M60050.002606
MCAS EL TORO
SSIC #5090.3

Summary Report

Phantom Drum Storage Area
Solid Waste Management Unit (SWMU) 109
Marine Corps Air Station, El Toro, California

21 December 2001

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

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File: etdtscswmu109ltr.doc

TRANSMITTAL

Date: 21 December 2001

From: Lynn Marie Hornecker LMH

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

Subj: Phantom Drum Storage Area
Solid Waste Management Unit (SWMU) 109
Marine Corps Air Station, El Toro

Provided for your review as the attachment are three copies of the Summary Report for the phantom or non-existent drum storage area that was identified as Solid Waste Management Unit (SWMU) 109 during the Resource Conservation and Recovery Act Facility Assessment (RFA). SWMU 109 was described as a drum storage area at Building 379 in the southwestern section of the Marine Corps Air Station, El Toro.

Building 379 was the office for the truck weighing facility (or truck scales). The building was constructed in 1953 and the truck scales were operated until approximately June 1999. The records do not identify storage of hazardous wastes at this building. A temporary accumulation area is located at Building 314 which is northwest of Building 379, and it is possible that the Building 314 facility was inadvertently associated with Building 379. Based upon the results of the record search and the visual inspections of the site, we believe that this site should be considered a phantom or non-existent site and should be deleted from the inventory of locations of concern.

If we do not receive comments from you within sixty (60) days of receipt of this document, then we will assume that you concur with our recommendation. Please do not hesitate to call if you have questions pertaining to this site. A formal transmittal letter may follow.

Attachment:
Summary Report, SWMU 109 (Southwest Division, December 2001)

CF: (w/ attachment)
Dean Gould (MCAS El Toro BEC)
Project File (MCAS El Toro)

Summary Report

Phantom Drum Storage Area
Solid Waste Management Unit (SWMU) 109
Marine Corps Air Station, El Toro, California

21 December 2001

Prepared by:

Lynn Marie Hornecker
Project Manager

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

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Section 1
Introduction

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) 109, in the southwestern section of the Marine Corps Air Station (MCAS), El Toro. SWMU 109 was identified during the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA), and the RFA documentation indicates that SWMU 109 was originally described as a drum storage area at or near Building 379 on a Spill Prevention, Control, and Countermeasures (SPCC) map.

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. SWMU 109 is located in the southwestern section of the Station at Building 379 on South Marine Way. The site is located southeast of Buildings 314 and 357 and southwest of Building 631. Building 379 was an office for the truck scales which are located immediately southwest of and adjacent to Building 379. The vicinity of Building 379 is shown on Figure 1.

The Station closed on 2 July 1999 in accordance with the Base Realignment and Closure Act of 1993 (BRAC III). SWMU 109 is located within a parcel designated for future use as the cargo area according to *The Preferred Land Use Plan, Concept B* (County of Orange, August 1999) as shown on Figure 2.

This Summary Report includes a description of information collected during a review of historical property records, environmental compliance management plans, the functions of nearby existing buildings, and the results of visual inspections of the site. The records show that Building 379 was constructed in approximately 1953 as a motor truck scale building. The truck scales were used until approximately June 1999. The site was visually inspected during December 2001, and no stains or visual evidence of previous hazardous waste storage activities was observed. Additionally, the historical records do not identify the use or storage of hazardous materials or wastes at Building 379, however, hazardous wastes were generated and stored at Building 314 which is located northwest of Building 379. Based upon the review of the historical information, it is recommended that SWMU 109 be considered a phantom or non-existent site and be deleted from the inventory of locations of concern 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.

SWMU 109 was described as a drum storage area at Building 379. A review of records and visual inspections were conducted during the preparation of the *Installation Restoration Program, Final Resource Conservation and Recovery Act Facility Assessment Report for Marine Corps Air Station, El Toro, California* (Jacobs Engineering Group (JEG) 1993). The visual inspection documentation states the following: "A drum storage area is referenced by an SPCC map as being located at this site. During the site visit, the entire truck weighing facility area was visually inspected and no evidence of a drum storage area was located. There were no stains or other evidence observed to indicate the presence of a former drum storage area."

The SWMU 109 vicinity was visually inspected by representatives of the Navy on 10 and 17 December 2001. The site is paved with portland cement concrete and is located adjacent to the asphalt-paved South Marine Way. The paved surfaces were in good condition, and no stains or discolored areas were observed. The site is located southeast of Building 314 where a temporary accumulation area (TAA 314) was investigated. Photographs of the site and the nearby buildings 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. Information pertaining to Building 379 and the SWMU 109 vicinity is summarized in Tables 1 and 2. No further action decision documents for nearby locations of concern are included in the Appendix.

According to the information presented in Table 1, Building 379, a building for the truck scales was constructed in approximately 1953. The scales were used by the Marine Corps until approximately June 1999.

Table 1. MCAS El Toro Historical Records for the Building 379 Vicinity.

Building Identification Number	Approximate year of acquisition or construction	Type of Use	Comments
379	1953	Truck Scales Building	The truck scales were used from approximately 1953 until June 1999. The 1954 Master Plot Plan identifies Building 379 as a Motor Truck Scale. The 1994 and 1997 Building Guides identify Building 379 as a truck weighing facility. The plant account record does not identify improvements to Building 379.
314	1945	Heating Plant/Storage	Building 314 is located northwest of Building 379. Building 314 was originally a heating plant and was more recently used for storage. A 1948 map and the 1954 Master Plot Plan identify Building 314 as a heating plant.
357	1951	Hazardous/ Flammable Materials Storage	Building 357 is located northwest of Building 379.
631	1968	Applied Instruction Building	Building 631 is located northeast of Building 379.
599	1960	Liquid Oxygen Facility	Building 599 is located southeast of Building 379.

Hazardous Materials/Hazardous Waste Management Plan (HM/HWMP)
Visual inspections of TAAs were conducted in 1993, and the HM/HWMP (SAIC 1994) identifies a hazardous waste accumulation area on the southeast side of Building 314. No other TAAs were identified in the Building 379 vicinity. Extracts from the HM/HWMP are included in the Appendix.

Hazardous waste management and spill contingency planning documents from the 1980's were acquired from the CERCLA Administrative Record files and reviewed. Extracts from Hazardous Materials/Hazardous Waste Engineering Study (Roy F. Weston, February 1984) show six (6) hazardous waste accumulation areas, and one area appears to be near Buildings 296 and 326. No other waste accumulation areas are located in the vicinity of Building 379, Extracts from the 1984 study and other historical documents are included in the Appendix.

The Spill Prevention, Control, and Countermeasure Field Survey Report (NBS/Lowry, 1988) identifies six hazardous waste storage areas, however, there is no narrative description of the six storage areas. Extracts from the NBS/Lowry document are included in the Appendix.

A list of sites recommended for additional investigation was developed in 1989 (Administrative Record # M60050.000776) and the list entitled "Additional Sites Needing Investigation" is included in the Appendix. The list identifies nearby Building 357, however, Building 379 is not included on the list.

Storm Water Pollution Prevention Plan (SWPPP)
Visual inspections of areas where hazardous materials and hazardous wastes were stored were conducted in 1993. No specific comments or recommendations for additional best management practices were provided for Building 379 in the SWPPP (IEM 1997).

The SWPPP indicates that significant industrial activities or hazardous materials storage activities were not observed at Building 379 during the inspection of 1993.

The SWPPP also includes a spill history table in Section 5, and this table does not identify historic spills near Building 379. Extracts from the SWPPP are included in the Appendix.

Surface runoff from the Building 379 vicinity discharges to Bee Canyon Wash. Surface water quality was monitored under the Station's National Pollutant Discharge Elimination System (NPDES) Permit for storm water while the Station was operational and surface water samples were collected routinely from Bee Canyon Wash. Additionally, the surface drainage channels, including Bee Canyon Wash, were investigated as IRP Site 25 –the Major Drainages – during the remedial investigation, and a Record of Decision for No Action was signed for IRP Site 25 in September 1997.

Underground Storage Tank (UST) Program
SWMU 109 is located southeast of Building 314. Underground Storage Tanks (USTs) 314A, 314B, and 314D were removed from the southwest side of Building 314. Closure documentation has been submitted to the Regional Water Quality Control Board (RWQCB), Santa Ana Region. An oil/water separator, OWS 314C, was removed from the southeast side of Building 314, and the site has been closed by the Orange County Health Care Agency. An oil/water separator, OWS 357, was removed near Building 357 located northwest of Building 379; the RWQCB concurred with no further action status for the site.

Temporary Accumulation Areas
Temporary Accumulation Area (TAA) 314 was located on the southeast side of Building 314. Samples were collected from the site and a closure report was submitted to the California Department of Toxic Substances Control (DTSC). DTSC concurred with no further action status for the site.

Aerial Photograph Anomalies
Science Applications International Corporation (SAIC) evaluated historical aerial photographs of the MCAS El Toro and the results of the evaluation are published in the *Final Report, Aerial Photograph Assessment, MCAS El Toro* (SAIC, 1993). The United States Environmental Protection Agency (USEPA) evaluated historical aerial photographs of MCAS El Toro and the results of the evaluation are published in the *Site Analysis, El Toro MCAS, Orange County, California* (USEPA, 1991). The USEPA and the SAIC reports did not identify anomalies at Building 379.

Installation Restoration Program
Installation Restoration Program (IRP) Site 8 - DRMO Storage Yard - is located southwest of Building 379. A Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Record of Decision is in the process of being developed as of December 2001. A monitoring well for IRP Site 8 was constructed northwest of Building 379.

Building 379 is located within the investigation boundary of IRP Site 24 - the Volatile Organic Compound (VOC) Source Area. A CERCLA ROD is in the process of being developed for IRP Site 24 as of December 2001. One soil gas survey point (259) was collected near Building 379 during the remedial investigation of IRP Site 24. No volatile organic compounds were identified at or above reporting limits at point 259, and extracts from the survey report are included in the Appendix.

Table 2. MCAS El Toro Property Records and Information from Environmental Program Projects in the SWMU 109 Vicinity.

Building Identification Number or Feature Identifier	Status	Comments
SWMU 109	See comments	RFA report of 1993 identified No Further Action status. This report recommends deletion of the site as a phantom or non-existent site.
TAA 314	NFA DTSC letter dated 16 March 1999	Soil sampling was conducted at TAA 314.
USTs 314A, 314B, and 314D	Regulatory review at the RWQCB	Confirmation soil sampling was conducted at UST Sites 314A, B, and D.
OWS 314C	NFA OCHCA letter dated 31 October 1997	Confirmation soil sampling was conducted at OWS Site 314C. The maximum residual petroleum hydrocarbon concentration at OWS 314C was 1,000 milligrams per kilogram (as motor oil (C20 to C32 range)).
OWS 357	NFA RWQCB letter dated 21 November 1997	Confirmation soil sampling was conducted at OWS 357.
IRP Site 8	ROD is in development	Soil and groundwater sampling were conducted at IRP Site 8 which is located southwest of Building 379.
IRP Site 24	ROD is in development	Soil, soil gas, and groundwater sampling were conducted at IRP Site 24, and Building 379 is located within the investigation boundary of IRP Site 24. The nearest sample point to Building 379 is soil gas point 259 from the 1994 soil gas survey of IRP Sites 24 and 25. Volatile organic compounds were not detected at or above reporting limits at sample point 259. 1,1-DCE was detected at point 258, located northwest of Building 379 near the underground tanks at Building 314.

2.3 Ground Water Conditions

Ground water conditions have been investigated in the vicinity of Building 379 during the remedial investigation of Installation Restoration Program (IRP) Sites 8 and 24. Building 379 overlies the volatile organic compound (VOC) groundwater plume. A nearby well, 08_DGMW74, is located northwest of Building 379, near the intersection of Q Street and South Marine Way. Trichloroethylene (TCE) and other VOCs have been detected in water samples collected from 08_DGMW74. The depth to groundwater was approximately 81 feet at well 08_DGMW74 in July 1999 (CDM 2000). The VOC groundwater plume is managed under IRP Operable Unit 1, and a ROD for Operable Unit 1 is in development as of December 2001.

Section 3
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 of the vicinity of SWMU 109 at Building 379:

- SWMU 109, a drum storage area, was identified in the Installation Restoration Program, Final Resource Conservation and Recovery Act Facility Assessment Report for Marine Corps Air Station, El Toro, California (Jacobs Engineering Group 1993) and the report states that a spill prevention, control, and countermeasures (SPCC) plan identified the drum storage site.
- Building 379 was constructed in approximately 1953 and has been used as an office for the truck scales which are located adjacent to the building. Building 379 is located southeast of Building 314 where a temporary accumulation area (TAA 314) was located. No further action status has been achieved for TAA 314.
- Visual inspections were conducted in 1991 and in December 2001. No stains or discolored areas were observed during the inspections, and no evidence of former hazardous waste storage activities was observed.
- It is possible that the SPCC map identified a waste storage area in the general vicinity of Building 379, and it is possible that the temporary accumulation area at Building 314 was incorrectly associated with Building 379.

Based upon the absence of evidence of industrial activities or hazardous waste storage activities at Building 379, the absence of a specific reference to Building 379 as a hazardous waste storage site in the hazardous waste management plan, and the results of the visual inspections of the Building 379 vicinity, it is recommended that SWMU 109 (drum storage area) be considered a phantom or non-existent site. Deletion of SWMU 109 from the inventory of locations of concern in the next Business Plan Update is recommended.

Section 4
References and/or Sources of Information

CDM Federal Programs Corporation. 2000. Groundwater Monitoring Data Summary Report, 1999 Monitoring Round 9, 10, and 11, Marine Corps Air Station, El Toro. June.

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

Integrated Environmental Management (IEM). 1997. Storm Water Pollution Prevention Plan (SWPPP) for Marine Corps Air Station, El Toro, El Toro, California. July. [Contract No. N68711-96-D-2059, Delivery Order Number 0002] {*Annotation: The IEM planning document included the acquisition and review of historical and current plans of facilities and utilities. Extracts from the IEM report are presented in the Appendix.*}

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). 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].]

Science Applications International Corporation (SAIC). 1993. Final Report, Aerial Photograph Assessment, MCAS El Toro. Contract N68711-91-D-4658, Delivery Order 0002, SAIC Project No. 01-0892-0817.

United States Environmental Protection Agency. 1991. Site Analysis, El Toro MCAS, Orange County, California.

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

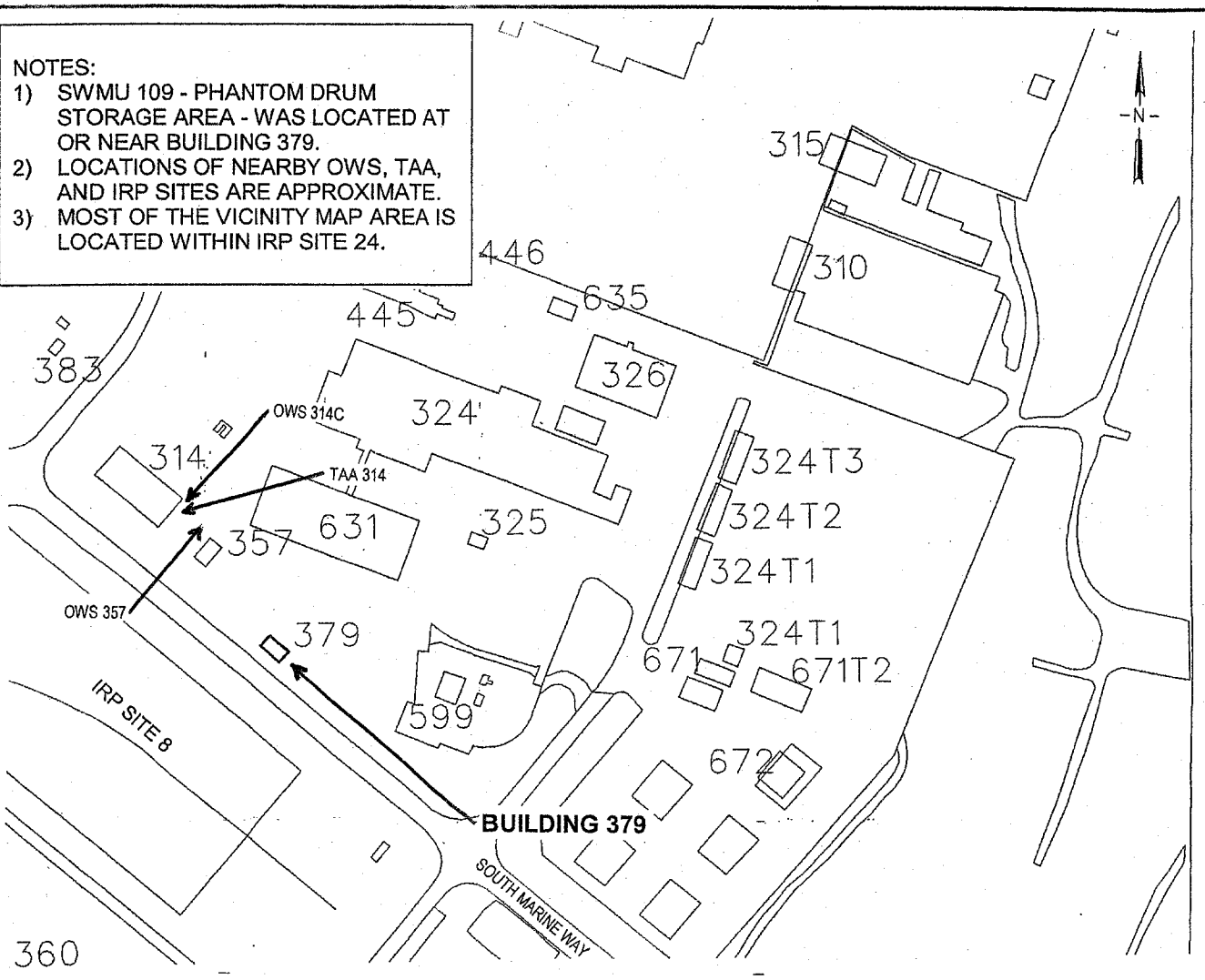
United States Marine Corps Air Station, El Toro. Circa 1946-1999. Station Property Records, Utility Maps, and Building Guides. (General Development Maps dated 1954 and 1978; Facility Maps dated 1954 and 1958; Building Guides dated 1989, 1994, and 1997)

United States Marine Corps Air Station, El Toro, Public Works Department. 1954. Master Plot Plan, Proposed Additional Aircraft Parking Facilities in Tactical Area III and Proposed Relocation of Existing Stables. [Alternate drawing identification number Public Works drawing PS-1236]

United States Marine Corps Air Station, El Toro. 1994. Aerial Photograph.

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

NOTES:
1) SWMU 109 - PHANTOM DRUM STORAGE AREA - WAS LOCATED AT OR NEAR BUILDING 379.
2) LOCATIONS OF NEARBY OWS, TAA, AND IRP SITES ARE APPROXIMATE.
3) MOST OF THE VICINITY MAP AREA IS LOCATED WITHIN IRP SITE 24.



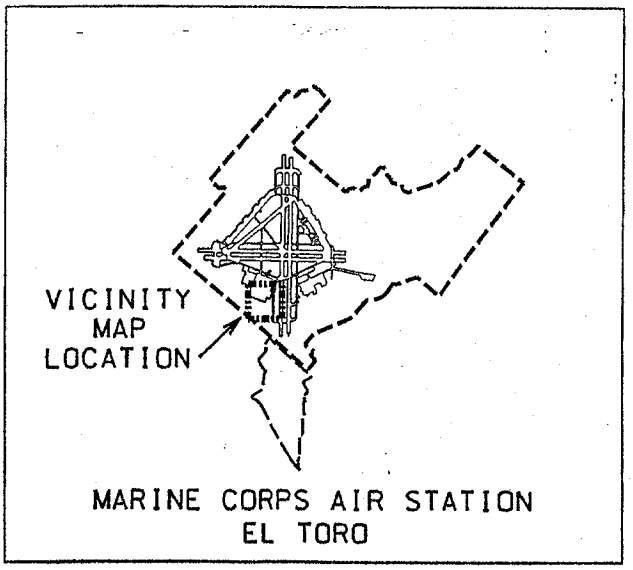


Figure 1.

SOLID WASTE MANAGEMENT UNIT (SWMU)
NUMBER 109

VICINITY MAP

MARINE CORPS AIR STATION, EL TORO

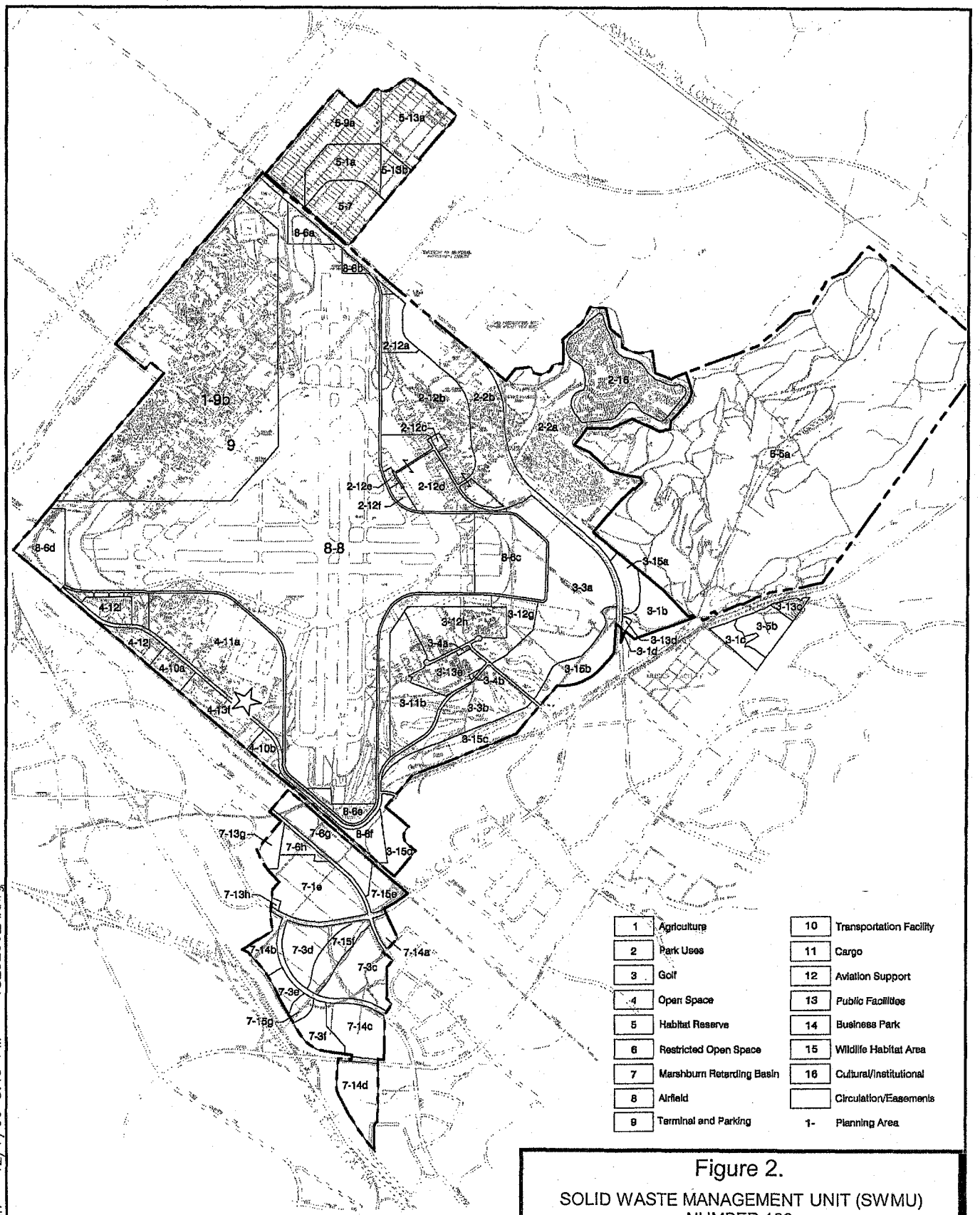


Figure 2.

SOLID WASTE MANAGEMENT UNIT (SWMU) NUMBER 109

TENTATIVE REUSE PARCEL LOCATIONS

MARINE CORPS AIR STATION, EL TORO

Witzel–Yanez Design 12/7/99 3:49 PM 18292502A.dwg

Appendix

Site Photographs and Other Documentation

Site Photographs

Extracts from RFA Documentation

Extracts from historical hazardous waste management documents

Extracts from HM/HWMP (SAIC 1994)

Extracts from Storm Water Pollution Prevention Plan (SWPPP) (IEM 1997)

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

Extracts from Technical Memorandum (JEG 1994)

Extracts from Final Environmental Baseline Survey of 1995

No Further Action Decision Documents for Nearby Locations of Concern

SOUTHWESTNAVFACENGCOM
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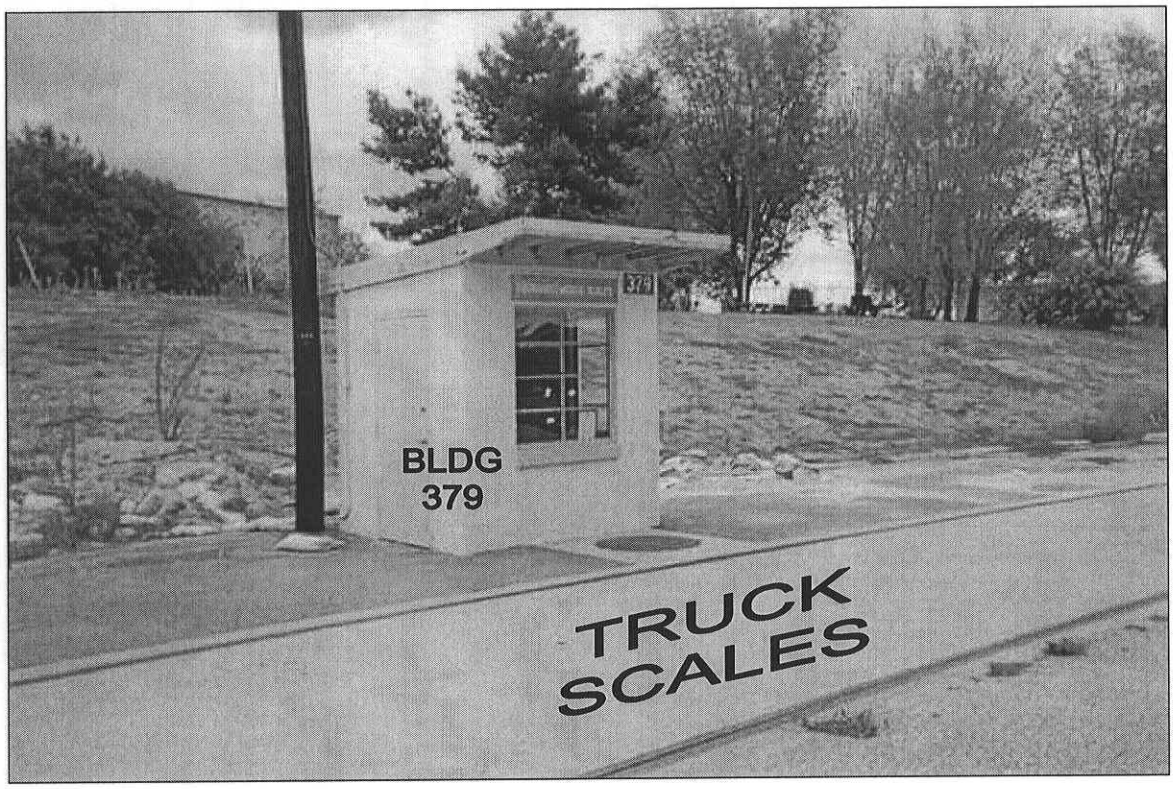
Photograph 1. Phantom Drum Storage Area at Building 379
Solid Waste Management Unit (SWMU) 109
View Looking Approximately North-northeast.
Marine Corps Air Station, El Toro

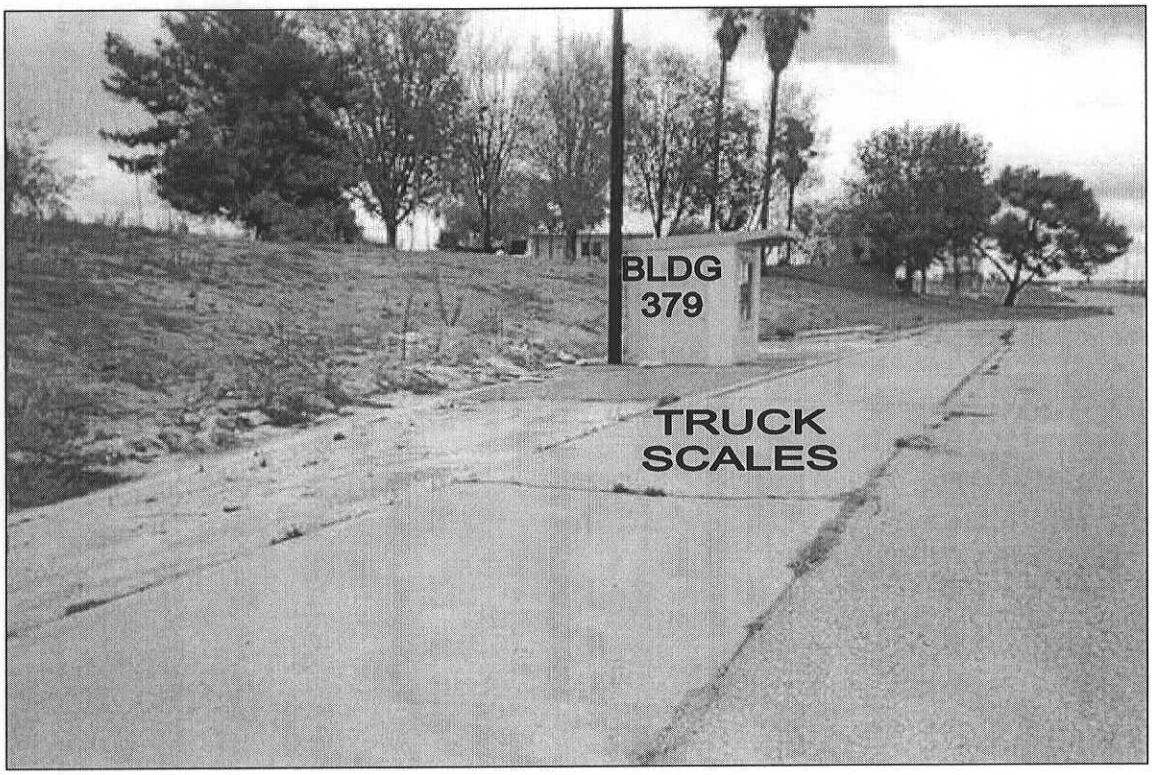
Date of Photograph: 10 December 2001



SOUTHWESTNAVFACENGCOM
Code 06CC.LMH
(619) 532-0783/Fax (619) 532-0780

Photograph 2. Phantom Drum Storage Area at Building 379
Solid Waste Management Unit (SWMU) 109
View Looking Approximately Southeast along South Marine Way.
Marine Corps Air Station, El Toro

Date of Photograph: 10 December 2001



SOUTHWESTNAVFACENGCOM
Code 06CC.LMH
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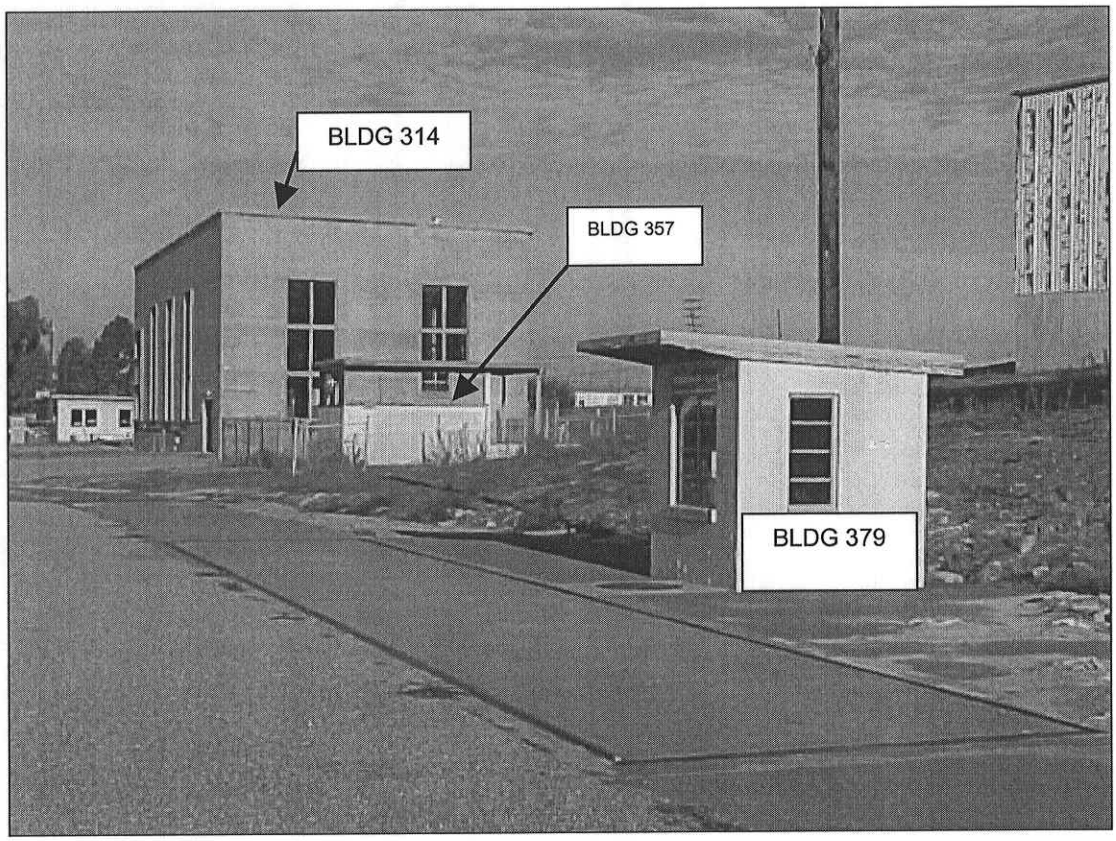
Photograph 3. Phantom Drum Storage Area at Building 379
Solid Waste Management Unit (SWMU) 109
View Looking Approximately Northwest Toward Building 314.
Marine Corps Air Station, El Toro

Date of Photograph: 17 December 2001



SOUTHWESTNAVFACENGCOM
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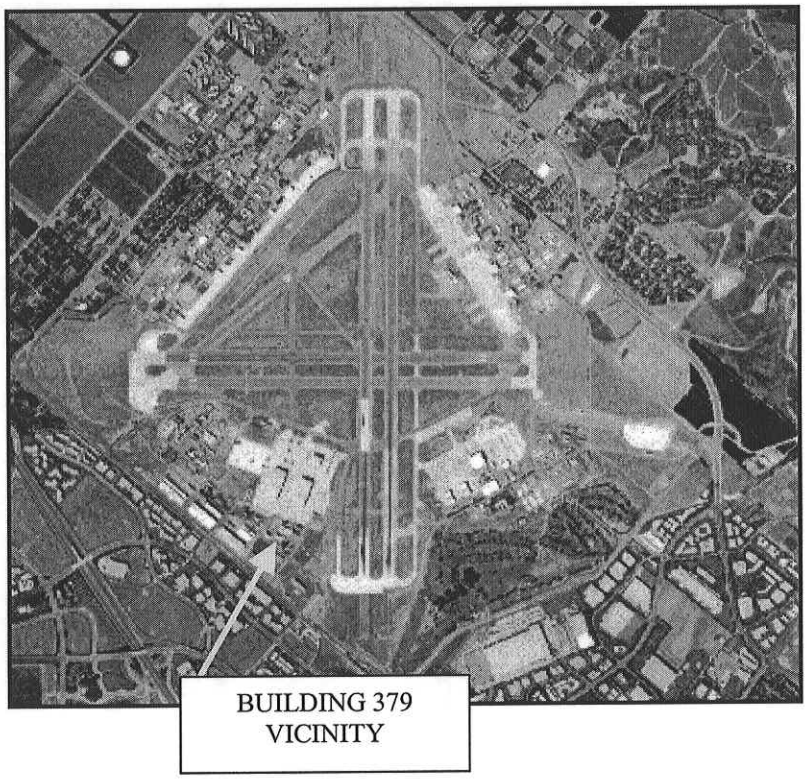
(619) 532-0783/Fax (619) 532-0780

Photograph 4. Vicinity of Building 379
Solid Waste Management Unit (SWMU) 109
Marine Corps Air Station, El Toro

Date of Aerial Photograph: 1994



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

M. W. Arends 7/16/93

Mike Arends, P.E. — Date
CLEAN Project Manager
CH2M HILL, Inc.

Raoul Portillo 15 July 1993

Raoul Portillo — Date
CLEAN Technical Reviewer
Jacobs Engineering Group Inc.

Evaluation Form
SWMU/Area of Concern
Number 109

Name: Drum Storage Area

Location: Building 379

Size: Unknown

Date of Site Visit: 29 April 91

A drum storage area is referenced by an SPCC map as being located at this site. During the site visit, the entire truck weighing facility area was visually inspected and no evidence of a drum storage area was located. There were no stains or other evidence observed to indicate the presence of a former drum storage area.

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
91	Underground Storage Tank	f	314	Active	1945	50,000 gal	Concrete	Waste Oil
92	Underground Storage Tank	f	314	Active	1945	50,000 gal	Concrete	Waste Oil
93	Drum Storage Area	a,b	317					
94	Drum Storage Area	a,b	320	RI/FS Site				
95	Engine Test Cell	a	324					
96	Drum Storage Area	a	343	Possible Duplicate of SWMU/AOC 107 or 242				
97	Drum Storage Area	a	357					
98	Vehicle Wash Rack	a	359					
99	Drum Storage Area	a	359					
100	TCE Degreasers	a	359					
101	Oil/Water Separator	f	359	Active	1952	100 gal	Concrete	
102	Underground Storage Tank	f	359	Active	1982	500 gal	Steel	Waste Stoddard Solvent
103	Drum Storage Area (2)	c	359			120 sq ft		
104	Drum Storage Area	b	360	RI/FS Site				
105	Drum Storage Area	c	360	RI/FS Site				
106	Drum Storage Area	c	360	RI/FS Site		5,076 sq ft		
107	Hazardous Waste Storage Area	Active	371					
108	Underground Storage Tank	f	T-10	Spill Containment Tank, Active	1988	1,000 gal	Fiberglass-Coated Steel	Fuel Slop
109	Drum Storage Area (2)	b	379					
110	Vehicle Wash Rack	a	386					
111	Hazardous Waste Storage Area	Active, a	386	Duplicate of SWMU/AOC 223				
112	Oil/Water Separator	f	386		1982	100 gal	Steel	
113	Underground Storage Tank	f	386	Active	1982	185 gal	Steel	Waste Oil
114	Drum Storage Area	c	386	Active		50 sq ft		
115	Vehicle Wash Rack	a	388	Duplicate of SWMU/AOC 201				
116	Drum Storage Area	a,b	388					
117	Underground Storage Tank	f	388	Active, Identified as gasoline tank in VSI	1955	2,000 gal	Steel	Waste Oil
118	Oil/Water Separator (2)	f	388	Active	1955	100 gal	Steel	
119	Drum Storage Area	b	389					
120	Vehicle Wash Rack	a	390					

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
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 Lt. 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.

CLF-CCI-[illegible]-AR-0006

M60050.000899 M60050.000899
MCAS El Toro

DUPLICATE

Environmental Quality Division
Naval Facilities Engineering Command
Alexandria, Virginia

EXTRACTS

Hazardous Materials/Hazardous Waste Engineering Study

February 1984

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

Hazardous Materials/Wastes Generation Survey, Hazard Analysis and Storage Facility Design Recommendations
Marine Corps Air Station
El Toro, California

TITLE: HAZARDOUS MATERIALS/HAZARDOUS WASTE ENGINEERING STUDY

AUTHOR: ROY F. WESTON, INC.

DATE: 02/01/84
CATEGORY: 1.2

WESTON
DESIGNERS CONSULTANTS

Table 2.5

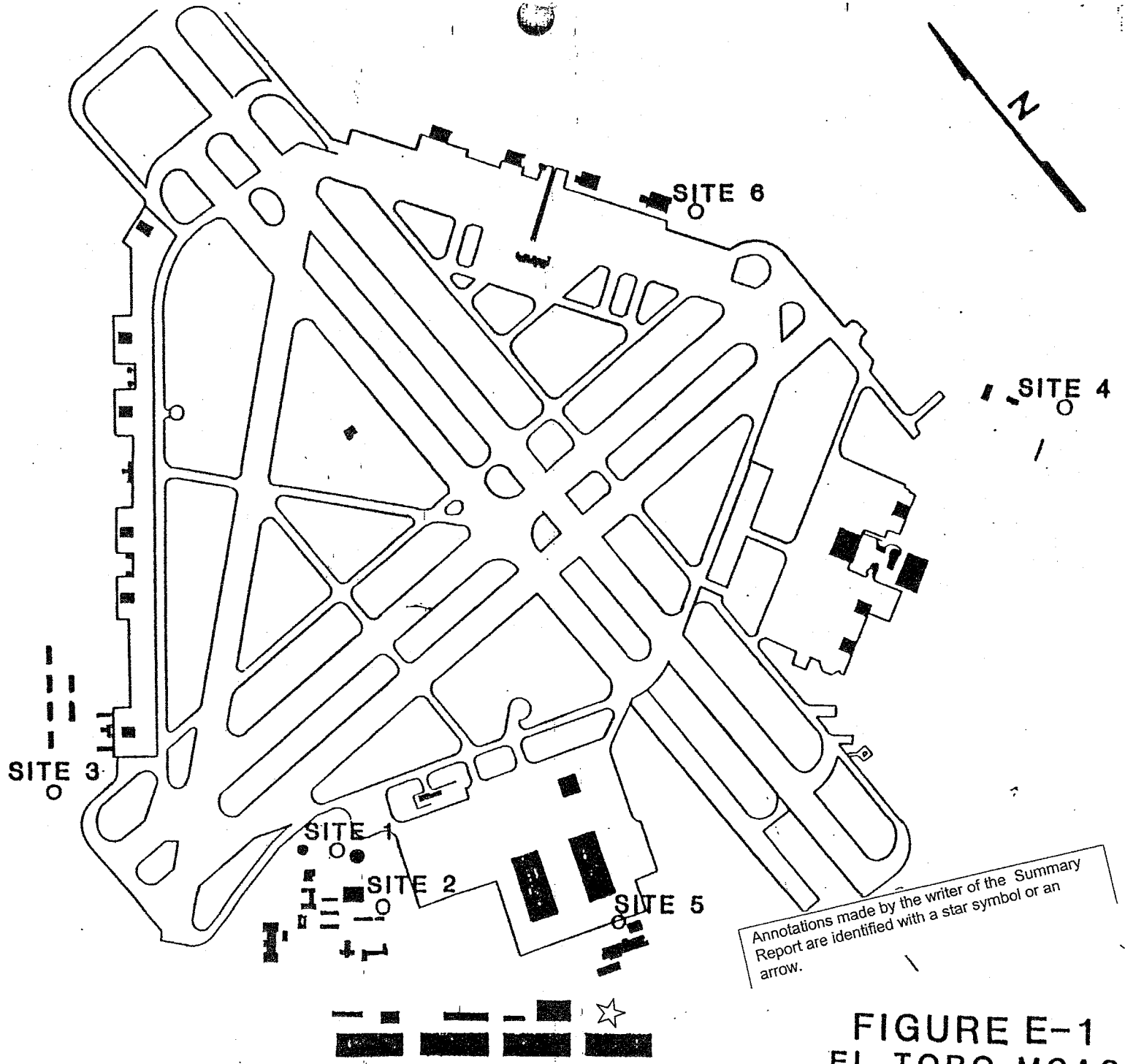
Aggregate Annual Hazardous Waste Generation Rates
DPDO El Toro

Waste Stream	Annual Volume Generated (gal)	Container Type	Potential Hazard[1]
Paint remover	170	5 gallon can	Corrosive
Nitric acid	1,470	6.5 gallon container	Corrosive
Sulfuric acid electrolyte	200	5 gallon drum	Corrosive
Potassium hydroxide	210	6 quart bottle	Corrosive
Miscellaneous corrosives	640	---	Corrosive
Sodium silicate solution	750	5 gallon can	Toxic
Cleaning compound	1,940	55 gallon drum	Toxic
Miscellaneous toxics	1,520	---	Toxic
Lacquer	2,620	5, 1 gallon can 1 quart, 1 pint can	Ignitable (IA)
Primer coating	420	1 gallon can 2 pint can	Ignitable (IA)
Polyurethane coating	410	2 gallon, 2 quart, 2 pint can	Ignitable (IA)
Miscellaneous ignitables (IA)	410	---	Ignitable (IA)
Fuel	8	1 pint can	Ignitable (IB)
Naptha alphamatic	210	5 gallon can	Ignitable (IC)

Table 2.5
(continued)

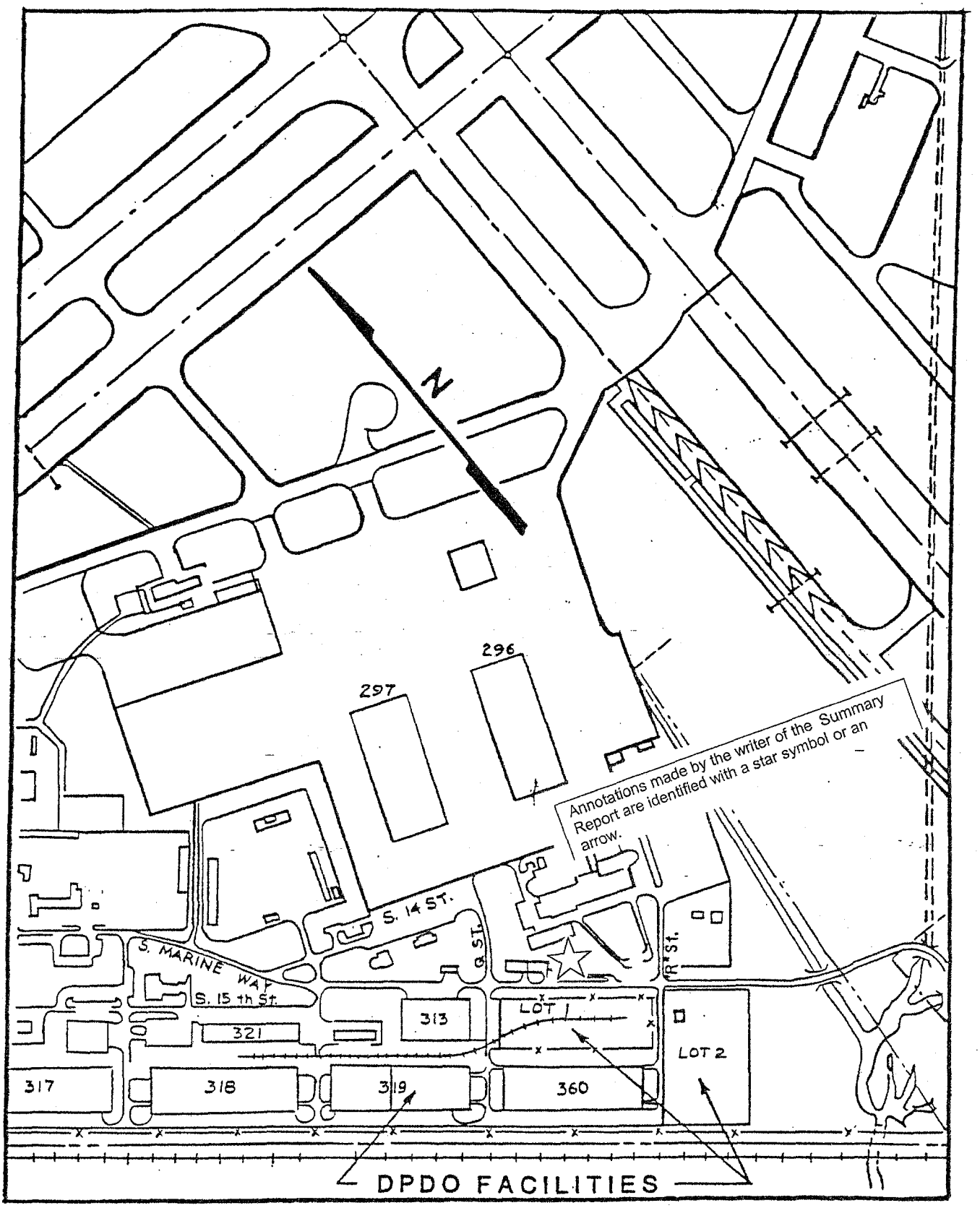
Waste Stream	Annual Volume Generated (gal)	Container Type	Potential Hazard[1]
Miscellaneous ignitables (III)	9,590	---	Ignitable (III)
Corrosion preventative compound	11,200	1 pint can 5 gallon can	Oxidizer
Miscellaneous oxidizers	870	---	Oxidizer

[1]Industrial wastes have been included in this list. Since they have not been tested, a conservative RCRA hazard category has been assigned.



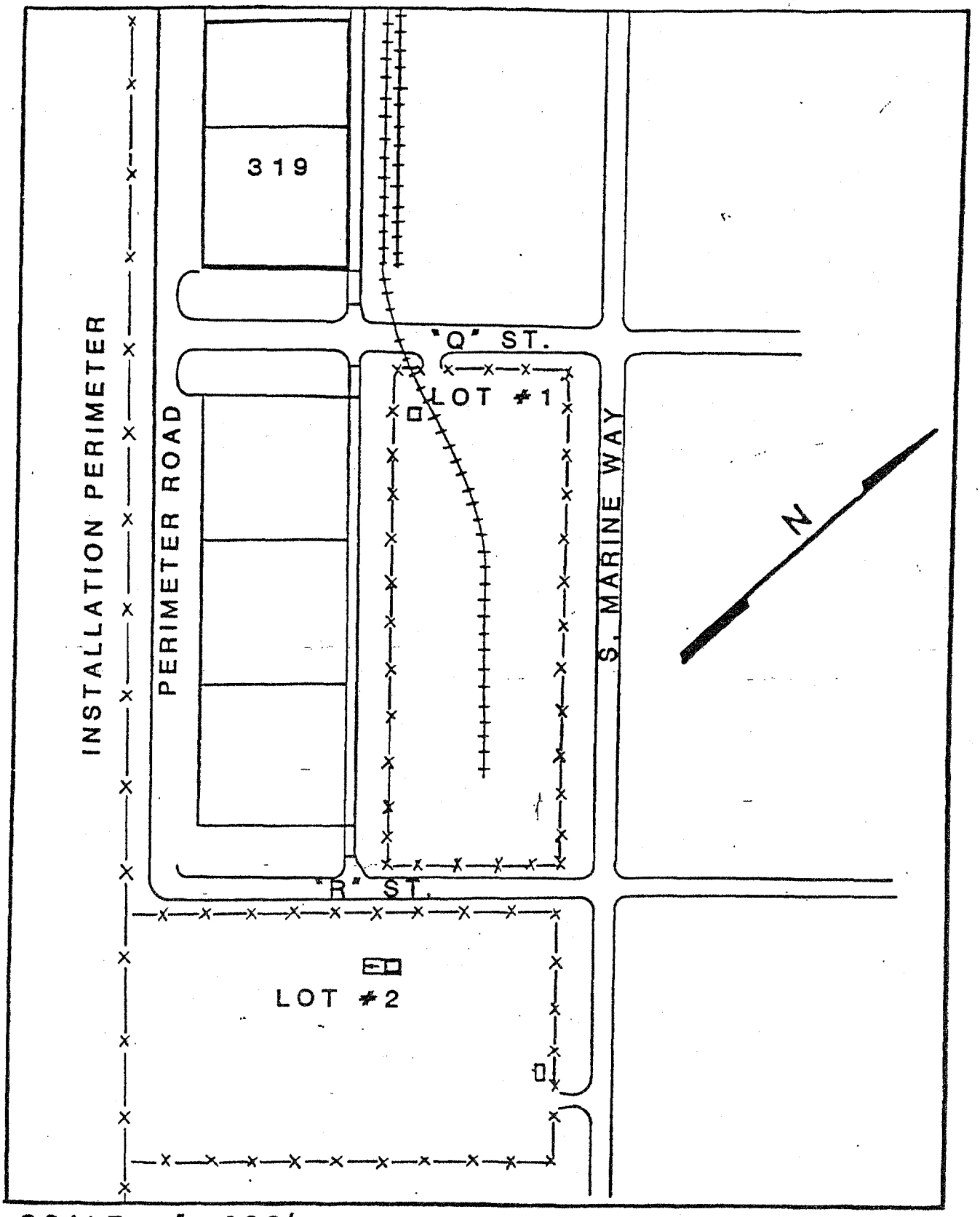
Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.

FIGURE E-1
EL TORO MCAS
HW STORAGE AREAS



SCALE: 1" = 600'

FIGURE E-2
DPDO LOCATION SITE PLAN
EL TORO MCAS



SCALE: 1" = 200'

FIGURE E-3
EXISTING DPDO STORAGE FACILITIES
EL TORO MCAS

CLE-C01-01F018-A2-025

N60050.000800

DUPLICATE

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

11/29/88

Prepared for:
Department of the Navy
Western Division
Naval Facilities Engineering Command
P.O. Box 727
San Bruno, California 94066

Prepared by:
NBS/Lowry
Engineers - Planners
Post Office Box 851
Hemet, CA 92343

economically justifiable. A determination should be made at the time of inspection as to whether cathodic equipment should be installed.

C. Hazardous Wastes Storage Areas

There are six designated hazardous wastes storage areas at MCAS El Toro. The locations of these areas are shown on the SPCC Key Map. Each area has been provided with a structure consisting of a 12-foot by a 16-foot, 8-inch concrete pad with a 6-inch containment curb. This pad is covered by a metal deck roof and surrounded by a chain link fence with a lockable gate. The structures are not provided with emergency eyewash stations, and, although originally planned, fire extinguishers have not been intalled because the fire department feels that personal safety would be threatened if an unauthorized person were to attempt to fight a large fire. Warning signs are posted listing Energy/Environmental and Fire Department phone numbers.

These storage pens were originally designed to provide short term storage (less than 90 days) for HM/HW generated at this station with hazardous materials being transferred to the Defense Reutilization and Marketing Office (DRMO), and hazardous waste being picked up by disposal contractors and

transferred off-site. The DRMO has since been given the responsibility for the disposal of hazardous wastes. DRMO does not, however, take physical custody of the waste material, as they do not currently have any facilities which conform to present storage requirements.

M60050.000776 (1-2)
4/17/89 TDP ~~776~~

MCAS EL TORO

ADDITIONAL SITES NEEDING INVESTIGATION

Tom D Peltier

DUPLICATE

M60050.000776
MCAS El Toro

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

N

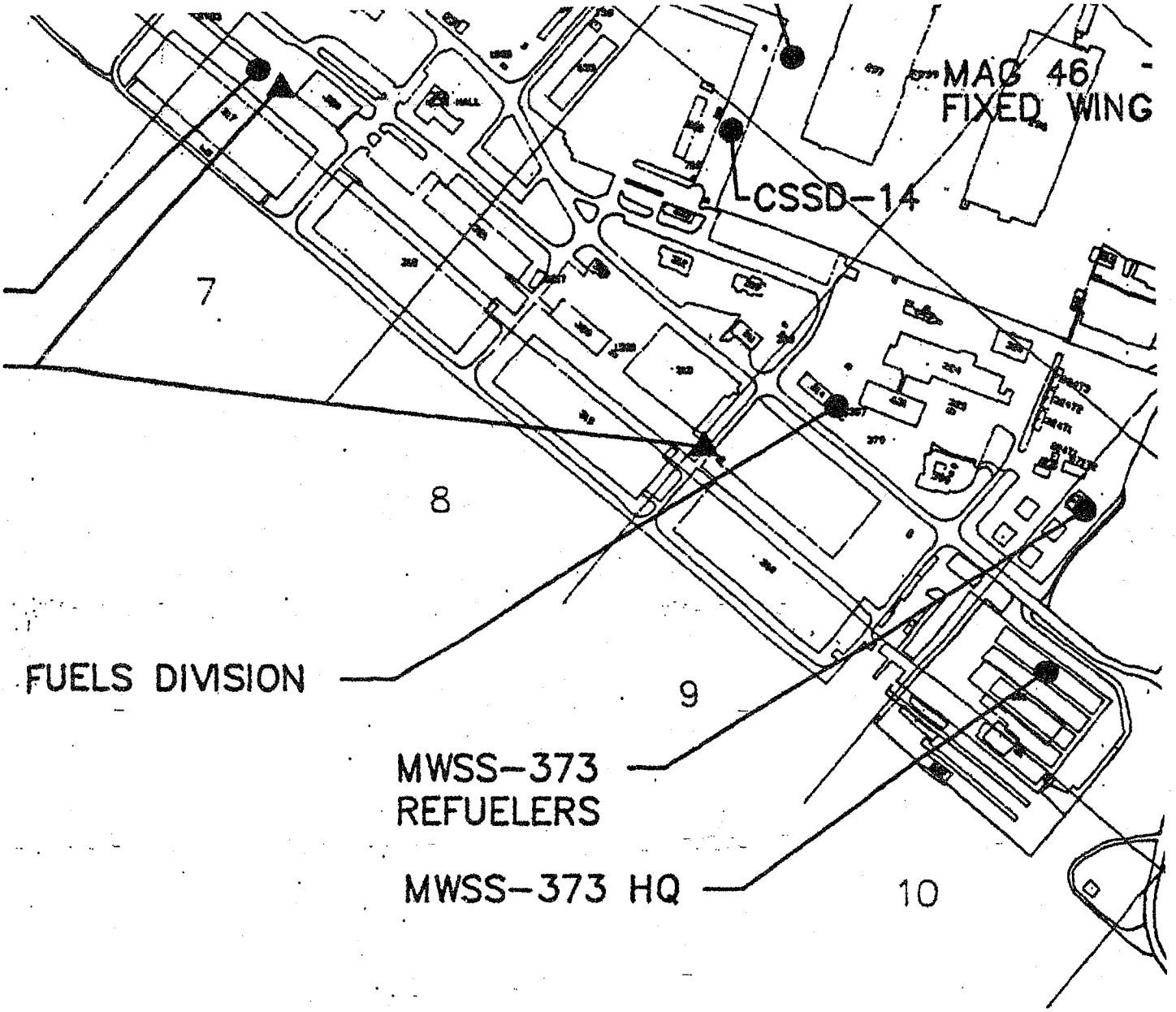
500' 250' 0 500' 1000'

1" = 500'

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	Q4
MAG-46 Fixed Wing	296	T9
MAG-46 Helo Mals-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 Ordinance	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	386	T7
MWHS-3	7	Q5
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	N9
VMFA (AW)-242	461	R11
VMFAT-101	371	Q10
VMFA-323	606	N8
VMGR-352	297	T8
VFMA-314	605	N7

☆ THE NEAREST TAA IS AT BUILDING 314 - TAA 314.


MAG 46
FIXED WING
CSSD-14
7
8
9
10
FUELS DIVISION
MWSS-373
REFUELERS
MWSS-373 HQ

Final

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

August 1994

Appendices A - G

Prepared for:

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

Prepared by:

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10260 Campus Point Drive
San Diego, CA 92121

Contract No. N68711-92-D-4658
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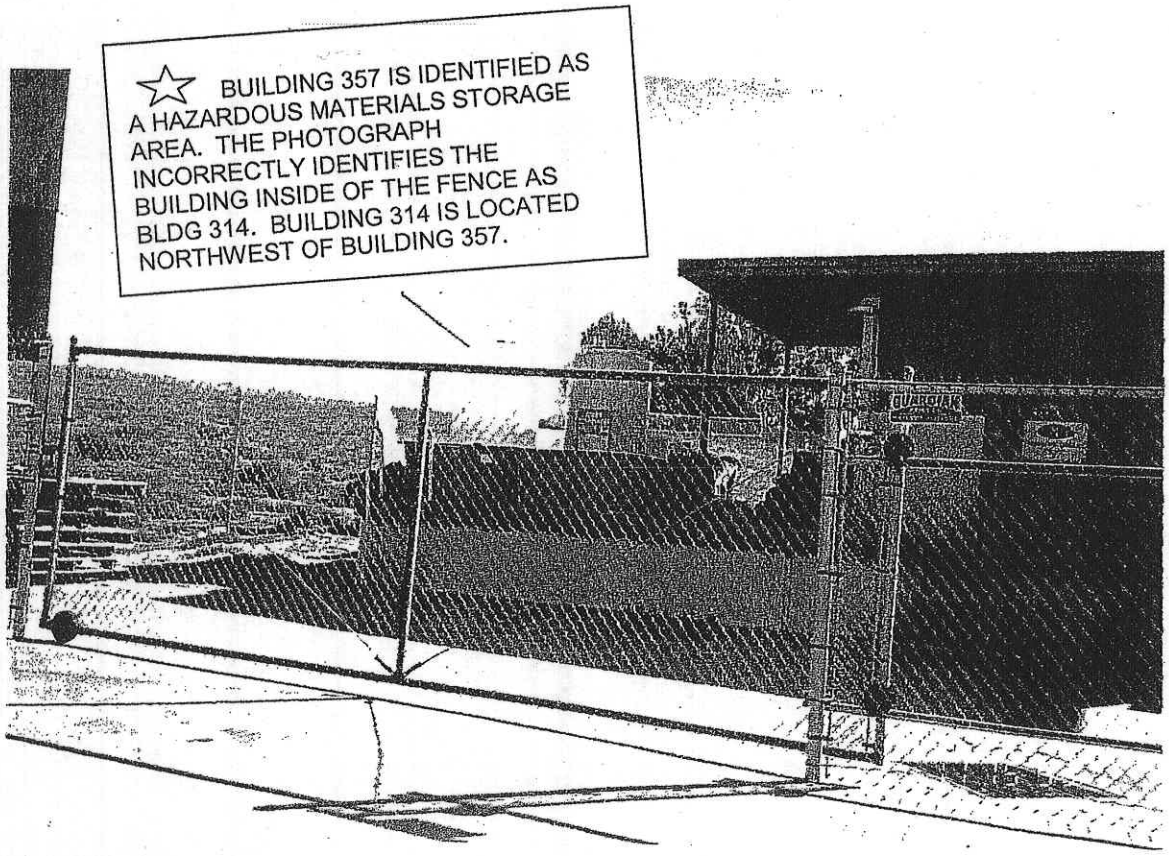
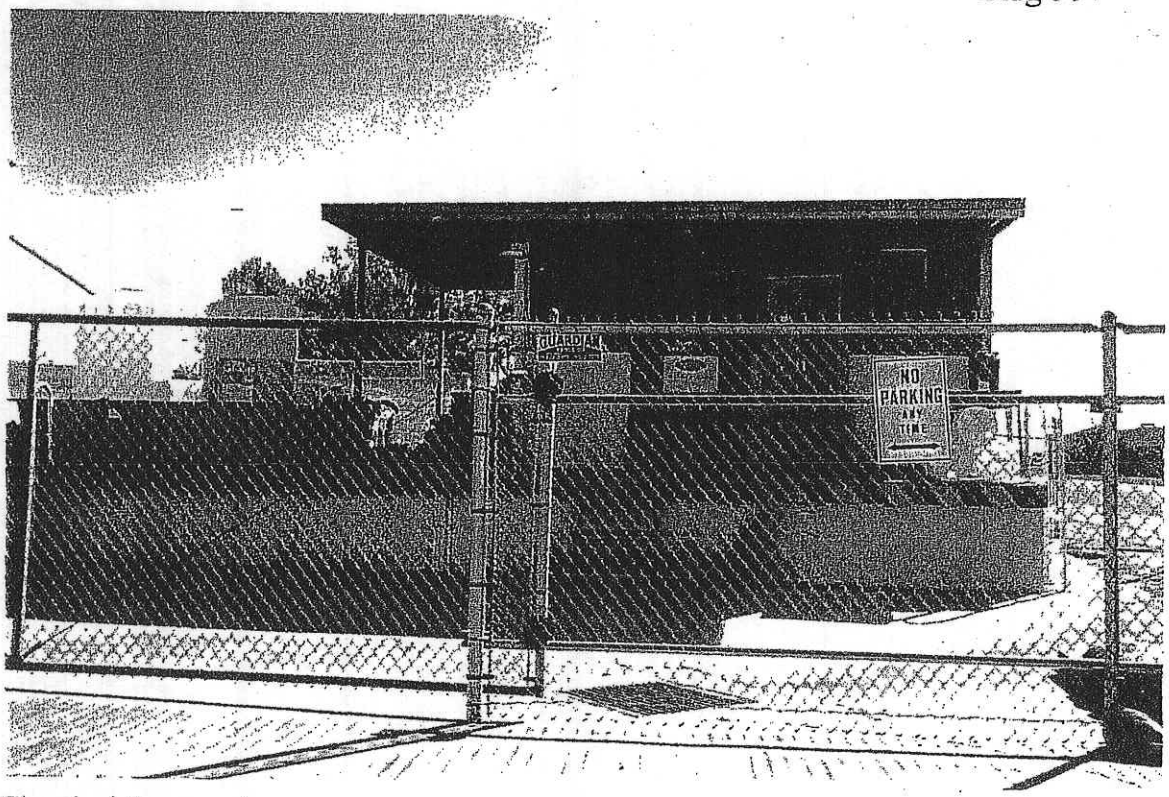


Chemical Storage Area

Bldg 314



Chemical Storage Area

Bldg 314

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

EXTRACTS

FOR

MARINE CORPS AIR STATION EL TORO
EL TORO, CALIFORNIA

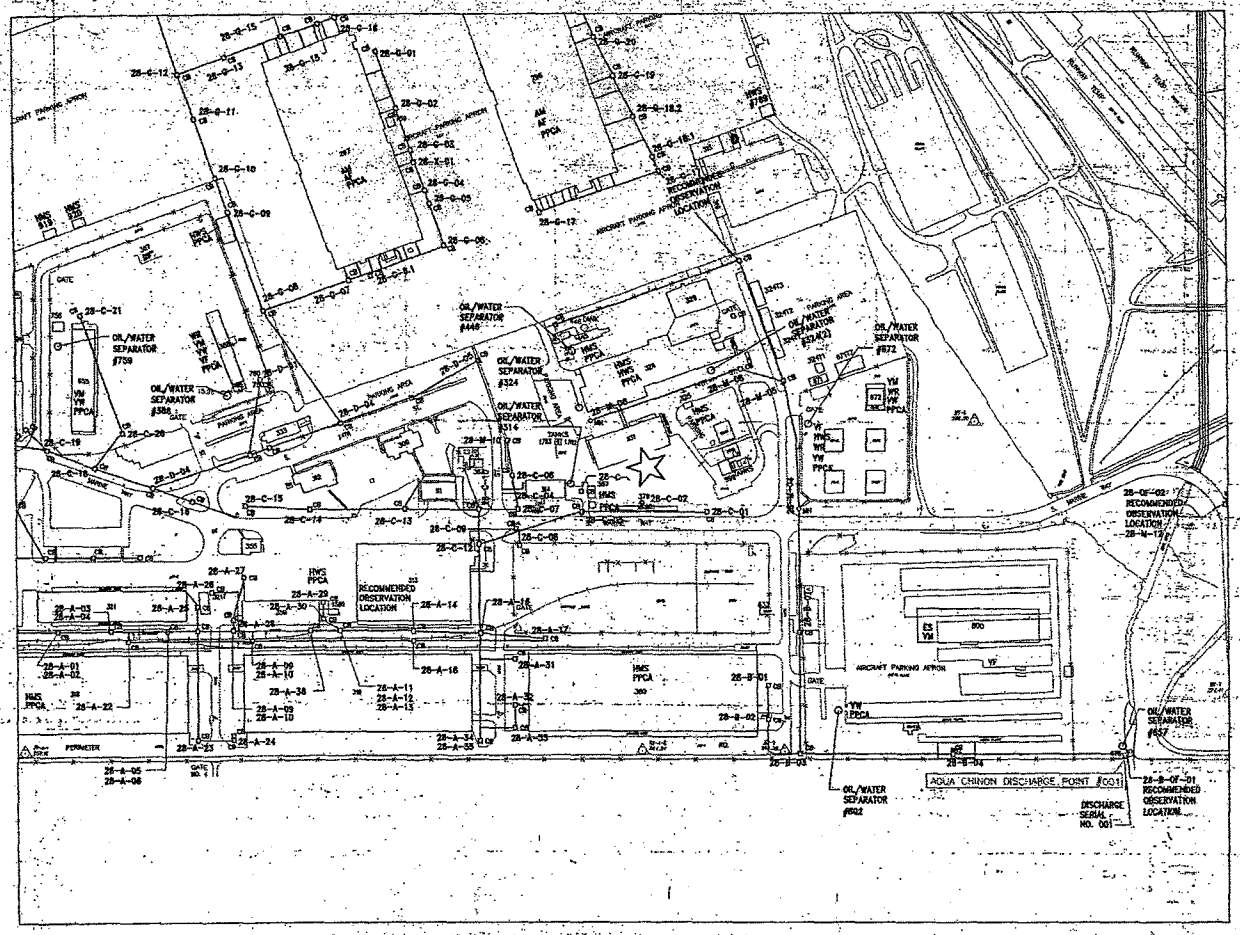
Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.

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

VOLUME 1

JULY, 1997

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC.



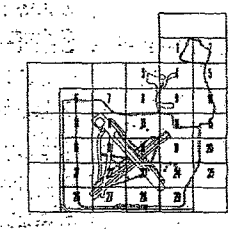
'MCAS' EL TORO - AREA 28

SCALE: 1"=150'-0"

REVISIONS				
SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED

LEGENDS

AST	–	ABOVE GROUND STORAGE TANK
AM	–	AIRCRAFT MAINTENANCE
AW	–	AIRCRAFT WASHING
AF	–	AIRCRAFT FUELING
AP	–	AIRCRAFT PAINTING
CB	–	CATCH BASIN
ES	–	EQUIPMENT STORAGE
EM	–	EQUIPMENT MAINTENANCE
HMS	–	HAZARDOUS MATERIAL STORAGE
HWS	–	HAZARDOUS WASTE STORAGE
HWTA	–	HAZARDOUS WASTE TRANSFER AREA
MH	–	MANHOLE
OWS	–	OIL/WATER SEPARATOR
PCA	–	POLLUTANT CONTACT AREA
PPCA	–	POTENTIAL POLLUTANT CONTACT AREA
UGT	–	UNDERGROUND STORAGE TANK
VP	–	VEHICLE PAINTING
VF	–	VEHICLE FUELING
VM	–	VEHICLE MAINTENANCE
VW	–	VEHICLE WASHING
WR	–	WASH RACK
WTA	–	WASTE TRANSFER AREA



KEY PLAN

SCALE: NONE

1"=150'-0" 150 0 150 300 SCALE FEET

IF SHEET IS LESS THAN 22X34 IT IS A REDUCED PRINT SCALE ACCORDINGLY

IEM
INTEGRATED ENVIRONMENTAL MANAGEMENT, INC.

PROJECT NO.	DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
	SOUTHWEST DIVISION — EL TORO — CALIFORNIA
DSGN. / DR. / SPEC.	MARINE CORPS AIR STATION — EL TORO, CA.
SURV. / CK. ENGR.	"MCAS" EL TORO
SUBMITTED BY / DATE	
FIRM NUMBER (TITLE)	AREA 28 – STORM DRAINS
DW / SM / IP	
DV. MGR. / DR.	
SATISFACTORY TO / DATE	SIZE D — CODE IDENT. NO. — NAVFAC DRAWING NO.
TITLE	
APPROVED / DATE	CONT. CONST. NO. – XXXX
SR. INV. FOR COMMANDER NAVFAC	SCALE — SPEC. — SHEET OF

STW1RAREA28.PDF

TABLE 5-1

BASIN 1

BUILDINGS OF LIMITED CONCERN

BLDG #	DESCRIPTION	TENANT
379	Truck Weighing Facility	Supply
383	Electrical Distribution Substation #2	Installation
387	Loading/Unloading Ramp	CSSD-14
435*	Aircraft Fire and Rescue Station	Station G-3
530	Storage Tank/Potable Water	Installation
616	Administration Office	Installation
700*	Filling Station C-Pool	Supply
742	Electrical Shop Storage	Installations
759*	Vehicle Washrack Utility Building	CSSD-14
760*	Vehicle Washrack Utility Building	CSSD-14
789	Sewage Monitoring Station	Installation
824	Crash Crew and Station Recovery	Station G-3
827	Supply Loading Ramp	Supply
853	Loading Ramp	Supply
859*	Recreational Vehicle Dump Site	MWR-Rec
862*	Hazardous Waste Storage Transfer Tank	Environment
866	Sentry House # 4	Security
867	Sentry House #5	Security
926	DRMO Office, Disposal Yard #1	DRMO
1703	Hazardous/Flammable Storehouse	Supply
1710*	Public Works Maintenance Storage	Installation

* Buildings with an asterisk indicate facilities which were not involved in any industrial activities or did not store any hazardous materials at the time of our field observations. However, these facilities appear to have been involved in activities of potential concern in the past. If activities of concern resume in the future, site specific BMPs should be adopted. These facilities/activities should be reviewed on an annual basis in order to update this plan as necessary.

BMP recommendations are to install an oil/water separator or prohibit vehicle washing, except at designated locations.

Building 314 - Highbay Storage - Supply.

There were no apparent current industrial activities in this building. However, drum storage inside the building, including liquid chlorine, was observed with no secondary containment. An oil/water separator (#314) was connected to floor drains inside the building; however, these floor drains have been closed and cemented. The oil/water separator could be removed; or if it could potentially be used again, it should be checked to insure proper operation and proper connections.

BMP recommendations include providing secondary containment for the inside drum storage, installing a spill kit, provide training of personnel in the use of the spill kit, and provide a copy of the SPCCP.

Building 317 - Commissary Warehouse - DECA)/Marine Corps Supply - Supply

Activities of potential concern included shipping and receiving of various goods such as soaps and detergents along with other dry goods. Drums of cleaning compounds and other substances are stored outside. Fork lift battery charging area was observed to be severely stained and etched from spilled battery fluids. Two small paint lockers were located on pallets outside near the west end of the building with no secondary containment. Tractor-trailers parked outside present a potential source of pollution if they leak in this area.

Best management practices included the daily sweeping and scrubbing of the interior floors with detergent. A SPCCP was present and the workers have spill cleanup training. However, no spill kit was observed within the building. BMP recommendations are to obtain a spill kit, properly dispose of surplus materials/ wastes/ equipment or store under cover, provide secondary containment, and correctly label and store waste. Non-metallic drip pans should be placed under fork lifts during battery recharging.

Building 317C1 - Fenced Storage Yard - *Federal Disposal Service*

This storage yard contains equipment related to disposal of solid waste/garbage at MCAS El Toro. Oil was observed to have leaked from a waste storage bin containing used hydraulic equipment which is located beside a storm water drainage ditch. A wash rack was also located at the site with no apparent secondary containment. No oil/water separator was observed and discharge of waste wash water drains to the adjacent storm drain

Building 320 - Hazardous/Flammable Materials Storehouse - Supply

A deep, large sump is located in the northwest corner of the materials storage room. A storm drain swale is located along the train dock. Empty drums and gas cylinders are stored in a separate room at the southeast corner of the building. An outdoor hazardous materials storage yard in located at the west end of the building. Two spill kits are located in this area. Cans and drums are stored on secondary containment pallets on a concrete pad and are located under a canopy. The outdoor storage area is not paved and is sloped toward a storm drain near the southwest corner of the surrounding fence. A low berm consisting of weathered sandbags is installed around the storm drain to prevent yard runoff from discharging into the drain.

Current BMPs involved weekly dry sweeping of the building and included spill cleanup training. A spill cleanup kit and a SPCCP were in place. Recommended BMPs include replacing the sand bag containment around the storm drain with a more permanent structure.

Building 322 - EM Mess Open - Vacant.

A dark, semi-liquid substance was observed to be discharging into the floor drain in the "Asst. Dining Facility Manager's" office. The storm drain area map indicates that this drains into the storm drain system. An empty above ground fuel tank was located outdoors at the south side of the building with no secondary containment. The exterior walls of the building were deteriorating which may be releasing asbestos from the stucco to the surrounding ground surface. This material could then be carried to a local storm drain.

This building was scheduled to be demolished. Recommended BMPs include removing the above ground fuel tank and sealing the floor drain to prevent discharge to the storm drain system. Routine inspection of the building should be performed so that unauthorized debris or containers are not stored in the building.

Building 357 - Hazardous /Flammable Storehouse - Installation

This facility consisted of a fenced enclosed, paved storage yard with a small, elevated shed. Drums were stored on pallets with no secondary containment or cover. A storm drain exists inside this small yard and any spills or leaks have the potential to either directly discharge or be carried by storm water run-off into the storm drain system. Materials stored at this facility included Entec 702 Anticorrosion liquid and Phosphoric Acid. Near Building 357, an oil/water separator (#357) was present which previously served floor drains, but the pipe from a drain to the oil/water separator was disconnected. It was not known whether the separator was being used; but

provided.

Building 359 - MTIS Building - Supply

This building was used for storage of aircraft parts. Two open floor drains were reportedly not in use (sealed). One "hot dip" degreasing tank, one additional tank had been removed, is located at the site but it was reported that this tank has not been used for 20+ years. A formed engine block cleaning area outdoors at the east end of building 359 has an open waste wash/storm drain. Potential pollutants included lacquer, desiccants and cleaners. There was a flammable storage area near Building 359 requiring secondary containment. Drums of corrosive cleaners were observed on site.

BMP recommendations are to distribute a SPCCP and install a spill kit. Personnel should be trained in spill response techniques. A concrete secondary containment berm is needed for proper storage of drums containing corrosive cleaners.

Building 360 - Storage MC Air/Ground Organic Unit - Supply

No industrial activity occurs at this facility however a hazardous materials storage area is located outside at the east end of the building. This storage is paved and is covered. Numerous drums are stored on either normal pallets or on secondary containment pallets, however, there is no additional containment. A central drain, which discharges to the storm drain system, is located inside the yard and is covered with disintegrating sand bags. Another storm drain is located near the south of this storage yard and is open. A limited spill kit consisting of a non-metallic shovel and absorbent is present at the site.

Recommended BMPs include installing a more equipped spill kit and training personnel in spill response techniques. A SPCCP should also be developed and placed at the site. Drum storage should be moved to areas with secondary containment and under canopies. The two existing storm drains should be covered during the dry season to prevent any accidental spills from discharging to the storm drain system. The sand bags presently in place should be removed and replaced with a more permanent structure for protection of the storm drains.

Building 369 - Servmart - Supply

Potential pollutants included soap, solvents, waste oils, recyclables, metals, wax removers, bleaches, lacquers, and paints. Hazardous materials are stored in a separate, bermed room. A storm drain located outdoors near

prevent pollutants entering the storm water system.

Building 370 - Public Works Paint/Carpentry/Metal Trades - Installation

Industrial activity at this facility includes light painting, carpentry, and metal work and storage. Two oil drums are located on racks without secondary containment in the west side of the building near the garage door. Two drums containing oil and TCP are also located in an outside storage yard without secondary containment or cover. An air compressor is located on a bermed concrete pad on the east side of the building in a covered, fenced enclosure. Severe oil staining was noted around the air compressor installation.

Recommended BMPs include moving the stored drums to a covered area with secondary containment. A spill kit and SPCCP should be provided and personnel trained in spill response techniques. The air compressor should be routinely inspected and leaking oil should be abated.

Building 386 - Construction Equipment Shop - Installation

Industrial activity at this facility includes work on heavy equipment hydraulic systems as well as vehicle washing and general maintenance. Potential pollutants included hydraulic oil, gear oil, additives, diesel, solvents, waste oils and vehicle wash waste. A wash rack equipped with an oil/water separator (#386) was present, but it has not been used according to site personnel. Diversion valves should be checked to insure they are operable to prevent potential discharge to the storm drain system. The separator should be inspected quarterly for possible mechanical failure and should be serviced according to the manufacturer's specifications. There was a covered hazardous waste storage area with secondary containment and a fence. Drums stored outside Building 386 containing rags stained with oil, lube oil, fuel conditioner, and antifreeze. Secondary containment is needed if these drums are to remain. Uncovered tires were stored near the hazardous waste storage area. Batteries stored inside Building 386 require proper containment. a SPCCP and spill kit were present and personnel had received spill response training.

BMP recommendations are to routinely inspect and maintain the oil/water separator, provide secondary containment for the fifty-five gallon drums, eliminate surplus materials, wastes and equipment or store under cover.

TABLE 5-2

BASIN 1

SUMMARY OF BMPs

BLDG #	BASIN	BUILDING DESCRIPTION	TENANT	Concern Level	BMP STATUS	BMP #	BMP Description
					Rec	112	Prepare Appropriate Spill Prevention and Response Plans
					Rec	012	Construct Berm or Dike Around Critical Areas
					Existing	041	Wash Equipment and Vehicles in Designated Areas.
					Rec	065	Place Spill Kit in Area
370	01	PW Paint/Carp/Metal Trades	Installation	Concern	Rec	009	Personnel Training
					Rec	112	Prepare Appropriate Spill Prevention and Response Plans
					Rec	012	Construct Berm or Dike Around Critical Areas
					Rec	018	Provide Roof to Cover Source Area
					Rec	065	Place Spill Kit in Area
379	01	Truck Weighing Facility	Supply	Limited			No Additional BMPs are Recommended
383	01	Electrical Distribution Substation #2	Installation	Limited			No Additional BMPs are Recommended
386	01	Const. Equip Shop	Installation	Concern	Existing	009	Personnel Training
					Existing	112	Spill Prevention, Control Countermeasures Plan
					Rec	012	Construct Berm or Dike Around Critical Areas
					Rec	110	Regularly Inspect and Maintain Storm Water Conveyance Systems
					Rec	032	Dispose of Surplus Materials/Wastes/Equipment or Store Under Cover
					Existing	065	Place Spill Kit in Area
387	01	Loading/Unloading	CSSD-14	Limited			No Additional BMPs are Recommended

TABLE 7-1

MCAS EL TORO MATERIALS INVENTORY

BLDG #	BASIN	BUILDING DESCRIPTION	TENANT	Concern Level	TRADE/COMMON NAME	MAX. DAY	AVE. Day	CONT.
308	08	GSE Storage	MALS-11	Concern	Solvent	N/A	N/A	N/A
311	01	Fire Station #2	Station	Concern	Detergent	N/A	N/A	N/A
314	01	Highbay Storage	Supply	Concern	AQUA SERV 2302 Boiler TRT	220 gal	55 gal	55 gal
314	01	Highbay Storage	Supply	Concern	AQUA SERV 4692	80 gal	40 gal	5 gal
314	01	Highbay Storage	Supply	Concern	AQUA SERV 5425	90 gal	40 gal	5 gal
314	01	Highbay Storage	Supply	Concern	AQUA SERV 5483	220 gal	55 gal	55gal
314	01	Highbay Storage	Supply	Concern	AQUA SERV 7420	180 gal	90 gal	5 gal
314	01	Highbay Storage	Supply	Concern	AQUA SERV 7423	180 gal	80 gal	5 gal
314	01	Highbay Storage	Supply	Concern	AQUA SERV 8412	660 gal	55 gal	55 gal
314	01	Highbay Storage	Supply	Concern	Caustic Soda Flake	1200 lb	300 lb	100 lb
314	01	Highbay Storage	Supply	Concern	Chlorinator Tablet	500 lb	200 lb	50 lb
314	01	Highbay Storage	Supply	Concern	HASA DRI-SHOCK Powder	500 lb	100 lb	100 lb
314	01	Highbay Storage	Supply	Concern	HASA GRANULAR Chlorinating compound	1200 lb	200 lb	100 lb
314	01	Highbay Storage	Supply	Concern	HASA Muriatic Acid	1000 gal	110 gal	55 gal
314	01	Highbay Storage	Supply	Concern	Hasachlor, Sodium Hypochlorite	500 gal	100 gal	500 gal

TABLE 7-1
MCAS EL TORO MATERIALS INVENTORY

BLDG #	BASIN	BUILDING DESCRIPTION	TENANT	Concern Level	TRADE/COMMON NAME	MAX. DAY	AVE. Day	CONT.
314	01	Highbay Storage	Supply	Concern	Phosphoric Acid	220 gal	55 gal	55 gal
314	01	Highbay Storage	Supply	Concern	Unichem 606	385 gal	55 gal	55 gal
314	01	Highbay Storage	Supply	Concern	W.C.Chemical Engineer 710	2310 gal	550 gal	55 gal
315	01	MWSS-473		Limited	Cleaning Solvents	55 gal	25 gal	55 gal
315	01	MWSS-473		Limited	Dry Cleaning Solvent	719 gal	442 gal	55 gal
315	01	MWSS-473		Limited	SPIRAX OIL 80/90W	60 gal	15 gal	5 gal
317	01	Commissary Warehouse	DECA	Concern	Cleaning Compound	N/A	N/A	55 gal
317C2	01	Fenced Storage Yard	*Miranda's Landscaping*	Concern	Diesel Fuel	N/A	N/A	250 gal
317C3	01	Fenced Storage Yard		Concern	Fertilizer/Pesticides	N/A	N/A	N/A
317C1	01	Fenced Storage Yard	*Federal Disposal Service*	Concern	Waste Oil	N/A	N/A	55 gal
318	01	General Warehouse	Supply	Concern	Paints	N/A	N/A	N/A
320	01	Hazardous/Flammable Storage	Supply	Concern	Argon	6501 cf	600 cf	200 cf
320	01	Hazardous/Flammable Storage	Supply	Concern	Carbon Dioxide	1700 lb	1000 lb	500 lb
320	01	Hazardous/Flammable	Supply	Concern	Cleaning Compound	85 gal	55 gal	5 gal

TABLE 7-1

MCAS EL TORO MATERIALS INVENTORY

BLDG #	BASIN	BUILDING DESCRIPTION	TENANT	Concern Level	TRADE/COMMON NAME	MAX. DAY	AVE. Day	CONT.
320	01	Hazardous/Flammable Storage	Supply	Concern	Lubricating Oil, aircraft	11487 qt	2500 qt	1 qt
320	01	Hazardous/Flammable Storage	Supply	Concern	Lubricating/Gear Oil 80/90W	55 gal	5 gal	5 gal
320	01	Hazardous/Flammable Storage	Supply	Concern	Nitrogen	1288 cf	364 cf	187 cf
320	01	Hazardous/Flammable Storage	Supply	Concern	Sodium Hypochlorite	58 gal	5 gal	1 gal
322	01	EM Mess Open	Vacant	Concern	N/A			
324	02	Comm/MT/Const/ TAFDS	MWSS-374	Concern	N/A			
325	02	Haz/Flam Storehouse	FREST	Concern	N/A			
353	08	A/C Ready Fuel Storage Tank Farm #4	Supply	Concern	Aviation Gasoline	N/A	N/A	N/A
357	01	Haz/Flam Storehouse	Installation	Concern	Anticorrosion Liquid	N/A	N/A	55 gal
357	01	Haz/Flam Storehouse	Installation	Concern	Entec 702	N/A	N/A	55 gal
357	01	Haz/Flam Storehouse	Installation	Concern	Phosphoric Acid	N/A	N/A	55 gal
359	01	MTIS Building	Supply	Concern	Corrosive Cleaner	N/A	N/A	55 gal
359	01	MTIS Building	Supply	Concern	Desiccants	N/A	N/A	N/A

TABLE 7-1
MCAS EL TORO MATERIALS INVENTORY

BLDG #	BASIN	BUILDING DESCRIPTION	TENANT	Concern Level	TRADE/COMMON NAME	MAX. DAY	AVE. Day	CONT.
371	37	Maint Hngr Space	VMFAT-101	Concern	Waste Oil	N/A	N/A	N/A
374	37	Conversion Station	Installation	Concern	N/A			
386	01	Const. Equip Shop	Installation	Concern	Diesel Fuel	N/A	N/A	N/A
386	01	Const. Equip Shop	Installation	Concern	Gear Oil	N/A	N/A	N/A
386	01	Const. Equip Shop	Installation	Concern	Hydraulic Oil	N/A	N/A	N/A
386	01	Const. Equip Shop	Installation	Concern	Solvents	N/A	N/A	N/A
386	01	Const. Equip Shop	Installation	Concern	Waste Oil	N/A	N/A	N/A
388 B	01	UST - Field Maint Area	CSSD-14	Concern	Diesel Fuel No. 2	18000 gal	1000 gal	2000 gal
388	01	Field Maint Shop	CSSD-14	Concern	Jet Fuel JP-5	N/A	N/A	55 gal
388	01	Field Maint Shop	CSSD-14	Concern	Waste Oil	N/A	N/A	55 gal
389	10	Loading/Unloading Ramp	Station	Concern	Aerosol Paint	N/A	N/A	N/A
389	10	Loading/Unloading Ramp	Station	Concern	Antifreeze	N/A	N/A	N/A
389	10	Loading/Unloading Ramp	Station	Concern	Grease	N/A	N/A	N/A
389	10	Loading/Unloading Ramp	Station	Concern	Lubricating Oil	N/A	N/A	N/A
390 A	10	Tank - Golf course maint	MWR	Concern	Diesel Fuel No. 2	500 gal	250 gal	500 gal
390 B	10	Tank - Golf course maint	MWR	Concern	Gasoline, Regular Unleaded	500 gal	250 gal	500 gal
390	10	Golf Cart Shop	MWR	Concern	Waste Oil	N/A	N/A	N/A

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."

SOUTHWESTNAVFACENGCOM
CODE 06CC.LMH
SAN DIEGO, CA 92101

Extracts from Property Records, Building Guides, and Facility Maps

419	69015	SALUTING BATTERIES / MOUNTS		19480115	SY	0	63	48	0	$1,288	$10,227	1948	
475	61010	STORAGE BLDG.	NBY5421	19450115	SF	192	16	12	9	$1,500	$15,167	1946	
523	17120	HOBBY SHOP/ARTS/CRAFT		19450115	SF	192	16	12	9	$1,152	$13,526	1945	
496	21925	SEWAGE METER HOUSE		19480101	SF	480	24	20	14	$40,633	$117,139	1948	1985
349	13420	ROTATING LIGHT BEACON	NOY8758	19430501	SY	0	14	14	65	$15,000	$205,815	1943	
	76020	BELL - FIELD PIECES		19490501	SY	0	0	0	0	$50,327	$83,138	1949	
357	44130	HAZ/FLAM STOREHOUSE	NOY24718	19510201	SF	192	16	12	9	$6,500	$44,064	1951	
358	84209	WTR DISTRIBTN BLDG	NOY19950	19510115	SF	711	29	21	9	$16,799	$115,880	1951	
536	42148	MAGAZINE	NOY27078	19520301	SF	1,250	50	25	12	$31,190	$202,055	1952	1988
537	42148	MAGAZINE	NOY27078	19520301	SF	1,250	50	25	12	$31,191	$202,057	1952	1988
538	42148	MAGAZINE	NOY27078	19520301	SF	1,250	50	25	12	$31,191	$202,057	1952	1988
539	42148	MAGAZINE	NOY27078	19520301	SF	140	14	10	7	$7,051	$28,729	1952	1988
540	42112	MAGAZINE HIGH EXPLOSIVE	NOY27078	19520301	SF	140	14	10	7	$7,050	$28,727	1952	1988
542	42122	MAGAZINE	NOY27078	19520301	SF	1,250	50	25	12	$31,669	$202,620	1952	1990
543	42122	FUSE/DETONATOR MAGAZINE	NOY27078	19520301	SF	1,250	50	25	12	$40,444	$214,457	1952	1990
544	42122	SMOKELESS PDR PROJECTL MA	NOY27078	19520301	SF	1,250	50	25	12	$31,669	$202,620	1952	1990
545	42122	MAGAZINE	NOY27078	19520301	SF	1,250	50	25	12	$30,360	$206,418	1952	
546	42122	MAGAZINE	NOY27078	19520301	SF	1,250	50	25	12	$31,190	$202,055	1952	1988
FT547	12430	JET FUEL STGE TANK 13500 BBL		19530601	SY	0	88	0	13	$89,212	$585,231	1953	
FT548	12430	JET FUEL STGE TANK 13500 BBL		19530601	SY	0	88	0	13	$89,212	$585,231	1953	
FT549	12430	JET FUEL STGE TANK 13500 BBL		19530601	SY	0	88	0	13	$90,041	$590,669	1953	
FT550	12430	JET FUEL STGE TANK 13500 BBL		19530601	SY	0	88	0	13	$89,212	$585,231	1953	
FT551	12430	JET FUEL STGE TANK 13500 BBL		19530601	SY	0	88	0	13	$89,212	$585,231	1953	
355	74005	EXCHANGE OUTLET		19430601	SF	900	50	18	10	$2,898	$39,419	1943	
360	44110	STOREHOUSE	NOY27076	19520101	SF	124,920	603	200	26	$1,280,480	$7,338,871	1952	1990
359	44110	MTIS BLDG	NOY27076	19520201	SF	13,065	201	65	14	$115,870	$782,568	1952	1984
379	89056	MOTOR TRUCK SCALE		19531001	SY	0	0	0	0	$10,183	$66,800	1953	
530	84140	WATER PRESSURE TANK	NOY10290	19450701	SY	0	28	0	0	$7,000	$83,349	1945	
375	72412	BOQ	NOY71156	19540201	SF	19,392	199	96	18	$394,198	$1,940,314	1954	1990
363	12520	METERING STATION	NOY26892	19520101	SF	200	38	8	12	$2,130	$14,482	1952	
552	12520	FUEL TESTING OFF/LAB	NOY26892	19540101	SF	304	17	12	9	$4,594	$15,993	1954	1988
	11210	B/TAXIWAY	NOY5421	19630501	SY	745,529	0	0	0	$5,295,696	$26,780,498	1943	1989
586	13450	OBSTRUCTION LIGHT HOUSE # 1		19450115	SY	0	6	6	9	$180	$2,143	1945	
587	13450	OBSTRUCTION LIGHT HOUSE # 2		19450115	SY	0	6	6	9	$180	$2,143	1945	
588	13450	OBSTRUCTION LIGHT HOUSE 3		19450201	SY	0	6	6	9	$180	$2,143	1945	
594	13450	OBSTRUCTION LIGHT HOUSE 9		19451101	SY	0	6	6	9	$180	$2,143	1945	
596	13450	OBSTRUCTION LIGHT HOUSE # 11		19450115	SY	0	6	6	9	$180	$2,143	1945	
597	13450	OBSTRUCTION LIGHT HOUSE # 12		19450115	SY	0	6	6	9	$180	$2,143	1945	
598	13450	OBSTRUCTION LIGHT HOUSE 13		19450115	SY	0	6	6	9	$180	$2,143	1945	
	13630	RUNWAY LIGHTING	NOY23438	19630501	SY	0	0	0	0	$461,153	$3,126,156	1951	
1580	44110	STORAGE /MISC/		19450201	SF	375	25	15	7	$750	$8,806	1945	
1595	21925	PW STORAGE		19450115	SF	1,722	82	21	9	$1,722	$20,218	1945	
	83130	GOLF COURSE SEPTIC TANK		19460501		0	0	0	0	$1,820	$18,762	1946	
	75056	GOLF DRIVING RANGE		19490501	SY	0	950	250	0	$34,068	$270,364	1949	
432	75020	PLAYING FIELD		19480501		0	650	400	0	$46,134	$279,014	1948	1990
	75040	GOLF COURSE	N32	19490501	SY	0	0	0	0	$272,123	$2,159,568	1949	
	83120	OUTFALL SEWER LINE	NOY5421	19490501		0	0	0	0	$32,288	$423,037	1944	
366	72111	BACHELOR ENL QTRS E1/E4	NOY71128	19540101	SF	45,136	288	208	47	$634,199	$3,571,367	1954	1988
367	72111	BACHELOR ENLISTED QUARTERS	NOY71128	19540101	SF	45,136	288	208	47	$633,796	$3,573,487	1954	1988
364	72210	MESSHALL	NOY74044	19520101	SF	40,817	261	257	21	$1,248,727	$5,770,140	1952	1986
567	83229	SEWAGE PUMPING STA SHLT	NOY71156	19540115	SF	80	10	9	12	$8,350	$52,830	1954	
289	21105	STA ACFT HANGAR	NOY8759	19440201	SF	10,370	122	85	27	$58,882	$458,717	1944	1990
251	61010	CONFERENCE CENTER	NOY8759	19440101	SF	4,299	170	151	14	$206,843	$2,171,222	1944	1988

5231	71161	RENTAL HOUSING /NAMAR/		19450301	SF	2,158	105	20	10	$12,816	$148,322	1945	1980
5215	71161	RENTAL HOUSING /NAMAR/		19450301	SF	4,644	113	20	19	$20,591	$236,611	1945	1980
5216	71161	RENTAL HOUSING /NAMAR/		19450301	SF	4,644	113	20	19	$20,591	$236,611	1945	1980
5217	71161	RENTAL HOUSING /NAMAR/		19450301	SF	4,644	113	20	19	$20,591	$236,611	1945	1980
5218	71161	RENTAL HOUSING /NAMAR/		19450301	SF	4,644	113	20	19	$20,591	$236,611	1945	1980
5219	71161	RENTAL HOUSING /NAMAR/		19450301	SF	4,644	113	20	19	$20,591	$236,611	1945	1980
5224	71161	RENTAL HOUSING /NAMAR/		19450301	SF	4,644	113	20	19	$20,591	$236,611	1945	1980
5234	71161	RENTAL HOUSING /NAMAR/		19450301	SF	4,644	113	20	19	$20,591	$236,611	1945	1980
5242	71161	RENTAL HOUSING /NAMAR/		19450301	SF	4,644	113	20	19	$20,591	$236,611	1945	1980
320	44130	PAINT-CHEMICAL STOREHOUSE	NOY10151	19450101	SF	17,100	171	100	16	$76,895	$871,042	1945	1990
322	72210	MESS HALL/ENLISTED	NOY10151	19450301	SF	10,653	142	112	22	$148,183	$1,265,334	1945	1990
325	44130	HAZARDOUS MATERIAL BLDG.	NOY8647	19450801	SF	251	22	11	8	$1,500	$18,059	1945	
328	61071	GROUP HEADQUARTERS	NOY11416	19450801	SF	43,923	228	163	21	$315,876	$3,228,136	1945	1990
329	61010	DECA HEADQUARTERS	NOY11416	19450301	SF	22,328	228	163	21	$122,623	$1,338,162	1945	1990
534	44130	CHEMICAL STORAGE BLDG	NOY9453	19460801	SF	800	40	20	13	$8,189	$41,105	1946	1990
335	84209	PUMPHOUSE	NOY10290	19451001	SF	1,125	48	23	14	$14,999	$194,912	1945	1980
333	21453	FIELD MAINT SHOP	NOY8802	19450201	SF	2,610	95	30	11	$21,073	$241,640	1945	1989
341	21860	GSE SHOP	NOY11416	19450201	SF	468	22	21	9	$4,197	$32,080	1945	1981
326	83141	HAZ/WASTE STORAGE/TRANSFER	NOY11210	19450101	SF	11,446	113	72	42	$290,577	$3,498,257	1945	
307	61072	LAUNDRY/COMM ELEC/STRG	NOY8759	19441201	SF	35,337	324	136	25	$390,067	$2,647,199	1944	1988
308	44130	HAZ/MAT STOR		19441101	SF	720	40	18	11	$2,500	$32,060	1944	
309	61071	GROUP HEADQUARTERS		19440101	SF	10,368	96	54	25	$53,974	$512,104	1944	1990
312	14160	PHOTO LAB	NOY9452	19441201	SF	5,243	104	57	15	$81,522	$749,324	1944	1986
313	44111	GENERAL WAREHOUSE MARCORPS	NOY9452	19440401	SF	50,000	250	200	39	$183,056	$2,263,963	1944	1990
319	44111	STOREHOUSE		19450101	SF	126,729	603	203	27	$328,519	$3,495,790	1945	1993
318	44110	STOREHOUSE	NOY10151	19450301	SF	122,409	603	203	27	$322,621	$3,594,113	1945	1990
317	44111	DECA ADMIN	NOY10151	19450401	SF	126,322	603	232	39	$813,730	$4,610,287	1945	1990
315	21106	AIRFRAME SHOP	NOY9452	19450201	SF	3,444	82	42	25	$25,151	$279,046	1945	1983
314	44110	HEATING PLANT BLDG	NOY9452	19450201	SF	6,123	105	47	36	$122,385	$1,384,885	1945	1990
581	74034	COMMUNITY BLDG.		19450601	SF	4,460	101	65	10	$28,772	$335,987	1945	1984
291	44112	STORAGE OUT OF STRS MARCOR	NOY8759	19441101	SF	14,400	160	60	17	$24,348	$285,175	1944	1988
306	21910	PW PIPE/HEAT/REFRIG SHOP	NOY9453	19440101	SF	16,712	123	108	28	$25,895	$332,077	1944	
305	61072	SQDRN HDQRTRS	NOY8759	19440601	SF	4,000	100	40	13	$29,263	$162,344	1944	1988
298	21420	AUTOMOTIVE VEHICLE MNT SHOP	NOY8759	19441101	SF	14,559	224	155	17	$67,834	$591,758	1944	1981
272	74040	BOWLING ALLEY	NOY8759	19440301	SF	14,664	141	104	17	$75,532	$941,750	1944	1990
290	44111	GENERAL WAREHOUSE MARCOR	NOY8759	19440201	SF	4,000	100	40	13	$16,000	$209,632	1944	
295	21106	MAINT HANGAR	NOY8802	19441201	SF	40,418	182	160	44	$429,684	$3,823,700	1944	1993
288	21107	STA ACFT ADMIN BLDG	NOY8759	19441101	SF	4,160	112	80	10	$42,416	$301,394	1944	1986
285	74085	WAREHOUSE	NOY8759	19440501	SF	16,000	200	80	21	$121,786	$1,518,446	1944	1985
300	21910	PW STOR/SHOP	NOY8759	19450601	SF	6,020	160	50	13	$24,633	$223,333	1945	1988
292	61072	SQUADRON HQ	NOY8759	19440701	SF	13,126	172	129	14	$33,009	$410,509	1944	1985
301	21910	PW SHOP	NOY8759	19450101	SF	5,120	160	32	13	$15,688	$153,401	1945	1990
302	21910	PW ELECTRICAL SHOP	NOY8759	19450501	SF	5,120	160	32	13	$86,359	$234,786	1945	1990
304	61010	ADMINISTRATION BLDG	NOY8759	19441201	SF	10,818	160	90	12	$107,603	$739,194	1944	1994
529	21925	STORAGE BLDG		19440201	SF	3,040	76	40	17	$33,704	$432,220	1944	1977
310	21106	AIRFRAME SHOP		19440101	SF	1,796	63	28	11	$8,748	$114,616	1944	
311	73010	FIRE STATION #2		19440101	SF	3,913	91	43	13	$29,807	$219,292	1944	1988
321	61010	ADMIN-SHIPPING-REC	NOY10151	19450101	SF	70,300	397	100	28	$473,978	$4,086,835	1945	1993
297	21106	HANGAR/SQUADRON/	NOY8802	19440101	SF	201,482	602	253	54	$1,274,616	$13,530,628	1944	1988
296	21106	HANGAR	NOY8802	19440101	SF	212,748	626	253	54	$1,302,003	$13,856,922	1944	1990
1538	61010	FILLING STATION BLDG		19450201	SF	64	8	8	8	$100	$1,174	1945	
1601	21925	PW MAINT STRG		19450115	SF	1,522	51	30	9	$3,800	$44,616	1945	
324	17120	TRAINING BLDG	NOY9452	19451201	SF	45,858	399	143	38	$706,331	$8,179,783	1945	1988

419	69015	SALUTING BATTERIES / MOUNTS		19480115	SY	0	63	48	0	$1,288	$10,227	1948	
475	61010	STORAGE BLDG.	NBY5421	19450115	SF	192	16	12	9	$1,500	$15,167	1946	
523	17120	HOBBY SHOP/ARTS/CRAFT		19450115	SF	192	16	12	9	$1,152	$13,526	1945	
496	21925	SEWAGE METER HOUSE		19480101	SF	480	24	20	14	$40,633	$117,139	1948	1985
349	13420	ROTATING LIGHT BEACON	NOY8758	19430501	SY	0	14	14	65	$15,000	$205,815	1943	
	76020	BELL - FIELD PIECES		19490501	SY	0	0	0	0	$50,327	$83,138	1949	
357	44130	HAZ/FLAM STOREHOUSE	NOY24718	19510201	SF	192	16	12	9	$6,500	$44,064	1951	
358	84209	WTR DISTRIBTN BLDG	NOY19950	19510115	SF	711	29	21	9	$16,799	$115,880	1951	
536	42148	MAGAZINE	NOY27078	19520301	SF	1,250	50	25	12	$31,190	$202,055	1952	1988
537	42148	MAGAZINE	NOY27078	19520301	SF	1,250	50	25	12	$31,191	$202,057	1952	1988
538	42148	MAGAZINE	NOY27078	19520301	SF	1,250	50	25	12	$31,191	$202,057	1952	1988
539	42148	MAGAZINE	NOY27078	19520301	SF	140	14	10	7	$7,051	$28,729	1952	1988
540	42112	MAGAZINE HIGH EXPLOSIVE	NOY27078	19520301	SF	140	14	10	7	$7,050	$28,727	1952	1988
542	42122	MAGAZINE	NOY27078	19520301	SF	1,250	50	25	12	$31,669	$202,620	1952	1990
543	42122	FUSE/DETONATOR MAGAZINE	NOY27078	19520301	SF	1,250	50	25	12	$40,444	$214,457	1952	1990
544	42122	SMOKELESS PDR PROJECTL MA	NOY27078	19520301	SF	1,250	50	25	12	$31,669	$202,620	1952	1990
545	42122	MAGAZINE	NOY27078	19520301	SF	1,250	50	25	12	$30,360	$206,418	1952	
546	42122	MAGAZINE	NOY27078	19520301	SF	1,250	50	25	12	$31,190	$202,055	1952	1988
FT547	12430	JET FUEL STGE TANK 13500 BBL		19530601	SY	0	88	0	13	$89,212	$585,231	1953	
FT548	12430	JET FUEL STGE TANK 13500 BBL		19530601	SY	0	88	0	13	$89,212	$585,231	1953	
FT549	12430	JET FUEL STGE TANK 13500 BBL		19530601	SY	0	88	0	13	$90,041	$590,669	1953	
FT550	12430	JET FUEL STGE TANK 13500 BBL		19530601	SY	0	88	0	13	$89,212	$585,231	1953	
FT551	12430	JET FUEL STGE TANK 13500 BBL		19530601	SY	0	88	0	13	$89,212	$585,231	1953	
355	74005	EXCHANGE OUTLET		19430601	SF	900	50	18	10	$2,898	$39,419	1943	
360	44110	STOREHOUSE	NOY27076	19520101	SF	124,920	603	200	26	$1,280,480	$7,338,871	1952	1990
359	44110	MTIS BLDG	NOY27076	19520201	SF	13,065	201	65	14	$115,870	$782,568	1952	1984
379	89056	MOTOR TRUCK SCALE		19531001	SY	0	0	0	0	$10,183	$66,800	1953	
530	84140	WATER PRESSURE TANK	NOY10290	19450701	SY	0	28	0	0	$7,000	$83,349	1945	
375	72412	BOQ	NOY71156	19540201	SF	19,392	199	96	18	$394,198	$1,940,314	1954	1990
363	12520	METERING STATION	NOY26892	19520101	SF	200	38	8	12	$2,130	$14,482	1952	
552	12520	FUEL TESTING OFF/LAB	NOY26892	19540101	SF	304	17	12	9	$4,594	$15,993	1954	1988
	11210	B/TAXIWAY	NOY5421	19630501	SY	745,529	0	0	0	$5,295,696	$26,780,498	1943	1989
586	13450	OBSTRUCTION LIGHT HOUSE # 1		19450115	SY	0	6	6	9	$180	$2,143	1945	
587	13450	OBSTRUCTION LIGHT HOUSE # 2		19450115	SY	0	6	6	9	$180	$2,143	1945	
588	13450	OBSTRUCTION LIGHT HOUSE 3		19450201	SY	0	6	6	9	$180	$2,143	1945	
594	13450	OBSTRUCTION LIGHT HOUSE 9		19451101	SY	0	6	6	9	$180	$2,143	1945	
596	13450	OBSTRUCTION LIGHT HOUSE # 11		19450115	SY	0	6	6	9	$180	$2,143	1945	
597	13450	OBSTRUCTION LIGHT HOUSE # 12		19450115	SY	0	6	6	9	$180	$2,143	1945	
598	13450	OBSTRUCTION LIGHT HOUSE 13		19450115	SY	0	6	6	9	$180	$2,143	1945	
	13630	RUNWAY LIGHTING	NOY23438	19630501	SY	0	0	0	0	$461,153	$3,126,156	1951	
1580	44110	STORAGE /MISC/		19450201	SF	375	25	15	7	$750	$8,806	1945	
1595	21925	PW STORAGE		19450115	SF	1,722	82	21	9	$1,722	$20,218	1945	
	83130	GOLF COURSE SEPTIC TANK		19460501		0	0	0	0	$1,820	$18,762	1946	
	75056	GOLF DRIVING RANGE		19490501	SY	0	950	250	0	$34,068	$270,364	1949	
432	75020	PLAYING FIELD		19480501		0	650	400	0	$46,134	$279,014	1948	1990
	75040	GOLF COURSE	N32	19490501	SY	0	0	0	0	$272,123	$2,159,568	1949	
	83120	OUTFALL SEWER LINE	NOY5421	19490501		0	0	0	0	$32,288	$423,037	1944	
366	72111	BACHELOR ENL QTRS E1/E4	NOY71128	19540101	SF	45,136	288	208	47	$634,199	$3,571,367	1954	1988
367	72111	BACHELOR ENLISTED QUARTERS	NOY71128	19540101	SF	45,136	288	208	47	$633,796	$3,573,487	1954	1988
364	72210	MESSHALL	NOY74044	19520101	SF	40,817	261	257	21	$1,248,727	$5,770,140	1952	1986
567	83229	SEWAGE PUMPING STA SHLT	NOY71156	19540115	SF	80	10	9	12	$8,350	$52,830	1954	
289	21105	STA ACFT HANGAR	NOY8759	19440201	SF	10,370	122	85	27	$58,882	$458,717	1944	1990
251	61010	CONFERENCE CENTER	NOY8759	19440101	SF	4,299	170	151	14	$206,843	$2,171,222	1944	1988

	87215	MISC FENCING /NAMAR HSG/	INF239	19550115	SY	0	0	0	0	$1,826	$11,279	1955	
	87110	STORM SEWER STATION HOUSING	NOY13828	19470115	SY	0	0	0	0	$36,393	$291,013	1947	1992
	85220	SIDEWALK /BITUMINOUS/	NOY13828	19470115	SY	6,223	12872	4	0	$14,532	$125,237	1947	
	85220	SIDEWALK /CONCRETE/	NOY13828	19470115	SY	500	0	0	0	$2,726	$23,493	1947	
	85220	SIDEWALK /CONCRETE/	FPHACAL4898N	19450115	SY	6,309	18540	3	0	$26,129	$311,118	1945	
	85220	SIDEWALK /CONCRETE/	N32	19540615	SY	20,834	53958	3	0	$25,469	$163,333	1954	
449	72111	ENLISTED BARRACKS	NBY7440	19591101	SF	29,109	253	72	31	$1,808,358	$3,826,761	1959	1988
450	72111	ENLISTED BARRACKS	NBY7440	19591101	SF	29,109	253	72	31	$1,814,394	$3,837,263	1959	1988
451	72111	BARRACKS	NBY7440	19591101	SF	29,109	253	72	31	$1,809,252	$3,830,048	1959	1988
452	72111	BARRACKS	NBY7440	19591101	SF	29,109	253	72	31	$1,803,334	$3,822,361	1959	1988
446	84440	WATER TANK 25000 GAL	NBY11724	19591201	SY	0	18	0	12	$28,323	$153,426	1959	
448	84440	WATER TANK 25000 GALLON	NBY11724	19591201	SY	0	18	0	12	$28,323	$153,426	1959	
459	84440	STORAGE TANK GRND NONPOT	NBY10014	19591101	SY	0	0	0	33	$63,856	$316,819	1959	1985
721	13460	OPTICAL LANDING SYSTEM	NBY10014	19591101	SY	0	0	0	0	$80,433	$435,706	1959	1978
	11642	BLAST PROTECTION	NBY10014	19591101	SY	28,808	0	0	0	$15,431	$83,034	1959	
457	61071	GROUP HEADQUARTERS	NBY7439	19600101	SF	25,000	200	150	13	$509,979	$1,948,035	1960	1990
461	21105	HANGAR/SQUADRON/	NBY7439	19600101	SF	35,362	241	144	36	$2,431,025	$4,182,205	1960	1987
462	21105	HANGAR/SQUADRON/	NBY7439	19600301	SF	36,136	258	144	36	$3,176,386	$5,190,439	1960	1987
463	21105	HANGAR/SQUADRON	NBY7439	19600101	SF	15,519	123	121	36	$453,993	$1,680,771	1960	1986
453	21107	MAINT SQUADRON HEADQUARTERS	NBY7439	19600101	SF	5,040	90	56	11	$96,549	$505,820	1960	
454	21107	MAINT SQUADRON HEADQUARTERS	NBY7439	19600101	SF	5,040	90	56	11	$103,052	$539,334	1960	1988
455	17135	OPERATIONAL TRAINER FACILITY	NBY7439	19600101	SF	9,040	90	56	11	$1,033,299	$1,626,191	1960	1990
456	44111	WAREHOUSE	NBY7439	19600101	SF	70,163	320	200	20	$594,762	$2,884,823	1960	1993
458	44130	FLAMMABLE STOREHOUSE	NBY7439	19600101	SF	2,000	50	40	13	$61,219	$191,395	1960	1986
600	44112	STOREHOUSE/SQDN/		19610401	SF	4,108	100	41	16	$9,747	$51,016	1961	
711	21188	AIRCRAFT POWER CHECK FAC	NBY30316	19610101	SY	0	223	90	0	$51,775	$267,780	1961	1978
	13635	34L CARRIER DECK LTG.		19610101	SY	0	0	0	0	$4,103	$21,545	1961	
601	73075	RECREATION RESTROOMS	SS1	19620201	SF	92	14	6	8	$3,773	$19,359	1962	
599	14187	LIQUID OXYGEN TRANSFER	NBY24700	19600801	SF	884	34	26	9	$75,556	$221,640	1960	1984
	89021	COMPR AIR DIST	NBY36852	19630701		0	0	0	0	$549,112	$734,403	1962	1988
	11110	RUNWAY/3-21	NOY5421	19630501	SY	112,000	4032	250	0	$884,272	$12,133,096	1943	
	11110	RUNWAY/7R25L	NOY5421	19630501	SY	216,696	8280	250	0	$1,329,789	$18,246,035	1943	
	11110	RUNWAY/7L25R	NOY5421	19630501	SY	216,696	8280	250	0	$1,281,289	$17,580,566	1943	
	11110	RUNWAY/34R16L	NOY5421	19630501	SY	275,113	11080	250	0	$2,175,147	$30,110,560	1943	1986
	11110	RUNWAY/34L16R	NOY5421	19630501	SY	309,507	12000	250	0	$1,062,756	$14,582,075	1943	
	87135	RETAINING WALL/WHERRY HSG	NBY43587	19640501	SY	0	2513	0	0	$20,098	$97,576	1964	
1798	74079	RIDING STABLE-PEN SHELTER (1		19631101	SF	2,700	245	20	10	$5,287	$26,424	1963	
A	71144	MAG-16 GROUP COMMANDER	NA	19640501	SF	3,227	75	65	10	$13,250	$183,420	1943	
B	71143	COMMANDING OFFICER QTRS	NA	19640501	SF	2,564	74	62	10	$9,450	$130,816	1943	
	13471	RADIO FREQ/WEATHER TV SYSTEM	NBY43586	19640601	SY	0	0	0	0	$54,250	$263,872	1964	
602	21145	VAN MAINTENANCE SHOP		19640801	SF	4,800	80	60	25	$9,672	$29,585	1964	1985
	13636	SIMULATED CARRIER DECK LTG	NBY57674	19641101	SY	0	0	0	0	$32,170	$156,475	1964	
	87120	CONCRETE GUTTER	NBY61442	19650901	SY	0	0	0	0	$2,438	$11,554	1965	
607	73075	GOLF COURSE RESTROOMS		19651101	SF	92	14	7	8	$1,386	$6,574	1965	
	11340	AIRCRAFT ACCESS APRON	NOY86722	19561201	SY	31,948	0	0	0	$927,291	$3,523,313	1956	1990
	13650	TAXIWAY LIGHTING	NOY86722	19651201	SY	0	0	0	0	$1,045,804	$5,541,662	1951	1990
615	74084	HANDBALL COURTS/4-WALL	NBY61440	19660301	SF	1,743	42	42	20	$31,046	$142,191	1966	
	87210	PERIMETER FENCING		19661001	SY	0	0	0	0	$225,526	$1,352,438	1943	1990
	87215	INTERIOR MISC FENCING		19661001	SY	0	0	0	0	$1,082,758	$2,880,659	1943	1991
605	21105	MAINTENANCE HANGAR	NBY53532	19670201	SF	23,598	162	112	40	$516,892	$2,226,546	1965	1990
606	21105	MAINTENANCE HANGAR	NBY53532	19670201	SF	23,598	162	112	40	$522,427	$2,235,796	1965	1988
616	61010	PW VEH DISPATCH OFFICE	NBY70029	19670201	SF	792	36	22	8	$19,199	$77,975	1966	1989
114	21105	AIRCRAFT MAINTENANCE HANGAR	NBY57700	19660701	SF	25,232	246	112	40	$647,550	$2,742,496	1966	1985

962	44130	HAZARDOUS MATERIAL		19940901	SF	180	9	20	0	$500	$500		
963	83141	HAZARDOUS WASTE		19940901	SF	272	16	17	15	$4,000	$4,000		
964	44130	HAZARDOUS MATERIAL		19940901	SF	140	14	10	9	$1,000	$1,000		
965	83141	HAZARDOUS WASTE		19940901	SF	272	16	17	15	$4,000	$4,000		
966	83141	HAZARDOUS WASTE		19940901	SF	130	10	13	7	$500	$500		
967	44130	HAZARDOUS MATERIAL		19940901	SF	432	18	24	6	$2,000	$2,000		
968	83142	HAZARDOUS WASTE		19940901	SY	21	0	0	0	$100	$100		
969	44130	HAZARDOUS MATERIAL		19940901	SF	140	10	14	5	$500	$500		
970	83141	HAZARDOUS WASTE		19940901	SF	200	10	20	10	$3,000	$3,000		
971	83142	HAZARDOUS WASTE		19940901	SY	31	14	20	0	$300	$300		
878	14930	E-28 ARRESTING GEAR R/W 7R	N6247480C4481	19810401		0	0	0	0	$28,938	$42,973	1981	
972	14187	LOX SHELTER	N6247490D5661	19941101		320	20	16	9	$9,240	$9,896	1994	
	45170	DISPOSAL YARD 2	INVENTORY	19950214		0	0	0	0	$0	$0		
627	13150	TRANSMITTER BLDG	REASSIGNED	19950609	SF	1,552	63	24	12	$50,000	$80,550	1980	
628	13165	ANTENNA TOWER	REASSIGNED	19950609		576	24	24	34	$15,000	$24,165	1980	
973	75058	RV CAMPGROUND	INVENTORY	19900615	SF	283,200	1180	240	0	$30,000	$35,340	1990	
974	75058	RV CAMPGROUND	INVENTORY	19900615	SF	78,750	450	350	0	$30,000	$35,340	1990	
975	75058	RV PARKING SITE	INVENTORY	19900615	SF	48,000	252	188	0	$10,000	$11,780	1990	
897	89009	AIRCRAFT WASHRACK BLDG	N6247490D5686	19920713	SF	704	32	22	13	$67,508	$77,229	1992	
977	44130	HAZ/MATERIAL STORAGE	INVENTORY	19941215		1,824	48	38	0	$5,000	$5,370	1994	
978	83141	HAZ/WASTE STORAGE	INVENTORY	19941215		1,824	48	38	0	$5,000	$5,370	1994	1996
979	73025	GATE HOUSE	N6871194D0682	19960615		50	13	4	8	$9,847	$10,192	1996	
	84215	WATER PUMP STATION	NBY57679	19651101		0	0	0	0	$4,698	$22,283	1965	
	85235	PARKING AREA BIT	NBY57679	19651101	SY	832	0	0	0	$6,222	$29,511	1965	
	89020	COMP AIR PLANT	NBY57679	19651101		0	0	0	0	$7,977	$37,835	1965	
611	42172	G-M MAGAZINE	NBY69864	19660601	SF	930	31	30	12	$34,863	$154,587	1966	1988
	82320	LIQ. PET. GAS TANK	67C0135	19670901	SY	0	0	0	0	$1,106	$4,896	1967	
624	14112	PASSENGER AIR TERMINAL	67C0135	19670901	SF	11,470	120	96	12	$274,869	$921,186	1967	1990
	82320	L P GAS TANK	67C0286	19680201	SY	0	0	0	0	$580	$2,458	1968	
629	17110	TRAINING BLDG /FASO/	67C0286	19680201	SF	4,260	71	60	17	$187,120	$471,427	1968	1985
	85230	PEDESTRIAN BRIDGE	67C3123	19680801	SY	21	38	5	0	$5,023	$21,232	1968	
636	21175	SURVIVAL EQUIPMENT SHOP	68C0010	19690301	SF	9,030	107	84	92	$312,194	$1,213,979	1969	1985
	12510	FUEL OIL LINE	68C0010	19690301	SY	0	0	0	0	$2,310	$9,148	1969	
631	17120	A/CFT SYST TRAIN BLDG	67C3034	19681001	SF	16,200	200	81	30	$367,002	$1,547,536	1968	1990
	82214		67C3034	19681001		0	0	0	0	$7,013	$29,721	1968	1988
643	14915	AIRCRAFT AIRSTART SYSTEM	69C0187	19690601	SY	0	0	0	0	$548,277	$2,162,822	1969	1985
639	81109	ELECTRIC POWER PLANT-BLDG	67C3184	19690601	SF	144	12	12	8	$14,850	$33,061	1969	1980
640	81109	ELECTRIC POWER PLANT-BLDG	67C3184	19690601	SF	144	12	12	8	$14,850	$33,061	1969	1980
641	81109	ELECTRIC POWER PLANT-BLDG	67C3184	19690601	SF	144	12	12	8	$15,413	$35,284	1969	1982
642	81109	ELECTRIC POWER PLANT-BLDG	67C3184	19690601	SF	144	12	12	8	$14,850	$33,061	1969	1980
	81320		67C3184	19690601		0	0	0	0	$9,625	$38,019	1969	
634	21121	IMA HANGAR	67C3155	19691101	SF	54,891	325	152	32	$3,408,871	$7,432,546	1969	1990
	11650	A/C TOW-WAY AREA	67C3155	19691101	SY	1,890	0	0	0	$10,886	$43,000	1969	
	81320		67C3155	19691101		0	0	0	0	$29,226	$115,443	1969	
	82320	LPG TANK/3425 GAL	67C3155	19691101	SY	0	25	5	0	$1,400	$5,544	1969	

EXTRACTS

UNITED STATES MARINE CORPS
Marine Corps Air Station El Toro
P O Box 94003
Santa Ana, CA 92709-4003

11000
1JP.7
15 June 1994

MEMORANDUM

From: Assistant Chief of Staff, Installations
To: Distribution

Subj: FY94 BUILDING GUIDE

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 data for all Class II property on listed air stations and Big Bear.

2. It is requested the information be reviewed to ensure that future building guides are corrected. Please report discrepancies to the Planning Division at extension 2232.

ANN DOTSON
By direction

DISTRIBUTION:
MCAS A
1JA List A, B
MCAS Tustin: 50 copies
MCAS Camp Pendleton: 50 copies

e No. 7
14/94

MCAS EL TORO BUILDING GUIDE

FAC NO.	MAP GRID	DESCRIPTION	TENANT	CAT CODE NUMB	COST ACCT CODE	SIZE
370	T6	PW Paint/Carp/Metal Trades	Installation	21910	EBBO	15280 SF
371	Q11	Maint Hangar OH Space	VMFAT-101	21105	EBVO	36000 SF
371	Q11	Maint Hangar 01 Space	VMFAT-101	21106	EBVO	16952 SF
371	Q11	Maint Hangar 02 Space	VMFAT-101	21107	EBVO	21117 SF
371	Q11	Engine Maintenance Shop	MALS-11	21121	EBVO	12992 SF
372	O8	Airfield Operations Bldg	SOMS/FAA	14140	EBNO	11323 SF
372	O8	Stand-by Generator Bldg	SOMS	81159	EAAO	400 SF
372	O8	Control Tower	SOMS	14170	EBNO	1323 SF
372	O8	Field Lighting Vault	SOMS	81209	EHAO	674 SF
372	O8	Snack Bar #3	MWR-Hosp	74005	EBLO	1000 SF
374	Q11	Heating Plant Bldg	Installation	82109	EAQO	3773 SF
374	Q11	Conversion Station	Installation	81310	EHAO	1813 SF
375	S3	Bachelor Officers Quarters	Sta/G-4	72412	EBKO	24 PN
376	O4	Fire Station Dispatch	Sta/G-1	73110	EBLO	1649 SF
77	Q11	Water Storage Tank	Installation	84330	EAUO	316000 GA
9	U9	Truck Weighing Facility	Supply	89056	EAFO	1 EA
380	M10	Standby Generator Bldg	Installation	81159	EAAO	1050 SF
382	P3	Electrical Distr Subs #1	Installation	81209	EABO	207 SF
383	U8	Electrical Distr Subs #2	Installation	81209	EHAO	160 SF
384	R12	Electrical Distr Subs #3	Installation	81209	EHAO	160 SF
385	M10	Electrical Distr Subs #4	Installation	81209	EHAO	160 SF
386	T7	Construction Equip Shop	Installation	21420	EBBO	7136 SF
387	T8	Loading/Unloading Ramp	CSSD-14	85115	EDAO	159 SF
388	U8	Field Maint Shop	CSSD-14	21453	EBBO	7040 SF
389	P12	Loading/Unloading Ramp	Station	85115	EDAO	159 SF
390	P13	Golf Cart Shop	MWR	74080	EBLO	6400 SF
391	M9	Loading/Unloading Ramp	MAG-11	85115	EDAO	159 SF
392	M9	ACFT Ground Supt Equip Shop	MALS-11	21860	EBBO	6400 SF
394	K13	Transmitter(UHF/VHF COMMxMTR)	Sta/G-6	13150	EBMO	1596 SF
396	N10	Aircraft Truck Fueling	Supply	12120	ECWO	1 EA
399	P7	Vortac Facility	Sta/G-6	13325	EBVO	425 SF
402	K8	Stables Toilet	MWR	73075	EBLO	75 SF
404	Q10	Receiver Bldg	Sta/G-6	13150	EBMO	909 SF
405	P12	Applied Instruction Bldg	AWTU-3	17120	EBAO	3208 SF
406	P12	Applied Instruction Bldg	AWTU-3	17120	EBAO	2285 SF
407	P12	Squadron Headquarters	AWTU-3	61072	EBFO	400 SF
408	P12	Guard Tower	AWTU-3	87220	ECSO	64 SF
409	P12	Guard Tower	AWTU-3	87220	ECSO	64 SF
410	L2	Playing Fields, Softball	MWR	75020	ESCO	4 EA
414	Q10	Standby Generator Bldg	Sta/G-3	81159	EAAO	384 SF
5	L8	Storage out of Stores	MAG-11	44112	EBDO	40313 SF
6	P14	Storage Bldg	FAA	44110	EBDO	480 SF
419	P5	Saluting Battery	Supply	69015	ECLO	1 EA
420	Q3	Station Flagpole	Adjutant	69010	ECLO	1 EA
421	R3	Playing Courts, Tennis	MWR	75010	ECNO	2 EA
422	O3	Playing Courts, Tennis	MWR	75010	ECNO	1 EA
427	N4	Playing Courts, Hndbl/Bsktbl	MWR	75010	ECNO	1 EA
430	P3	Playing Court, Tennis	MWR	75010	ECNO	1 EA

El Toro Building Guide

EXTRACTS

BLDG	GRI	DESCRIPTION	TENANT	CATCO	CAC	SIZE
375	S3	Bachelor Officers Quarters	Sta/G-4	72412	EBKO	24 PN
376	04	Fire Station Dispatch	Sta/G-1	73110	EBLO	1649 SF
377	Q11	Water Storage Tank	Installation	84330	EAUO	316000G
379	U9	Truck Weighing Facility	Supply	89056	EAPO	1 EA
380	M10	Standby Generator Bldg	Installation	81159	EAAO	1050 SF
382	P3	Electrical Distr Subs #1	Installation	81209	EABO	207 SF
383	U8	Electrical Distr Subs #2	Installation	81209	EHAO	160 SF
384	R12	Electrical Distr Subs #3	Installation	81209	EHAO	160 SF
385	M10	Electrical Distr Subs #4	Installation	81209	EHAO	160 SF
386	T7	Construction Equip Shop	Sta/G-4	21420	EBBO	7136 SF
387	T8	Loading/Unloading Ramp	CSSD-14	85115	EDAO	159 SF
388	U8	Field Maint Shop	CSSD-14	21453	EBBO	7040 SF
389	P12	Loading/Unloading Ramp	Station	85115	EDAO	159 SF
390	P13	Golf Cart Shop	MWR/Rec	74080	EBLO	6400 SF
391	M9	Loading/Unloading Ramp	MAG-11	85115	EDAO	159 SF
392	M9	ACFT Ground Supt Equip	MALS-11	21860	EBBO	6400 SF
394	K13	Transmitter(UHF/VHF	Sta/G-6	13150	EBMO	1596 SF
396	N10	Aircraft Truck Fueling	Supply	12120	ECWO	1 EA
399	P7	Vortac Facility	Sta/G-6	13325	EBUO	425 SF
402	K8	Stables Toilet	MWR/Rec	73075	EBLO	75 SF
404	Q10	Receiver Bldg	Sta/G-6	13150	EBMO	909 SF
405	P12	Applied Instruction Bldg	MALS-16	17120	EBAO	3208 SF
406	P12	Applied Instruction Bldg	MALS-16	17120	EBAO	2285 SF
407	P12	(Squadron Headquarters)	Vacant	61072	EBFO	400 SF
408	P12	(Guard Tower)	Vacant	87220	ECSO	64 SF
409	P12	(Guard Tower)	Vacant	87220	ECSO	64 SF
410	L2	Playing Fields, Softball	MWR/Rec	75020	ESCO	4 EA
414	Q10	Standby Generator Bldg	Sta/G-3	81159	EAAO	384 SF
415	L8	Storage out of Stores	MAG-11	44112	EBDO	40313 SF
416	P14	Storage Bldg	FAA	44110	EBDO	480 SF
419	P5	Saluting Battery	Supply	69015	ECLO	1 EA
420	Q3	Station Flagpole	Adjutant	69010	ECLO	1 EA
421	R3	Playing Courts, Tennis	MWR/Rec	75010	ECNO	2 EA
422	O3	Playing Courts, Tennis	MWR/Rec	75010	ECNO	1 EA
427	N4	Playing Courts, Hndbl/Bsktbl	MWR/Rec	75010	ECNO	1 EA
430	P3	Playing Court, Tennis	MWR/Rec	75010	ECNO	1 EA
432	M4	Foot/Soccer/Baseball Field	MWR/Rec	75020	ECNO	4 EA
435	S7	Acft Fire & Rescue Station	SOMS	14120	EBNO	11440 SF
439	P2	Branch Dental Clinic	13th Dental	54010	EBEO	10680 SF
439	P2	Branch Medical Clinic	Nav Hosp	55010	EBEO	59487 SF
440	O12	Missile Magazine	Station	42172	EBQO	930 SF
441	O12	Aviation Armament/Sta	Station/G-4	21154	EBVO	1500 SF
442	P12	Aviation Armament/Sta	MALS-11	21154	EBVO	6220 SF
443	02	Photographic Laboratory	Training	14160	EBNO	3288 SF
443	O2	Academic Instruction Bldg	Training	17110	EBAO	4592 SF
443	O2	Academic Instruction Bldg	Training	17120	EBAO	22086 SF

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BLDG	GRI	DESCRIPTION	TENANT	CATCO	CAC	SIZE
296	T9	(Grd Sup Equipment Shop)	Vacant	21860	EBBO	4400 SF
296	T9	Maint Hangar 02 Space	MAG-46	21107	EBVO	20240 SF
296	T9	(Maint Hangar 02 Space)	Vacant	21107	EBVO	42846 SF
296	T9	(Maint Hangar O1 Space)	Vacant	21106	EBVO	32926 SF
296	T9	(Maint Hangar O1 Space)	Vacant	21106	EBVO	20128 SF
296	T9	(Maint Hangar OH Space)	Vacant	21105	EBVO	40480 SF
296	T9	(Storage)	Vacant	44112	EBDO	8720 SF
296	T9	Armory	MALS-46	14325	EBPO	1152 SF
296	T9	Transformer Room	Station	81209	EBBO	800 SF
296	09	Boiler Room	Station	82109	EABO	576 SF
297	T8	(Maint Hangar OH Space)	Vacant	21105	EBVO	40480 SF
297	T8	Maint Hangar O2 Space	VMGR-352	21107	EBVO	39595 SF
297	T8	(Maint Hangar O1 Space)	Vacant	21106	EBVO	20240 SF
297	T8	Maint Hangar OH Space	VMGR-352	21105	EBVO	40480 SF
297	T8	Boiler Room	Station	82109	EABO	750 SF
297	T8	(Maint Hangar O2 Space)	Vacant	21107	EBVO	13891
298	U7	GME	Sta/G-4	21420	EBBO	14559 SF
299	U7	GME	Sta/G-4	21420	EBBO	4268 SF
300	T6	AFGE Office	Station	61010	EBFO	225 SF
300	T6	Environment Office	Environment	61010	EBFO	1220 SF
300	T6	Public Works Warehouse	Installation	21910	EBBO	4574 SF
301	T6	PW Admin/Labor Shop	Installation	21910	EBBO	5120 SF
302	T6	Public Works Elec Shop	Installation	21910	EBBO	5120 SF
304	T6	Academic Instruction (EEO)	HRO	17110	EBAO	1800 SF
304	T6	Admin Office (CPO)	HRO	61010	EBFO	7518 SF
304	T6	Civilian Credit Union	Credit Union	74019	EBLO	1500 SF
305	U7	Group Headquarters	MWSG-37	61072	EBFO	4000 SF
306	T6	PW Pipe/Heat/Refrig Shop	Installation	21910	EBBO	15712 SF
306	T6	Vacant (Water Treament)	Installation	84209	EHCO	1000 SF
307	U6	EAF Storage	MWSS-373	44110	EBDO	3965 SF
307	U6	EAF Wt Handling Shop	MWSS-373	21820	EBBO	23107 SF
307	U6	(MC Storage)	Vacant	44111	EBDO	3965 SF
307	U6	SOMS Recovery Hqs	SOMS	61072	EBFO	4300 SF
308	M9	GSE Storage	MALS-11	21860	EBBO	720 SF
309	U8	Group Headquarters	MWSG-37	61071	EBFO	10368 SF
310	T9	Vehicle Maint Facility	MAG-46	21451	EBBO	1796 SF
311	U8	Fire Station #2	Security	73010	EBLO	3913 SF
312	U8	(Photographic Bldg)	Vacant	14160	EBNO	5243 SF
313	U8	Field Maint Shop	CSSD-14	21453	EBBO	20000 SF
313	U8	Storage out of Stores	MWSS-373	44112	EBDO	30000 SF
314	U9	Highbay Storage	Supply	44110	EBDO	6123 SF
315	T9	Squadron Headquarters	MAG-46	61072	EBFO	3444 SF
317	U7	DeCA Office	DeCA	61010	EBDO	20862 SF
317	U7	Marine Corps Supply	Supply	44110	EBDO	105460
317	U7	Laundry Pickup Point	Supply	73040	EBL0	
318	U8	General Warehouse Navy	Supply	44111	EBDO	81606 SF

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BLDG	GRI	DESCRIPTION	TENANT	CATCO	CAC	SIZE
318	U8	MTIS Bldg	Supply	44173	EBDO	40803 SF
319	U8	General Warehouse MC	DRMO	44111	EBDO	70150 SF
319	U8	General Warehouse Navy	Supply	44111	EBDO	56579 SF
320	U7	Hazardous/Flam Storehouse	Supply	44130	EBDD	17100 SF
321	U8	Admin Office	Supply	61010	EBFO	37940 SF
321	U8	(Admin Office)	Vacant	61010	EBFO	4820 SF
321	U8	General Warehouse MC	Supply	44111	EBDO	25838 SF
321	U8	Admin Office	Station/G-4	61010	EBFO	3302 SF
322	U7	(EM Mess Open)	Vacant	72210	EBHO	10653 SF
324	U9	(Applied Instruction)	Vacant	17120	EBAO	32680 SF
324	U9	CO2 Storage	Sta/G-4	44112	EBDO	1611 SF
324	U9	Storage	Installation	21977	EBBO	11567 SF
325	U9	(Hazardous/Flam Storehouse)	Vacant	44130	EBDD	251 SF
326	T9	Hazardous/Flam Storehouse	Environment	83141	EAQO	11446 SF
328	P4	Temp Admin Spaces	MACG-38	61071	EBFO	43923 SF
329	P3	DECA Headquarters	DECA	61010	EBFO	22328 SF
333	U8	Field Maint Shop	CSSD-14	21453	EBBO	2610 SF
335	T6	Water Distribution Bldg	Installation	84209	EHCO	1125 SF
341	M9	GSE Shop	MALS-11	21860	EBBO	468 SF
347	O3	Exchange Food Service Whse	MWR/Hosp	74085	EBLO	9306 SF
349	M10	Aircraft Beacon	Sta/G-3	13420	ECXO	1 EA
355	U8	(Snack Bar #12)	Vacant	74005	EBLO	900 SF
357	U9	Hazardous/Flam Storehouse	Installation	44130	EBDO	192 SF
358	V3	Water Distribution Bldg	Installation	84209	EHCO	711 SF
359	U8	MTIS Building	Supply	44173	EBDO	13065 SF
360	U9	Strg MC Air/Grnd Organic Unit	Supply	44112	EBDO	124920
363	N10	Misc POL Pipeline Shelter	Supply	12520	ECJO	200 SF
364	N1	Mess Hall #2	Food Serv	72210	EBHO	40817 SF
366	O2	Bachelor Enlisted Quarters	Billeting	72111	EBGO	44016 SF
367	O2	Bachelor Enlisted Quarters	Billeting	72111	EBGO	27725 SF
368	U6	Installations/Environmental	Installation	61010	EBFO	19950 SF
368	U6	Installations	Installations	61010	EBFO	17868 SF
369	T7	Servmart	Supply	44172	EBDO	29568 SF
370	T6	PW Paint/Carp/Metal Trades	Installation	21910	EBBO	15280 SF
371	Q11	Engine Maintenance Shop	MALS-11	21121	EBVO	14094 SF
371	Q11	Maint Hangar 01 Space	VMFAT-101	21106	EBVO	16704 SF
371	Q11	Maint Hangar 02 Space	VMFAT-101	21107	EBVO	16704 SF
371	Q11	Maint Hangar OH Space	VMFAT-101	21105	EBVO	39150 SF
372	O8	Airfield Operations Bldg	Sta/G-3	14140	EBNO	22178 SF
372	O8	Control Tower	Sta/G-3	14170	EBNO	1323 SF
372	O8	Field Lighting Vault	Sta/G-3	81209	EHAO	674 SF
372	O8	(Snack Bar #3)	Vacant	74005	EBLO	1000 SF
372	O8	Stand-by Generator Bldg	Sta/G-3	81159	EAAO	400 SF
372	O8	Operations	FAA	14140	EBNO	1700 SF
374	Q11	Conversion Station	Installation	81310	EHAO	1813 SF
374	Q11	Heating Plant Bldg	Installation	82109	EABO	3773 SF

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BLDG	GRI	DESCRIPTION	TENANT	CATCO	CAC	SIZE
536	J15	Small Arms/Pyro Magazine	Sta Ordn	42148	EBQO	1250 SF
537	J14	Small Arms/Pyro Magazine	Sta Ordn	42148	EBQO	1250 SF
538	I14	Small Arms/Pyro Magazine	Sta Ordn	42148	EBQO	1250 SF
539	H14	Small Arms/Pyro Magazine	Sta Ordn	42148	EBQO	140 SF
540	H15	Fuse & Detonator	Sta Ordn	42112	EBQO	140 SF
542	F15	High Explosive - Magazine	Sta Ordn	42122	EBQO	1250 SF
543	G14	High Explosive - Magazine	Sta Ordn	42122	EBQO	1250 SF
544	G14	High Explosive - Magazine	Sta Ordn	42122	EBQO	1250 SF
545	H13	High Explosive - Magazine	Sta Ordn	42122	EBQO	1250 SF
546	H14	High Explosive - Magazine	Sta Ordn	42122	EBQO	1250 SF
552	K13	Misc POL Pipeline Facility	Supply	12520	ECJO	304 SF
555	K12	POL Sampling/Test Bldg	Supply	14375	EBPO	800 SF
556	K13	Misc POL Pipeline Facility	Supply	12520	ECJO	543 SF
558	N10	ACFT Truck Fueling Facility	Supply	12120	ECWO	1 OL
559	N10	ACFT Truck Fueling Facility	Supply	12120	ECWO	1 OL
560	N10	ACFT Truck Fueling Facility	Supply	12120	ECWO	1 OL
561	N10	ACFT Truck Fueling Facility	DLA	12120	ECWO	1 OL
566	Q11	Storage Tank/Potable Water	Installation	84140	EAQO	50000
567	T3	Sewage Pump Sta Shed	Installation	83229	EHFO	80 SF
568	K13	Standby Generator Bldg	Installation	81159	EAAO	176 SF
573	K13	Antenna, Communications	Sta/G-6	13210	ECCO	1 EA
578	M2	Public Toilet	MWR/Rec	73075	EBLO	240 SF
578	M2	Water Distribution Bldg	MWR/Rec	84209	EHCO	60 SF
579	P14	General Storage Shed	Installation	44135	EBDO	176 SF
581	L9	Chaplain Annex	Chaplain	73083	EBLO	3140 SF
581	L9	Navy Relief Thrift Shop	Sta/G-1	74034	EBLO	1320 SF
582	K12	Maint Bldg/Housing	Housing	71477	EBBO	2500 SF
583	J12	Storage Tank/Potable Water	Installation	84140	EAQO	500000
584	O5	Low Frequency Homer Bldg	Sta/G-6	13335	EBUO	140 SF
586	L18	Obstruction Light	SOMS	13450	ECXO	1 EA
587	K17	Obstruction Light	SOMS	13450	ECXO	1 EA
588	L15	Obstruction Light	Sta/G-3	13450	ECXO	1 EA
594	K14	Obstruction Light	SOMS	13450	ECXO	1 EA
595	F10	Obstruction Light House	SOMS	13450	ECXO	36 SF
596	I13	Obstruction Light	Sta/G-3	13450	ECXO	1 EA
597	K14	Obstruction Light	Sta/G-3	13450	ECXO	1 EA
598	L15	Obstruction Light	Sta/G-3	13450	ECXO	1 EA
599	U9	Liquid Oxygen Facility	Supply	14187	EBNO	884 SF
600	P4	Storage out of Stores	MWCS-38	44112	EBDO	4108 SF
601	K1	Public Toilet/Picnic Area #1	MWR/Rec	73075	EBLO	92 SF
602	M9	Van Maint Shop	MALS-11	21145	EBVO	4800 SF
605	N7	Maint Hangar O1 Space	HMM-364	21106	EBVO	5350 SF
605	N7	Maint Hangar O2 Space	HMM-364	21107	EBVO	5348 SF
605	N7	Maint Hangar OH Space	HMM-364	21105	EBVO	12900
606	N8	Maint Hangar O1 Space	HMM-163	21106	EBVO	12900
606	N8	Maint Hangar O2 Space	HMM-163	21107	EBVO	5348 SF

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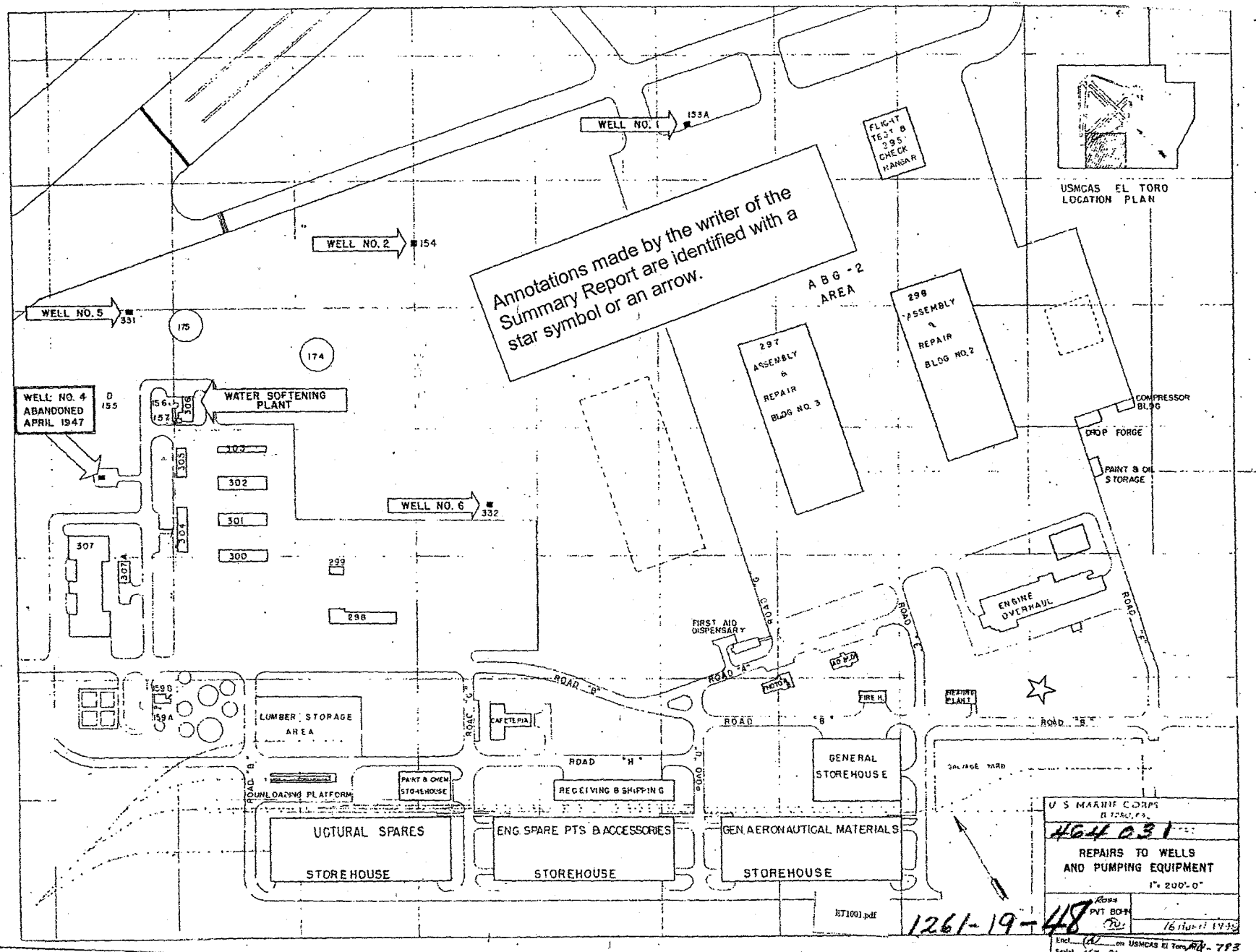
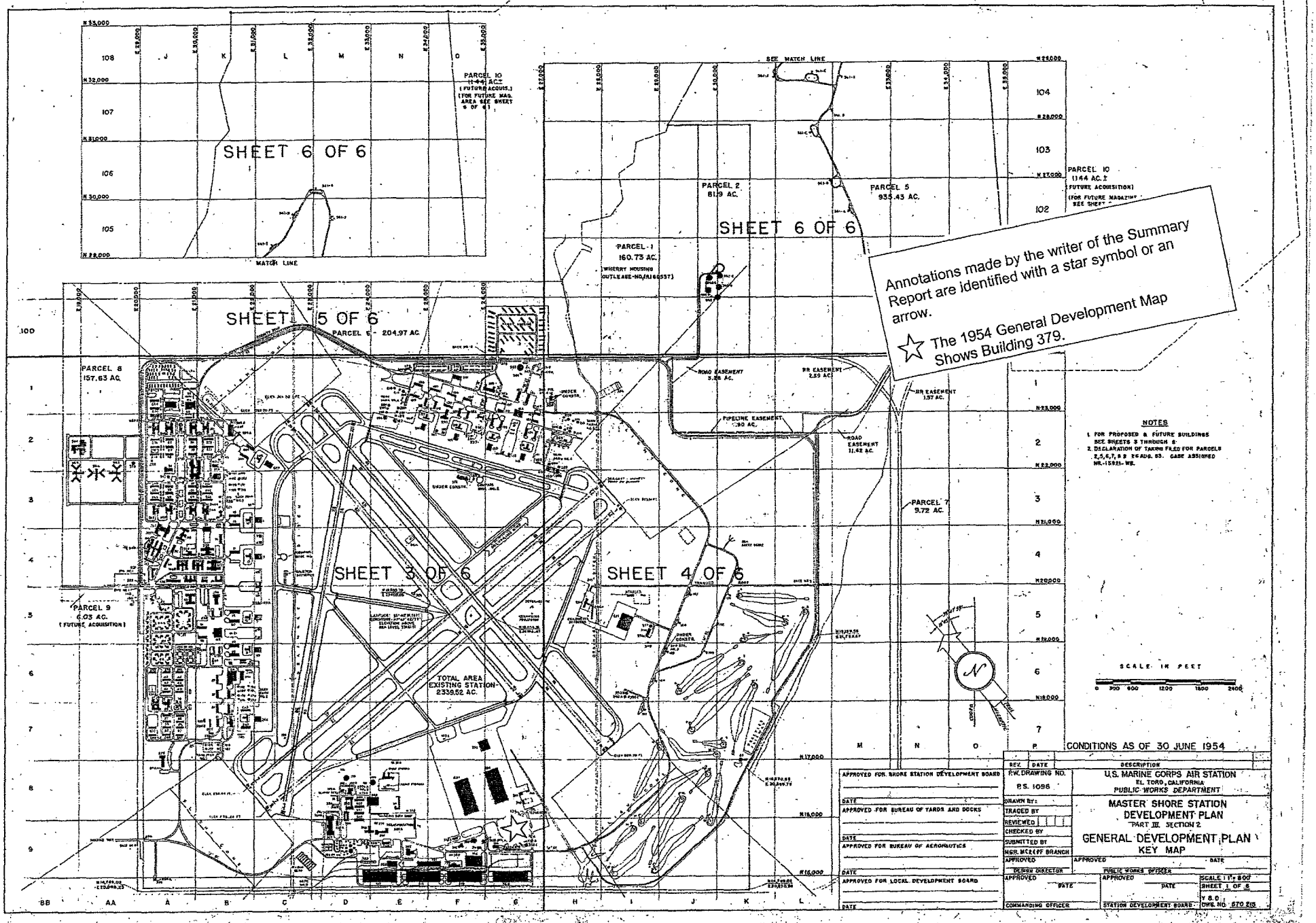
BLDG	GRI	DESCRIPTION	TENANT	CATCO	CAC	SIZE
606	N8	Maint Hangar OH Space	HMM-163	21105	EBVO	5350 SF
607	R13	Public Toilet/Golf Course	MWR/Rec	73075	EBLO	92 SF
610	M9	Water Distribution Bldg	Installation	84209	EHCO	1126 SF
611	O12	Missile Magazine	Sta Ordn	42172	EBQO	930 SF
614	L10	Aqua Chinon Playground	Housing	75020	ECNO	2 EA
615	M2	Handball Courts	MWR/Rec	74084	EBLO	1743 SF
616	U7	Admin Office	Sta/G-4	61010	EBFO	792 SF
619	T12	Standby Generator Bldg	Installation	81159	EAAO	1329 SF
624	O4	Air Terminal	SOMS	14111	EBNO	2077 SF
624	O4	SQ Headquarters	SOMS	61010	EBFO	9393 SF
625	M3	Hobby Shop, Automotive	MWR/Rec	74038	EBLO	6153 SF
626	M3	Hobby Shop, Automotive	MWR/Rec	74038	EBLO	480 SF
629	P4	Academic Instruction Bldg	FASOTRAG	17110	EBAO	4260 SF
631	U9	Applied Instruction Bldg	MALS-11	17120	EBAO	12870
633	U9	Loading/Unloading Ramp	DRMO	85115	EDAO	68 SY
634	M9	Avionics Shop	MALS-11	21154	EBVO	675 SF
634	M9	Maintenance Hangar 01 Space	MALS-11	21106	EBVO	2611 SF
634	M9	Engine Maintenance Shop	MALS-11	21121	EBVO	23365
634	M9	(Maint Hangar OH Space)	Vacant	21105	EBVO	13163
634	M9	(Maint Hangar O2 Space)	Vacant	21107	EBVO	5119 SF
634	M9	(Maint Hangar 01 Space)	Vacant	21106	EBVO	9958 SF
635	T9	Weighing Facility	Supply	89056	EAPO	1 EA
636	R12	Cryogenics Office	MALS-11	14187	EBNO	500 SF
636	R12	Parachute/Surv Equip Shop	MALS-11	21175	EBVO	8530 SF
637	M8	Exchange Gas Station	MWR/Ret	74031	EBLO	900 SF
638	Q10	Wind Direction Indicator	Sta/G-3	13462	ECXO	1 EA
639	N8	Electric Power Plant Bldg	Installation	81109	EAAO	144 SF
640	N8	Electric Power Plant Bldg	Installation	81109	EAAO	144 SF
641	N8	Electric Power Plant Bldg	Installation	81109	EAAO	144 SF
642	N9	Electric Power Plant Bldg	Installation	81109	ECEO	144 SF
643	N8	Fixed ACFT Start System	Installation	14915	ECEO	32 EA
644	N6	Arresting Gear	SOMS	14930	ECEO	1 EA
645	N6	Arresting Gear	SOMS	14930	ECEO	1 EA
646	P10	Arresting Gear	SOMS	14930	ECEO	1 EA
647	P10	Arresting Gear	SOMS	14930	ECEO	1 EA
649	O2	Cafeteria	MWR/Ret	74004	EBLO	6855 SF
649	O2	Exchange Retail Store	MWR/Ret	74001	EBLO	64191
649	O2	Exchange Warehouse	MWR/Ret	74085	EBLO	38318
650	P2	Exchange Retail Store Whse	MWR/Ret	74001	EBLO	3800 SF
651	O2	Exchange Auto Repair Sta	MWR/Ret	74030	EBLO	10495
651	O2	Exchange Supplmtl Gas Sta	MWR/Ret	74030	EBLO	3344 SF
655	U8	Field Maint Shop	CSSD-14	21453	EBBO	18600
656	P3	Child Development Center	Sta/G-1	74074	EBLO	12733
657	Q3	Visitor/Vehicle Registration	PMO	73025	EBLO	315 SF
658	N10	Engine Test Cell	MALS-11	21181	EBVO	2894 SF
659	N10	Storage Tank/Nonpotable	Installation	84440	EAQO	25000

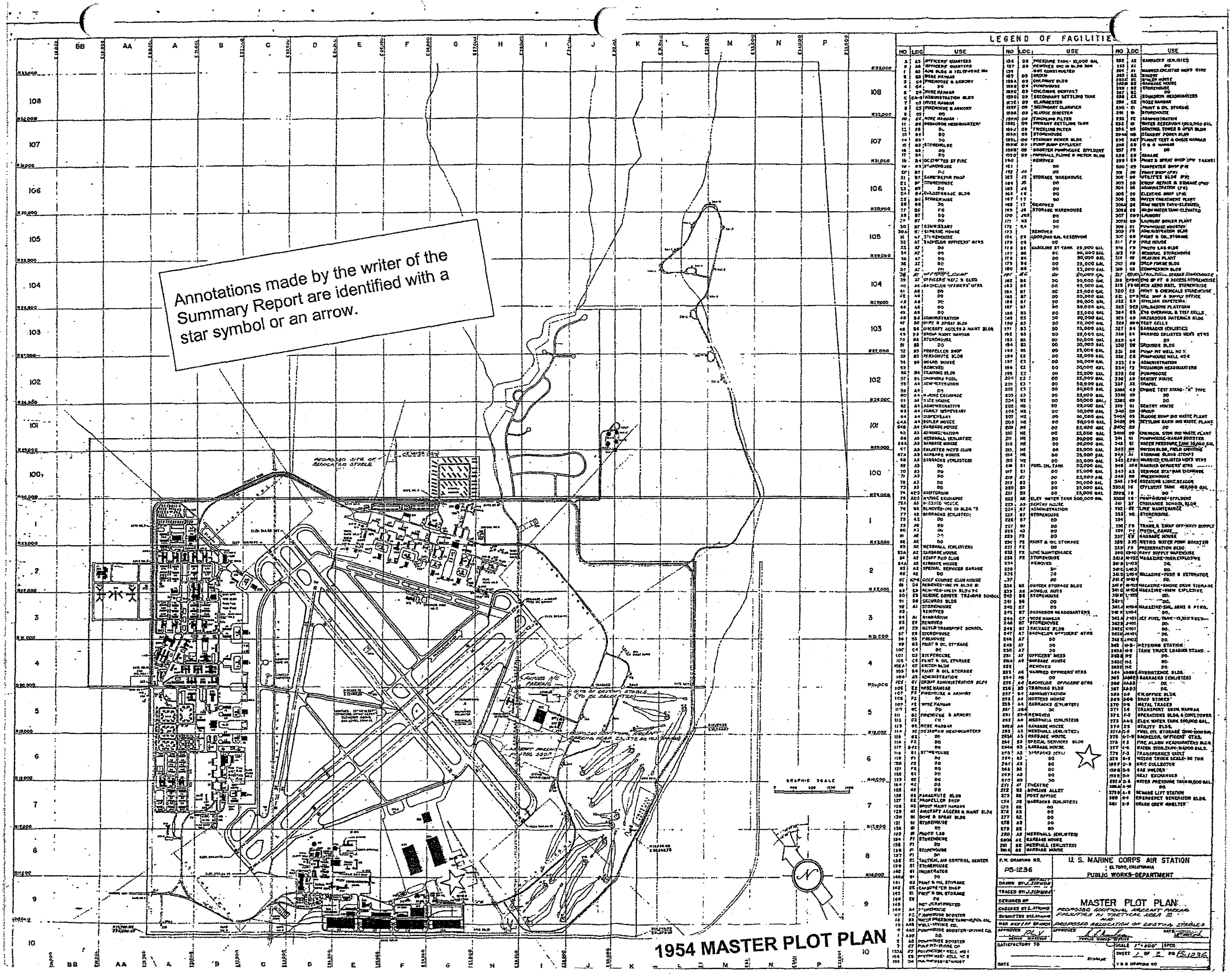

Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.
WELL NO. 1
133A
WELL NO. 2
154
WELL NO. 5
331
WELL NO. 4
ABANDONED
APRIL 1947
155
WATER SOFTENING PLANT
WELL NO. 6
332
175
174
FLIGHT TEST & CHECK HANGAR
USMCAS EL TORO LOCATION PLAN
A B G - 2 AREA
297 ASSEMBLY & REPAIR BLDG NO. 3
298 ASSEMBLY & REPAIR BLDG NO. 2
COMPRESSOR BLDG
DROP FORGE
PAINT & OIL STORAGE
ENGINE OVERHAUL
FIRST AID DISPENSARY
ROAD "A"
ROAD "B"
ROAD "C"
ROAD "D"
ROAD "E"
ROAD "F"
ROAD "H"
LUMBER STORAGE AREA
CAFETERIA
GENERAL STOREHOUSE
SALVAGE YARD
ROUNLOADING PLATFORM
PAINT & CHEM STOREHOUSE
RECEIVING & SHIPPING
UCTURAL SPARES STOREHOUSE
ENG SPARE PTS & ACCESSORIES STOREHOUSE
GEN AERONAUTICAL MATERIALS STOREHOUSE
U S MARINE CORPS
464 031
REPAIRS TO WELLS AND PUMPING EQUIPMENT
1" = 200'-0"
ET1001.pdf
1261-19-48

1948 MAP

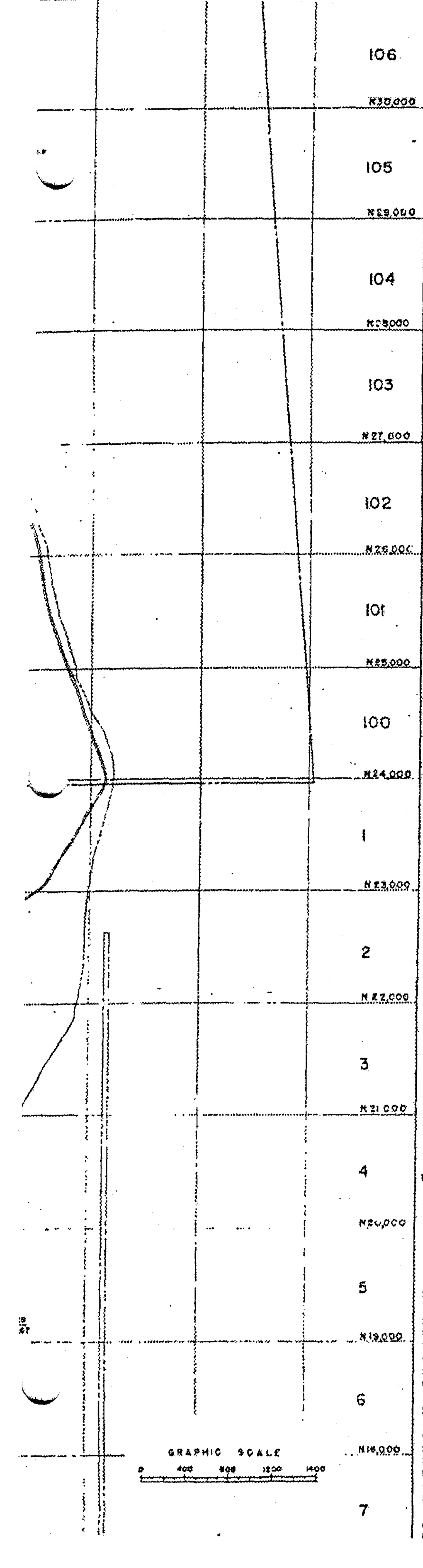


Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.

☆ The 1954 General Development Map Shows Building 379.



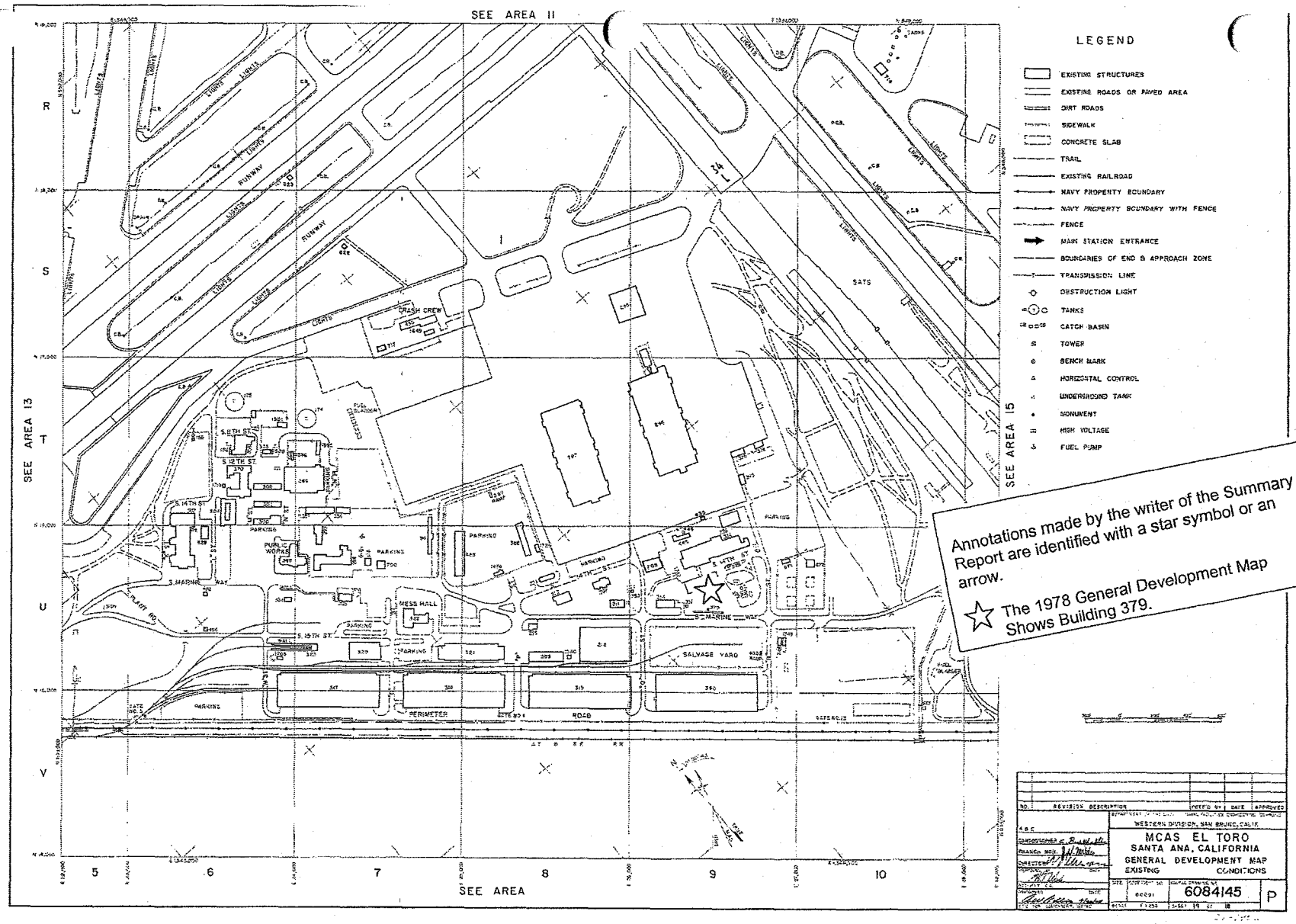
1954 MASTER PLOT PLAN



20	B5	DO
21	B5	CARBURETOR SHOP
22	B6	STOREHOUSE
23	B6	DO
24	B6	COLDSTORAGE BLDG
25	B6	STOREHOUSE
26	B6	DO
27	B6	DO
28	B7	DO
29	B7	DO
30	B7	COMMISSARY
30A	B7	GARBAGE HOUSE
31	A7	STOREHOUSE
32	A7	BACHELOR OFFICERS' QTRS
33	A7	DO
34	A7	DO
35	A7	DO
36	A7	DO
37	A7	DO
38	A7	OFFICERS' CLUB
39	A7	OFFICERS' MESS & CLUB
40	A6	BACHELOR OFFICERS' QTRS
41	A6	DO
42	A6	DO
43	A6	DO
44	A6	DO
45	A6	DO
46	B6	ADMINISTRATION
47	B6	DOPE & SPRAY BLDG
48	B6	AIRCRAFT ACCESS & MAINT BLDG
49	B5	GROUP MAINT HANGAR
50	B5	STOREHOUSE
51	B5	DO
52	B5	PROPELLER SHOP
53	B5	PARACHUTE BLDG
54	B4	GUARD HOUSE
55		REMOVED
56	B4	TRAINING BLDG
57	B4	SWIMMING POOL
58	A4	ADMINISTRATION
59	A4	DO
60	A4	MARINE EXCHANGE
61	A4	GATE HOUSE
62	A4	ADMINISTRATION
63	A4	FAMILY DISPENSARY
64	A4	DISPENSARY
64A	A4	BOILER HOUSE
64B	A4	GARBAGE HOUSE
65	A5	ADMINISTRATION
66	A3	MESSHALL (ENLISTED)
66A	A3	GARBAGE HOUSE
67	A3	ENLISTED MEN'S CLUB
67A	A3	GARBAGE HOUSE
68	A3	BARRACKS (ENLISTED)
69	A3	DO
70	A3	DO
71	A3	DO
72	A3	DO
73	A3	DO
74	A2-3	AUDITORIUM
75	A2-3	MARINE EXCHANGE
75A	A5	GARBAGE HOUSE
76	B2	REMOVED-INC IN BLDG 75
77	A2	BARRACKS (ENLISTED)
78	A2	DO
79	A2	DO
80	A2	DO
81	A2	DO
82	A2	DO
83	A2	MESSHALL (ENLISTED)
83A	A2	GARBAGE HOUSE
84	A2	STAFF NCO CLUB
84A	A2	GARBAGE HOUSE
85	A2	SPECIAL SERVICES GARAGE
86	A2	DO
87	K7-8	GOLF COURSE CLUB HOUSE
88	D8	REMOVED-INC IN BLDG 91
89	E9	REMOVED-INC IN BLDG 90
90	E8	MARINE CONSTR TRAINING SCHOOL
91	D8	GROUNDS BLDG
92	A1	STOREHOUSE
93		REMOVED
94	A1	GYMNASIUM
95	E9	REMOVED
96	E9	MOTOR TRANSPORT SCHOOL
97	E8	STOREHOUSE
98	B3	FIREHOUSE
99	B3	PAINT & OIL STORAGE
100	C4	DO
101	C5	STOREHOUSE
102	C5	PAINT & OIL STORAGE
102A	C5	SWITCH BLDG
103	B6	PAINT & OIL STORAGE
104	A5	ADMINISTRATION
105	G1	GROUP ADMINISTRATION BLDG
106	E2	NOSE HANGAR
107	F2	FIREHOUSE & ARMORY
108	F2	DO
109	F2	NOSE HANGAR
110	G2	DO
111	G2	FIREHOUSE & ARMORY
112	G2	DO
113	G2	NOSE HANGAR
114	G2	SQUADRON HEADQUARTERS
115	G2	DO
116	F2	DO
117	E-F2	DO
118	E1	STOREHOUSE
119	F1	DO
120	F2	DO
121	F2	DO
122	G2	DO
123	G2	DO
124	G2	DO
125	G2	DO
126	G2	PARACHUTE BLDG
127	G2	PROPELLER SHOP
128	G2	GROUP MAINT HANGAR
129	G1	AIRCRAFT ACCESS & MAINT BLDG
130	G1	DOPE & SPRAY BLDG

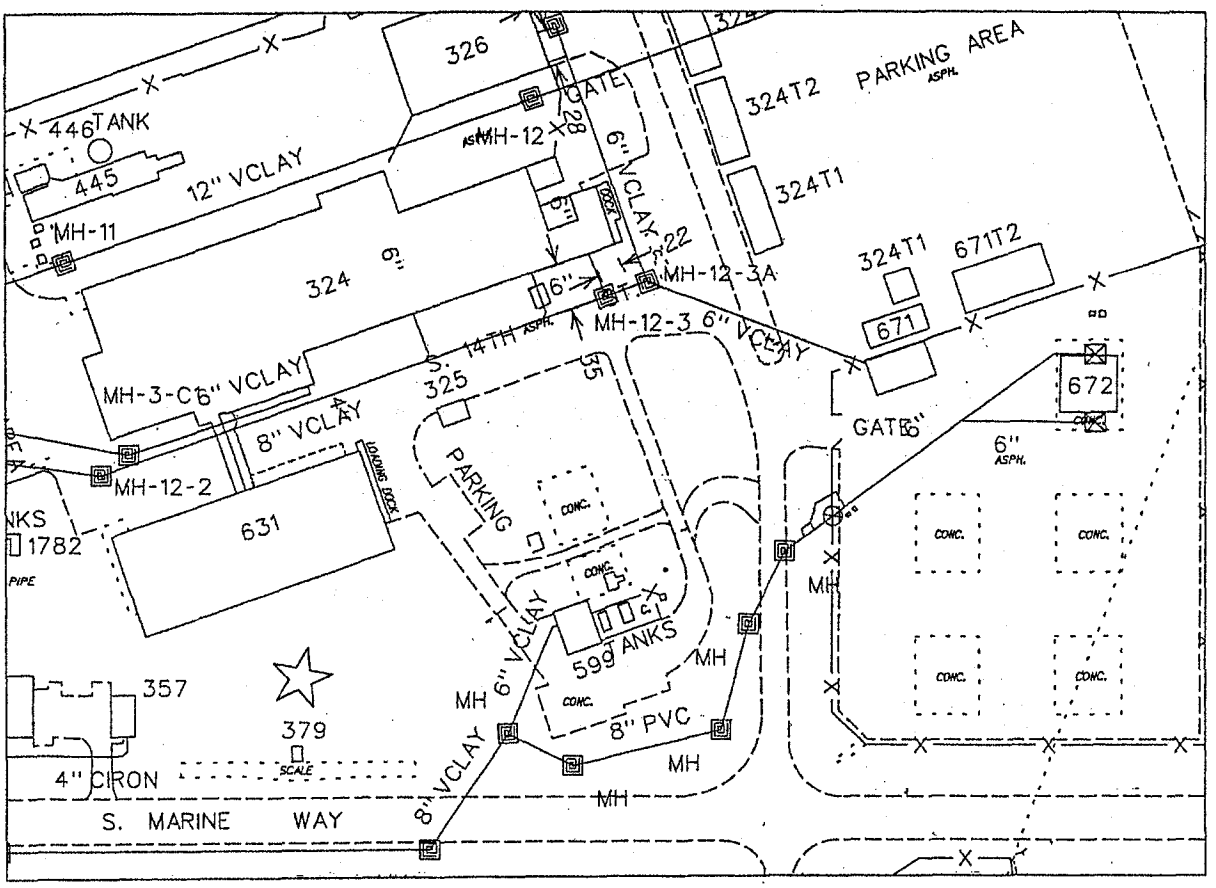
162	J4	DO	
163	J5	STORAGE WAREHOUSE	
164	J5	DO	
165	J6	DO	
166	I6	DO	
167	I7	DO	
168	I7	REMOVED	
169	J6	STORAGE WAREHOUSE	
170	JK5	DO	
171	K5	DO	
172	K4	DO	
173		REMOVED	
174	E8	1,000,000 GAL RESERVOIR	
175	D8	DO	
176	B6	GASOLINE ST TANK	25,000 GAL
177	B6	DO	50,000 GAL
178	B6	DO	50,000 GAL
179	B6	DO	25,000 GAL
180	B6	DO	25,000 GAL
181	B6	DO	50,000 GAL
182	B6	DO	50,000 GAL
183	B6	DO	25,000 GAL
184	B7	DO	25,000 GAL
185	B7	DO	50,000 GAL
186	B7	DO	50,000 GAL
187	B7	DO	50,000 GAL
188	B3	DO	25,000 GAL
189	B3	DO	50,000 GAL
190	B3	DO	50,000 GAL
191	B3	DO	25,000 GAL
192	B3	DO	25,000 GAL
193	B3	DO	50,000 GAL
194	B3	DO	50,000 GAL
195	B3	DO	25,000 GAL
196	E2	DO	25,000 GAL
197	E2	DO	50,000 GAL
198	E2	DO	50,000 GAL
199	E2	DO	25,000 GAL
200	E3	DO	25,000 GAL
201	E3	DO	50,000 GAL
202	E3	DO	50,000 GAL
203	E3	DO	25,000 GAL
204	H2	DO	50,000 GAL
205	H3	DO	25,000 GAL
206	H2	DO	50,000 GAL
207	H2	DO	50,000 GAL
208	H2	DO	50,000 GAL
209	H2	DO	25,000 GAL
210	H2	DO	25,000 GAL
211	H2	DO	50,000 GAL
212	H2	DO	50,000 GAL
213	H2	DO	25,000 GAL
214	H2	DO	25,000 GAL
215	H2	DO	50,000 GAL
216	E1	FUEL OIL TANK	50,000 GAL
217	E1	DO	25,000 GAL
218	E1	DO	25,000 GAL
219	B3	DO	50,000 GAL
220	B3	DO	25,000 GAL
221	B3	DO	25,000 GAL
222	A2	ELEV WATER TANK	200,000 GAL
223	A5	SENTRY HOUSE	
224	B7	ADMINISTRATION	
225	B7	STOREHOUSE	
226	B7	DO	
227	B7	DO	
228	A3	DO	
229	F2	DO	
230	F2	PAINT & OIL STORAGE	
231	F2	DO	
232	F2	LINE MAINTENANCE	
233	F2	STOREHOUSE	
234		REMOVED	
235		DO	
236		DO	
237		DO	
238	B5	OXYGEN STORAGE BLDG	
239	A6	HOMOJA HUTS	
240	B6	STOREHOUSE	
241	B6	DO	
242	B7	DO	
243	B7	SQUADRON HEADQUARTERS	
244	C7	NOSE HANGAR	
245	B7	STOREHOUSE	
246	B7	SALVAGE BLDG	
247	A7	BACHELOR OFFICERS' QTRS	
248	A7	DO	
249	A7	DO	
250	A7	DO	
251	A7	OFFICERS' MESS	
251A	A6	GARBAGE HOUSE	
252		REMOVED	
253	A6	MARRIED OFFICERS' QTRS	
254	A6	DO	
255	A6	BACHELOR OFFICERS QTRS	
256	B5	TRAINING BLDG	
257	B4	ADMINISTRATION	
258	A4	HOSTESS HOUSE	
259	A4	BARRACKS (ENLISTED)	
260	A3-4	DO	
261	B3-4	REMOVED	
262	A4	MESSHALL (ENLISTED)	
262A	A4	GARBAGE HOUSE	
263	A3	MESSHALL (ENLISTED)	
263A	A3	GARBAGE HOUSE	
264	B3	SPECIAL SERVICES BLDG	
264A	B3	GARBAGE HOUSE	
265	A3	BARRACKS (ENL)	
266	B3	DO	
267	A3	DO	
268	B3	DO	
269	A3	DO	
270	B3	DO	
271	A1	THEATRE	
272	B3	BOWLING ALLEY	
273	B2	POST OFFICE	
274	A2	BARRACKS (ENLISTED)	
275	B2	DO	
276	A2	DO	
277	B2	DO	

301	D8	PAINT SHOP (PW)
302	D8	UTILITIES BLDG (PW)
303	D8	EQUIP REPAIR & STORAGE (PW)
304	D8	ADMINISTRATION (PW)
305	D8	ELECTRIC SHOP (PW)
306	D8	WATER TREATMENT PLANT
306A	D8	RAW WATER TANK-ELEVATED
306B	D8	WASH WATER TANK-ELEVATED
307	D8-9	LAUNDRY
307A	D9	LAUNDRY BOILER PLANT
308	G1	PUMPHOUSE BOOSTER
309	F9	ADMINISTRATION BLDG
310	G8	PAINT & OIL STORAGE
311	F9	FIRE HOUSE
312	F9	PHOTO LAB BLDG
313	F9	GENERAL STOREHOUSE
314	G9	HEATING PLANT
315	G8	DROP FORGE BLDG
316	G8	COMPRESSOR BLDG
317	E9-10	STRUCTURAL SPARES STOREHOUSE
318	E-F9-10	ENG SP PT & ACCESS STOREHOUSE
319	F9-10	GEN AERO MATL STOREHOUSE
320	E9	PAINT & CHEMICALS STOREHOUSE
321	E-F9	REC SHIP & SUPPLY OFFICE
322	E9	CIVILIAN CAFETERIA
323	D-E9	UNLOADING PLATFORM
324	G9	ENG OVERHAUL & TEST CELLS
325	G9	HAZARDOUS MATERIALS BLDG
326	G8-9	TEST CELLS
327	B4	BARRACKS (ENLISTED)
328	B4	MARRIED ENLISTED MEN'S QTRS
329	A4	DO
330	D8	GROUNDS BLDG
331	D8	PUMP PIT WELL NO 5
332	E8	PUMPHOUSE WELL NO 6
333	F9	ADMINISTRATION
334	F2	SQUADRON HEADQUARTERS
335	D8	PUMPHOUSE
336	A9	SENTRY HOUSE
337	A2	CHAPEL
338A	G9	ENGINE TEST STAND "H" TYPE
338B	G9	DO
338C	G9	DO
339	G1	SENTRY HOUSE
340	D9	GROUP
340A	D9	SLUDGE SUMP IND WASTE PLANT
340B	D9	SETTLING BASIN IND WASTE PLANT
340C	D9	DO
340D	D9	CHEMICAL STOR IND WASTE PLANT
341	G1	PUMPHOUSE-NAMAR BOOSTER
342	G1	WATER PRESSURE TANK 10,000 GAL
343	H4	SWITCH BLDG, FIELD LIGHTING
344	A1	STORAGE BLDGS (TEMP)
345	E-F8-1	MARRIED ENLISTED MEN'S QTRS
346	A5-6	MARRIED OFFICERS' QTRS
347	A3	SERVICE STA-MAR EXCHANGE
348	D8	GREENHOUSE
349	I5-6	ROTATING LIGHT BEACON
350A	I6	EFFLUENT TANK 450,000 GAL
350B	I6	DO
350C	I6	PUMPHOUSE-EFFLUENT
351	B7	ORDNANCE SCHOOL BLDG
352	G2	LINE MAINTENANCE
353	H2	STOREHOUSE
354		
355	F9	TRANS & EQUIP OFF-NAVY SUPPLY
356	I-3	PISTOL RANGE
357	G8	GARBAGE HOUSE
358	A10	METRO WATER PUMP BOOSTER
359	F9	PRESERVATION BLDG
360	G9-10	NAVY SUPPLY WAREHOUSE
361A	M-102	MAGAZINE-HIGH EXPLOSIVE
361B	L-102	DO.
361C	L-103	DO.
361D	L-104	MAGAZINE-FUSE & DETONATOR
361E	M-104	DO.
361F	M-105	MAGAZINE-SMOKE DRUM STORAGE
361G	M-106	MAGAZINE-HIGH EXPLOSIVE
361H	L-105	DO.
361I		DO.
361J	K-104	MAGAZINE-SML. ARMS & PYRO.
361K	L-104	DO.
362A	J-101	JET FUEL TANK-13,300 BBLS
362B	J-101	DO.
362C	K-101	DO.
362D	JK-101	DO.
362E	JK-102	DO.
363	H-2	METERING STATION
363A	H-2	TANK TRUCK LOADING STAND
363B	H-2	DO.
363C	H-2	DO.
363D	H-2	DO.
364	AA-B3-2	SUBSISTENCE BLDG.
365	AA-B-2-3	BARRACKS (ENLISTED)
366	AA-2-3	DO.
367	AA-2-3	DO.
368	D-9	P.W. OFFICE BLDG.
369	D-E-9	SHOP STORES
370	D-9	METAL TRADES
371	I-6	TRANSPORT SQDN. HANGAR
372	F-3	OPERATIONS BLDG. & CONT. TOWER
373	AA-2	ELEV. WATER TANK 300,000 GAL.
374	I-5	UTILITY BLDG.
374A	I-5	FUEL OIL STORAGE TANK-1000 BBL.
375	A-7-8	BACHELOR OFFICERS' QTRS.
376	B-3	FIRE ALARM HEADQUARTERS BLDG.
377	I-6	WATER STOR. TANK-36,000 GALS.
378	F-3	TRANSFORMER VAULT
379	B-5	MOTOR TRUCK SCALE-50 TON
155P	D-9	GRIT COLLECTOR
155Q	D-9	GAS HOLDER
155R	D-9	HEAT EXCHANGER
335A	D-8	WATER PRESSURE TANK 10,000 GAL.
358A	A-10	DO.
375B	A-8	SEWAGE LIFT STATION
380	H-1	EMERGENCY GENERATOR BLDG.
381	E-8	CRASH CREW SHELTER



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

☆ The 1978 General Development Map Shows Building 379.



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

MCAS EL TORO

EXTRACT FROM SANITARY SEWER MAP FOR BUILDING 379 VICINITY

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

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
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In association with:
International Technology Corporation
CH2M HILL

John Dolegowski 28 Oct 94
Date

John Dolegowski
CLEAN Project Manager
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27 OCT 94
Date

Michael Bitner, R.G.
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CH2M HILL, Inc.

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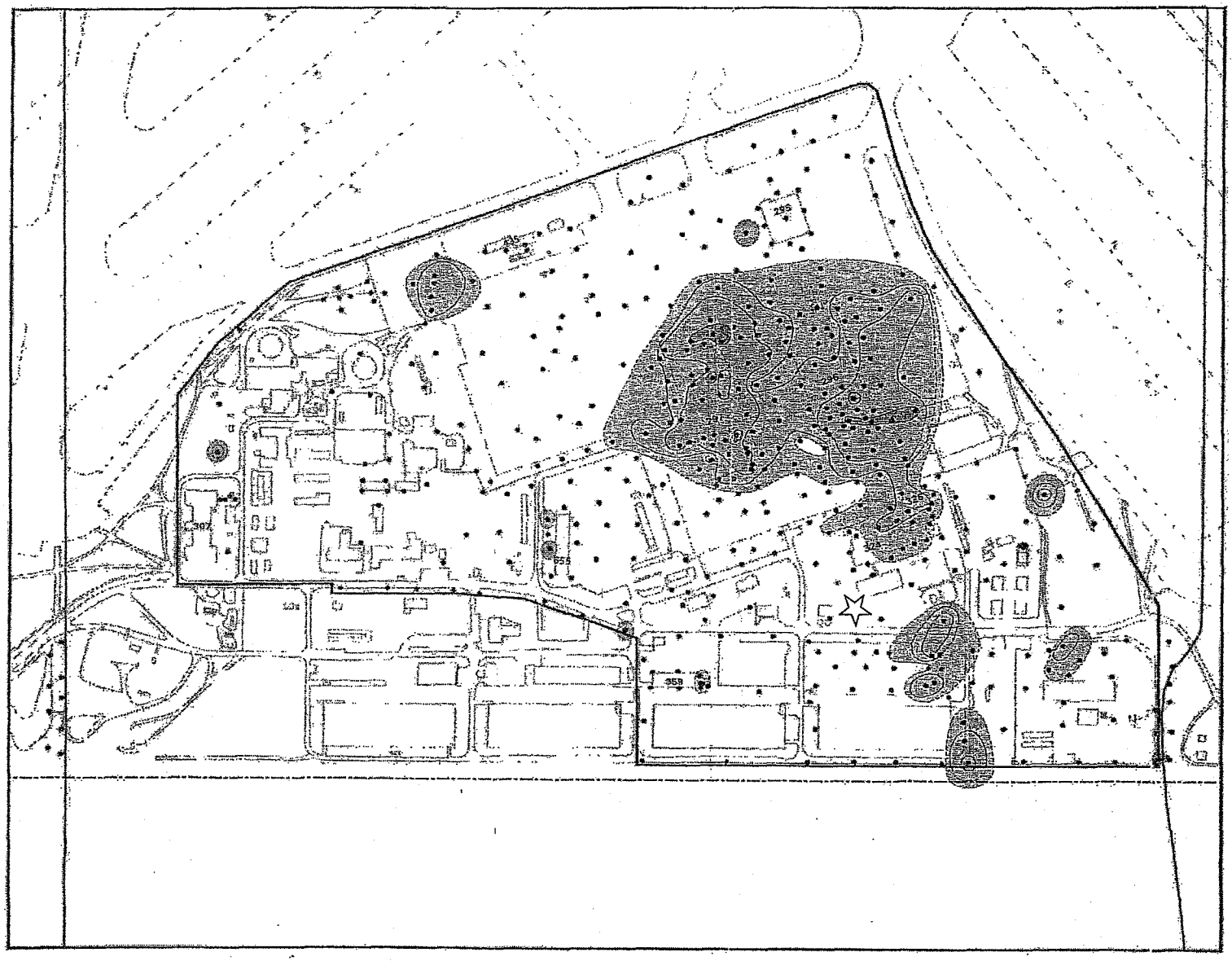


FEATURES:

- 1.0 TO 5.0 ug/l TCE
- 5.0 TO 50.0 ug/l TCE
- 50.0 TO 500.0 ug/l TCE
- GREATER THAN 500.0 ug/l TCE
- MCAS EL TORO BOUNDARY
- WASH OR STREAM
- SITE 24 BOUNDARY
- SOIL GAS MONITORING LOCATION

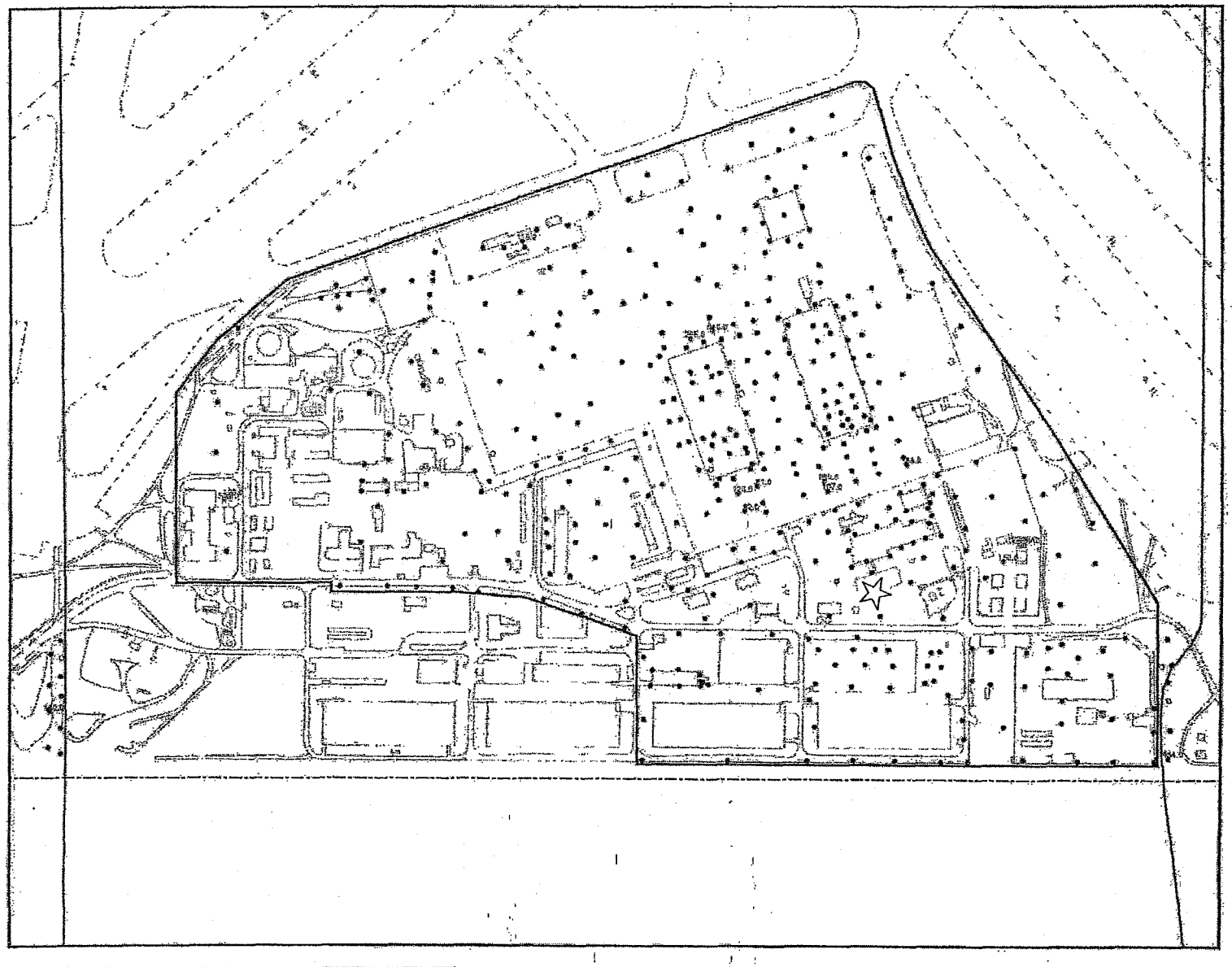
CONTOUR LINES ARE DASHED WHERE INFERRED

0 225 450 900
SCALE IN FEET

FIGURE 3-8

MAXIMUM TRICHLOROETHYLENE (TCE) SOIL GAS CONCENTRATIONS AT EACH SAMPLE LOCATION

SOIL GAS MONITORING MAY-JULY 1994
MCAS EL TORO SOIL GAS SURVEY



FEATURES:

- MCAS EL TORO BOUNDARY
- WASH OR STREAM
- SITE 24 BOUNDARY
- NON-DETECT OR LESS THAN 50.0 ug/L TOTAL FUEL HYDROCARBONS
- 50.0 TO 500.0 ug/L TOTAL FUEL HYDROCARBONS
- GREATER THAN 500.0 ug/L TOTAL FUEL HYDROCARBONS
- SOIL GAS MONITORING LOCATION
- 2.0 D CONCENTRATION, DATA FLAG.

DATA FLAGS:
U - UNDETECTED
D - DILUTION
B - DETECTED IN LAB BLANK.
J - ESTIMATED

0 225 450 900
SCALE IN FEET

FIGURE 3-14

MAXIMUM TOTAL FUEL HYDROCARBONS SOIL GAS CONCENTRATIONS AT EACH SAMPLE LOCATION

SOIL GAS MONITORING MAY-JULY 1994

MCAS EL TORO SOIL GAS SURVEY

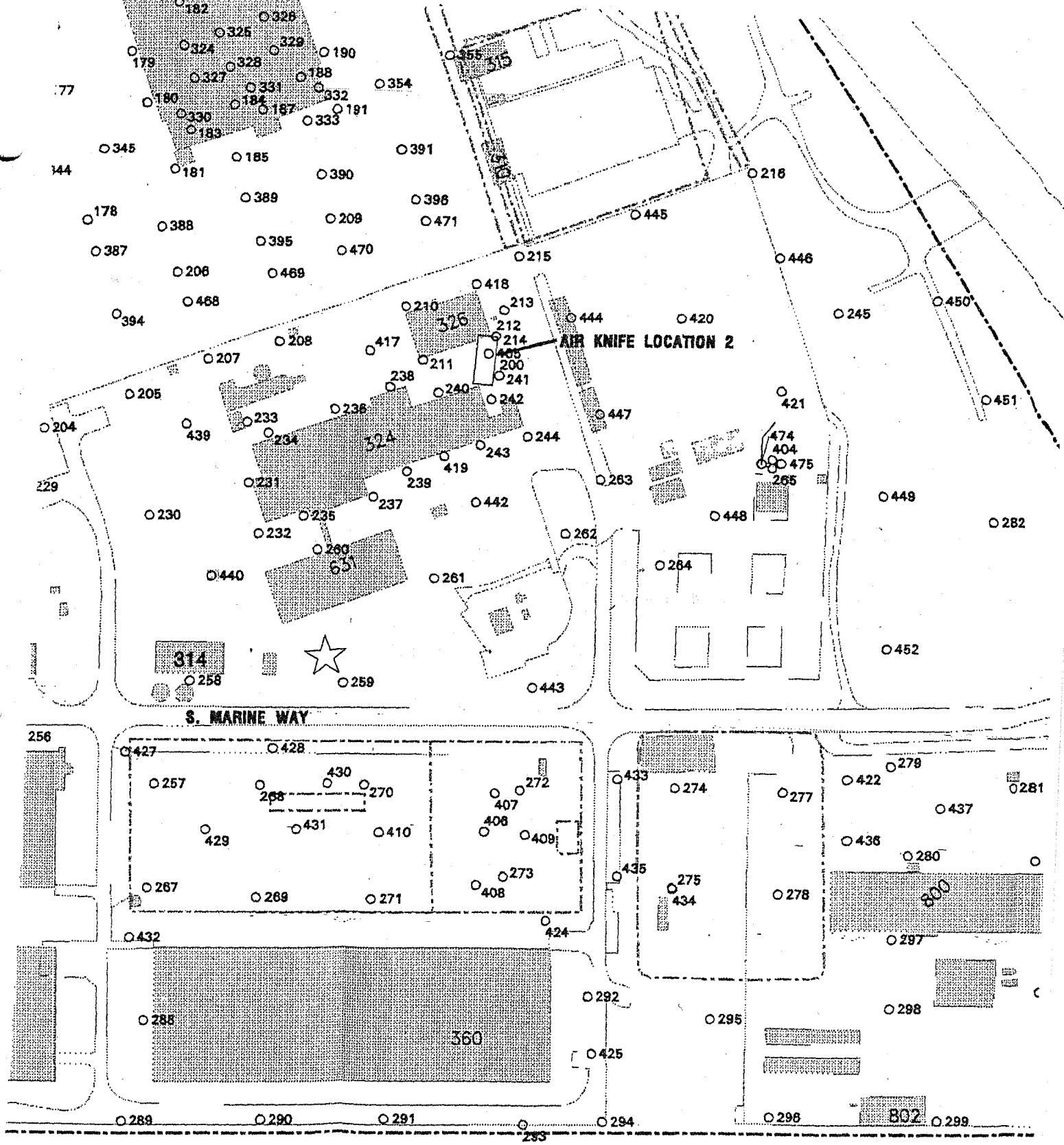

AIR KNIFE LOCATION 2
S. MARINE WAY
326
324
631
314
360
800
802

Table C-1
Concentrations in Soil Gas
MCAS El Toro Soil Gas Survey Technical Memorandum

Concentration in ug/L

(1) Key to Full Parameter names in Legend.

Station_ID	Depth	Sample_ID	Smpl_Date	Smpl_Time	PCE (ECD)	PCE (FID)	TCE (ECD)	TCE (FID)	C12DCE	T12DCE	11DCA	11DCE (ECD)	11DCE (FID)	VC	111TCA	112TCA	TCTFA	CT	CHCL3	12DCP	MeCL2	TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes
24_SG241	12	S145G2009	6/1/94	17:02	4.8		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	2.6 J	1 U	1 U	1 U	1 U	33	1 U	1 U	1.1	5
24_SG241	12	S145G2010	6/1/94	20:13	4.8		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	2.6 J	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1.6
24_SG241	12	S145G2011	6/2/94	14:08	4.1		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1.1 J	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG241	12	S145G2012	6/4/94	12:00	6.5 E	2.1 FI	1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	2.9 J	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG242	15	S145G1242	6/29/94	11:59	1 U		1 U		1 U	1 U	1 U	121 E	1.4 FI	8.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	17	1 U	1 U	1 U	1 U
24_SG243	12	S145G1243	6/10/94	9:05	3.9 E	2.9 FI	2		1 U	1 U	1 U	1 U		5 U	1 U	1 U	3.9 J	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG243	20	S145G1543	6/10/94	9:10	3.3 E	2.2 FI	2		1 U	1 U	1 U	1 U		5 U	1 U	1 U	2.6 J	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG243	20	S145G3133	6/10/94	9:11	3.5 E	2.4 FI	2.1		1 U	1 U	1 U	1 U		5 U	1 U	1 U	2.6 J	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG244	12	S145G1244	6/9/94	8:19	3.6 E	2.7 FI	1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	2.6 J	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG244	12	S145G3128	6/9/94	8:20	2.1 E	1.3 FI	1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1.4 J	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG244	20	S145G1544	6/9/94	8:25	3.6 E	2.7 FI	1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	3.2 J	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG245	15	S145G1245	6/16/94	8:34	1 U		13.5 E	79.1 FI	1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG246	15	S145G1246	6/15/94	9:50	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG247	15	S145G1247	6/15/94	10:12	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG248	15	S145G1248	6/15/94	14:18	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG249	15	S145G1249	6/15/94	10:45	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG250	15	S145G1250	6/15/94	14:00	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG251	15	S145G1251	6/15/94	11:10	1 U		1.1		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG252	15	S145G1252	6/15/94	11:20	1 U		1		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG253	15	S145G1253	6/15/94	13:25	1 U		1		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG254	15	S145G1254	6/15/94	13:40	1 U		1		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG254	15	S145G3150	6/15/94	13:41	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG255	15	S145G1255	6/15/94	10:47	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG256	15	S145G1256	6/15/94	11:07	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG257	12	S145G1257	6/10/94	9:09	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG257	20	S145G1557	6/10/94	9:18	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG258	15	S145G1258	6/15/94	13:48	1 U		1 U		1 U	1 U	1 U	45		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG259	15	S145G1259	6/15/94	14:11	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG260	12	S145G1260	6/10/94	11:15	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 J	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG260	20	S145G1560	6/10/94	11:20	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG261	15	S145G1261	7/1/94	10:50	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG262	12	S145G1262	6/9/94	9:40	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG262	20	S145G1562	6/9/94	9:48	1 U		1 U		1.1	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG263	12	S145G1263	6/9/94	8:55	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG263	20	S145G1563	6/9/94	9:14	1 U		1 U		1.1	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG264	15	S145G1264	6/15/94	14:39	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG265	15	S145G1265	6/15/94	15:18	1 U		1 U		1 U	1 U	1 U	10		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10000	121	80	180	448
24_SG265	15	S145G3084	6/15/94	15:18	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	8900	112	71	157	375
24_SG266	15	S145G1266	6/16/94	11:35	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG267	12	S145G1267	6/10/94	8:41	1 U		1 U		1 U	1 U	1 U	28.5 E	1.9 FI	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG267	20	S145G1567	6/10/94	8:49	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG268	12	S145G1268	6/10/94	9:39	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG268	20	S145G1568	6/10/94	9:47	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1.1	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG269	12	S145G1269	6/10/94	10:05	1 U		1 U		1 U	1 U	1 U	21.4 E	1.3 FI	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG269	20	S145G1569	6/10/94	10:11	1 U		1 U		1 U	1 U	1 U	24.5 E	1.7 FI	5 U	1 U	1 U	1 U	1.2	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG270	12	S145G1270	6/10/94	10:30	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	4.3	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG270	20	S145G1570	6/10/94	10:46	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	4.4	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG270	20	S145G3069	6/10/94	10:46	1 U		1.4		1 U	1 U	1 U	200 E	1.1 FI	5 U	1 U	1 U	1 U	4.6	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG271	12	S145G1271	6/10/94	11:06	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	2.5	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG271	20	S145G1571	6/10/94	11:18	1 U		1 U		1 U	1 U	1	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG272	12	S145G1272	6/10/94	12:59	1 U		4.8		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG272	20	S145G1572	6/10/94	13:06	1 U		3.8		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG273	12	S145G1273	6/10/94	13:27	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG273	20	S145G1573	6/10/94	13:38	1		11.4 E	9.5 FI	1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	4.7	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
24_SG274	15	S145G1274	6/16/94	14:23	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	4.2
24_SG274	15	S145G3088	6/16/94	14:23	1 U		1 U		1 U	1 U	1 U	1 U		5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1	4.6

Table C-1
Concentrations in Soil Gas
MCAS El Toro Soil Gas Survey Technical Memorandum

Concentration in ug/L

(1) Key to Full Parameter names in Legend.

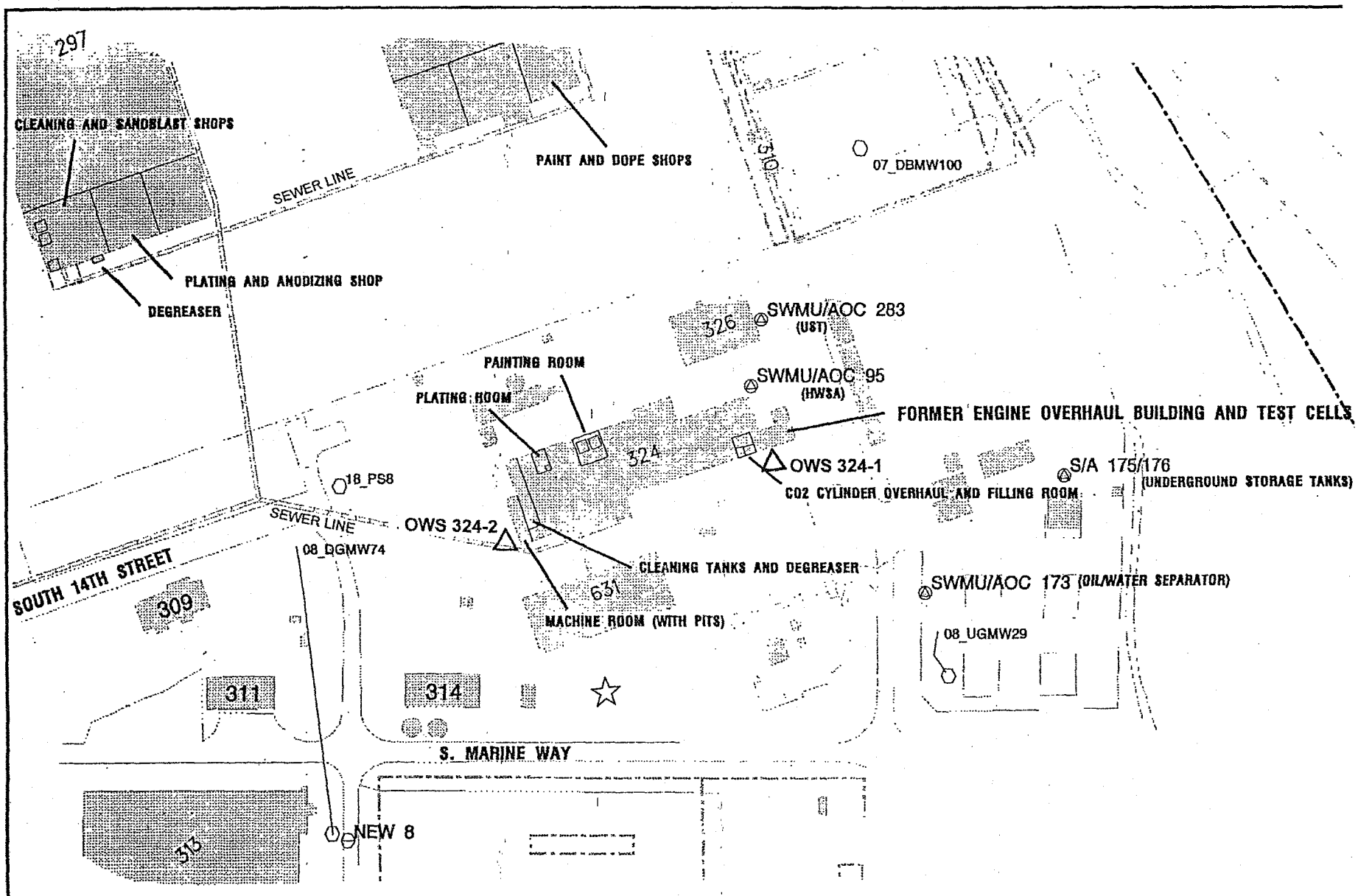
Station_ID	Depth	Sample_ID	Smpl_Date	Smpl_Time	PCE (ECD)	PCE (FID)	TCE (ECD)	TCE (FID)	C12DCE	T12DCE	11DCA	11DCE (ECD)	11DCE (FID)	VC	111TCA	112TCA	TCTFA	CT	CHCL3	12DCP	MeCL2	TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes

(1) Legend:

111TCA - 1,1,1-Trichloroethane	C12DCE - CIS-1,2-Dichloroethylene	T12DCE - Trans-1,2-Dichloroethene
112TCA - 1,1,2-Trichloroethane	CHCL3 - Chloroform	TCE - Trichloroethylene
11DCA - 1,1-Dichloroethane	CT - Carbon Tetrachloride	TCTFA - TCTFA (Freon 113)
11DCE - 1,1-Dichloroethylene	MeCL2 - Methylene Chloride	TPH - Total Petroleum Hydrocarbons
12DCP - 1,2-Dichloropropane	PCE - Tetrachloroethylene	VC - Vinyl Chloride

Key to flags:

U	non-detect value, concentration is the detection limit
E	concentration exceeds the calibrated range of the detector
J	estimated value
Fl	flame ionization detector (gas chromatograph detector flag for TCE; PCE; and 1,1-DCE. No flag indicates electron capture detector (ECD) was used.



Source: Jacobs Engineering Group (JEG), 1994. *Marine Corps Air Station, El Toro, California, Installation Restoration Program, Remedial Investigation/Feasibility Study, Final Soil Gas Survey, Technical Memorandum, Sites 24 and 25.* October.

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

01 April 1995

EXTRACTS

Revision 0

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

M. W. Arends 3/31/95

Mike Arends, P.E. Date
CLEAN Project Manager
CH2M HILL, Inc.

Max Pan 3-31-95

Max Pan, P.E. Date
CLEAN Technical Reviewer
IT Corporation

SCO100217CD.WP5\95\MA

Table 3-3
Summary of SWMUs/AOCs
MCAS El Toro EBS Report - April 1995

Database Tracking	SWMU/AOC Number (1)	RFA Recommendation	Type	Location, Building, or Number	Sampling Visit	Comments	Area Type
UST 314B	92	NFA	Underground Storage Tank	314	X	RFA recommended NFA	7
SAA 317	93	NFA	< 90-Day Accumulation Area	317		Detergent storage only	2
IRP 21	94	FA in IRP (2)	< 90-Day Accumulation Area	320		To be addressed in IRP Site 21 (2)	6
RFA 95	95	NFA	Engine Test Cell	324	X	RFA recommended NFA	3
	96	NFA	Drum Storage Area	343		Source: RWQCB letter (3)	NA
SAA 357	97	NFA	< 90-Day Accumulation Area	357		No evidence of releases observed	2
RFA 98	98	NFA	Vehicle Wash Rack	359	X	RFA recommended NFA	2
SAA 359B	99	NFA	< 90-Day Accumulation Area	359	X	RFA recommended NFA	3
RFA 100	100	NFA	TCE Degreaser	359	X	RFA recommended NFA	3
OWS 359B	101	NFA	Oil/Water Separator	359	X	RFA recommended NFA	7
UST 359C	102	NFA	Underground Storage Tank	359	X	RFA recommended NFA	6
	103	NFA	Drum Storage Area	359		Source: 1980 DHS photograph (3)	NA
IRP 8	104	FA in IRP (2)	< 90-Day Accumulation Area	360		To be addressed in IRP Site 8 (2)	6
IRP 8	105	FA in IRP (2)	< 90-Day Accumulation Area	360		To be addressed in IRP Site 8 (2)	6
IRP 8	106	FA in IRP (2)	< 90-Day Accumulation Area	360		To be addressed in IRP Site 8 (2)	6
SAA 371A	107	NFA	< 90-Day Accumulation Area	371	X	RFA recommended NFA	2
UST T10	108	NFA	Underground Storage Tank	T-10		Spill Containment Tank	7
	109	NFA	< 90-Day Accumulation Area	379		Source: SPCC map (no date) (3)	NA
RFA 110	110	FA	Vehicle Wash Rack	386	X	RFA recommended repair of cracks in pavement	6
OWS 386B	112	NFA	Oil/Water Separator	386	X	RFA recommended NFA	7
UST 386C	113	NFA	Underground Storage Tank	386	X	Combined with SWMU/AOC 112	7

Table 3-3
Summary of SWMUs/AOCs
MCAS El Toro EBS Report - April 1995

Database Tracking	SWMU/AOC Number (1)	RFA Recommendation	Type	Location, Building, or Number	Sampling Visit	Comments	Area Type

NOTES:

(1) SWMU/AOCs identified as duplicate locations are not included in this table. Refer to Table 4-1 of the Final RFA Report dated 16 July 1993 for a complete list of SWMUs/AOCs.

(2) SWMU/AOC is located within RI/FS site boundaries and, therefore, was not evaluated in the RFA. These SWMUs/AOCs are being addressed under the IRP.

(3) SWMU/AOC was not able to be accurately located or identified from the records review information and the visits conducted as part of the RFA.

(4) These sites were not plotted on the GIS map because they were not evaluated under the PR/VSI.

(5) SWMU/AOC is located witin RI/FS site boundaries; however, it will be addressed in a closure-related compliance program.

(6) DTSC recommended further investigation based on PR/VSI description, which stated that the drop tank storage area was located on damaged asphalt. This area is actually concrete-paved (tarmac) and, therefore, was not recommended for sampling during the RFA. No further investigation is anticipated at this SWMU/AOC.

(7) These sites were not plotted on the GIS map because they were not evaluated under the PR/VSI. The parcels listed correspond to the nearest building location.

* = Pending agency approval.

FA = further action

IRP = Installation Restoration Program

NA = Not applicable. The SWMU/AOC is a large unit that is located in several different parcels.

NL = Not located. Unable to locate building or device on historical plans for MCAS El Toro.

NFA = No further action

NEESA = Naval Energy and Environmental Support Activity

SVOC = semi-volatile organic compounds

SOURCE:

Jacobs, 1993. MCAS El Toro Final RCRA Facility Assessment Report.

SOUTHWESTNAVFACENGCOM
CODE 06CC.LMH
SAN DIEGO, CA 92101

No Further Action Decision Documents for Nearby Locations of Concern

STATE OF CALIFORNIA—CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

PETE WILSON, Governor

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION
3737 MAIN STREET, SUITE 500
RIVERSIDE, CA 92501-3339
PHONE: (909) 782-4130
FAX: (909) 781-6288

November 21, 1997

Mr. Wayne D. Lee
Assistant Chief of Staff
Environment and Safety
Marine Corps Air Station El Toro
P.O. Box 95001
Santa Ana, CA 92709-5001

SITE CLOSURE, PETROLEUM OIL WATER SEPARATOR TANK 357, MARINE CORPS AIR STATION EL TORO

Dear Mr. Lee:

This letter confirms the completion of site investigations and remedial actions for the Petroleum Oil Water Separator Tank 357. Based on the information provided in the Tank Removal and Site Closure Report dated 10/3/97 and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the petroleum release is required.

If you have any questions regarding this matter, please contact Lawrence Vitale at (909) 782-4998.

Sincerely,

Gerard J. Thibeault
Executive Officer

cc: Mr. Tayseer Mahmud, DTSC, Office of Military Facilities, Region 4
LT. Hope Katcharian, Marine Corps Air Station El Toro
Mr. John Adams Jr., State Water Resources Control Board, Division of Clean Water Programs

TOM URAM
DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

JACK MILLER, REHS
DEPUTY DIRECTOR

MAILING ADDRESS
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4151

TELEPHONE (714) 667-3700
FAX (714) 667-3713

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

October 31, 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
Oil-Water Separator 314C
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 May 9, 1997, 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

Tank Removal and Site Closure Report

EXTRACTS

Oil-Water Separator 314C
Marine Corps Air Station
El Toro, California

SWDIV Contract No. N68711-93-D-1459, Delivery Order No. 0024
OHM Project No. 17486
Document Control No. SW4177
Revision 0
September 22, 1997

OHM Remediation Services Corp.

1202 Kettner Boulevard
San Diego, California 92101

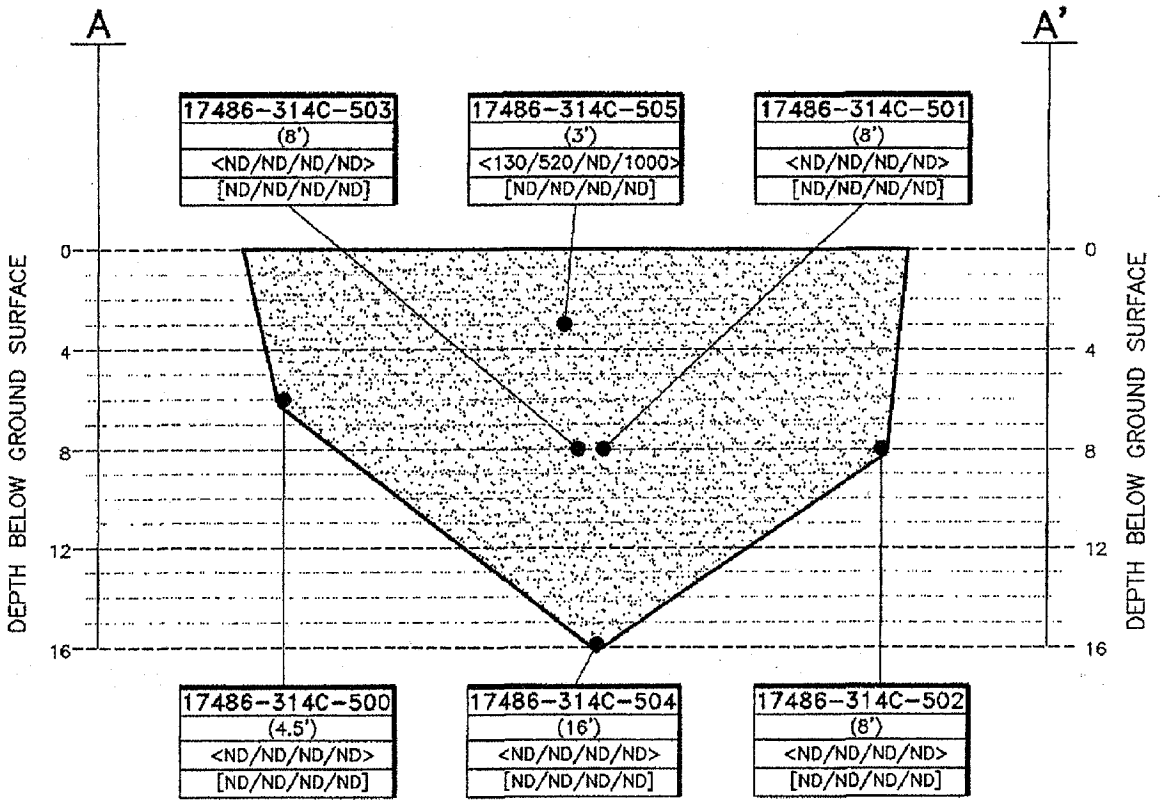
Prepared by:

Matt S. Himmelstein, P.E. for
Project Engineer

Approved by:

William L. Sedlak, P.E. for
Senior Project Manager

\prod\reports\do24\17486\site280\trscr.doc



A — CROSS SECTION
SEE APPENDIX D

EXPLANATION:

●	CONFIRMATION SOIL SAMPLE LOCATION
mg/kg	MILLIGRAMS PER KILOGRAM
µg/kg	MICROGRAMS PER KILOGRAM
TPH	TOTAL PETROLEUM HYDROCARBONS AS DIESEL
TRPH	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
BTEX	BENZENE, TOLUENE, ETHYLBENZENE, AND TOTAL XYLENES
ND	NOT DETECTED ABOVE LABORATORY REPORTING LIMITS AS SHOWN IN TABLE 2-1
NA	NOT ANALYZED
	APPROXIMATE LIMITS OF OWS 314C EXCAVATION

17486-314C-500	SAMPLE IDENTIFIER
(4.5')	(SAMPLE DEPTH IN FEET)
<ND/ND/ND>	<TRPH/TPH-DIESEL/TPH-GASOLINE/TPH-MOTOR OIL CONCENTRATION mg/kg>
[ND/ND/ND/ND]	[BTEX CONCENTRATION µg/kg]

NOTE: ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

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

CONTRACT NAME: SWDIV

DRAWN BY: R. PIRMORADIAN — DATE: 09/22/97
CHECKED BY: D.R. — DATE: 9/22/97
APPROVED BY: D.R. — DATE: 9/22/97
PROJECT MANAGER: B.H. Sedeno — DATE:

EXCAVATION CROSS SECTION
OWS 314C

MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

AUTOCAD FILE No.	PLOT SCALE	SHEET	OF	SCALE	DOCUMENT CONTROL No.	OHM PROJECT No.	FIGURE No.	REVISION
17486132.DWG	1=1	1	1	NONE	SW4177	17486	FIG 2-1	0

Sept 22, 1997 - 11:19:21 G:\PROJECTS\17486\17486132.dwg

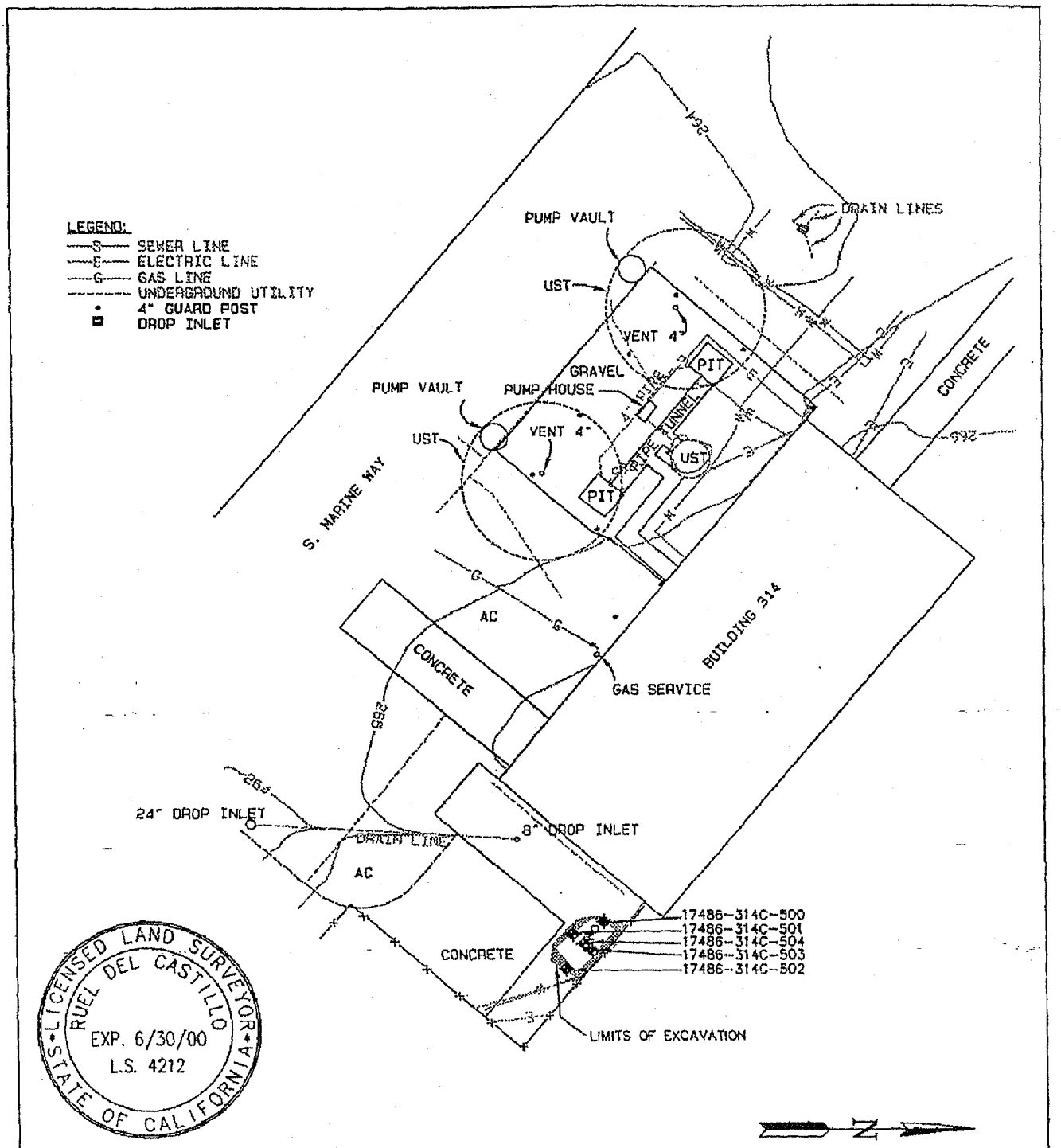
EPA METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

CLIENT:	OHM Remediation Services	DATE COLLECTED:	05/09/97
PROJECT:	MCAS El Toro/17486/D.O. 24	DATE RECEIVED:	05/09/97
BATCH NO.:	97E051	DATE EXTRACTED:	05/10/97
MATRIX:	SOIL	DATE ANALYZED:	05/12/97

SAMPLE ID	CONTROL NO	RESULT (mg/kg)	H-C RANGE	% RECOVERY SURR1	% RECOVERY SURR2	DL FACTOR	MOIST (%)	PRL (mg/kg)
17486-314-C-500	E051-01	ND	N.A.	97	94	1	9.4	11.04
17486-314-C-501	E051-02	ND	N.A.	97	95	1	24.0	13.16
17486-314-C-502	E051-03	ND	N.A.	98	94	1	16.1	11.92
17486-314-C-503	E051-04	ND	N.A.	96	94	1	22.5	12.9
17486-314-C-504	E051-05	ND	N.A.	95	95	1	19.7	12.45
17486-314-C-505	E051-06	520	C12-C20	94	103	10	16.5	119.8
		1000	C20-C32					
MBLK1S	DSE017SB	ND	N.A.	96	96	1	NA	10
QC LIMIT:				60-140	55-150			

SURR1 : Bromobenzene
SURR2 : Hexacosane
PRL : Project Reporting Limit
H-C RANGE: C10-C15 = JP5
C6-C12 = Gas
C10-C24 = Diesel
C18-C34 = Motor Oil

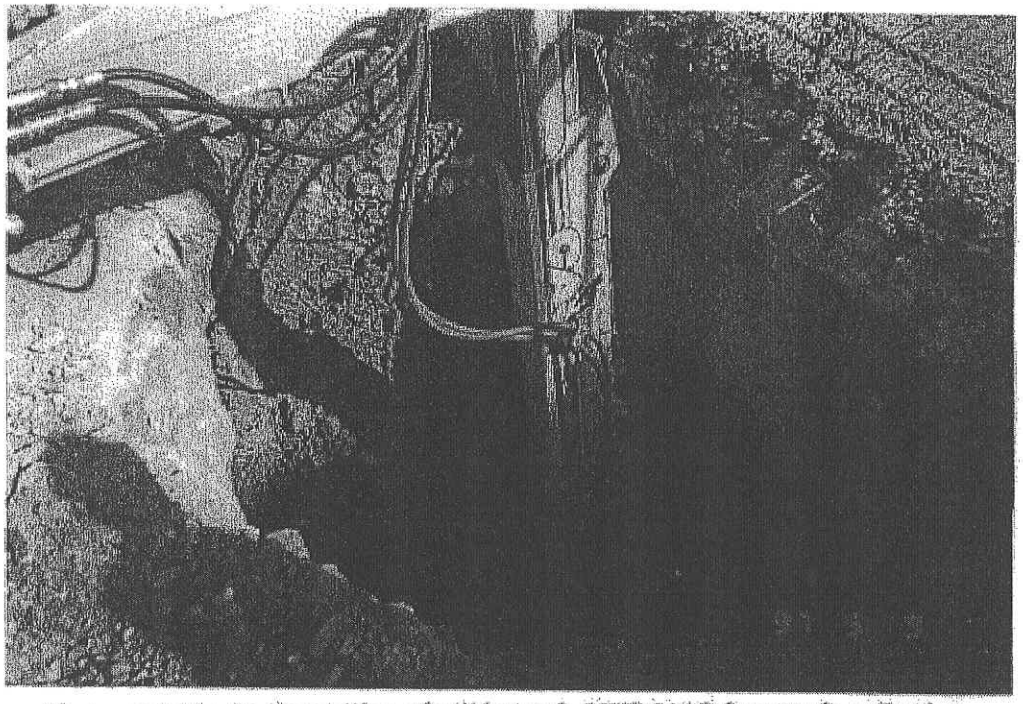
EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818



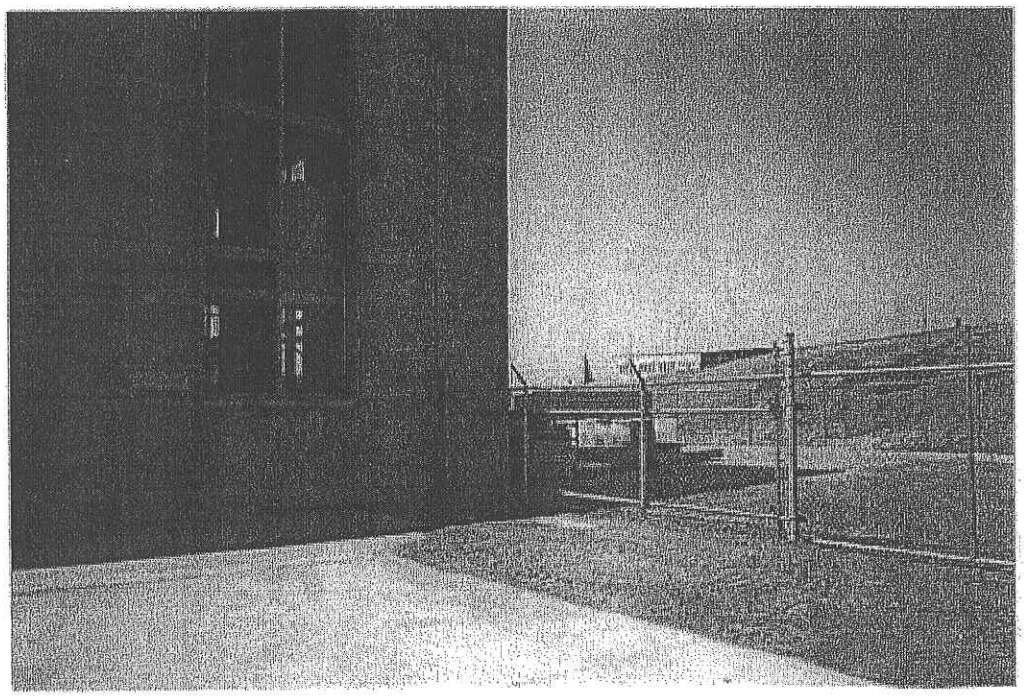
THIS REPRESENTS A SURVEY DONE UNDER MY SUPERVISION.

RUEL DEL CASTILLO, L.S. 4212

JOB #: 5480.502	TAA 314	Towill, inc.
DATE: 8/21/97		15405 Redhill Avenue, Suite A
SCALE: 1" = 30'	MCAS EL TORO	Tustin, CA. 92780 (714) 566-9280
SHEET 1 OF 1		



Photograph No. 3: Excavation of soil beneath OWS 314C for sample collection.



Photograph No. 4: Site 314C following site restoration.

Department of Toxic Substances Control

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

Winston H. Hickox
Secretary for
Environmental
Protection

Gray Davis
Governor

March 16, 1999

Mr. Joseph Joyce
BRAC Environmental Coordinator
U.S. Marine Corps Air Station - El Toro
AC/S, Environmental (1AU), BRAC Building #899
P. O. Box 95001
Santa Ana, California 92709-5001

Dear Mr. Joyce:

CLOSURE REPORT APPROVAL: TEMPORARY ACCUMULATION AREA (TAA) 314 AT MARINE CORPS AIR STATION (MCAS) El TORO

The Department of Toxic Substances Control (DTSC) has reviewed the closure report for the above subject site dated December 23, 1998, and received by us on January 20, 1999, prepared by OHM Remediation Services Corp. The report summarizes the results of the field activities conducted at TAA 314. It is also known as Solid Waste Management Unit (SWMU) 269, a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) site used for temporary storage of hazardous waste. The site consists of a fuel locker placed on a concrete-paved area located next to Oil Water Separator 314C near Building 314 in the southwestern quadrant of the Station.

Based on the report, the site-related residential cancer risk and non cancer hazard indexes are within the acceptable ranges. DTSC, therefore concurs with the findings and conclusions of the closure report, and the report is hereby approved.

If you have any questions, please contact Mr. Tayseer Mahmoud, Remedial Project Manager, at (714) 484-5418.

Sincerely,

Sharon Fair
Unit Chief
Base Closure Unit
Office of Military Facilities

cc: See next page

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

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

Mr. Gregory F. Hurley
Restoration Advisory Board Co-chair
620 Newport Center Drive, Suite 450
Newport Beach, California 92660-8019

Ms. Polin Modanlou
MCAS El Toro Local Redevelopment Authority
10 Civic Center Plaza, 2nd Floor
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