outlets	MWR-Retail	74009		3200 SF
169	B5	Acft Ready Fuel Storage	Supply	12430		203644 GA
170	B5	Acft Ready Fuel Storage	Supply	12430		203756 GA
171	D5	Aircraft Operational Bldg	S-3	14140		6065 SF
171	D5	Control Tower	S-3	14170		1963 SF
172	F2	Bulk Fuel	MWSS-374	41184		2520 SF
173	C4	Applied Instruction	NAMTRADET	17120		26000 SF
174	E7	Welding Shop	MALS-16	21106		1240 SF
175	E7	Parts Storage	MALS-16	21106		384 SF
176	F2	EMF, EOD	MWSS-374	61072		9760 SF
177	D2	Bachelor Enlisted Quarters	Billeting	72111		23052 SF
178	D4	Line Maintenance Shack	HMH-163	21115		1400 SF
179	D4	Line Maintenance Shack	HMH-363	21115		1050 SF
180	F6	Line Maintenance Shack	HMM-166	21115		1050 SF
181	F6	Line Maintenance Shack	MAG-16	21115		1400 SF
182	F7	Line Maintenance Shack	MAG-16	21115		1050 SF
183	D5	Comb Fire/Rescue Station	S-3	14125		6827 SF
184	D3	Enlisted Mess Hall	Food Serv	72210		22007 SF
185	D3	Hobby Shop Automotive	MWR-Rec	74038		5808 SF
186	E7	FMF Auto Org Shop	MWSS-374	21451		10765 SF
187	E7	Paint & Blasting Shop	MWSS-374	21451		1200 SF
189	C3	Flower Shop	MWR-Retail	74009		1080 SF
190	F8	Maint Hangar OH Space	MALS-16	21105		16250 SF
190	F8	Maint Hangar O1 Space	MALS-16	21106		12366 SF
190	F8	Maint Hangar O2 Space	MALS-16	21107		5232 SF
190	F8	Storage out of Stores	MALS-16	44112		4952 SF
190	F8	Avionics Shop	MALS-16	21145		4018 SF
190	F8	Snack Bar #1	MWR-Hosp	74004		0
191	E3	Acft Direct Fueling Sta	Supply	12110		2 OL
192	E3	Acft Direct Fueling Sta	Supply	12110		2 OL
193	F3	Acft Direct Fueling Sta	Supply	12110		2 OL
194	E3	Day Tank	Supply	12430		58818 GA

EXTRACTS

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

BASE REALIGNMENT AND CLOSURE BUSINESS PLAN MARINE CORPS AIR STATION TUSTIN, CALIFORNIA

2000 IN REVIEW

February 2001

Table 1 (continued)

Parcel No.	Approx. On-Base Area (Acres) ^a	Reuse Priority	Community Use Description/ Proposed Use	Known Sites						CERFA Eligible Property ^b
				AST	UST	AOC	IRP	Buildings		
27	99.7	High	Golf Village	186 (SAT-8)	186A, 186B, 186C, 186D	AMBP-1, AMS-11, AS-6, MAE-5 (formerly ST-73), MAW-9, MAW-11, MGR-2 (Bldg. 149), MMS-1, MMS-6, MMS-8, MWA-7 Bldg. 233), MWA-8, ST-16A (Bldg. 590), ST-16B, ST-18B, ST-18C, <u>ST-19</u> , ST-20A (Bldg. 596), ST-20B, ST-84 (Bldg. 29), ST-87 (Bldg. 186), <u>TOW-08A</u> , <u>TOW-08B</u> , TOW-X5	3, 5N, 5S(a)	29, 39, 149, <u>186</u> , 187, 233, 303, 562, 590, 596	Portion	
28	67.1	High	Golf Village	540A (SAT-12), 540B (SAT-12)	None	DLF-1, MCD-1, STD-2 (formerly ST-53, Bldg. 23A), STD-3A (formerly ST-57A, Bldg. 567), STD-3B (formerly ST-57B), TR-1A, TR-1B (Bldg. 541), TR-1C (Bldg. 542), TR-1D	1	23A, 23B, 541, 542, 567	Portion	
29	67.3	High	Golf Village	None	23C	AS-3A (Bldg. 23F), AS-3B (Bldg. 23D), AS-3C (Bldg. 23E), MAW-8, OCY-1, ST-81 (Bldg. 23C)	None	10P, 23C, 23D, 23E, 23F, 6168	Portion	
30	5	Medium	Parks	None	None	None	None	None	All	
31	10	Medium	Elementary School	None	None	None	None	None	All	
32	5	High	Parks	None	None	AMS-5	None	None	All	
33	25.3	High	Medium High-Density Residential	24C	None	None	None	None	Portion	
34	37.8	High	Residential/ Emergency Shelter and transitional housing for individuals and families.	None	None	MRR-1	2	6480, 6877, 6878, 6879, 6880, Housing	None	
35	67.7	High	Residential/ Emergency Shelter and transitional housing for individuals and families.	None	None	MCD-3	None	215, 6873, 6874, 6875, 6876, Housing	All	
36	21.6	High	Residential	None	None	None	None	Housing	All	
37	45.4	High	Residential/Transitional housing for homeless families	None	None	None	None	6857, Housing	All	
38	8.8	High	Public Park/Marble Mountain Road	None	None	None	None	3003T	All	

(table continues)

Table 3 (continued)

Site	Parcel Number	Description/Location	Waste Characteristics Materials/ Contaminants	Date of Operation	Program	Status	Status Summary	Regulatory Concurrence Received	Area Type*
ST-18 (A-C)	40 (ST-18A)	Inactive unit ST-18A (Bldg. 589) was located west of Bldgs. 186 and 187 and was operated by MWSS-374 for temporary storage (less than 90 days) of hazardous waste. This unit was constructed in 1991. Drums containing hazardous waste were located on a 17- by 21-foot, fenced concrete pad (with a sump) within a 6-inch containment berm. The integrity of the unit appeared good. Prior to construction of ST-18A, a former storage area (ST-18B) consisting of a plastic liner and a sandbag berm was located at the east edge of Bldg. 186. In 1995, the ST-18B was being used as a welding shop and scrap metal storage area. During closure activities, the RAC contractor also investigated a paved area located east of Bldg. 186 in the corner of the lot (ST-18C). Stored wastes formerly included contaminated absorbent oil, used fuel oil, used antifreeze, filters, and oily rags.	None	1991-1999	RCRA	ST-18A: Closure by RAC under RCRA	Complete	Letter (4/21/00)	1 (18A)
	Closure report: NFA recommended					Complete	4 (18B)		
	NFA concurrence					Complete			
	ST-18B: Closure by RAC under RCRA					Complete	1 (18C)		
						Closure report: NFA recommended	In progress		
						ST-18C: Closure by RAC under RCRA	Complete		
						Closure report for ST-18C: NFA recommended	Complete		
						NFA concurrence	Complete	Letter (9/24/99)	
ST-19	27	This inactive unit (south of Bldg. 186) was a waste oil drum storage area for a vehicle grease rack (MGR-02) with a 1,000-gallon AST (No. 186 [SAT-8], removed). The unit was operated by MWSS-374 for temporary storage (less than 90 days) of hazardous waste. Until 1989, vehicle oil changes were conducted on the rack. After 1989, oil changes took place next to the rack. Absorbents to contain spills surrounded this unit.	None	Rack 1960-1999	RCRA	Closure by RAC under RCRA	Complete		6
						Closure report: NFA recommended	In progress		
ST-20 (A, B)	27	Inactive unit ST-20A (Bldg. 596) consists of the former hazardous material storage area and a steel locker behind Bldg. 186. Inactive unit ST-20B was a former hazardous materials storage area immediately southwest of the steel locker. Both units were operated by MWSS-374. Storage facility ST-20A was built in 1992 and consisted of	None	Unknown-1998	RCRA	Closure by RAC under RCRA	Complete		6
						Closure report: NFA recommended	In progress		

(table continues)

Table 3 (continued)

Site	Parcel Number	Description/Location	Waste Characteristics Materials/ Contaminants	Date of Operation	Program	Status	Status Summary	Regulatory Concurrence Received	Area Type*
TOW-6 (continued)		prior to off-site disposal (UST-508 [SI-2A]). The system was equipped with an alarm to warn of overflow into the sanitary sewer system. Prior to construction of TOW-6, a Type B O/W SEP was used. Waste oil was kept in the separator for later disposal while the wastewater was discharged directly to a storm drain.							
TOW-7	15, 40	Removed underground O/W SEP-551 was located near Bldgs. 551 and 181. The 200-gallon steel tank was constructed in 1989 and was used for separating oil and wastewater generated at adjacent wash area MWA-6 (Bldg. 551). The O/W SEP was connected to a 100-gallon UST (UST-181, removed) for storage of separated waste oil prior to off-site disposal. The system was equipped with a high/low alarm to warn of overflow into the sanitary sewer. Prior to construction of TOW-7, an old sand trap O/W SEP was used.	Oily wastes/ detergents	1989-1997	RCRA	Removed (6/97)	Complete		4
						Closure report. NFA recommended	Complete		
						NFA concurrence	Complete	Letter (11/16/00)	
TOW-8 (A, B)	27	Removed underground 390-gallon three-stage concrete O/W SEPs (SEP-186 [1] and 186[2]) were located near Bldg. 186 and were used by MWSS-374. TOW-8A (SEP-186[1]) discharged to TOW-8B (SEP-186[2]) located south of Bldg. 186. TOW-8B discharged to the sanitary sewer. Runoff did not enter the second O/W SEP unless the water source for 186[1] triggered the electric valves. An underground waste oil tank (UST-186D) was associated with 186[2].	Oily wastes/ detergents	1970-1999	RCRA	Closure by RAC under RCRA	Complete		4
						Closure report: NFA recommended	Complete		
						NFA concurrence	Complete	Letter (4/21/00)	
TOW-09A	12	Removed underground 450-gallon steel O/W SEP (SEP-273, also known as SI-3B) was located northeast of Bldg. 273 and was used by MALS-16. TOW-9A was used for separating oil and wastewater generated during cleaning of aircraft engine test cell equipment at adjacent wash area MWA-10 (Bldg. 231). Oily water with detergents and possibly solvents were generated from cleaning operations at the adjacent wash area. The O/W SEP was connected to a 550-gallon, double-walled UST (UST-273, also known as SI-3A) for temporary storage of separated waste oil prior to disposal. The system was equipped with a	Cleaners, fuels, oils, and test cell cooling water	1985-1999	RCRA	Closure by RAC under RCRA	Complete		5
						Closure report. NFA recommended	In progress		

(table continues)

M60050.002787
MCAS EL TORO
SSIC # 5090.3

APPENDIX
EXTRACTS FROM EL TORO BUSINESS PLAN
(PUBLISHED MARCH 2001)

SUMMARY REPORT
PHANTOM DRUM STORAGE AREA
SOLID WASTE MANAGEMENT UNIT (SWMU) 55

DATED JANUARY 2002

United States Marine Corps

Base Realignment and Closure Business Plan

EXTRACTS

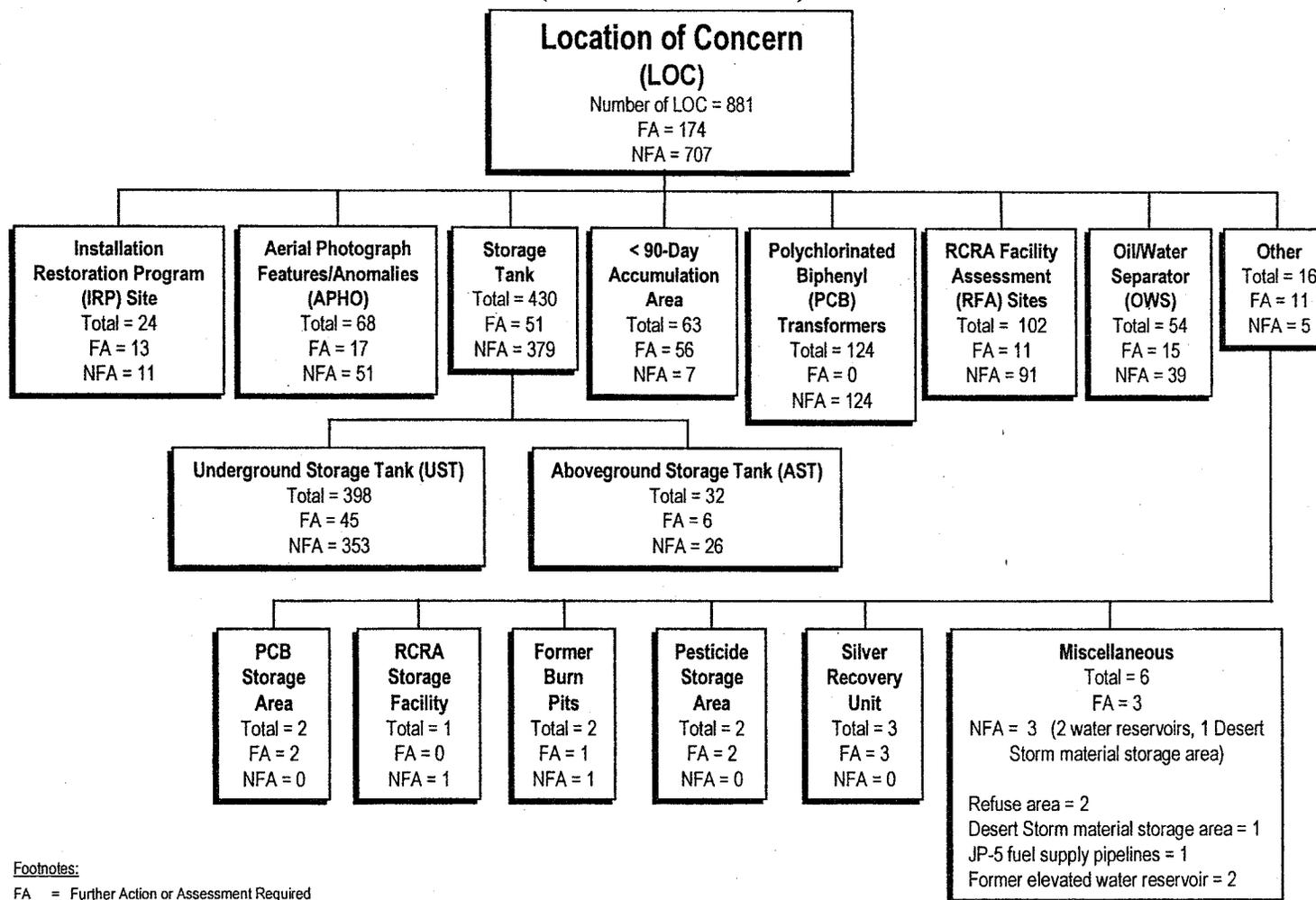
Annotations made by the writer of the
Summary Report are identified with a
star symbol or an arrow.



For
**Marine Corps Air Station
El Toro, CA**

March 2001

**Exhibit 2 - Location of Concern Distribution
(as of 31 December 2000)**



Footnotes:

FA = Further Action or Assessment Required
NFA = No Further Action Required

**Table 2
Site Summary**

(Sheet 37 of 43)

Database Tracking	Reuse Parcel	Description	Material Disposed	Date of Operation	Status	Regulatory Mechanism	NFA	NFA Date	Comments	ECP Area Type	Approx. ECP Area (acres)
RFA 32	9B	Drum storage area			Not Located During RFA		X			1	0.18
RFA 35	11A	< 90-day accumulation area			Not Located During RFA		X			1	0.18
RFA 40	12B	Drum storage area			Not Located During RFA		X			1	0.18
RFA 41	12B	Vehicle wash rack					X			3	0.18
RFA 43	12B	Drum storage area			Not Located During RFA		X			1	0.18
RFA 44	12B	Drum storage area			Not Located During RFA		X			1	0.18
RFA 46	13E	Vehicle Maintenance and Parking / DRMO			Closed		X	8/10/99		4	0.18
RFA 47	3A	< 90-day accumulation area			Not Located During RFA		X			1	0.18
RFA 50	9B	Drum storage area			Not Located During RFA		X			1	0.18
RFA 55	9B	Drum storage area			Not Located During RFA		X			1	0.18
RFA 56	9B	Drum storage area			Not Located During RFA		X			1	0.18
RFA 69	9B	Drum storage area			Not Located During RFA		X			1	0.18
RFA 71	11A	< 90-day accumulation area			NFA	DTSC	X	1/27/00		4	0.18
RFA 72	8	< 90-day accumulation area			FA					6	0.18
RFA 74	11A	Aircraft wash area					X			1	0.18
RFA 78	11A	Drum storage area			Not Located During RFA		X			1	0.18
RFA 79	11A	Drum storage area			Not Located During RFA		X			1	0.18
RFA 80	11A	Drum storage area			Not Located During RFA		X			1	0.18
RFA 81	11A	Drum storage area			Not Located During RFA		X			1	0.18
RFA 82	11A	Drum storage area			Not Located During RFA		X			1	0.18
RFA 88	11A	PCB storage area			FA					5	0.18
RFA 89	11A	Drum storage area			Not Located During RFA		X			1	0.18
RFA 94	10A	< 90-day accumulation area			NFA	DTSC	X	10/7/99		3	0.18
RFA 95	11A	Engine test cell					X			3	0.18
RFA 96	12H	Drum storage area			Not Located During RFA		X			1	0.18
RFA 98	13F	Vehicle wash rack					X			1	0.18
RFA 100	13F	TCE degreaser					X			3	0.18
RFA 103	13F	Drum storage area			Not Located During RFA		X			1	0.18

SOUTHWESTNAVFACENGCOM
CODE 06CC.LMH
SAN DIEGO, CA 92101

Extracts from Property Records, Building Guides, and Facility Maps

#	CARD NO.	DESCRIPTION	YR BLT	GATE CODE	AREA	COST	REMARKS	DISP DATE
184	2-00075	FUEL STORAGE TANK	1943	124-90	25000 GA	5,420	Disposition	1965 SEP
185	2-00076	"	1943	124-90	50000 GA	7,420	"	1965 SEP
186	2-00077	"	1943	124-90	50000 GA	7,420	"	1965 SEP
187	2-00079	"	1943	124-90	50000 GA	7,420	"	1965 SEP
		TANK	1943	124-50	25000 GA	5,420	Demolition	1970 JUN
		"	1943	124-50	50000 GA	7,420	"	1970 JUN
		"	1943	124-50	25000 GA	5,420	"	1970 JUN
		"	1943	124-50	50000 GA	7,420	"	1970 JUN
194	2-00086	"	1943	124-50	50000 GA	7,420	"	1970 JUN
195	2-00087	"	1943	124-50	25000 GA	5,420	"	1970 JUN
219	2-00110	FUEL OIL	1943	124-90	50000 GA	14,520	"	1970 APR
220	2-00111	"	1943	124-90	25000 GA	10,490	"	1970 APR
221	2-00112	DIESEL FUEL TANK	1943	124-50	25000 GA	10,490	"	1970 APR
224	2-00313	ADMIN/ARMORY	1943	610-90 171-30	2128 SF	5,350	Demolition - STA	1959 FEB
225	2-00314	LIGHT GUN SHOP	1943	215-20	4800 SF	3,933	Demolition	1959 MAR
226	2-00315	STOREHOUSE	1943	442-10	835 SF	1,500	"	1959 MAR
227	2-00316	INSURANCE APPL	1943	171-20	1044 SF	1,200	"	1959 MAR
228	2-00319	ADMIN	1943	610-90	380 SF	1,250	"	1965 OCT
229	2-00234	STORAGE	1943	442-90	88 SF	1,042	"	1959 JAN
232	2-00716	LEFT BY CONTRACTOR ADMIN	1942	610-10	640 SF	2,240	"	1959 JAN
233	2-00717	STORAGE BATH	1945	442-90	64 SF	50	"	1959 JAN
234	NONE	STORAGE	1943	NONE	1670			
235	"	BORE SIGHT RANGE		"				
236	2-00290	SHEET RANGE	1943	NONE	900' LG	2,500	SENT TO SALVAGE COFF CANCELLED STEEL COURSE	1947 JUN
237	2-00566	STORAGE SHED	WA 360 CONTRACTOR SHARP		98 SF	150	DISP LOSS BY INVENT.	1949 AUG
252	2-00252	BOO (PHE BOO)	1944	NONE	7128 SF	27,054	Demolition	1948 MAR
253	2-00253	PUBLIC OPS, ET.	1945	711-12	8576 SF	67,599	"	1961 APR

PROPERTY RECORD IDENTIFIES
STRUCTURE 186 AS AN UNDERGROUND
STORAGE TANK.

DISPOSAL RECORD

Air Station, 21st MC, El Toro (Santa Ana), Orange, Calif. 1st Buller
 (Name) (City) (County) (State of California) (County) (City)

CATEGORY USE				TYPE OF CONSTRUCTION <input checked="" type="checkbox"/> PERM. <input type="checkbox"/> SEMI-PERM. <input type="checkbox"/> TEMP.			CARD NO. <i>2 00077</i>	
DESCRIPTION <i>Operating Fuel Storage Tank</i>		CODE <i>12401</i>		STATUS			BUREAU CODE <i>1</i> DISTRICT <i>11</i>	
AREA	SYMBOL	QUANTITY		GENE	IN-LEASED	OTHER	FOREIGN COUNTRY, STATE OR TERR. CODE <i>04</i>	
UNIT	SYMBOL <i>Ca</i>	QUANTITY <i>50,000</i>		<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	COUNTY CODE (U.S. only) <i>059</i>	
STRUCTURE				STRUCTURE				
LENGTH (ft.)	WIDTH (ft.)	HEIGHT (ft.)	CAPACITY	IN USE	NOT IN USE			
<i>23 dia</i>	<i>=</i>	<i>8</i>	<i>50,000 gal</i>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2			
UTILIZATION				CONDITION				
				USABLE	UNUSABLE			
				<input checked="" type="checkbox"/> U	<input type="checkbox"/> N			
OUT-GRANTED TO		CATEGORY AREA		BUILT ON LAND				
		Symbol	Quantity	GOVERNED	LEASED	CHIEF		
<i>Other Govt Agen (1)</i>				<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3		
<i>State, Local Govt (2)</i>				LABEL CATEGORY (CODE) <i>91101</i>				
<i>Privt Enterprises (3)</i>				MATERIAL CODE <i>75 1100</i>				
ANNUAL RENTAL RECEIVED		ANNUAL RENTAL PAID (In-leased)		FOUNDATION	EXT. WALLS	ROOF		
				<i>e</i>	<i>e</i>	<i>e</i>		
EST. REPLACEMENT COST		EST. LIFE		TOTAL COST (or approx)				
		<i>A. 50 years</i>		<i>7420.00</i>				
				STRUCTURE # <i>186</i>		DATE OF CARD <i>26 June 55</i>		
				DATE OF LAST INV <i>June 54</i>		SURVEY DATE		

NAVCOMP FORM 267 (4-54)

MAJOR CONSTRUCTION BY				METHOD & DATE OF ACQUISITION (if other than construction)	
CONTRACT #	TYPE OF CONTRACT	YARD LABOR	SPECIFICATION #		
<i>NO 75421</i>	<i>CP 77</i>	J.O. #	<i>None</i>		
YARDS & DOCKS DRAWING # <i>207421</i>			CONTRACTOR NAME & ADDRESS (City & State) <i>J. de Bannes Santa Monica</i>		

REMARKS

6/10/65 - Survey Report typed. Ref: CG MCAS El Toro spdltr 40:42:dm 11162 of 22 Mar 1965 to BUWEPs. BUWEPs ltr SMC-24/2800:JJM of 17 May 1965 to CG MCAS El Toro approved decommissioning of tanks. Survey Report signed and dtd 6/11/65.

** Formal Survey # P-5-66 dtd 8/31/65 & approved 9/13/65 forwarded to SWDD on 09/65 Transmittal*

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

★ Property record for UST 186.

MEMORANDUM

11000

1JP.40

Date: 7 July 1989

EXTRACTS

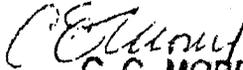
From: Director, Facilities Management Department
To: DISTRIBUTION

Subj: FY 1989 BUILDING GUIDES

Encl: (1) MCAS El Toro Building Guide
(2) MCAS Tustin Building Guide
(3) MCAS Camp Pendleton Building Guide
(4) Big Bear Building Guide

1. Enclosures (1) through (4) contain current data for all numbered Class II real property at MCAS El Toro, MCAS Tustin, MCAS Camp Pendleton, and Big Bear. The enclosures will be the official reference for use in preparing routine job orders and other documents requiring cost account codes, category codes, or building descriptions.

2. Any changes to the enclosures resulting from field investigations should be reported to the Planning Office, extension 6585. Additional building guides will be provided upon request, with a complete revision to be issued quarterly.


C. C. MORELL
By direction

DISTRIBUTION:

MCAS A

ICC

IDA

1JA List A, B

MCAS Tustin: 50 copies

MCAS Camp Pendleton: 50 copies

MCAS EL TORO BUILDING GUIDE

BUILDING NO.	MAP GRID	DESCRIPTION	TENANT	CAT CODE NUMB	COST ACCOUNT CODE	U S E
174	T7	Storage Tank/Potable Water	FMD	84140	76FO	
175	T6	Storage Tank/Potable Water	FMD	84140	76FO	
176	R4	ACFT Ready Fuel Storage-VACANT	FMD	12430	75AO	
177	R4	ACFT Ready Fuel Storage-VACANT	FMD	12430	75AO	
178	R4	ACFT Ready Fuel Storage-VACANT	FMD	12430	75AO	
179	R4	ACFT Ready Fuel Storage-VACANT	FMD	12430	75AO	
180	R4	Heating Fuel Storage-VACANT	FMD	82160	7640	
181	R4	Heating Fuel Storage-VACANT	FMD	82160	7640	
182	R4	Heating Fuel Storage-VACANT	FMD	82160	7640	
183	R4	Heating Fuel Storage-VACANT	FMD	82160	7640	
189	O4	Heating Fuel Storage	Supply	82160	7640	
191	O4	Heating Fuel Storage	Supply	82160	7640	
196	N7	Heating Fuel Storage	Supply	82160	7640	
197	N7	Heating Fuel Storage	Supply	82160	7640	
198	N7	Heating Fuel Storage	Supply	82160	7640	
199	N7	Heating Fuel Storage	Supply	82160	7640	
200	M7	Ready Fuel Storage	Supply	12430	75AO	
201		Ready Fuel Storage	Supply	12430	75AO	
202		Ready Fuel Storage	Supply	12430	75AO	
203		Ready Fuel Storage	Supply	12430	75AO	
204		Ready Fuel Storage	Supply	82160	7640	
205		Ready Fuel Storage	Supply	82160	7640	
206		Storage Motor Gas Fuel	Supply	12450	75AO	
207	N10	Storage ACFT Ready Fuel	Supply	12450	75AO	
208	N10	Storage ACFT Ready Fuel	Supply	12430	75AO	
209	N10	Storage ACFT Ready Fuel	Supply	12430	75AO	
210	N10	ACFT Ready Fuel Storage	Supply	12430	75AO	
211	N10	Storage ACFT Ready Fuel	Supply	12430	75AO	
212	N10	ACFT Ready Fuel Storage	Supply	12430	75AO	
213	N10	ACFT Ready Fuel Storage	Supply	12430	75AO	
214	N10	ACFT Ready Fuel Storage	Supply	12430	75AO	
215	N10	ACFT Ready Fuel Storage	Supply	12430	75AO	
216	M7	Vehicle Ready Storage	Supply	12430	75AO	
217	M7	Vehicle Ready Storage	Supply	12430	75AO	
218	M7	Motor Gas Fuel Storage	Supply	12450	75AO	
222	N3	Storage Tank/Potable Water	FMD	84130	76FO	
240	R4	Contract Refueler Facility	Supply	44110	7140	
241	R4	MC Property Storage	Supply	73040		
242	S4	Storage out of Stores MC	MWSS-37	44112	7140	
242	S4	Storage Out Of Stores	AC/S G-4	44112	7140	
243	S4	Historical Ctr	AC/S G-4	61072	7160	
244	S5	Historical Collection	AC/S G-4	21820	7120	
245	E4	Construction Equip Maint	H&HS-37	21820	7120	
248	E3	Bachelor Officers Quarters	G-4	61010	7160	
249	S3	Bachelor Officers Quarters	G-4	72411	71A0	
250	S3	Bachelor Officers Quarters	G-4	72412	71A0	
251	S3	Conference Center	G-4	61010	7160	
256	Q4	Applied Instruction (AFTU)	AFTU	17120	7110	

NOTE:
 THE 1994 BUILDING GUIDE DOES NOT
 INCLUDE A BUILDING 186.

El Toro Building Guide

BLDG	GRI	DESCRIPTION	TENANT	CATCO	CAC	SIZE
121	N8	Maint Hangar O1 Space	HMM-268	21106	EBVO	2000 SF
122	N9	Maint Hangar 01 Space	HMM-161	21106	EBVO	5340 SF
122	N9	Maint Hangar 02 Space	HMM-161	21107	EBVO	900 SF
123	N9	Maint Hangar 01 Space	HMM-161	21106	EBVO	1190 SF
123	N9	Maint Hangar 02 Space	HMM-161	21107	EBVO	5050 SF
124	N9	Maint Hangar 01 Space	HMM-163	21106	EBVO	5840 SF
124	N9	(Snack Bar #14)	Vacant	74005	EBLO	400 SF
125	N9	Maint Hangar 01 Space	HMM-163	21106	EBVO	4224 SF
126	N9	Maint Hangar 02 Space	HMM-163	21109	EBVO	4224 SF
127	N9	Tire Storage Paint	MALS-11	44112	EBDO	4026 SF
129	M9	Aviation Armament	MALS-11	21154	EBVO	3900 SF
130	M9	Aviation Paint Area	MALS-11	21106	EBVO	2906 SF
131	M9	Storage	MALS-11	44112	EBDO	6240 SF
132	M9	Aviation Armament Shop	MALS-11	21154	EBVO	6240 SF
133	M9	Office/Training Facility	PMO			3390 SF
134	M8	Hangar Maint Admin	HMM-268	21107	EBVO	6240 SF
135	M8	(EM Mess)	Vacant	72210	EBHO	6240 SF
136	M8	NBC Storage	MAG-11	44112	EBDO	6240 SF
137	M8	Academic Instruction	MATCS-38(17110	EBAO	3120 SF
137	M8	Storage	MAG-11	44112	EBDO	3120 SF
138	M7	Electronics Maint Div	Sta/G-6	21710	EBBO	6240 SF
139	M7	3rd MAW Embark	3rd MAW	44112	EBDO	6240 SF
142	N9	Hazardous/Flam Storage	MALS-11	44130	EBDO	640 SF
146	P3	Standby Generator Bldg	Installation	81159	EAAO	360 SF
147	N4	Post Office Boxes Bldg	CSSD-14	73085	EBLO	829 SF
152	Q3	Grnds Equip Shed	Installation	21920	EBBO	112 SF
155	T6	Grnds Equip Shed	Installation	21920	EBBO	260 SF
156	T6	Storage Tank/Potable Water	Installation	84140	EAQO	10000
163	Q12	(Inert Storehouse)	Vacant	42132	EBDO	1250 SF
164	Q12	(Inert Storehouse)	Vacant	42132	EBDO	1250 SF
165	R12	Haz/Flam Storage (AVN Sup)	MALS-11	44130	EBDO	1250 SF
166	R11	(Inert Storehouse)	Vacant	42132	EBDO	1250 SF
167	S11	(Inert Storehouse)	Vacant	42132	EBDO	1250 SF
169	R12	NBC Storage	MALS-11	44112	EBDO	140 SF
170	Q13	(Inert Storehouse)	Vacant	42132	EBDO	1250 SF
171	Q13	(Inert Storehouse)	Vacant	42132	EBDO	140 SF
172	P13	(Inert Storehouse)	Vacant	42132	EBDO	1250 SF
174	T7	Storage Tank/Potable Water	Installation	84140	EAQO	1000000
175	T6	Storage Tank/Potable Water	Installation	84140	EAQO	1000000
189	O4	Waste Oil Storage	Supply	41182	ECJO	50000
191	O4	Waste Oil Storage	InactiveSupp	41182	ECJO	25000
206			Supply	12450	ECJO	50000
			Supply	12450	ECJO	50000
			HMM-163	21931	EBBO	78 SF
			HMM-163	21931	EBBO	78 SF
			EOD	44110	EBDO	2000 SF

NOTE:
THE 1997 BUILDING GUIDE DOES NOT
INCLUDE A BUILDING 186.

NUMBER	STRUCTURE DESIGNATION		CONSTRUCTION				SIZE AND CAPACITY							YEAR BUILT
	USE	LOCATION	TYPE	MATERIAL			LENGTH	WIDTH	HEIGHT	NO. OF STORIES	FLOOR SPACE (SQ FT)			
				FOUNDATION	SUPER-STRUCTURE	ROOF					IN USE	NOT IN USE	TOTAL	
32	Bachelor Officers' Quarters	A7	SP	CR	W	OG	139	30	23	2			6,552	1943
33	" " "	"	"	"	"	"	"	"	"	"			"	"
34	" " "	"	"	"	"	"	"	"	"	"			"	"
35	" " "	"	"	"	"	"	"	"	"	"			"	"
36	" " "	"	"	"	"	"	"	"	"	"			"	"
37	" " "	"	"	"	"	"	"	"	"	"			"	"
38	Officers' Club	"	"	"	"	"	120	110	14	1			5,978	"
39	Officers' Mess and Club	"	"	"	"	"	"	120	"	"			7,927	"
247	Bachelor Officers' Quarters	"	"	"	UW	"	144	32	22	2			7,128	1944
248	" " "	"	"	"	"	"	"	"	"	"			"	"
249	" " "	"	"	"	"	"	"	"	"	"			"	"
250	" " "	"	"	"	"	"	"	"	"	"			"	"
251	Officers' Mess	"	"	"	"	"				1				
F133	Rad Safe Vault	"	P										5,000	
375	Bachelor Officers' Quarters	A8	"										22,500	
F36	Officers' Club	"	"										115	
375A	Sewage Lift Station	"	"											
336	Sentry House	A9	SP	C	W	OW	12	6	8	1			59	1945
358	Booster Pumphouse MHD	A10	P	CR	G	AG	38	21	14	"			908	1951
28	Storehouse	B7	SP	"	W	GO	160	39	14	"			6,023	1943
29	"	"	"	"	"	"	"	"	"	"			5,968	"
30	Commissary	"	"	"	"	"	108	106	15	"			7,712	"
30A	Garbage House	"	"	"	UW	OW	16	12	9	"			192	1946
31	Storehouse	"	"	"	W	GO	160	39	14	"			6,023	1943
184	Gasoline Storage Tank	"	P	C	C	C	24 Dia.	8	-	-			-	"
185	" " "	"	"	"	"	"	33	"	"	-			-	"
186	" " "	"	"	"	"	"	"	"	"	-			-	"
187	" " "	"	"	"	"	"	"	"	"	-			-	"
224	Administration	"	T	QW	W	OW	88	30	13	1			1,908	"
225	Storehouse	"	SP	CR	"	"	160	"	"	"			4,550	"
226	"	"	T	W	"	"	53	16	11	"			790	"
227	"	"	"	QW	"	"	50	20	"	"			920	"
242	"	"	SP	CR	UW	GO	160	40	15	"			6,195	1944
243	Squadron Headquarters	"	"	"	"	"	112	80	11	"			3,800	"
245	Storehouse	"	"	"	"	"	160	40	15	"			6,125	"
246	Salvage Building	"	T	"	W	OW	120	20	13	"			1,677	"
351	Ordinance School	"	"	QW	"	"	116	28	12	"			2,825	"
F51	Hanger	B7	P										37,440	
153	Pump Pit - Irvine Company	C7	"	C	C	C	29	13	9	"			336	1944
244	Nose Hangar	"	SP	CR	UW	GO	122	80	32	1			9,760	"



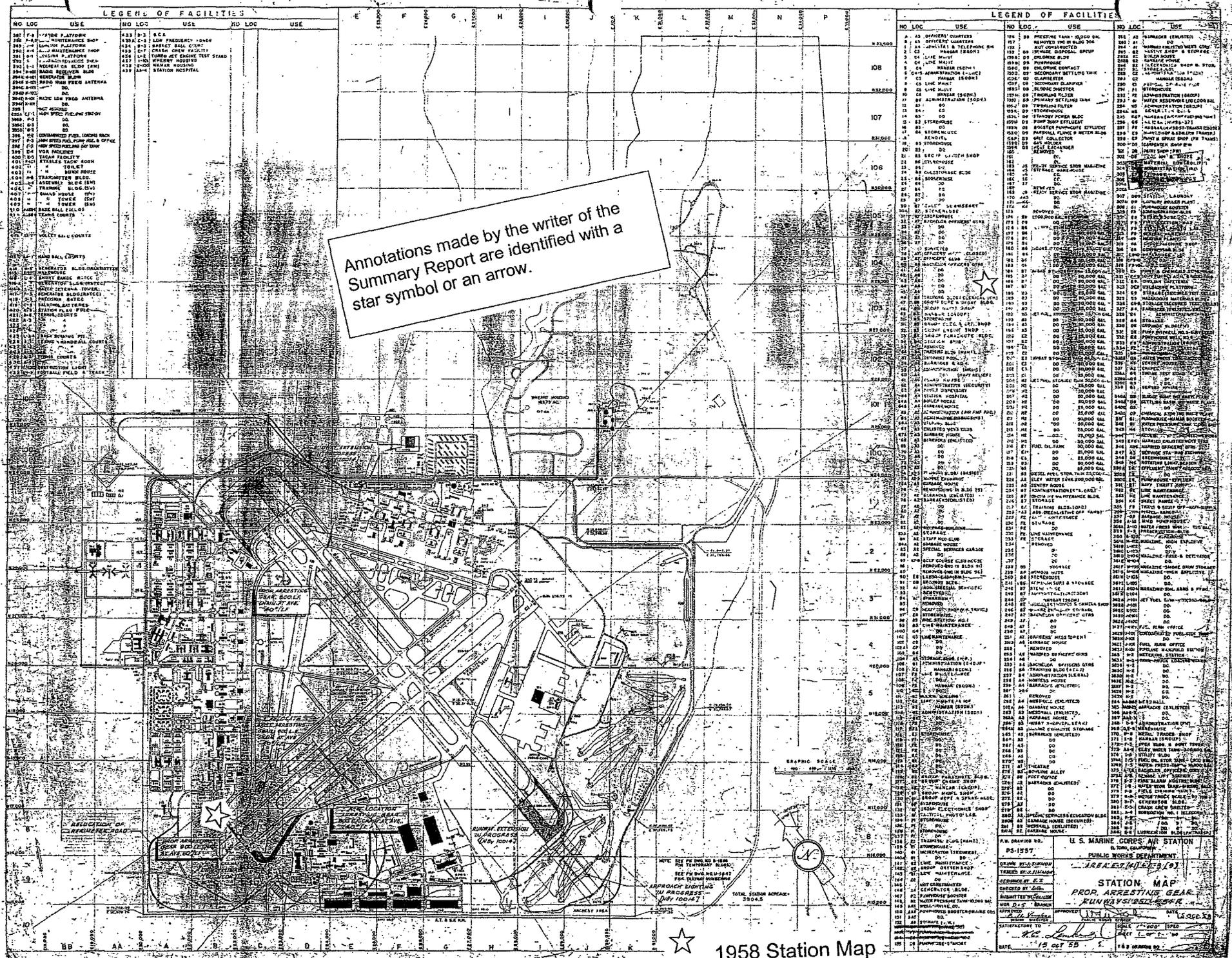
★ Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.

EXTRACTS

U. S. MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

MASTER SHORE STATION
DEVELOPMENT PLAN

PART IV - SECTION I
AREA DATA SHEET
AREA I - STRUCTURES

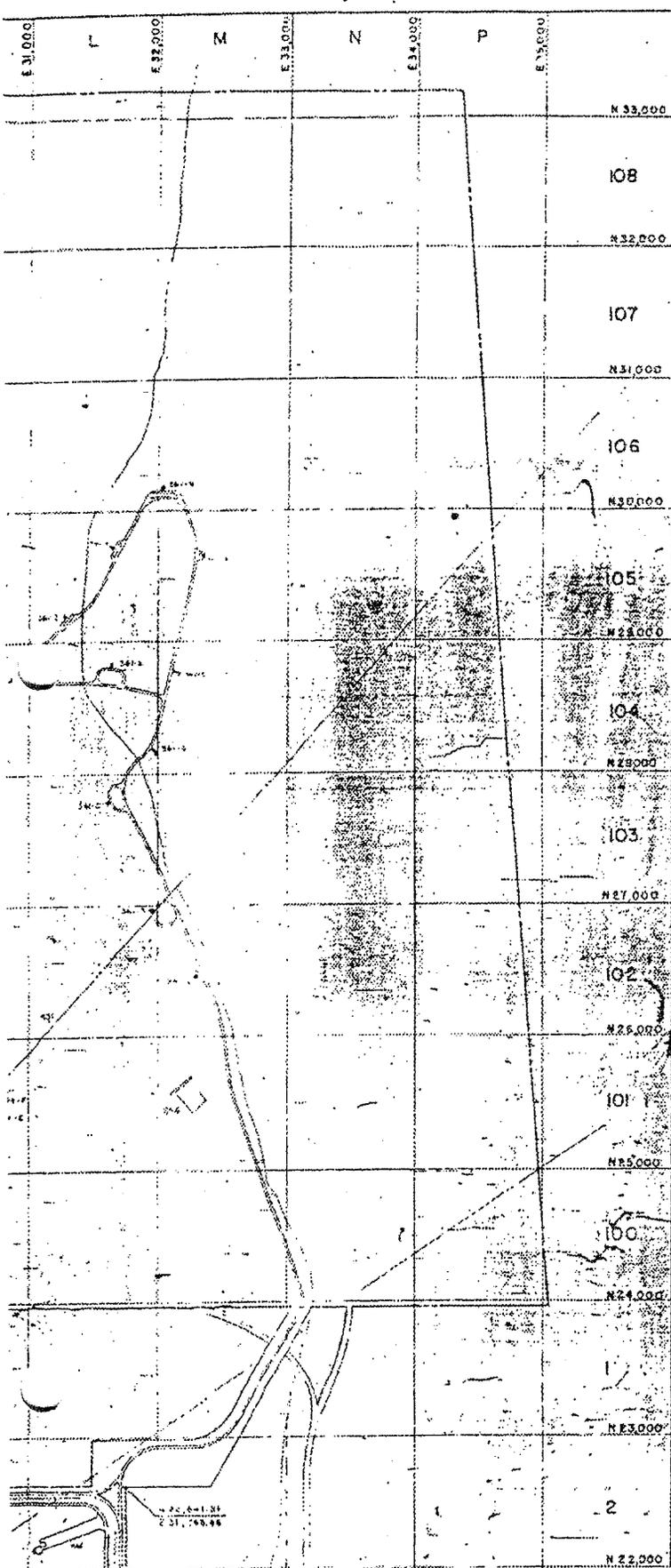


LEGEND OF FACILITIES

NO.	LOC.	USE	NO.	LOC.	USE	NO.	LOC.	USE
345	1-1	TRAIN PLATFORM	1033	1-3	REAR			
346	1-2	MAINTENANCE SHOP	1034	1-3	LOW FREQUENCY HOUSE			
347	1-3	TRAIN PLATFORM	1035	1-3	RAILWAY BALL COURT			
348	1-4	MAINTENANCE SHOP	1036	1-3	CRASH CREW FACILITY			
349	1-5	TRAIN PLATFORM	1037	1-3	TURBO DIE ENGINE TEST STAND			
350	1-6	MAINTENANCE SHOP	1038	1-3	WARRANT HOUSES			
351	1-7	TRAIN PLATFORM	1039	1-3	NEAR HOUSES			
352	1-8	MAINTENANCE SHOP	1040	1-3	STATION HOSPITAL			
353	1-9	TRAIN PLATFORM	1041	1-3				
354	1-10	MAINTENANCE SHOP	1042	1-3				
355	1-11	TRAIN PLATFORM	1043	1-3				
356	1-12	MAINTENANCE SHOP	1044	1-3				
357	1-13	TRAIN PLATFORM	1045	1-3				
358	1-14	MAINTENANCE SHOP	1046	1-3				
359	1-15	TRAIN PLATFORM	1047	1-3				
360	1-16	MAINTENANCE SHOP	1048	1-3				
361	1-17	TRAIN PLATFORM	1049	1-3				
362	1-18	MAINTENANCE SHOP	1050	1-3				
363	1-19	TRAIN PLATFORM	1051	1-3				
364	1-20	MAINTENANCE SHOP	1052	1-3				
365	1-21	TRAIN PLATFORM	1053	1-3				
366	1-22	MAINTENANCE SHOP	1054	1-3				
367	1-23	TRAIN PLATFORM	1055	1-3				
368	1-24	MAINTENANCE SHOP	1056	1-3				
369	1-25	TRAIN PLATFORM	1057	1-3				
370	1-26	MAINTENANCE SHOP	1058	1-3				
371	1-27	TRAIN PLATFORM	1059	1-3				
372	1-28	MAINTENANCE SHOP	1060	1-3				
373	1-29	TRAIN PLATFORM	1061	1-3				
374	1-30	MAINTENANCE SHOP	1062	1-3				
375	1-31	TRAIN PLATFORM	1063	1-3				
376	1-32	MAINTENANCE SHOP	1064	1-3				
377	1-33	TRAIN PLATFORM	1065	1-3				
378	1-34	MAINTENANCE SHOP	1066	1-3				
379	1-35	TRAIN PLATFORM	1067	1-3				
380	1-36	MAINTENANCE SHOP	1068	1-3				
381	1-37	TRAIN PLATFORM	1069	1-3				
382	1-38	MAINTENANCE SHOP	1070	1-3				
383	1-39	TRAIN PLATFORM	1071	1-3				
384	1-40	MAINTENANCE SHOP	1072	1-3				
385	1-41	TRAIN PLATFORM	1073	1-3				
386	1-42	MAINTENANCE SHOP	1074	1-3				
387	1-43	TRAIN PLATFORM	1075	1-3				
388	1-44	MAINTENANCE SHOP	1076	1-3				
389	1-45	TRAIN PLATFORM	1077	1-3				
390	1-46	MAINTENANCE SHOP	1078	1-3				
391	1-47	TRAIN PLATFORM	1079	1-3				
392	1-48	MAINTENANCE SHOP	1080	1-3				
393	1-49	TRAIN PLATFORM	1081	1-3				
394	1-50	MAINTENANCE SHOP	1082	1-3				
395	1-51	TRAIN PLATFORM	1083	1-3				
396	1-52	MAINTENANCE SHOP	1084	1-3				
397	1-53	TRAIN PLATFORM	1085	1-3				
398	1-54	MAINTENANCE SHOP	1086	1-3				
399	1-55	TRAIN PLATFORM	1087	1-3				
400	1-56	MAINTENANCE SHOP	1088	1-3				
401	1-57	TRAIN PLATFORM	1089	1-3				
402	1-58	MAINTENANCE SHOP	1090	1-3				
403	1-59	TRAIN PLATFORM	1091	1-3				
404	1-60	MAINTENANCE SHOP	1092	1-3				
405	1-61	TRAIN PLATFORM	1093	1-3				
406	1-62	MAINTENANCE SHOP	1094	1-3				
407	1-63	TRAIN PLATFORM	1095	1-3				
408	1-64	MAINTENANCE SHOP	1096	1-3				
409	1-65	TRAIN PLATFORM	1097	1-3				
410	1-66	MAINTENANCE SHOP	1098	1-3				
411	1-67	TRAIN PLATFORM	1099	1-3				
412	1-68	MAINTENANCE SHOP	1100	1-3				
413	1-69	TRAIN PLATFORM	1101	1-3				
414	1-70	MAINTENANCE SHOP	1102	1-3				
415	1-71	TRAIN PLATFORM	1103	1-3				
416	1-72	MAINTENANCE SHOP	1104	1-3				
417	1-73	TRAIN PLATFORM	1105	1-3				
418	1-74	MAINTENANCE SHOP	1106	1-3				
419	1-75	TRAIN PLATFORM	1107	1-3				
420	1-76	MAINTENANCE SHOP	1108	1-3				
421	1-77	TRAIN PLATFORM	1109	1-3				
422	1-78	MAINTENANCE SHOP	1110	1-3				
423	1-79	TRAIN PLATFORM	1111	1-3				
424	1-80	MAINTENANCE SHOP	1112	1-3				
425	1-81	TRAIN PLATFORM	1113	1-3				
426	1-82	MAINTENANCE SHOP	1114	1-3				
427	1-83	TRAIN PLATFORM	1115	1-3				
428	1-84	MAINTENANCE SHOP	1116	1-3				
429	1-85	TRAIN PLATFORM	1117	1-3				
430	1-86	MAINTENANCE SHOP	1118	1-3				
431	1-87	TRAIN PLATFORM	1119	1-3				
432	1-88	MAINTENANCE SHOP	1120	1-3				
433	1-89	TRAIN PLATFORM	1121	1-3				
434	1-90	MAINTENANCE SHOP	1122	1-3				
435	1-91	TRAIN PLATFORM	1123	1-3				
436	1-92	MAINTENANCE SHOP	1124	1-3				
437	1-93	TRAIN PLATFORM	1125	1-3				
438	1-94	MAINTENANCE SHOP	1126	1-3				
439	1-95	TRAIN PLATFORM	1127	1-3				
440	1-96	MAINTENANCE SHOP	1128	1-3				
441	1-97	TRAIN PLATFORM	1129	1-3				
442	1-98	MAINTENANCE SHOP	1130	1-3				
443	1-99	TRAIN PLATFORM	1131	1-3				
444	1-100	MAINTENANCE SHOP	1132	1-3				
445	1-101	TRAIN PLATFORM	1133	1-3				
446	1-102	MAINTENANCE SHOP	1134	1-3				
447	1-103	TRAIN PLATFORM	1135	1-3				
448	1-104	MAINTENANCE SHOP	1136	1-3				
449	1-105	TRAIN PLATFORM	1137	1-3				
450	1-106	MAINTENANCE SHOP	1138	1-3				
451	1-107	TRAIN PLATFORM	1139	1-3				
452	1-108	MAINTENANCE SHOP	1140	1-3				
453	1-109	TRAIN PLATFORM	1141	1-3				
454	1-110	MAINTENANCE SHOP	1142	1-3				
455	1-111	TRAIN PLATFORM	1143	1-3				
456	1-112	MAINTENANCE SHOP	1144	1-3				
457	1-113	TRAIN PLATFORM	1145	1-3				
458	1-114	MAINTENANCE SHOP	1146	1-3				
459	1-115	TRAIN PLATFORM	1147	1-3				
460	1-116	MAINTENANCE SHOP	1148	1-3				
461	1-117	TRAIN PLATFORM	1149	1-3				
462	1-118	MAINTENANCE SHOP	1150	1-3				
463	1-119	TRAIN PLATFORM	1151	1-3				
464	1-120	MAINTENANCE SHOP	1152	1-3				
465	1-121	TRAIN PLATFORM	1153	1-3				
466	1-122	MAINTENANCE SHOP	1154	1-3				
467	1-123	TRAIN PLATFORM	1155	1-3				
468	1-124	MAINTENANCE SHOP	1156	1-3				
469	1-125	TRAIN PLATFORM	1157	1-3				
470	1-126	MAINTENANCE SHOP	1158	1-3				
471	1-127	TRAIN PLATFORM	1159	1-3				
472	1-128	MAINTENANCE SHOP	1160	1-3				
473	1-129	TRAIN PLATFORM	1161	1-3				
474	1-130	MAINTENANCE SHOP	1162	1-3				
475	1-131	TRAIN PLATFORM	1163	1-3				
476	1-132	MAINTENANCE SHOP	1164	1-3				
477	1-133	TRAIN PLATFORM	1165	1-3				
478	1-134	MAINTENANCE SHOP	1166	1-3				
479	1-135	TRAIN PLATFORM	1167	1-3				
480	1-136	MAINTENANCE SHOP	1168	1-3				
481	1-137	TRAIN PLATFORM	1169	1-3				
482	1-138	MAINTENANCE SHOP	1170	1-3				
483	1-139	TRAIN PLATFORM	1171	1-3				
484	1-140	MAINTENANCE SHOP	1172	1-3				
485	1-141	TRAIN PLATFORM	1173	1-3				
486	1-142	MAINTENANCE SHOP	1174	1-3				
487	1-143	TRAIN PLATFORM	1175	1-3				
488	1-144	MAINTENANCE SHOP	1176	1-3				
489	1-145	TRAIN PLATFORM	1177	1-3				
490	1-146	MAINTENANCE SHOP	1178	1-3				
491	1-147	TRAIN PLATFORM	1179	1-3				
492	1-148	MAINTENANCE SHOP	1180	1-3				
493	1-149	TRAIN PLATFORM	1181	1-3				
494	1-150	MAINTENANCE SHOP	1182	1-3				
495	1-151	TRAIN PLATFORM	1183	1-3				
496	1-152	MAINTENANCE SHOP	1184	1-3				
497	1-153	TRAIN PLATFORM	1185	1-3				
498	1-154	MAINTENANCE SHOP	1186	1-3				
499	1-155	TRAIN PLATFORM	1187	1-3				
500	1-156	MAINTENANCE SHOP	1188	1-3				

LEGEND OF FACILITIES

NO.	LOC.	USE	NO.	LOC.	USE	NO.	LOC.	USE
108	108	OFFICE QUARTERS	1189	1-157	OFFICE QUARTERS			
109	109	OFFICE QUARTERS	1190	1-158	OFFICE QUARTERS			
110	110	OFFICE QUARTERS	1191	1-159	OFFICE QUARTERS			
111	111	OFFICE QUARTERS	1192	1-160	OFFICE QUARTERS			
112	112	OFFICE QUARTERS	1193	1-161	OFFICE QUARTERS			
113	113	OFFICE QUARTERS	1194	1-162	OFFICE QUARTERS			
114	114	OFFICE QUARTERS	1195	1-163	OFFICE QUARTERS			
115	115	OFFICE QUARTERS	1196	1-164	OFFICE QUARTERS			
116	116	OFFICE QUARTERS	1197	1-165	OFFICE QUARTERS			
117	117	OFFICE QUARTERS	1198	1-166	OFFICE QUARTERS			
118	118	OFFICE QUARTERS	1199	1-167	OFFICE QUARTERS			
119	119	OFFICE QUARTERS	1200	1-168	OFFICE QUARTERS			
120	120	OFFICE QUARTERS	1201	1-169	OFFICE QUARTERS			
121	121	OFFICE QUARTERS	1202	1-170	OFFICE QUARTERS			
122	122	OFFICE QUARTERS	1203	1-171	OFFICE QUARTERS			
123	123	OFFICE QUARTERS	1204	1-172	OFFICE QUARTERS			
124	124	OFFICE QUARTERS	1205	1-173	OFFICE QUARTERS			
125	125	OFFICE QUARTERS	1206	1-174	OFFICE QUARTERS			
126	126	OFFICE QUARTERS	1207	1-175	OFFICE QUARTERS			
127	127	OFFICE QUARTERS	1208	1-176	OFFICE QUARTERS			
128	128	OFFICE QUARTERS	1209	1-177	OFFICE QUARTERS			
129	129	OFFICE QUARTERS	1210	1-178	OFFICE QUARTERS			
130	130	OFFICE QUARTERS	1211	1-179	OFFICE QUARTERS			
131	131	OFFICE QUARTERS	1212	1-180	OFFICE QUARTERS			
132	132	OFFICE QUARTERS	1213	1-181	OFFICE QUARTERS			
133	133	OFFICE QUARTERS	1214	1-182	OFFICE QUARTERS			
134	134	OFFICE QUARTERS	1215	1-183	OFFICE QUARTERS			
135	135	OFFICE QUARTERS	1216	1-184	OFFICE QUARTERS			
136	136	OFFICE QUARTERS	1217	1-185	OFFICE QUARTERS			
137	137	OFFICE QUARTERS	1218	1-186	OFFICE QUARTERS			
138	138	OFFICE QUARTERS	1219	1-187	OFFICE QUARTERS			
139	139	OFFICE QUARTERS	1220	1-188	OFFICE QUARTERS			
140	140	OFFICE QUARTERS	1221	1-189	OFFICE QUARTERS			
141	141	OFFICE QUARTERS	1222	1-190	OFFICE QUARTERS			
142	142	OFFICE QUARTERS	1223	1-191	OFFICE QUARTERS			
143	143	OFFICE QUARTERS	1224	1-192	OFFICE QUARTERS			
144	144	OFFICE QUARTERS	1225	1-193	OFFICE QUARTERS			
145	145	OFFICE QUARTERS	1226	1-194	OFFICE QUARTERS			
146	146	OFFICE QUARTERS	1227	1-195	OFFICE QUARTERS			
147	147	OFFICE QUARTERS	1228	1-196	OFFICE QUARTERS			
148	148	OFFICE QUARTERS	1229	1-197	OFFICE QUARTERS			
149	149	OFFICE QUARTERS	1230	1-198	OFFICE QUARTERS			
150	150	OFFICE QUARTERS	1231	1-199	OFFICE QUARTERS			
151	151	OFFICE QUARTERS	1232	1-200	OFFICE QUARTERS			
152	152	OFFICE QUARTERS	1233	1-201	OFFICE QUARTERS			
153	153	OFFICE QUARTERS	1234	1-202	OFFICE QUARTERS			
154	154	OFFICE QUARTERS	1235	1-203	OFFICE QUARTERS			
155	155	OFFICE QUARTERS	1236	1-204	OFFICE QUARTERS			
156	156	OFFICE QUARTERS	1237	1-205	OFFICE QUARTERS			
157	157	OFFICE QUARTERS	1238	1-206	OFFICE QUARTERS			
158	158	OFFICE QUARTERS	1239	1-207	OFFICE QUARTERS			
159	159	OFFICE QUARTERS	1240	1-208	OFFICE QUARTERS			
160	160	OFFICE QUARTERS	1241	1-209	OFFICE QUARTERS			
161	161	OFFICE QUARTERS	1242	1-210	OFFICE QUARTERS			
162	162	OFFICE QUARTERS	1243	1-211	OFFICE QUARTERS			
163	163	OFFICE QUARTERS	1244	1-212	OFFICE QUARTERS			
164	164	OFFICE QUARTERS	1245	1-213	OFFICE QUARTERS			
165	165	OFFICE QUARTERS	1246	1-214	OFFICE QUARTERS			
166	166	OFFICE QUARTERS	1247	1-215	OFFICE QUARTERS			
167	167	OFFICE QUARTERS	1248	1-216	OFFICE QUARTERS			
168	168	OFFICE QUARTERS	1249	1-217	OFFICE QUARTERS			
169	169	OFFICE QUARTERS	1250	1-218	OFFICE QUARTERS			
170	170	OFFICE QUARTERS	1251	1-219	OFFICE QUARTERS			
171								



LEGEND OF FACILITIES

NO	LOC	USE	NO	LOC	USE	NO	LOC	USE
A	A3	OFFICERS' QUARTERS	156	D8	PRESSURE TANK - 10,000 GAL	282	A2	BARR
B	A5	OFFICERS' QUARTERS	157		REMOVED INC IN BLDG 306	283	A1	WARR
1	A4	ADMINISTR & TELEPHONE RM	158		NOT CONSTRUCTED	284	A1	WARR
2	C3	HANGAR (SQDN)	159	D9	SEWAGE DISPOSAL GROUP	285	B2	WARR
3	C4	LINE MAINT	159A	D8	CHLORINE BLDG	285A	B2	WARR
4	C4	LINE MAINT	159B	D8	PUMPHOUSE	285B	B2	WARR
5	C4	HANGAR (SQDN)	159C	D8	CHLORINE CONTACT	285C	B2	WARR
6	C4-S	ADMINISTRATION (SQDN)	159D	D9	SECONDARY SETTLING TANK	285D	B2	WARR
7	C5	HANGAR (SQDN)	159E	D9	CLARIFIER	285E	B2	WARR
8	C5	LINE MAINT	159F	D9	SECONDARY CLARIFIER	285F	B2	WARR
9	C5	LINE MAINT	159G	D9	SLUDGE DIGESTER	285G	B2	WARR
10	C8	HANGAR (SQDN)	159H	D9	TRICKLING FILTER	285H	B2	WARR
11	B6	ADMINISTRATION (SQDN)	159I	D9	PRIMARY SETTLING TANK	285I	B2	WARR
12	B5	DO	159J	D9	TRICKLING FILTER	285J	B2	WARR
13	B4	DO	159K	D9	STOREHOUSE	285K	B2	WARR
14	B3	DO	159L	D8	STANDBY POWER BLDG	285L	B2	WARR
15	B3	STOREHOUSE	159M	D9	PUMP SUMP EFFLUENT	285M	B2	WARR
16	B3	DO	159N	D9	BOOSTER PUMPHOUSE EFFLUENT	285N	B2	WARR
17	B4	STOREHOUSE	159O	D9	PARSHALL FLUME & METER BLDG	285O	B2	WARR
18	B5	STOREHOUSE	159P	D9	GRIT COLLECTOR	285P	B2	WARR
19	B5	STOREHOUSE	159Q	D9	GAS HOLDER	285Q	B2	WARR
20	B5	DO	159R	D9	HEAT EXCHANGER	285R	B2	WARR
21	B5	DO	160		REMOVED	285S	B2	WARR
22	B6	STOREHOUSE	161		DO	285T	B2	WARR
23	B6	DO	162		DO	285U	B2	WARR
24	B6	COLD STORAGE BLDG	163	J5	RE-OY SERVICE STOR MAGAZINE	285V	B2	WARR
25	B6	STOREHOUSE	164	J5	STORAGE WAREHOUSE	285W	B2	WARR
26	B6	DO	165	J6	DO	285X	B2	WARR
27	B4	DO	166	J6	REMOVED	285Y	B2	WARR
28	B7	DO	167	J6	DO	285Z	B2	WARR
29	B7	DO	168	J6	READY SERVICE STOR MAGAZINE	286	D9	STAT
30	B7	DO	169	J6	DO	286A	D9	STAT
30A	B7	DO	170	J6	DO	286B	D9	STAT
30A	B7	DO	171	J6	DO	286C	D9	STAT
30A	B7	DO	172	K4	DO	286D	D9	STAT
30A	B7	DO	173		REMOVED	286E	D9	STAT
31	B7	DO	174	ER	100,000 GAL. RESEVIR	286F	D9	STAT
32	A7	BOUNELOR OFFICERS' QTR	175	D8	DO	286G	D9	STAT
33	A7	DO	176	B6	DO	286H	D9	STAT
34	A7	DO	177	B6	DO	286I	D9	STAT
35	A7	DO	178	B6	DO	286J	D9	STAT
36	A7	DO	179	B6	DO	286K	D9	STAT
37	A7	DO	180	B6	DO	286L	D9	STAT
38	A7	DO	181	B6	DO	286M	D9	STAT
39	A7	DO	182	B6	DO	286N	D9	STAT
40	A6	BOUNELOR OFFICERS' QTR	183	B6	DO	286O	D9	STAT
41	A6	DO	184	B7	AVGAS STORAGE TANK 25,000 GAL	286P	D9	STAT
42	A6	DO	185	B7	DO	286Q	D9	STAT
43	A6	DO	186	B7	DO	286R	D9	STAT
44	A6	DO	187	B7	DO	286S	D9	STAT
45	A6	DO	188	B7	DO	286T	D9	STAT
46	B6	TRAINING BLDG (CLERICAL SCH)	189	B3	DO	286U	D9	STAT
47	B6	GROUP LODG BLDG	190	B3	DO	286V	D9	STAT
48	B5	GROUP MAINT SHOP	191	B3	DO	286W	D9	STAT
49	B5	HANGAR (SQDN)	192	B3	DO	286X	D9	STAT
50	B5	STOREHOUSE	193	B3	DO	286Y	D9	STAT
51	B5	GROUP MAINT SHOP	194	B3	DO	286Z	D9	STAT
52	B5	GROUP ENGINE SHOP	195	B3	DO	287	D9	STAT
53	B5	GROUP PARACHUTE BLDG	196	B3	DO	287A	D9	STAT
54	B4	STATION BRIG	197	B2	DO	287B	D9	STAT
55	B4	REMOVED	198	B2	DO	287C	D9	STAT
56	B4	TRAINING BLDG (NANT)	199	B2	DO	287D	D9	STAT
57	B4	SWIMMING POOL	200	B3	DO	287E	D9	STAT
58	A4	BARRACKS & AD	201	E3	DO	287F	D9	STAT
59	A4	ADMINISTRATION (MHS)	202	E3	DO	287G	D9	STAT
60	A4	DO (NAVY RELIEF)	203	E1	DO	287H	D9	STAT
61	A4	ADMINISTRATION (SECURITY)	204	H2	AVGAS STORAGE TANK 25,000 GAL	287I	D9	STAT
62	A4	ADMINISTRATION (SECURITY)	205	H2	DO	287J	D9	STAT
63	A4	PHARMACY DISPENSARY	206	H2	DO	287K	D9	STAT
64	A4	STATION HOSPITAL	207	H2	DO	287L	D9	STAT
64A	A4	BOILER HOUSE	208	H2	DO	287M	D9	STAT
64B	A4	GARBAGE HOUSE	209	H2	DO	287N	D9	STAT
65	A3	ADMINISTRATION (AIR PMP PAC)	210	H2	DO	287O	D9	STAT
65	A3	ADMINISTRATION (AIR PMP PAC)	211	H2	DO	287P	D9	STAT
66A	A3	SLURRY BLDG	212	H2	DO	287Q	D9	STAT
67	A3	ENLISTED MEN'S CLUB	213	H2	DO	287R	D9	STAT
67A	A3	GARBAGE HOUSE	214	H2	DO	287S	D9	STAT
68	A3	BARRACKS (ENLISTED)	215	H2	DO	287T	D9	STAT
69	A3	DO	216	E1	FUEL OIL TANK 50,000 GAL	287U	D9	STAT
70	A3	DO	217	E1	DO	287V	D9	STAT
71	A3	DO	218	E1	DO	287W	D9	STAT
72	A3	DO	219	E1	DO	287X	D9	STAT
73	A3	DO	220	E1	DO	287Y	D9	STAT
74	A3	DO	221	E1	DO	287Z	D9	STAT
75	A3	DO	222	B3	DIESEL FUEL STOR TANK 25,000 GAL	288	E1	STAT
76	A3	DO	223	B3	ELEV WATER TANK 200,000 GAL	288A	E1	STAT
77	A3	GARBAGE HOUSE	224	A3	SENTRY HOUSE	288B	E1	STAT
78	A3	DO	225	A3	ADMINISTRATION (STA. ORD.)	288C	E1	STAT
79	A3	DO	226	B7	ORDNANCE MAINTENANCE BLDG	288D	E1	STAT
80	A3	DO	227	B7	STORAGE	288E	E1	STAT
81	A3	DO	228	B7	DO	288F	E1	STAT
82	A3	DO	229	B7	DO	288G	E1	STAT
83	A3	DO	230	B7	DO	288H	E1	STAT
84	A2	STORAGE	231	F2	DO	288I	E1	STAT
85	A2	STAFF NCC CLUB	232	F2	DO	288J	E1	STAT
86	A2	GARBAGE HOUSE	233	F2	DO	288K	E1	STAT
87	A2	SPECIAL SERVICES GARAGE	234	F2	DO	288L	E1	STAT
88	A2	DO	235	F2	DO	288M	E1	STAT
89	A2	DO	236	F2	DO	288N	E1	STAT
90	A2	DO	237	F2	DO	288O	E1	STAT
91	A2	DO	238	F2	DO	288P	E1	STAT
92	A2	DO	239	F2	DO	288Q	E1	STAT
93	A2	DO	240	F2	DO	288R	E1	STAT
94	A2	DO	241	F2	DO	288S	E1	STAT
95	A2	DO	242	F2	DO	288T	E1	STAT
96	A2	DO	243	F2	DO	288U	E1	STAT
97	A2	DO	244	F2	DO	288V	E1	STAT
98	A2	DO	245	F2	DO	288W	E1	STAT
99	A2	DO	246	F2	DO	288X	E1	STAT
100	A2	DO	247	F2	DO	288Y	E1	STAT
101	A2	DO	248	F2	DO	288Z	E1	STAT
102	A2	DO	249	F2	DO	289	E1	STAT
103	A2	DO	250	F2	DO	289A	E1	STAT
104	A2	DO	251	F2	DO	289B	E1	STAT
105	A2	DO	252	F2	DO	289C	E1	STAT
106	A2	DO	253	F2	DO	289D	E1	STAT
107	A2	DO	254	F2	DO	289E	E1	STAT
108	A2	DO	255	F2	DO	289F	E1	STAT
109	A2	DO	256	F2	DO	289G	E1	STAT
110	A2	DO	257	F2	DO	289H	E1	STAT
111	A2	DO	258	F2	DO	289I	E1	STAT
112	A2	DO	259	F2	DO	289J	E1	STAT
113	A2	DO	260	F2	DO	289K	E1	STAT
114	A2	DO	261	F2	DO	289L	E1	STAT
115	A2	DO	262	F2	DO	289M	E1	STAT
116	A2	DO	263	F2	DO	289N	E1	STAT
117	A2	DO	264	F2	DO	289O	E1	STAT
118	A2	DO	265	F2	DO	289P	E1	STAT
119	A2	DO	266	F2	DO	289Q	E1	STAT
120	A2	DO	267	F2	DO	289R	E1	STAT
121	A2	DO	268	F2	DO	289S	E1	STAT
122	A2	DO	269	F2	DO	289T	E1	STAT
123	A2	DO	270	F2	DO	289U	E1	STAT
124	A2	DO	271	F2	DO	289V	E1	STAT
125	A2	DO	272	F2	DO	289W	E1	STAT
126	A2	DO	273	F2	DO	289X	E1	STAT
127	A2	DO	274	F2	DO	289Y	E1	STAT
128	A2	DO	275	F2	DO	289Z	E1	STAT
129	A2	DO	276	F2	DO	290	E1	STAT
130	A2	DO	277	F2	DO	290A	E1	STAT
131	A2	DO	278	F2	DO	290B	E1	STAT
132	A2	DO	279	F2	DO	290C	E1	STAT
133	A2	DO	280	F2	DO	290D	E1	STAT
134	A2	DO	281	F2	DO	290E	E1	STAT
135	A2	DO	282	F2	DO	290F	E1	STAT
136	A2	DO	283	F2	DO	290G	E1	STAT
137	A2	DO	284	F2	DO	290H	E1	STAT
138	A2	DO	285	F2	DO	290I	E1	STAT
139	A2	DO	286	F2	DO	290J	E1	STAT
140	A2	DO	287	F2	DO	290K	E1	STAT
141	A2	DO	288	F2	DO	290L	E1	STAT
142	A2	DO	289	F2	DO	290M	E1	STAT
143	A2	DO	290	F2	DO</			

Extracts from historical hazardous waste management documents

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGIONINDIANA AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92506
PHONE: (714) 782-4130

The 1989 letter does not discuss a
Building 186.

ML0050.001130



DUPLICATE

June 23, 1989

LTJG Michael Rehor, Environmental Director
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.

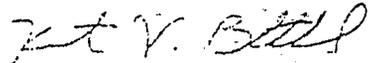
June 23, 1989

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
Supervising Engineer

cc: OCWD - Jim Reilly

TDP/mcaset2

M60050.000776 (1-2)
4/17/89 TDP ~~FTE~~

MCAS EL TORO

ADDITIONAL SITES NEEDING INVESTIGATION

Tom D Peltier

M60050.000776
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

TITLE: ADDITIONAL SITES NEEDING INVESTIGATION, POTENTIAL AREAS OF CONTAMINATION

AUTHOR: TOM D. PELTIER?

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

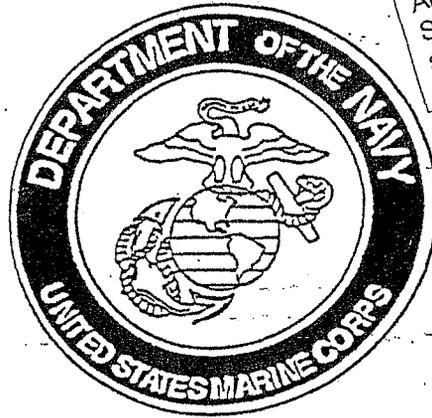
Final

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



HAZARDOUS MATERIALS STORAGE



HAZARDOUS WASTE ACCUMULATION POINT

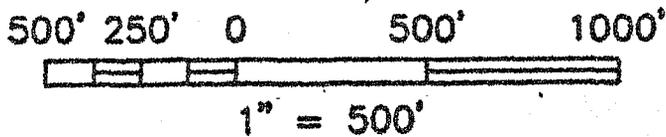


ONE YEAR PERMITTED HAZARDOUS WASTE STORAGE AREA

MCAS El Toro
Santa Ana, California

HAZARDOUS WASTE ACCUMULATION POINTS AND HAZARDOUS MATERIAL STORAGE LOCATIONS

NOVEMBER 5, 1993



Science Applications
International Corporation
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NOTE:
THE PLAN DOES NOT IDENTIFY A
BUILDING 186.

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	T9
MAG-46 Helo Mats-46	295	S8
MALS-11 Air Frames	130	M9
MALS-11 Avionics	856	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	385	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	U9
SOMS HQ	289	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

No Further Action Decision Document for UST 186



**COUNTY OF ORANGE
HEALTH CARE AGENCY**

**PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH**

**TOM URAM
DIRECTOR**

**HUGH F. STALLWORTH, M.D.
HEALTH OFFICER**

**ROBERT E. MERRYMAN, REHS, MPH
DEPUTY DIRECTOR**

**MAILING ADDRESS
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720**

**TELEPHONE: (714) 667-3666
FAX: (714) 972-0709**

January 17, 1997

LT Hope Katcharian
Director, Environmental Engineering Division
Commanding General
AC/S Environmental IAU
Marine Corps Air Station El Toro
P.O. Box 95001
Santa Ana, CA 92709-5001

Subject: **Completion of Tank Removal Project**

RE: Marine Corps Air Station El Toro
Fuel Farm #1 (Tanks #175, 184, 185, 186, and 187)
Santa Ana, CA 92709

Dear Lt. Katcharian:

This is in response to your request for a confirmation of the completion of the tank removal project. With the provision that the results for the soil samples obtained during the tank removal on October 29, 1996, were accurate and representative of existing conditions, it is the position of this office that no significant soil contamination has occurred at the above noted facility location.

It should be pointed out that this letter does not relieve you of any responsibilities mandated under the California Health and Safety Code if additional or previously unidentified contamination is discovered at the subject site.

If you have any questions regarding this matter, please contact Arghavan Rashidi-Fard at (714) 667-3713.

Sincerely,

William J. Diekmann, M.S., REHS
Supervising Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

cc: Larry Vitale, Santa Ana Regional Water Quality Control Board

SOUTHWESTNAVFACENGCOM
Code 06CC.LMH
1220 Pacific Highway
San Diego, CA 92132
Telephone: (619) 532-0783/Fax: (619) 532-0780

File: eltoroar.doc

TRANSMITTAL

Date: 3 July 2002

From: Lynn Marie Hornecker
MCAS El Toro

YMH

To: Diane Silva
Code ~~01ES.DS~~ Code 05G.DS

Subj: CERCLA Administrative Record Materials
Marine Corps Air Station, El Toro

Installation: Marine Corps Air Station, El Toro

UIC Number: M60050

Document Title (or subject):

Author:

Recipient:

Record Date: 26 June 2002

Approximate Number of Pages: 70

EPA Category: 01.1

Sites: SWMU55

Key Words: RFA

Contract: N/A

CTO Number: N/A

*Site will be deleted based upon
attached documentation*