

## Aerial Photograph Anomalies

Marine Corps Air Station, El Toro, California

Southwest Division, Naval Facilities Engineering Command

BRAC Operations Office — April 5, 1999

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# **Technical Memorandum**

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# Technical Memorandum

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Aerial Photograph Anomalies  
Marine Corps Air Station, El Toro, California

5 April 1999

*Prepared by*  
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Date: 5 April 1999

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Subj: Aerial Photograph Anomalies, Marine Corps Air Station, El Toro

Transmitted as the enclosure is the technical memorandum summarizing the results of previously completed evaluations of historical aerial photographs with recommendations for the future management of selected anomaly sites.

Please do not hesitate to call Andy Piszkin at (619) 532-4159 if you have questions pertaining to this transmittal.

CF:

Mr. Joseph Joyce (MCAS El Toro Closure BLTL)  
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## 1. Introduction

This technical memorandum presents summary data from the evaluations of historical aerial photographs and recommendations for the future management of historical aerial photograph anomaly sites at the Marine Corps Air Station, El Toro. Historical aerial photographs were evaluated by the United States Environmental Protection Agency (EPA), Science Applications International Corporation (SAIC), and Department of the Navy, Southwest Division, Naval Facilities Engineering Command (DoN).

The Marine Corps Air Station, El Toro, also known as the Station, comprises approximately 4,700 acres and is located in eastern Orange County approximately 45 miles southeast of Los Angeles, California. The Station is preparing for closure in July 1999 in accordance with the Base Closure and Realignment Act of 1993 (BRAC III).

The evaluations of historical aerial photographs by EPA and SAIC were intended to identify areas of *potential* environmental concern that had not been previously recognized. Features, such as wet soil, stains, liquids, drums, open storage areas, vertical and horizontal tanks, disturbed ground, ground scars, debris, trenches, excavations, impoundments, refuse, and mounded material that were identified by EPA and SAIC are described in more detail in the *Site Analysis Report, El Toro MCAS, Orange County, California* and the *Final Report, Aerial Photograph Assessment, MCAS El Toro*, respectively.

This technical memorandum includes maps that show the locations of more than seven hundred (700) anomaly sites relative to the boundaries of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or Installation Restoration Program (IRP) Sites, tabular summaries of the anomaly sites, and recommendations for the future management of the anomaly sites.

DoN acquired and reviewed historical Station maps, the results of investigations associated with the IRP and environmental compliance program sites, and confirmed previous recommendations or developed refined recommendations based upon the most recently collected data.

Anomaly locations are shown on Figure 1. Comprehensive lists and detailed maps showing the anomalies identified during the EPA and SAIC studies are presented in Exhibit 1, and extracts from the source documents (the EPA and SAIC studies) are presented in Exhibit 2.

## **2. Historical Aerial Photograph Anomalies**

### **2.1 United States Environmental Protection Agency Evaluation**

The United States Environmental Protection Agency (EPA) conducted an evaluation of historical photographs from 1952 through 1991 and the results of the evaluation were published in the *Site Analysis Report, El Toro MCAS, Orange County, California* (EPA, 1991). EPA identified more than three hundred (300) anomaly sites that are identified in the Exhibits and shown on Figure 1.

### **2.2 Science Applications International Corporation Evaluation**

Science Applications International Corporation (SAIC) conducted a similar evaluation of historical photographs from 1945 through 1992 and the results of the evaluation were published in the *Final Report, Aerial Photograph Assessment, MCAS El Toro* (SAIC, 1993). SAIC identified more than four hundred (400) anomaly sites that are identified in the Exhibits and shown on Figure 1.

### **2.3 Department of the Navy (DoN) Evaluation**

DoN presented a preliminary evaluation of aerial photograph anomalies in the appendices of the Final Environmental Baseline Survey Report (Jacobs Engineering Group, April 1995). The preliminary evaluation, which addressed SAIC anomalies, was published as a Memorandum to File by CH2M Hill dated July 28, 1994 and the Memorandum included the recommendation that fifty-three (53) of the SAIC anomalies be further evaluated because the anomalies were located in areas where minimal information had been collected during previous environmental program investigations. The Memorandum did not address anomalies identified in the *Site Analysis Report, El Toro MCAS, Orange County, California* (EPA, 1991). The fifty-three (53) anomalies identified for further evaluation were presented in the Base Realignment and Closure Cleanup Plan (BCP) dated 1995, subsequent BCP updates, and the BCP update of 1999.

DoN reviewed the findings of the EPA and SAIC studies, plotted the estimated anomaly locations on the base map of MCAS El Toro, and evaluated the proximity of CERCLA or IRP Sites, Underground Storage Tank (UST) Sites, Oil/Water Separator (OWS) Sites, Above-Ground Storage Tank (AST) Sites, and Resource Conservation and Recovery Act Facility Assessment (RFA) Sites. The anomalies were identified by type of feature: trenches and/or excavations, open storage areas, stains, horizontal or vertical tanks or unidentified objects, impoundments, and mounded materials or debris. Technical services for aerial photograph anomaly data tabulation and evaluation and drafting were provided under Navy Contracts N68711-92-D-4670, Contract Task Order 75 and N68711-93-D-1459, Delivery Order 70.

Many of the anomaly sites are located within the boundaries of previously investigated IRP, UST, OWS, AST, or RFA Sites that achieved no further action status following the publication of the EPA and SAIC aerial photograph anomaly reports. The historical data gathered from Station maps and plans and the results of the IRP, RFA, and various tank program investigations were considered during the development of recommendations for the management of the anomaly sites. Areas of military construction projects were considered in the evaluation of anomalies that identified features such as disturbed ground, graded areas, filled areas, or excavations. Seasonal factors were also considered in the evaluation of anomalies described as liquids, stains, and wet soils.

Anomalies that were identified as potential stains on only one photograph were considered a low priority for future investigation. Stains may have been caused by surface runoff or ponding of surface runoff during storm events. Additionally, stains visible on aerial photographs may have represented one-time releases or spills that were cleaned up prior to the next aerial photographic survey. EPA has indicated that a one-time spill which has been adequately cleaned up would not constitute a Solid Waste Management Unit (Source: text from the *Proposed Rule for Corrective Action for Releases from Solid Waste Management Units at Hazardous Waste Management Facilities* (Federal Register: May 1, 1996 (Volume 61, Number 85))).

The highest priorities for further investigation were assigned to anomalies that were identified as trenches, excavations, impoundments, or mounded materials and refuse.

### **3. Recommendations**

No further action status is recommended for all of the anomaly sites identified by EPA and SAIC except the five (5) Aerial Photograph Anomaly Areas that are identified in Table 1. Each Anomaly Area consists of one or more anomaly site, and there are nineteen (19) anomaly sites proposed for further evaluation. Anomalies were placed into Anomaly Area groups based upon geographic location and anomaly type.

Anomaly Areas 1, 2, 4, and 5 are proposed for further investigation as potential petroleum release sites. Soil sampling of shallow soils for petroleum hydrocarbons and volatile organic compounds is proposed. The results of the field investigations are planned to be submitted to the Regional Water Quality Control Board as site assessment reports.

Anomaly Area 3, a possible refuse area, is proposed for future investigation as a Resource Conservation and Recovery Act Facility Assessment (RFA) site with oversight by the BRAC Cleanup Team. DoN proposes to conduct a *preliminary* investigation of this Area as an RFA site by trenching and conducting visual inspections and to submit the results of the preliminary investigation to the BRAC Cleanup Team members.

DoN proposes to modify the BRAC Cleanup Plan Update for the Year 2000 to reflect the recommendations presented in this Technical Memorandum. The BRAC Cleanup Plan update of 1999 identifies fifty-three (53) anomaly sites, designated APHO 1 through APHO 53, for further investigation. Four of these anomaly sites, APHO 6 (SAIC 39), APHO 23 (173), APHO 31 (215), and APHO 43 (287), are included the Aerial Photograph Anomaly Areas proposed for further evaluation by DoN, and DoN proposes no further action for the other forty-nine (49) anomaly sites based upon the evaluation summarized within this Technical Memorandum. Fifteen (15) additional anomaly sites are proposed to be added to the next BCP Update as shown in Table 2.

### ***Aerial Photograph Anomaly Areas Proposed for Further Investigation or Evaluation.***

#### **Aerial Photograph Anomaly Area 1**

Area 1 is located in the western section of the Station, southwest of IRP Site 14 – the Battery Acid Disposal Site and near the former Tank Farm 1. Area 1 is represented by a circular scar on the historical aerial photographs, and it is possible that oil was applied to the unpaved area for dust control purposes. DoN proposes to collect and analyze soil samples in accordance with the existing procedures for the petroleum corrective action program. Area 1 includes the following anomalies:

##### **SAIC 144**

This anomaly was identified on a photograph dated 1964 and is described as a probable trench and excavation southwest of the Battery Acid Disposal Area (IRP Site 14). The SAIC description also indicates that this anomaly may represent an access road with turn-around loop.

##### **SAIC 169**

This anomaly was identified on a photograph dated 1967 and is described as an excavation located southwest of the Battery Acid Disposal Area (IRP Site 14).

### **EPA 7**

This anomaly was identified on a photograph dated 1952 and the annotation on the photograph identifies the anomaly as a probable pit.

This anomaly was also identified on a photograph dated 1965 and the annotation on the photograph identifies the anomaly as a possible stain.

### **EPA 36**

This anomaly was identified on a photograph dated 1980 and the annotation on the photograph identifies the anomaly as possible light-toned material.

## **Aerial Photograph Anomaly Area 2**

Area 2 is located in the northwest section of the Station near Tank Farm 3 and approximately 2,000 feet north of IRP Site 16-the Crash Crew Training Pit Number 2. Fuel for aircraft was stored in fuel bladder revetments at this area, and the potential contaminant of concern is fuel. DoN proposes to collect and analyze soil samples in accordance with the existing procedures for the petroleum corrective action program. Area 2 includes the following anomalies:

### **SAIC 173**

This anomaly was identified on a photograph dated 1967 and is described as probable fuel bladder revetments and possible stains. This anomaly is identified as APHO 23 in the BRAC Cleanup Plan.

### **EPA 21**

This anomaly was identified on a photograph dated 1970 and the annotation on the photograph identifies the anomaly as fuel bladder revetments. The fuel bladders are visible on the photograph.

## **Aerial Photograph Anomaly Area 3**

Area 3 is located in the northwest section of the Station near Pusan Way and west of the Wherry Housing Area. There are no IRP Sites located nearby. This area is considered a potential disposal site and is identified as MSC R1 – a possible refuse area – in the BRAC Cleanup Plan. DoN proposes to conduct a preliminary investigation to include trenching with visual inspections and to utilize sampling protocols developed for the RFA program. Area 3 includes the following anomalies:

### **SAIC 20**

This anomaly was identified on a photograph dated 1946 and is described as “three areas of apparent extraction” near Agua Chinon Wash.

#### **SAIC 64**

This anomaly was identified on a photograph dated 1952 and is described as a quarried area or area of extraction.

#### **SAIC 106**

This anomaly was identified on a photograph dated 1960 and is described as a quarry area or area of extraction.

#### **SAIC 156**

This anomaly was identified on a photograph dated 1967 and is described as areas of extraction near Agua Chinon Wash with possible refuse or liquid within the excavated area.

#### **SAIC 443**

This anomaly was identified on a photograph dated 1981 and is described as a former area of extraction near Agua Chinon Wash that has been revegetated.

#### **SAIC 536**

This anomaly was identified on a photograph dated 1988 and is described as a former extraction area near Agua Chinon Wash that has been filled.

#### **SAIC 564**

This anomaly was identified on a photograph dated 1992 and is described as a graded area.

### **Aerial Photograph Anomaly Area 4**

Area 4 is located in the southwest section of the Station adjacent to Building 306. Area 4 corresponds to the former locations of slurry beds associated with the former water treatment facility at Building 306 (historic construction drawing is presented as Exhibit 3). Area 4 is located within the boundary of IRP Site 24 - the Volatile Organic Compound (VOC) Source Area - and west of IRP Site 9 - the Crash Crew Training Pit Number 1. Potential contaminants of concern are petroleum hydrocarbons and volatile organic compounds. DoN proposes to collect and analyze soil samples in accordance with the existing procedures for the petroleum corrective action program. Area 4 includes the following anomaly:

#### **SAIC 39**

This anomaly was identified on a photograph dated 1946 and is described as two impoundments near Building 306, the former water treatment plant. It is estimated that the impoundments were taken out of service in the 1950's. This anomaly is identified as APHO 6 in the BRAC Cleanup Plan.

## **Aerial Photograph Anomaly Area 5**

Area 5 is located in the southeast section of the Station northwest of IRP Site 5 – the Perimeter Landfill. Area 5 includes part of the end of the east-west runway where munitions were formerly placed into aircraft and part of the area that was used for staging of materials and petroleum products during Desert Storm. The Desert Storm staging area is identified as MSC D1 in the BRAC Cleanup Plan. Potential contaminants of concern include fuels and other petroleum products. DoN proposes to collect and analyze soil samples in accordance with the existing procedures for the petroleum corrective action program. Area 5 includes the following anomalies:

### **SAIC 161**

This anomaly was identified on a photograph dated 1967 and is described as disturbed ground and probable filled trenches.

### **SAIC 215**

This anomaly was identified on a photograph dated 1971 and is described as mounded material, disturbed ground, and a probable trench. This anomaly is identified as APHO 31 in the BRAC Cleanup Plan (BCP) and the BCP includes the comment that hazardous materials were stored here during Desert Storm.

### **SAIC 287**

This anomaly was identified on a photograph dated 1974 and is described as an excavation approximately 1,600 feet west of Perimeter Road and Magazine Road intersection. This anomaly is identified as APHO 43 in the BRAC Cleanup Plan.

### **SAIC 314**

This anomaly was identified on a photograph dated 1975 and is described as disturbed ground approximately 1,000 feet northeast of Building 673.

### **SAIC 542**

This anomaly was identified on a photograph dated 1988 and is described as a light-colored pad (possibly concrete).

## **4. References and/or Sources of Information**

Bechtel National, Incorporated. 1999. Technical Information Package, Aerial Photograph Anomalies. [Contract N68711-92-D-4670, CTO 75]

Bechtel National, Incorporated. 1997. Draft Final Phase II Remedial Investigation Report, Operable Unit 2A-Site 24, Marine Corps Air Station, El Toro, California. [Navy Contract N68711-92-D-4670, Contract Task Order 73]

Bechtel National, Incorporated. 1996. Final Addendum to the RCRA Facility Assessment, Marine Corps Air Station, El Toro. [and associated plan(s)]

Bechtel National, Incorporated. 1995. Final Work Plan, Phase II Remedial Investigation/Feasibility Study, MCAS El Toro, California. [Navy Contract N68711-92-D-4670, Contract Task Order 59]

Jacobs Engineering Group (JEG). 1995. Marine Corps Air Station, El Toro: Installation Restoration Program, Final Environmental Baseline Survey Report. April.

Jacobs Engineering Group (JEG). 1994. Marine Corps Air Station, El Toro: Installation Restoration Program, Phase I Remedial Investigation Technical Memorandum. [Contract N68711-89-D-9296, Contract Task Order 145]

Jacobs Engineering Group (JEG). 1994. Marine Corps Air Station, El Toro, El Toro, California, Installation Restoration Program, Remedial Investigation/Feasibility Study, Final Soil Gas Survey, Technical Memorandum, Sites 24 and 25. October. [Navy Contract N68711-89-D-9296, Contract Task Order 145]

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]

OHM Remediation Services Corporation (OHM). 1997. Draft Supplemental Work Plan, Closure of Various Temporary Accumulation Areas and RCRA Facility Assessment Sites, Marine Corps Air Station, El Toro, Santa Ana, California. [Contract N68711-93-D-1459, Delivery Order #70]

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 Report, El Toro MCAS, Orange County, California.

United States Environmental Protection Agency. 1996. Proposed Rule: Corrective Action for Releases from Solid Waste Management Units at Hazardous Waste

Management Facilities. May. [Federal Register: May 1, 1996 (Volume 61, Number 85): Advance Notice of Proposed Rulemaking]

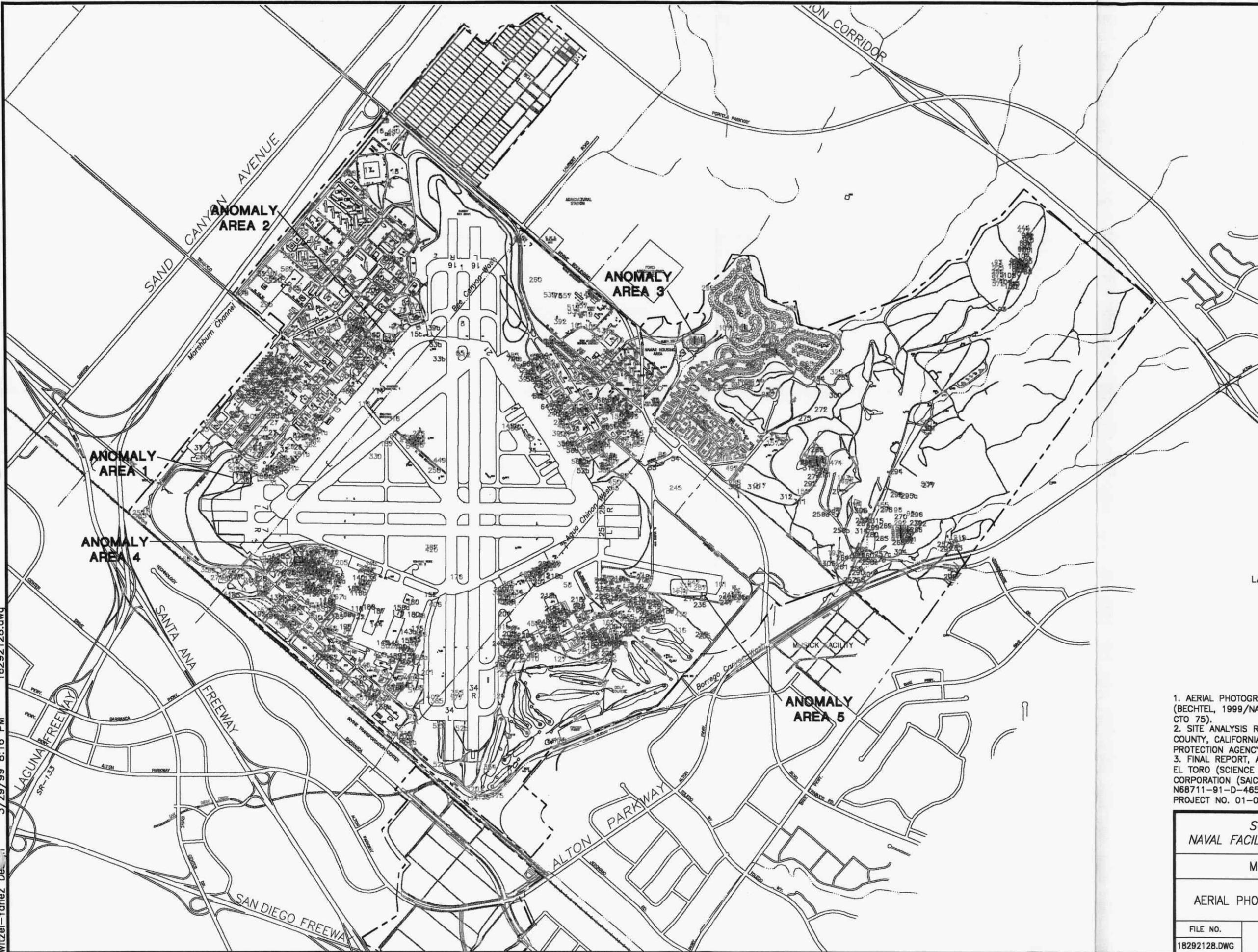
United States Marine Corps Air Station, El Toro. 1999. Base Realignment and Closure (BRAC) Cleanup Plan.

United States Marine Corps Air Station, El Toro. 1997. Draft Final Record of Decision, Operable Units 2A and 3A, No Action Sites, Marine Corps Air Station, El Toro, California. September.

United States Marine Corps Air Station, El Toro. 1990 through 1999. Regulatory closure letters for various Underground Storage Tank Sites, Oil/Water Separator Sites, Above-Ground Storage Tank Sites, Resource Conservation and Recovery Act Facility Assessment Sites, and Former Installation Restoration Program (petroleum exclusion) Sites; Hazardous Waste and Hazardous Materials Management Plans.

United States Marine Corps Air Station, El Toro, Public Works Department. 1949. Area D-8 (48), New 4" Drain and Slurry Pit. May. [Construction Drawing Number W.O. 3758]

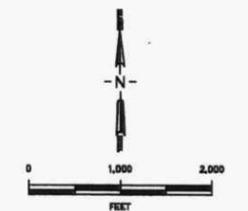
Witzel-Yanez Del. 3/29/99 8:16 PM 18292128.dwg



**LEGEND**

- SAIC ANOMALY SITE
- EPA ANOMALY SITE

LABEL



1. AERIAL PHOTOGRAPH ANOMALY INFORMATION PACKAGE (BECHTEL, 1999/NAVY CONTRACT N68711-92-D-4670, CTO 75).
2. SITE ANALYSIS REPORT, EL TORO MCAS, ORANGE COUNTY, CALIFORNIA (UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, 1991).
3. FINAL REPORT, AERIAL PHOTOGRAPH ASSESSMENT, MCAS EL TORO (SCIENCE APPLICATIONS INTERNATIONAL CORPORATION (SAIC), 1993/CONTRACT N68711-91-D-4658, DELIVERY ORDER 0002, SAIC PROJECT NO. 01-0892-0817).

SOUTHWEST DIVISION NAVAL FACILITIES ENGINEERING COMMAND		
MCAS EL TORO, CA		
AERIAL PHOTOGRAPH ANOMALY LOCATIONS		
FILE NO.	FIGURE 1	DATE
18292128.DWG		

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## Tables

**TABLE 1. Anomaly Areas Recommended for Additional Evaluation or Sampling**

<b>ANOMALY AREA NUMBER<sup>a</sup></b>	<b>ANOMALY NUMBERS<sup>b</sup></b> (date of associated photograph)	<b>LOCATION AND DESCRIPTION</b>	<b>STUDY AREA<sup>c</sup></b>	<b>SITE VISIT PERFORMED<sup>d</sup></b>	<b>DoN RECOMMENDATION<sup>e</sup></b>	<b>ESTIMATED DIMENSIONS<sup>f</sup></b>	<b>COMMENTS<sup>g</sup></b>
1	SAIC 144 (1964), SAIC 169 (1967), EPA 7 (1952, 1965), EPA 36 (1980)	A circular scar on the unpaved ground surface southwest of former Tank Farm 1.	A	Yes	Management of the site as a petroleum corrective action program site with soil sampling for petroleum hydrocarbons.	125 foot diameter turning circle (unpaved roadway)	This unpaved area may have been used to dispose of excess oil. No stains were observed during the site visit.
2	SAIC 173 (1967), EPA 21 (1970)	The former location of four fuel bladder revetments southeast of Tank Farm 3.	A	Yes	Management of the site as a petroleum corrective action program site with soil sampling for petroleum hydrocarbons.	130 by 40 feet	Fuel bladder revetments (FBR) were located in an area adjacent to and east of the vehicle storage yard. The area is presently paved with asphalt. The FBR were present at this location from at least 1962 through 1970. No stained areas were observed during the site visit.
3	SAIC 20 (1946), SAIC 64 (1952), SAIC 106 (1960), SAIC 156 (1967), SAIC 443 (1981), SAIC 536 (1988), SAIC 564 (1992)	The area between Pusan Way and Agua Chinon Wash, East of Bldg. 722.	B	Yes	Management of the site as an RFA site with trenching and visual inspections.	1000 by 300 feet	Refuse was noted in anomaly SAIC 156. Construction debris is visible at scattered locations throughout the site. Station personnel have indicated this was a construction debris disposal area.
4	SAIC 39 (1946)	The area west of Bldg. 306.	D	Yes	Management of the site as a petroleum corrective action program site with soil sampling for petroleum hydrocarbons.	60 by 60 feet	This area is listed as "slurry beds" on historical plans up to 1951. The slurry beds were used as part of the potable water treatment system.
5	SAIC 161 (1967), SAIC 215 (1971), SAIC 287 (1974), SAIC 314 (1975), SAIC 542 (1988)	The area located approximately 1600 feet west of the intersection of Perimeter Road and Magazine Road (LOX FAX facility is inside the area) and adjacent to MSC D1-the Desert Storm Staging Area.	E	Yes	Management of the site as a petroleum corrective action program site with soil sampling for petroleum hydrocarbons.	450 by 250 feet.	Disturbed ground, grading, and trenching were observed in this area. The EBS indicates that hazardous materials from Desert Storm activities were staged in this area. This area was reportedly used as a bivouac area for Boy Scout Jamborees.

**Notes:**

- <sup>a</sup> = This column lists areas recommended for potential sampling or additional evaluation. Each area consists of one or more anomalies.
- <sup>b</sup> = This column identifies the anomalies contained in the area.
- <sup>c</sup> = References the study area (A through F) of MCAS El Toro that the anomaly is located. The designations are derived from the USEPA Site Analysis Report. These study areas are illustrated on Figure 1.
- <sup>d</sup> = This column indicates whether a site reconnaissance has been performed for this the area.
- <sup>e</sup> = This column identifies the Navy recommendation for the area.
- <sup>f</sup> = Dimensions include areas containing all anomalies obtained from the aerial photographs in the U.S.EPA and SAIC reports. The dimensions are rough estimates due to the small scale of photographs and absence of photographs in some cases.
- <sup>g</sup> = Comments include information on anomalies obtained from U.S.EPA and SAIC reports as well as information obtained from historical documents.

TABLE 2. Proposed List of Aerial Photograph Anomalies for BCP Table 3-2, Year 2000 Update

Database Tracking	Anomaly Identification Number	Year of Photograph	Anomaly Area Number *	1998 Reuse Parcel	Point of Reference	Description/Explanation for Proposed Management Strategy **	NFA
APHO 1	SAIC 7	1946		32	Tank Farm 3	There are stains adjacent to the aircraft parking apron at N 6th Place and K Street and at N 4th Place and K Street. No further action recommended due to the proximity of the site to Tank Farm 3 where inactive tanks have been removed, soil and ground water sampling activities have been completed, and regulatory closure has been achieved.	X
APHO 2	SAIC 14	1946		42	B 136	An open storage (OS) area on the northerly side of Building 136, between N 9th Street and North Marine Way, and between N Street and O Street, may contain drums (D). Building 136 has most recently been used for storage by the Marine Air Group (MAG) -11 and historical property records indicate that the building was originally constructed in 1943 as a storage facility. Historical records do not indicate that hazardous wastes were managed at this building. No further action recommended based upon review of historical records.	X
APHO 3	SAIC 21	1946		43	B 120	An open storage (OS) area on the northwest side of Building 120, near N 8th Street and O Street, contains possible drums (D). Historical property records indicate that Building 120 was constructed in 1943 as an Aviation Arms Shop and was most recently used for aircraft maintenance/storage activities. Historical records do not indicate that hazardous wastes were managed at this building. No further action recommended based upon review of historical records.	X
APHO 4	SAIC 22	1946		23	Tank Farm 4	Probable soil stains (ST) occur in the southwestern portion of Tank Farm 4, near N 8th Street and O Street. Tanks were taken out of service and removed, soil and ground water sampling activities were conducted, and regulatory closure was achieved for all of the eleven tanks at Tank Farm 4. The probable soil stains identified in the 1946 photograph were probably excavated and removed during tank removal activities, and no further action is recommended based upon the completion of the tank removal project.	X
APHO 5	SAIC 25	1946		32	B 50	An open storage (OS) area, perhaps related to construction activities, between F and G Streets and S 1st and S 3rd Streets. If construction-related, the site might have contained a variety of paints, solvents, and other potential contaminants. In approximately 1945, much of the officers' housing area in the western section of the Station was constructed. Historical records do not indicate that hazardous wastes were managed in this area. No further action recommended based upon review of historical records.	X

TABLE 2. Proposed List of Aerial Photograph Anomalies for BCP Table 3-2, Year 2000 Update

Database Tracking	Anomaly Identification Number	Year of Photograph	Anomaly Area Number *	1998 Reuse Parcel	Point of Reference	Description/Explanation for Proposed Management Strategy **	NFA
APHO 6	SAIC 39	1946	Anomaly Area 4	29	B 306	<i>Two impoundments (IM) can be observed on the southwest side of Building 306, near S 11th Street and L Street. Historical station maps from the 1940's show a water treatment facility at Building 306 with adjacent slurry beds (impoundments). Further investigation is proposed.</i>	
APHO 7	SAIC 46	1946		29	B 1389	<b>There is wet soil (WS) or stains (ST) in the area now occupied by the southwest corner of Building 1389 and in the open storage (OS) area about 200 feet northwest of Building 1389.</b> This comment may actually refer to the former Building 1589 in the vicinity of IRP Site 11 (and southwest of Building 369) which includes a small drainage ditch (Unit 2). No further action is proposed based upon the sampling that has been conducted at IRP Site 11. Additionally, the anomaly site is located within IRP Site 24 and soil gas surveying was conducted near the site and this data was evaluated for the Remedial Investigation of IRP Site 24.	X
APHO 8	SAIC 52	1946		7	Runways 34-L & 34-R	<b>In the area north of the railroad tracks, between Agua Chinon Wash and Borrego Canyon Wash, there are four open storage (OS) areas. All appear to contain refuse (R) or materials in storage. The westerly area appears to have been excavated (EX) and the spoil (FA) placed toward the southeast. The spoil area (FA) and the excavated (EX) area appear to be covered with refuse (R) or other materials. The southerly open storage (OS) area is an aircraft salvage area with several fuselage and wing sections visible. Smaller open storage (OS) areas occur near the four major sites.</b> This area is located beneath Runways 34R and 34L and/or the approaches to the runways and the southwestern portion of the golf course. The anomaly site is adjacent to Perimeter Road, and no refuse, aircraft parts, or other materials are visible. It is likely that all surface debris was removed as the runway approaches were modified and as the golf course area expanded toward the runways. No further action is proposed due to the absence of additional evidence to support the observation that refuse may have been stored at this area.	X

TABLE 2. Proposed List of Aerial Photograph Anomalies for BCP Table 3-2, Year 2000 Update

Database Tracking	Anomaly Identification Number	Year of Photograph	Anomaly Area Number *	1998 Reuse Parcel	Point of Reference	Description/Explanation for Proposed Management Strategy **	NFA
APHO 9	SAIC 53	1946		23	Agua Chinon Wash	Liquid (LQ) can be seen flowing from a former (?) hangar near the northeast end of the aircraft parking apron on the northerly side of the present ACER site (Site 19). The liquid (LQ) discharges into a drainage ditch from a small building behind the former hangar. The anomaly site corresponds to the location of Agua Chinon Wash near Site 19. The drainages, including Agua Chinon Wash, have been investigated during the Remedial Investigation of Site 25 - the Major Drainages. No further action recommended based upon the sampling conducted at Site 25 and at Site 19, Units 1, 2, 3, and 4 in the vicinity of Agua Chinon Wash.	X
APHO 10	SAIC 79	1955		23	B 286	There is an open storage (OS) area on the westerly side of Building 286, near N 7th Street and West Marine Way. Historical property records do not indicate that hazardous wastes were managed at Building 286, and consequently, no further action is proposed.	X
APHO 11	SAIC 81	1955		29	B 307	A trench (TR) and disturbed ground (DG) can be seen about 230 feet northwesterly of Building 307, near S 14th Street and K Street. The purpose is unknown. The location of the disturbed area corresponds approximately with the location of one of the slurry beds associated with the former water treatment facility. The slurry beds, including SAIC 81, are proposed for further investigation in Anomaly Area 4 (SAIC 39).	
APHO 12	SAIC 92	1958		8	DRMO Yard 2	There is wet soil (WS) in the open field between East Marine Way and Z Street. This area is near or at Solid Waste Management Unit (SWMU) 46 which has been investigated under the Resource Conservation and Recovery Act Facility Assessment (RFA). No further action recommended.	X
APHO 13	SAIC 102	1960		40	B 415	Possible drums (D) are located on the northeast side of Building 415, located easterly of the rodeo area. Historical records do not indicate that hazardous wastes were managed or stored at Building 415, most recently used for storage of materials by the Marine Air Group (MAG) -11, and consequently, no further action is recommended.	X
APHO 14	SAIC 105	1960		40	Horse Stables	Stains (ST) or wet soil (WS) can be seen in the cleared areas on the northeast and southeast sides of the Rodeo Area complex. Historical records do not indicate that hazardous wastes were managed in this area. No further action recommended based upon the review of historical records.	X

TABLE 2. Proposed List of Aerial Photograph Anomalies for BCP Table 3-2, Year 2000 Update

Database Tracking	Anomaly Identification Number	Year of Photograph	Anomaly Area Number *	1998 Reuse Parcel	Point of Reference	Description/Explanation for Proposed Management Strategy **	NFA
APHO 15	SAIC 113	1960		32	Tank Farm 3	Stains (ST) can be seen at the edge of the aircraft parking apron, adjacent to Building 99, near N 4th Place and K Street, near N 1st Place and K Street, and near the southerly end of Building 624, at J Street and N 6th Place. Building 624 is the air terminal and squadron headquarters facility, and historical records do not indicate that hazardous wastes were managed at this facility. No further action is recommended based upon the review of historical records.	X
APHO 16	SAIC 115	1960		32	Tank Farm 3	There is probable wet soil (WS) and liquid (LQ) flowing from the open storage (OS) area on the northeast side of N 4th Place. The liquid discharges into the ditch noted for SAIC 114. Much of the area northeast of N 4th Place near the airfield was excavated during the removal of tanks at Tank Farm 3, and it is possible that the soils identified in this anomaly were removed during the tank removal activities. Surface runoff in this area discharges to Bee Canyon Wash. Sediment in the major drainage channels, including Bee Canyon Wash, has been investigated during the Remedial Investigation of Site 25 - the Major Drainages, and a no further action Record of Decision has been completed for Site 25. No further action is proposed at this anomaly based upon the previously completed projects near this site.	X
APHO 17	SAIC 139	1964		29	B 357	Stains (ST) can be seen in the vicinity of Building 325, near S 14th Street and R Street. This site is located within Site 24 - the Volatile Organic Compound (VOC) Source Area - and soil, soil gas, and ground water sampling was conducted in the vicinity of this site during the Remedial Investigation of Site 24. No further action is proposed because remediation of Site 24 is addressed in the Interim Record of Decision for IRP Site 24 Vadose Zone.	X
APHO 18	SAIC 140	1964		29	B 324	Stains (ST) can be seen on the westerly side of Building 324, near S 14th Street and R Street. This site is located within Site 24 - the VOC Source Area, and soil, soil gas, and ground water sampling was conducted in the vicinity of this site during the Remedial Investigation of Site 24. No further action recommended because remediation of Site 24 is addressed in the Interim Record of Decision for IRP Site 24 Vadose Zone. [Additionally, soil sampling was conducted near OWS units 324-1 and 324-2 on the south and west sides of Building 324, respectively, and no significant releases were identified at the OWS sites.]	X

TABLE 2. Proposed List of Aerial Photograph Anomalies for BCP Table 3-2, Year 2000 Update

Database Tracking	Anomaly Identification Number	Year of Photograph	Anomaly Area Number *	1998 Reuse Parcel	Point of Reference	Description/Explanation for Proposed Management Strategy **	NFA
APHO 19	SAIC 141	1964		29	B 309	There are stains (ST) in the general area of Buildings 309, 311, and 312, between South Marine Way and S 14th Street and O Street. There is probable liquid (LQ) flow toward the northeast from near Building 312. This site is located within Site 24 - the VOC Source Area - and soil, soil gas, and ground water sampling was conducted in the vicinity of this site during the Remedial Investigation of Site 24. No further action is proposed because remediation of Site 24 is addressed in the Interim Record of Decision for IRP Site 24 Vadose Zone. [Additionally, Building 312 is under investigation as Silver Recovery Unit (SRU) 3.]	X
APHO 20	SAIC 164	1967		7	DRMO Yard 3	There is a possible excavation (EX) containing liquid (LQ) about 500 feet southeast of N 3rd Street and North Marine Way. The DRMO Yard 3 vicinity was investigated during the RFA as SWMU 264, and no further action was proposed. The area northeast of DRMO Yard 3 is under investigation as MSC D1 - the Desert Storm Staging Area. Due to the previous and ongoing investigations in this area, no further action is recommended for SAIC 164.	X
APHO 21	SAIC 165	1967		7	DRMO Yard 3	There is an open storage (OS) area with possible drums near the ninety-degree curve in N 3rd Street, near North Marine Way. The DRMO Yard 3 vicinity was investigated during the RFA as SWMU 264, and no further action was proposed. The area northeast of Yard is under investigation as MSC D1 - the Desert Storm Staging Area. Due to the previous and ongoing investigations in this area, no further action is proposed for SAIC 165.	X
APHO 22	SAIC 172	1967		32	B 9	There are stains (ST) and possible drums (D) in an open area near West Marine Way and N 4th Place. No further action recommended due to the proximity of the site to Tank Farm 3 where inactive tanks have been removed, soil and ground water sampling activities have been completed, and regulatory closure has been achieved. [Additionally, surface runoff from this area discharges to Bee Canyon Wash that was investigated during the Remedial Investigation of Site 25 - the Major Drainages.]	X
APHO 23	SAIC 173	1967	Anomaly Area 2	32	B 14	There are probable fuel bladder revetments (FBR) and possible stains (ST) in an excavated area about 150 and 300 feet northeast of Building 14, at West Marine and N 4th Place. Further investigation is proposed.	

TABLE 2. Proposed List of Aerial Photograph Anomalies for BCP Table 3-2, Year 2000 Update

Database Tracking	Anomaly Identification Number	Year of Photograph	Anomaly Area Number *	1998 Reuse Parcel	Point of Reference	Description/Explanation for Proposed Management Strategy **	NFA
APHO 24	SAIC 176	1968		23	Runways 34-L & 34-R	An area of extraction (EXT) is located between Runways 34L and 34R, about 500 feet south of Runway 25L. The extraction is approximately 400 feet by 70 feet in dimension. No further action is proposed based upon the results of the Final Environmental Baseline Survey (JEG, 1995), the Remedial Investigation of the adjacent Sites 7 and 24 (soil, soil gas, and ground water sampling), and the RFA record search and sampling activities.	X
APHO 25	SAIC 188	1968		40	Agua Chinon Wash	Mounded material (MM), probably soil, and possible refuse (R) are noted about 100 feet west of North Marine Way, north of Agua Chinon Canyon Wash. This site appears to be located within the boundaries of Site 3 - the Original Landfill. The Remedial Investigation of Site 3 has been completed. No further action recommended for the anomaly site.	X
APHO 26	SAIC 189	1968		23	Crash Crew Pit #2	There is an excavation (EX) with possible liquids (LQ) located at the intersection of the taxiways, about 1200 feet north of Runway 25R and 1100 feet west of Runway 34L. The purpose of the excavation is unknown. This site corresponds approximately with Site 16 - Crash Crew Pit #2 - which is being managed under the Installation Restoration Program and the former burn pit, MSC B2, which is being managed under the petroleum corrective action program with oversight by the Regional Water Quality Control Board. No further action recommended for the anomaly site.	X
APHO 27	SAIC 190	1968		32	Tank Farm 3	There are probable stains (ST) or wet soil (WS) northeast of Building 14, at the south end of the fuel bladder revetment, adjacent to the aircraft parking apron. The investigation of the fuel bladder revetment area (Anomaly Area 2) will include this general area. No further action recommended for this anomaly site.	X
APHO 28	SAIC 199	1971		42	B 138	Liquid (LQ) is flowing easterly from Building 138, near N 9th Street and N Street. This feature was identified on one photograph. Building 138 has been used for electronics maintenance activities. An inactive underground tank has been removed from the site, and regulatory closure of the tank site has been achieved. Historical records do not indicate that hazardous wastes were managed at this building. No further action recommended.	X

TABLE 2. Proposed List of Aerial Photograph Anomalies for BCP Table 3-2, Year 2000 Update

Database Tracking	Anomaly Identification Number	Year of Photograph	Anomaly Area Number *	1998 Reuse Parcel	Point of Reference	Description/Explanation for Proposed Management Strategy **	NFA
APHO 29	SAIC 206	1971		32	B 10	Wet soil (WS) and northwesterly flowing liquid (LQ) can be seen about 200 feet south of Building 11, near the southeast end of S 5th Street. This feature was identified on one photograph. The former aviation gasoline dispensing facilities were located in the general vicinity of this anomaly. Inactive underground tanks (USTs 240A, 240D, and 797) have been removed from these former fueling facilities and confirmation sampling activities have been completed. No further action is proposed.	X
APHO 30	SAIC 208	1971		35	Bordier's Nursery	There is an unidentified object (UO) about 1900 feet north of Runway 34R that may be a small building or vertical tank. The anomaly is located within the commercial nursery area, and the anomaly may represent a small temporary structure, such as storage shed or portable tank. No further action recommended.	X
APHO 31	SAIC 215	1971	Anomaly Area 5	7	Golf Course Hole 5	There is disturbed ground (DG) about 250 feet by 350 feet in area, dark-toned mounded material, and a probable trench (TR), all about 1600 feet westerly of West Marine Road and Magazine Road. There is also a possible light-toned unidentified object (UO). Further investigation as Anomaly Area 5 is proposed.	
APHO 32	SAIC 227	1971		32	Tank Farm 3	There are stains+G48 (ST) at the edge of the aircraft parking apron at N 4th Place. This site is located in close proximity to the fuel bladder revetment site (Anomaly Area 2) which is proposed for further investigation. No further action recommended.	X
APHO 33	SAIC 233	1973		32	B 256	There is a probable open storage (OS) area on the southerly side of Building 256, near El Toro Boulevard and West Marine Way. Building 256 was most recently used as an aviation physical training facility and medical clinic. Historical records do not indicate that hazardous wastes were managed at this facility. No further action is recommended based upon the review of historical records.	X
APHO 34	SAIC 235	1973		32	Tank Farm 3	A stained area (ST) and two (2) unidentified objects (UO), possibly vertical tanks (VT) can be seen on the north side of Building 15, near West Marine Way and N 4th Place. This anomaly is located adjacent to Tank Farm 3 in an area formerly used for storage of military equipment and vehicles. No above-ground fuel storage tanks are located in this vicinity. No further action recommended.	X
APHO 35	SAIC 238	1973		42	B 137	There is an open storage (OS) area on the north and east sides of Building 137, near N 9th Street and N Street. Building 137 was most recently used for academic instruction and storage. Historical records do not indicate that hazardous wastes were managed at this building. No further action recommended based upon the review of historical records.	X

TABLE 2. Proposed List of Aerial Photograph Anomalies for BCP Table 3-2, Year 2000 Update

Database Tracking	Anomaly Identification Number	Year of Photograph	Anomaly Area Number *	1998 Reuse Parcel	Point of Reference	Description/Explanation for Proposed Management Strategy **	NFA
APHO 36	SAIC 239	1973		42	B 291	Probable wet soil (WS) can be seen on the easterly side of Building 291, between N 10th Street, North Marine Way, and P Street. Building 291 was most recently used for storage. Historical records do not indicate that hazardous wastes were managed at this building. No further action recommended based upon the review of historical records.	X
APHO 37	SAIC 241	1973		43	B 115	There is a possible stain (ST) on the northerly side of Building 115, near N 8th Street and Q Street. Building 115 was most recently used for maintenance and/or storage of equipment. Inactive underground tanks were removed from the northwest and southeast ends of the building, and regulatory closure has been achieved for the tank sites. Historical records do not indicate that hazardous wastes were managed at this building. No further action recommended based upon the review of historical records.	X
APHO 38	SAIC 252	1973		7	B 1789	There is a probable excavation (EX) adjacent to Building 1789, northeast of the intersection of El Toro Boulevard, N 2nd Street, and East Marine Way. Historical records do not indicate that wastes were disposed of at this site, and historical records do not indicate that hazardous wastes were managed or stored at this site. Building 1789 most recently was used for storage of hazardous/flammable materials according to the Station's hazardous materials management program. No further action recommended based upon the review of historical records.	X
APHO 39	SAIC 258	1973		23	B 381	There are wet soil (WS) or a stain (ST), and a possible horizontal tank (HT) adjacent to the intersection of Runways 7L and 16R. A structure 381 is shown on historical maps, however, the property records do not identify a Building 381. There are no underground or above-ground tanks at structure 381 according to the BCP update of 1999. Historical records do not indicate that hazardous wastes were managed or stored at this site. No further action recommended based upon the review of historical records.	X
APHO 40	SAIC 271	1974		32	B 287	There are probable drums (D) on the southwest side of Building 287, near N 7th Street and J Street. The anomaly is located near Building 624, the air terminal facility. Historical records do not indicate that hazardous wastes were managed or stored at this facility. No further action recommended based upon the review of historical records.	X
APHO 41	SAIC 272	1974		32	B 624	Stains (ST) or wet soil (WS) can be seen on the southwest side of Building 624, near N 6th Street and J Street. The pattern suggests probable liquid flow from the south corner of the building. Building 624 is the air terminal and squadron headquarters. Historical records do not indicate that hazardous wastes were managed or stored at this building. No further action recommended based upon the review of historical records.	X

TABLE 2. Proposed List of Aerial Photograph Anomalies for BCP Table 3-2, Year 2000 Update

Database Tracking	Anomaly Identification Number	Year of Photograph	Anomaly Area Number *	1998 Reuse Parcel	Point of Reference	Description/Explanation for Proposed Management Strategy **	NFA
APHO 42	SAIC 281	1974		8	B 457	There is wet soil (WS) or a burned area about 100 feet east of Building 457, near S 4th Street and East Marine Way. Verification that the area was the site of a grass fire may be advisable. There were no Station records available indicating that a grass fire occurred here. It is possible, though, that such a fire caused the feature identified on the aerial photograph. Building 457 was most recently used as the enlisted mess hall facility. Historical records do not indicate that hazardous wastes were managed or stored at this building. No further action recommended based upon the review of historical records.	X
APHO 43	SAIC 287	1974	Anomaly Area 5	7	Golf Course Hole 5	There is an excavation (EX) approximately 1600 feet west of the Perimeter Road and Magazine Road intersection. Further investigation is proposed.	
APHO 44	SAIC 288	1974		1	Quarry Road	Disturbed ground (DG), mounded material (MM), and probable trench (TR) can be seen about 700 feet southeast of the Perimeter Road and Quarry Road intersection. Station records and maps do not identify this area as a former disposal site. No further action recommended based upon the review of historical records.	X
APHO 45	SAIC 289	1974		40	B 415	There are wet soil (WS) or a stain (ST), and possible liquid (LQ) flow to the southwest from the open storage area on the northeast side of Building 415, adjacent to the Rodeo Area. Drums (D) may also be present. Building 415 has most recently been used for storage of materials. Historical records do not indicate that hazardous wastes were managed or stored at this building. No further action recommended based upon the review of historical records.	X
APHO 46	SAIC 416	1979		7	Golf Course Hole 5	A large impoundment (IM) area and fill area (FA) are located about 1100 feet southwest of Perimeter Road and Magazine Road. The site is about 500 feet by 600 feet in area. The northwestern portion of the site appears to be a fill area (FA) with facilities under construction. The remainder of the site is occupied by excavations (EX) that form two (2) impoundments that are largely surrounded by berms. There are open trenches in the southwestern area of the site. The features identified in this photograph may be attributable to military construction projects during 1979 or planned future construction projects. Historical records do not indicate that hazardous wastes were managed or stored at this area. No further action recommended based upon the review of historical records.	X

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Database Tracking	Anomaly Identification Number	Year of Photograph	Anomaly Area Number *	1998 Reuse Parcel	Point of Reference	Description/Explanation for Proposed Management Strategy **	NFA
APHO 47	SAIC 427	1980		40	Horse Stables	There is an open storage area (OS) with storage (?) buildings (B) and possible debris (DB). The types of stored materials are unknown. The features identified on this photograph may be attributable to routine activities at the stables. No further action recommended.	X
APHO 48	SAIC 431	1980		40	B 415	There is an open storage area (OS) with possible drums (D) adjacent to Building 415, immediately southeast of the Rodeo Area. Building 415 was most recently used for storage of materials. Historical records do not indicate that hazardous wastes were managed or stored at this building or in this area. No further action recommended based upon the review of historical records.	X
APHO 49	SAIC 449	1981		23	Runways 34-L & 34-R	A dark-toned area indicates probable wet soil (WS) or liquid (LQ) adjacent to the west side of Runway 16R, about 1100 feet north of Runway 25R. Surface runoff from this area discharges to Bee Canyon Wash that was investigated during the Remedial Investigation of Site 25 - the Major Drainages. No further action recommended.	X
APHO 50	SAIC 450	1981		40	Tank Farm 5	A trench (TR) or other linear area of disturbed ground can be seen about 200 feet south of the southeast corner of Tank Farm 5. The feature is revegetated. Agua Chinon Wash is located south of the southeast corner of Tank Farm 5, and the channel may have been identified as a trench on the photograph. No further action recommended based upon the previously completed Remedial Investigation of Site 25 - the Major Drainages - that included Agua Chinon Wash.	X
APHO 51	SAIC 452	1981		7	B 673	There is a stained (ST), rectangular-shaped area about 10 feet by 20 feet in dimension adjacent to the dirt road that extends southeasterly from the vicinity of Building 673, near N 3rd Street and North Marine Way. The stain is about 800 feet from the building. Building 673 was used for maintenance of ground support equipment, and the oil/water separator and temporary accumulation area within this compound have been taken out of service and are in the process of confirmation sampling and closure. Building 673-T3 was the former permitted hazardous waste storage facility; regulatory closure of this facility was achieved in 1996. The anomaly site is located in close proximity to MSC D1 - the Desert Storm Staging Area. No further recommended due to the proximity of the site to MSC D1.	X

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Database Tracking	Anomaly Identification Number	Year of Photograph	Anomaly Area Number *	1998 Reuse Parcel	Point of Reference	Description/Explanation for Proposed Management Strategy **	NFA
APHO 52	SAIC 482	1984		32	B 240	There is a stain (ST) about 100 feet northeast of Building 240, near S 5th Sreet, east of West Marine Way. The anomaly is located in the vicinity of the former aviation fueling facilities; underground storage tanks 240A, 240D, and 797 at the former fueling facilities were removed and confirmation sampling was conducted. No further action recommended for the anomaly site.	X
APHO 53	SAIC 502	1987		32	Perimeter Road & Magazine Road	Stains (ST) and possible drums (D) are noted between Buildings 13 and 14, near N 2nd Place and N 3rd Place. Historical records do not indicate that hazardous wastes were managed or stored at Buildings 13 and 14, Group Headquarters and Squadron Headquarters, respectively. No further action recommended based upon the review of historical records.	X
APHO 54	SAIC 144	1964	Anomaly Area 1	32	Tank Farm 1	There are a probable trench (TR) and excavation (EX) southwest of the Battery Acid Disposal Area (Site 14). Photographs from 1961 suggest that the may be an access road and turn-around loop. Further investigation is proposed.	
APHO 55	SAIC 169	1967	Anomaly Area 1	32	Tank Farm 1	An excavation (EX) is noted southwest of the Battery Acid Disposal Area (Site 14). Further investigation is proposed.	
APHO 56	EPA 7	1952	Anomaly Area 1	32	Tank Farm 1	Probable pit (1952 photograph). Possible stain (1965 photograph). Further investigation is proposed.	
APHO 57	EPA 36	1980	Anomaly Area 1	32	Tank Farm 1	Possible light-toned material. Further investigation proposed.	
APHO 58	EPA 21	1970	Anomaly Area 2	32	Tank Farm 3	Fuel bladder revetments. Further investigation proposed.	
APHO 59	SAIC 20	1946	Anomaly Area 3	46	MSC R1	There are three areas of apparent extraction (EXT) at the mouth of Agua Chinon Wash. These areas may have been used for waste disposal. Further investigation proposed.	
APHO 60	SAIC 64	1952	Anomaly Area 3	46	MSC R1	At the quarried (EXT) area, two (2) sites appear to be active and the other site recently active. The quarries may have been used for waste disposal. Further investigation proposed.	
APHO 61	SAIC 106	1960	Anomaly Area 3	46	MSC R1	The quarry (EXT) area north of residential area is a probable material source for the MCAS El Toro construction activities. Northerly of the extraction area the land has been cleared (GR), possibly for cultivation. Further investigation proposed.	

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Database Tracking	Anomaly Identification Number	Year of Photograph	Anomaly Area Number *	1998 Reuse Parcel	Point of Reference	Description/Explanation for Proposed Management Strategy **	NFA
APHO 62	SAIC 156	1967	Anomaly Area 3	46	MSC R1	<i>Extraction (EXT) can be observed near the mouth of Agua Chinon Wash. There appears to be dark-toned material, possibly refuse (R) or liquid (LQ), in the eastern portion of the excavation. Further investigation proposed.</i>	
APHO 63	SAIC 443	1981	Anomaly Area 3	46	MSC R1	<i>The area of extraction (EXT) at the mouth of Agua Chinon Wash is revegetated. Further investigation proposed.</i>	
APHO 64	SAIC 536	1988	Anomaly Area 3	46	MSC R1	<i>The former extraction (EXT) area at the mouth of Agua Chinon Wash has been filled (FA). Potential contaminants may have been buried at the site. Further investigation proposed.</i>	
APHO 65	SAIC 564	1992	Anomaly Area 3	46	MSC R1	<i>Grading (GR) appears to be complete in the south-central area of the MCAS E Toro residential area. Further investigation proposed.</i>	
APHO 66	SAIC 161	1967	Anomaly Area 5	7	MSC D1	<i>Disturbed ground (DG) and probable backfilled trenches (TR) are noted in the western corner of Perimeter Road and Magazine Road, about 1400 feet westerly of the intersection. The northeasterly-oriented, backfilled trench (TR) adjacent to Perimeter Road is the Perimeter Road Landfill (Site 5). Further investigation proposed.</i>	
APHO 67	SAIC 314	1975	Anomaly Area 5	7	MSC D1	<i>Disturbed ground (DG) can be seen about 1000 feet northeast of Building 673, near North/East Marine Way and N 3rd Street. The cause of the disturbance is unknown. The anomaly is located beneath the former munitions loading area (large concrete pad). Further investigation near the southwest edge of the pad is proposed.</i>	
APHO 68	SAIC 542	1988	Anomaly Area 5	7	MSC D1	<i>A light-colored pad, possibly concrete, was constructed west of Perimeter Road and Magazine Road. The purpose of the pad is unknown, but was probably graded (GR). Further investigation proposed near the south edge of the concrete pad (former munitions loading area).</i>	
<b>NOTES</b>							
* Anomaly Area Number proposed in the Technical Memorandum, Aerial Photograph Anomalies (SWDIV, April 1999)							
** Descriptions of anomalies were extracted and summarized from the source documents [(EPA, 1991) and (SAIC, 1993)].							
<b>Bold print indicates descriptions that were extracted or summarized from the source documents (EPA, 1991 and SAIC, 1993).</b>							
<i>Italic print indicates anomaly sites for which further investigation is proposed.</i>							

## **Exhibits**

- Exhibit 1  
Technical Information Package
- Exhibit 2  
Extracts from EPA and SAIC Reports
- Exhibit 3  
Historical Drawing of Slurry Beds near Building 306

SOUTHWESTNAVFACENCOM  
Code 5BME.LMH  
1220 Pacific Highway  
San Diego, CA 92132  
Telephone: (619) 532-4162/Fax: (619) 532-4160

File: aerial4

## Exhibit 1

### Technical Information Package

Bechtel National, Incorporated. 1999  
[Contract N68711-92-D-4670, CTO 75]

**TABLE 1  
U.S.EPA Aerial Photograph Anomaly List**

ANOMALY NUMBER	ANOMALY DESIGNATION	YEAR	STUDY AREA	CORRESPONDING ANOMALIES	NEARBY INVESTIGATIONS	ANOMALY CATEGORY	CON RECOMMENDATION	COMMENTS
EPA 1	LQ	1952	A		No	2	NFI	Liquid within a trench is near the north of the intersection of N. 4th Street and B Street. This anomaly is isolated and appears only in one aerial photograph
EPA 2	EXT	1952	A		No	1	NFI	An extraction area south of the intersection of N. 4th and Perimeter Road. This anomaly is isolated and appears only in one aerial photograph
EPA 3	MTMM	1952	A		No	6	NFI	Medium-toned mounded material near the intersection of N. 2nd and D Street. Only appears in this aerial photograph.
EPA 5	POSS ST	1952	A		SWMU 33	2	NFI	A possible stain northwest of Bldg 52 and northeast of Bldg 51. SWMU 33 is about 100 feet west of this anomaly.
EPA 6	ST	1952, 1965	A	SAIC 170 SAIC 462 EPA 13	IRP Site 13	N/A	NFI	Staining is evident throughout IRP Site 13.
EPA 7	PROB PIT	1952, 1965	A	SAIC 144, SAIC 169 EPA 36	Tank Farm 1	1	FI	This anomaly is at the turning circle adjacent to the former location of Tank Farm 1.
EPA 8	POSS ST	1965, 1970, 1980	A	SAIC 29, SAIC 206, SAIC 362 SAIC 482, EPA 26, EPA 32	Tank Farm 2	2	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 2.
EPA 9	POSS LQ	1965	A	SAIC 207 SAIC 174 SAIC 379	No	2	NFI	Possible liquid along N. 3rd Street and East of W. Marine Way. Stain or liquid anomalies were reported in six different years south and east of bldg 264.
EPA 10	POSS ST	1965, 1970, 1986, 1991	A		No	2	NFI	Soil staining or wet soil northeast of Bldg 13.
EPA 11	ST	1965	A		No	2	NFI	Soil staining near Compass Rose No. 1. This anomaly is along the aircraft parking apron, it is noted in photographs from two different years.
EPA 12	DG	1965	A		No	1	NFI	Disturbed ground near the intersection of El Toro and the aircraft parking apron. Only appears in this aerial photograph.
EPA 13	ST	1965, 1970, 1980, 1991	A	SAIC 170 SAIC 462 EPA 6	IRP Site 13	N/A	NFI	Heavily stained area at IRP Site 13
EPA 14	POSS PITS	1965	A	SAIC 32, SAIC 143 SAIC 275, SAIC 505 SAIC 526, EPA 7, EPA 36	Tank Farm 1	1	NFI	Possible pits adjacent to Tank Farm No. 1. This anomaly may have already been addressed by excavations or soil investigations related to Tank Farm 1, depending on their extent.
EPA 15	LQ	1970	A			2	NFI	Area of Liquid northeast of Bldg 14 and along the aircraft parking apron.
EPA 16	PROB LQ	1970	A		No	2	NFI	Area of probable liquid near the northwest corner of the MCAS. This liquid is likely from irrigation.
EPA 17	WS	1970	A		No	2	NFI	An area of wet soil at the baseball field. This liquid is likely from irrigation.
EPA 18	POSS WS	1970	A		No	2	NFI	Possible water stains in the Picnic Area in the northwest corner of the MCAS. This liquid is likely from irrigation.
EPA 19	ST, LQ, TR	1970, 1980, 1990	A		IRP Site 20	N/A	NFI	Stained soils and liquid in the area of IRP Site 20.
EPA 20	ST	1970	A		No	2	NFI	Stained soil near N. 8th Street and G Street and near N. 6th and G Streets. These anomalies only appear in one aerial photograph.
EPA 21	FBR	1970	A	SAIC 173	Tank Farm 3	4	FI	These fuel bladder revetments were along the aircraft parking apron near the former location of Tank Farm 3.
EPA 22	WS, PROB ST	1970, 1980	A		No	2	NFI	Wet Soil or Probable Stain northeast of Bldg. 794. This anomaly is part of a pattern of staining along the aircraft parking apron.
EPA 25	POSS ST.	1970, 1991	A	SAIC 172	No	2	NFI	A possible stain southwest of Bldg. 794. SAIC 172 was stated in the EBS to be in an unpaved equipment storage area.
EPA 26	ST	1970, 1991	A	SAIC 29, SAIC 206, SAIC 362 SAIC 482, EPA 8, EPA 32	Tank Farm 2	2	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 2.
EPA 27	OS, LT M	1970	A	SAIC 26, SAIC 27, SAIC 28, SAIC 77 SAIC 232, SAIC 273, SAIC 274, SAIC 548 EPA 35, EPA 44, EPA 45	No	3	NFI	An area of open storage with light-toned material. This anomaly is in the northwest portion of a large storage area that contains IRP Site 15 as well as SWMU's 30, 272, and 273.
EPA 28	WS, DG	1970, 1991	A		IRP Site 14	N/A	NFI	Wet soil and disturbed ground adjacent at IRP Site 14.
EPA 29	DG, PROB LQ, GR	1980	A		No	1	NFI	Disturbed ground that is graded with probable liquid at the north corner of the MCAS. Only is noted from one aerial photograph.
EPA 30	POSS LQ	1980	A		No	2	NFI	Possible liquid adjacent to Bldg. 77. Only is noted from one aerial photograph.
EPA 31	LQ	1980	A		No	2	NFI	Liquid east of the intersection of N. 8th Street and W. Marine Way. Only is noted from one aerial photograph.
EPA 32	ST	1980	A	SAIC 29, SAIC 206, SAIC 362 SAIC 482, EPA 8, EPA 26	Tank Farm 2	2	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 2.

**TABLE 1  
U.S.EPA Aerial Photograph Anomaly List**

ANOMALY NUMBER	ANOMALY DESIGNATION	YEAR	AREA	CORRESPONDING ANOMALIES	NEARBY INVESTIGATIONS	ANOMALY CATEGORY	DON RECOMMENDATION	COMMENTS
EPA 33	LT MM	1980	A		No	6	NFI	Two areas of light-toned mounded material
EPA 35	PROB ST	1980	A	SAIC 26, SAIC 27, SAIC 28, SAIC 77 SAIC 232, SAIC 273, SAIC 274, SAIC 548 EPA 27, EPA 44, EPA 45	No	2	NFI	Probable stains at north end of large storage area behind Bldg. 25. This anomaly is in the northwest portion of a large storage area that contains IRP Site 15 as well as SWMU's 30, 272, and 273.
EPA 36	POSS LT M	1980	A	SAIC 144 SAIC 169	Tank Farm 1	6	FI	This anomaly is at the turning circle adjacent to the former location of Tank Farm 1.
EPA 37	WS	1986	A	EPA 7	No	2	NFI	Wet soil about 200 north of the Officer's Club (Bldg. 791).
EPA 38	POSS D	1991	A		No	3	NFI	Possible drums behind Bldg 285 near W. Marine Way and N. 7th Street.
EPA 39	LTMM	1991	A		SWMU 70	6	NFI	Light-toned mounded material about 100 feet northeast of Bldg. 288. This anomaly is approximately 50 feet west of SWMU 70.
EPA 40	OS, DG, MT MM	1991	A	SAIC 7, SAIC 113, SAIC 190, SAIC 227, SAIC 235, SAIC 272	Tank Farm 3	3	NFI	This anomaly is within the vehicle storage yard adjacent to the former Tank Farm 3.
EPA 41	PROB D, C	1991	A		No	3	NFI	Numerous probable drums and containers between the wings of Bldg. 327.
EPA 42	ST	1991	A		No	2	NFI	Stains west of Gate No. 1, about 150 feet north of Trabuco Road.
EPA 43	TR	1991	A		No	1	NFI	A trench between Bldgs 46 and 47 north of the intersection of S. 5th and H Streets.
EPA 44	LQ, OS	1991	A	SAIC 26, SAIC 27, SAIC 28, SAIC 77 SAIC 232, SAIC 273, SAIC 274, SAIC 548 EPA 27, EPA 35, EPA 45	No	2	NFI	Liquid in the southern portion of the open storage area that includes IRP Site 15. This anomaly is in the northwest portion of a large storage area that contains IRP Site 15 as well as SWMU's 30, 272, and 273.
EPA 45	DB, ST	1991	A	SAIC 26, SAIC 27, SAIC 28, SAIC 77 SAIC 232, SAIC 273, SAIC 274, SAIC 548 EPA 27, EPA 35, EPA 44	No	2	NFI	Debris and stains in the open storage area that includes IRP Site 15. This anomaly is in the northwest portion of a large storage area that contains IRP Site 15 as well as SWMU's 30, 272, and 273.
EPA 46	POSS PIT	1991	A		IRP Site 14	N/A	NFI	Possible Pit adjacent to IRP Site 14. This anomaly may be part of the drainage ditch associated with IRP Site 14.
EPA 47	ST, LQ	1952, 1965	B	SAIC 12 SAIC 332	Tank Farm 4	2	NFI	Stains and liquid adjacent to Bldg. 605. Stains and liquid anomalies were observed along the aircraft parking apron on aerial photographs from 1946 to 1991.
EPA 48	ST, POSS LQ	1952	B		No	2	NFI	Stains and a possible pool of liquid about 150 north of Bldg 122.
EPA 49	POSS VT	1952	B		No	4	NFI	Possible vertical tanks 500 feet southeast of N. 14th and S Street.
EPA 50	POSS ST	1952	B		IRP Site 3	N/A	NFI	Possible soil staining at IRP Site 3.
EPA 51	EX	1952	B		IRP Site 3	N/A	NFI	Excavations in IRP Site 3.
EPA 52	ST	1952	B	SAIC 13, SAIC 56, SAIC 240, SAIC 337 SAIC 390, SAIC 458, EPA 56, EPA 57 EPA 64, EPA 72, EPA 79	SWMUs 211, 227, 252	2	NFI	Staining along the aircraft parking apron adjacent to Bldgs 698 and 396. Stains and liquid anomalies were observed along the aircraft parking apron on aerial photographs from 1946 to 1991.
EPA 53	LT M, DK M	1952	B		IRP Site 3	N/A	NFI	Light and dark toned material in IRP Site 3
EPA 54	PIT	1952	B		IRP Site 3	N/A	NFI	Pit in IRP Site 3
EPA 55	M	1952	B		IRP Site 3	N/A	NFI	Material in the southern portion of IRP Site 3.
EPA 56	ST	1965	B	SAIC 13, SAIC 56, SAIC 240, SAIC 337 SAIC 390, SAIC 458, EPA 52, EPA 57 EPA 64, EPA 72, EPA 79	Tank Farm 4 SWMUs 14 & 193	2	NFI	These anomalies are stained areas identified one time in the 1965 photo.
EPA 57	ST	1965, 1986, 1991	B	SAIC 13, SAIC 56, SAIC 240, SAIC 337 SAIC 390, SAIC 458, EPA 52, EPA 56 EPA 64, EPA 72, EPA 79	SWMUs 162 & 255	2	NFI	Stains adjacent to Bldg 643. Stains and liquid anomalies were observed along the aircraft parking apron on aerial photographs from 1946 to 1991.
EPA 58	ST	1965, 1991	B	SAIC 334 EPA 77	No	2	NFI	Stains north of Bldgs. 122 and 129. The corresponding anomaly is the staining north of bldg 129.
EPA 59	ST	1965, 1980, 1986	B		IRP Site 4 Well/04_DGMW66	2	NFI	Soil staining south of Bldg. 126. Monitoring Well 04_DGMW66 is in the middle of the staining.
EPA 61	HT	1965, 1970, 1986, 1991	B	SAIC 17, SAIC 150, SAIC 196 SAIC 198, SAIC 338, SAIC 388 SAIC 422, SAIC 467, EPA 66, EPA 68	Motor Pool Area	4	NFI	Horizontal storage tank. Several SWMUs have been investigated in this area. Most of the anomalies in this area are stains or liquid.
EPA 62	HT	1970	B	SAIC 236	No	4	NFI	Horizontal Tank adjacent to Bldg 290
EPA 63	PROB ST	1970	B		No	2	NFI	Staining adjacent to Bldgs 119 and 138.
EPA 64	ST	1970, 1991	B	SAIC 13, SAIC 56, SAIC 240, SAIC 337 SAIC 390, SAIC 458, EPA 52, EPA 56 EPA 57, EPA 72, EPA 79	No	2	NFI	Staining adjacent the aircraft parking apron and Bldg 606. Stains and liquid anomalies were observed along the aircraft parking apron on aerial photographs from 1946 to 1991.
EPA 65	ST	1970	B		SWMU 300	N/A	NFI	Soil staining adjacent to Bldg 760. This anomaly is adjacent to soil sampling for SWMU 300.

**TABLE 1  
U.S.EPA Aerial Photograph Anomaly List**

ANOMALY NUMBER	ANOMALY DESIGNATION	YEAR	STUD. AREA	CORRESPONDING ANOMALIES	NEARBY INVESTIGATIONS	ANOMALY CATEGORY	DON RECOMMENDATION	COMMENTS
EPA 66	ST	1970	B	SAIC 17, SAIC 150, SAIC 196	Motor Pool Area	2	NFI	Most of the anomalies in this area are stains or liquid.
EPA 67	PROB ST	1970	B	SAIC 198, SAIC 338, SAIC 388 SAIC 422, SAIC 467, EPA 61, EPA 68	IRP Site 3	N/A	NFI	Probable soil staining along the northern edge of IRP Site 3
EPA 68	PROB VT	1970	B	SAIC 17, SAIC 150, SAIC 196	Motor Pool Area	4	NFI	Most of the anomalies in this area are stains or liquid.
EPA 69	PROB ST	1970, 1980	B	SAIC 198, SAIC 338, SAIC 388 SAIC 422, SAIC 467, EPA 61, EPA 66	No	2	NFI	Soil staining east of Bldg 143.
EPA 70	ST	1970, 1980, 1986	B	SAIC 145	No	2	NFI	Soil staining northwest of Bldg 372.
EPA 71	ST	1970, 1980	B	SAIC 336	No	2	NFI	Soil staining southeast of Bldg 372
EPA 72	OS, ST	1970	B	SAIC 13, SAIC 56, SAIC 240, SAIC 337 SAIC 390, SAIC 458, EPA 52, EPA 56 EPA 57, EPA 64, EPA 79	SWMU 211, 227, and 252	2	NFI	Open storage area with soil staining adjacent to Bldg 698. Stains and liquid anomalies were observed along the aircraft parking apron on aerial photographs from 1946 to 1991.
EPA 73	ST	1980	B	SAIC 12, SAIC 22, SAIC 148 SAIC 237, SAIC 332, SAIC 369 SAIC 459, SAIC 483	SWMUs 149, 151	2	NFI	Soil Staining adjacent to Bldg 605. Stains and liquid anomalies were observed along the aircraft parking apron on aerial photographs from 1946 to 1991.
EPA 74	POSS ST	1980	B	SAIC 285	IRP Site 3	2	NFI	Possible staining at IRP Site 3 and Bldg 121. The Stain that corresponds to the other anomalies is adjacent to bldg 121. The other staining is addressed by the IRP Site 3 investigation.
EPA 75	DG	1980	B	SAIC 335	IRP Site 3	N/A	NFI	Disturbed ground at IRP Site 3
EPA 76	PIT	1991	B	SAIC 539	No	N/A	NFI	A pit in the Rodeo Area
EPA 77	ST	1991	B	SAIC 334	No	N/A	NFI	Stains north of Bldgs 122 and 129. The corresponding anomaly is the staining north of bldg 129.
EPA 78	OS, D	1991	B	EPA 58	SWMU 13	N/A	NFI	Open storage with drums. This anomaly is SWMU 13 (Drop Tank Storage Area).
EPA 79	ST	1991	B	SAIC 13, SAIC 56, SAIC 240, SAIC 337 SAIC 390, SAIC 458, EPA 52, EPA 56 EPA 57, EPA 64, EPA 72	Tank Farm 4	2	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 4.
EPA 80		1991	B		IRP Site 4	N/A	NFI	IRP Site 4
EPA 81	POSS LQ, ST	1991	B		No	2	NFI	Possible liquid and staining northwest of Bldg. 363.
EPA 82	LT MM, DK MM, GS	1970, 1986, 1991	C		IRP Site 1	N/A	NFI	Light and dark mounded material and ground scarring in the northeast portion of IRP Site 1.
EPA 83	TR	1970, 1986	C		IRP Site 1	N/A	NFI	Trenches in the northeast and west-central portions of IRP Site 1.
EPA 84	TR	1970, 1981	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 85	DK MM, LT MM	1970, 1981	C		IRP Site 1	N/A	NFI	Light and dark mounded material in the east-central portion of IRP Site 1.
EPA 86	TR, GS	1970, 1981, 1986, 1991	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 87	POSS TR	1970	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 88	PIT	1970	C		IRP Site 1	N/A	NFI	A pit near the southeast border of IRP Site 1.
EPA 89	GR	1970	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 90	DK AREAS	1970	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 91	POSS TR,	1970, 1981	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 92	B, GS	1970	C		IRP Site 1	N/A	NFI	A building and ground-scarring in the southeast portion of IRP Site 1.
EPA 93	POSS TR, ST	1970	C		IRP Site 1	N/A	NFI	A possible trench and gates near the southeast portion of IRP Site 1.
EPA 94	IM	1981, 1986, 1991	C		IRP Site 1	N/A	NFI	An apparent impoundment in the north-central portion of IRP Site 1.
EPA 95	POSS PITS, LQ	1981, 1991	C		IRP Site 1	N/A	NFI	Possible pits with liquid just east of EPA 94
EPA 96	POSS PITS	1981, 1991	C		IRP Site 1	N/A	NFI	Possible pits just south of EPA 94
EPA 97	TR	1981, 1991	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 98	PITS, TR	1981, 1991	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 99	PROB TR, ST, PIT	1981, 1991	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 100	TR	1981	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 101	PROB PITS, MM	1981	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 102	TR, LQ, PITS	1981, 1986, 1991	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 103	LT MM	1981	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 104	PROB TR	1981	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 105	GS	1981, 1986	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 106	TR, PROB PIT	1986	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 107	PITS	1986, 1991	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.

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U.S.EPA Aerial Photograph Anomaly List**

ANOMALY NUMBER	ANOMALY DESIGNATION	YEAR	STUDY AREA	CORRESPONDING ANOMALIES	NEARBY INVESTIGATIONS	ANOMALY CATEGORY	DOH RECOMMENDATION	COMMENTS
EPA 108	TR	1986	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 109	PROB TR	1986	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 110	MM	1991	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 111	POSS TR	1991	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 112	MM, PROB PIT	1991	C		IRP Site 1	N/A	NFI	One of several anomalies concentrated in the cleared portion of IRP Site 1.
EPA 113	POSS TR	1991	C		IRP Site 1	N/A	NFI	Possible trench along the east border of IRP Site 1.
EPA 114	VT	1952, 1965, 1970, 1980, 1986, 1991	D		No	4	NFI	Water Tanks (174 and 175) adjacent to IRP Site 9
EPA 115	OS, DK M	1952	D		IRP Site 7	N/A	NFI	Open storage area with dark material (IRP Site 7)
EPA 116	ST	1952	D		IRP Site 10	N/A	NFI	Stains in IRP Site 10.
EPA 117	LT M	1952	D		IRP Site 10	N/A	NFI	Light-material within IRP Site 10
EPA 118	ST	1952, 1980	D		IRP Site 10	N/A	NFI	Staining along the eastern border of IRP Site 10
EPA 119	R, ST	1952, 1970, 1980	D		IRP Site 8	N/A	NFI	Refuse and Soil Staining in IRP Site 8
EPA 120	R	1952, 1965, 1970, 1980, 1986, 1991	D		IRP Site 8	N/A	NFI	Refuse in IRP Site 8
EPA 121	PROB LQ, POSS TR	1952, 1980, 1986	D		IRP Site 22	N/A	NFI	Probable liquid and a possible trench within IRP Site 22.
EPA 123	POSS HT	1952, 1965, 1970	D		No	4	NFI	Possible horizontal Tank adjacent to Bldg 306.
EPA 124	PROB ST	1952	D		No	2	NFI	Probable Staining northwest of Bldg. 370.
EPA 125	TR	1952	D		No	1	NFI	A trench about 250 feet long is northwest of Bldg 307.
EPA 126	DK M	1952, 1970, 1991	D		No	6	NFI	Dark material about 50 feet northeast of EPA 125
EPA 127	ST	1952	D		IRP Site 12	N/A	NFI	IRP Site 12
EPA 128	5 IM	1952, 1965, 1970	D		IRP Site 12	N/A	NFI	Five impoundments within IRP Site 12
EPA 129	2 IM	1952, 1965, 1971, 1991	D		IRP Site 12	N/A	NFI	Two additional impoundments within IRP Site 12
EPA 130	ST	1952, 1965, 1970	D		IRP Site 12	N/A	NFI	Soil staining in IRP Site 12
EPA 131	IM	1952	D		IRP Site 12	N/A	NFI	An impoundment within IRP Site 12
EPA 132	POSS ST	1952, 1991	D		IRP Site 21	N/A	NFI	Possible staining at IRP Site 21
EPA 133	POSS ST	1965, 1970, 1991	D		18_JSS SWMU 45	2	NFI	Possible soil staining about 500 feet northeast of Bldg 307. Monitoring wells 18_JSS and SWMU 45 are within the stained area.
EPA 134	POSS ST	1965, 1991	D		IRP Site 11	N/A	NFI	Possible staining at IRP Site 11
EPA 135	ST/DK M	1965, 1970	D		IRP Site 10	N/A	NFI	Dark Toned Material in the northeast corner of IRP Site 10.
EPA 136	PROB ST	1965, 1970	D		IRP Site 10	N/A	NFI	Probable staining in the northeast portion of IRP Site 10.
EPA 137	DK M, ST	1965, 1970	D		IRP Site 9	N/A	NFI	Dark Material and staining at IRP Site 9.
EPA 138	POSS WS	1965	D		IRP Site 10	N/A	NFI	Possible staining in the northeast portion of IRP Site 10.
EPA 139	FBR	1965, 1970	D		IRP Site 22	N/A	NFI	Fuel bladder revetments at IRP Site 22.
EPA 140	DK M	1965, 1970	D		IRP Site 10	N/A	NFI	Dark mounded material in IRP Site 10.
EPA 141	ST	1965, 1970, 1991	D		IRP Site 10	N/A	NFI	Soil staining in the southwest corner of IRP Site 10.
EPA 142	ST	1965, 1970	D		07_DGMW91	2	NFI	Staining just outside the southwest corner of IRP Site 10. Monitoring Well 07_DGMW91 is within the stained area.
EPA 143	ST	1965	D		IRP Sites 24 & 7	N/A	NFI	Staining at IRP Site 24 (Bldg 296) and IRP Site 7.
EPA 144	ST	1965, 1970, 1980, 1986	D		IRP Site 24	N/A	NFI	Staining at IRP Site 24 (Bldg 297).
EPA 145	ST	1965, 1970, 1980	D		IRP Site 24	N/A	NFI	Staining at IRP Site 24 (Bldg 296).
EPA 146	ST	1952, 1965, 1970, 1980, 1986, 1991	D		IRP Site 10	N/A	NFI	Staining at IRP Site 10
EPA 147	ST	1965, 1970	D		IRP Site 7	N/A	NFI	Staining at IRP Site 7.
EPA 148	POSS ST	1965, 1991	D		IRP Site 8	N/A	NFI	Possible soil staining at IRP Site 8
EPA 149	POSS ST	1965, 1970	D		IRP Site 8	N/A	NFI	Possible soil staining at IRP Site 8
EPA 150	PROB ST	1965, 1980	D		IRP Site 8	N/A	NFI	Probable soil staining at IRP Site 8
EPA 151	POSS ST	1965, 1970	D		IRP Site 8	N/A	NFI	Possible soil staining at IRP Site 8
EPA 152	POSS VT, D	1970	D		IRP Site 7	N/A	NFI	Possible vertical tank and drums in Unit 3 of IRP Site 7
EPA 153	ST	1970, 1980	D		IRP Site 7	N/A	NFI	Soil staining at IRP Site 7
EPA 154	ST	1970	D		IRP Site 7	N/A	NFI	Soil Staining at the southern end of IRP Site 7.
EPA 155	D	1970	D		IRP Site 7	N/A	NFI	Drums stored about 500 feet east of Bldg 296
EPA 156	LQ, ST	1970, 1991	D		IRP Site 7	N/A	NFI	Liquid and soil staining in the southern portion of IRP Site 7.
EPA 157	HT	1970	D		SWMU 9	N/A	NFI	A horizontal tank about 200 feet east of Agua Chino Wash and the Station Boundary. This anomaly is SWMU 9

**TABLE 1**  
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ANOMALY NUMBER	ANOMALY DESIGNATION	YEAR	STUDY AREA	CORRESPONDING ANOMALIES	NEARBY INVESTIGATIONS	ANOMALY CATEGORY	DON RECOMMENDATION	COMMENTS
EPA 158	ST	1970	D		IRP Site 8	N/A	NFI	Soil Stains in IRP Site 8
EPA 159	POSS D	1970	D		IRP Site 8	N/A	NFI	Possible drums within IRP Site 8.
EPA 160	D	1970	D		IRP Site 8, IRP Site 11	N/A	NFI	Drums at IRP Site 8 and on the eastern edge of IRP Site 11.
EPA 161	D, POSS D, OS	1970	D		SWMU 99	N/A	NFI	An open Storage area with drums and/or possible drums. This anomaly is SWMU 99, a drum storage area.
EPA 162	ST	1970	D		No	2	NFI	Staining north of Bldg 359.
EPA 163	LQ	1970	D		No	2	NFI	Liquid adjacent to Bldg 355
EPA 164	POSS D, ST	1970	D		No	2	NFI	Possible drums and soil staining adjacent to Bldg 388.
EPA 165	ST	1970, 1980	D		IRP Site 10	N/A	NFI	Staining in IRP Site 10.
EPA 166	ST, D	1970	D		IRP Site 10	N/A	NFI	Staining and drums within IRP Site 10.
EPA 167	M	1970	D		IRP Site 10	N/A	NFI	Material in IRP Site 10
EPA 168	ST, LQ	1970	D		No	2	NFI	Soil Staining and liquid about 200 feet east of Bldg 770
EPA 169	CO	1970	D		IRP Site 11	N/A	NFI	A cylindrical object in IRP Site 11
EPA 170	ST	1970, 1986, 1991	D		SWMU 88	2	NFI	Soil Staining adjacent to building 742.
EPA 171	MT M	1970	D		No	6	NFI	Medium-toned material about 100 feet east of Tank 175
EPA 172	ST, LQ	1970, 1991	D		No	2	NFI	Staining and liquid about 100 feet north of Bldg 302
EPA 173	ST, POSS LQ	1970, 1980	D		IRP Site 9 Well	2	NFI	Soil staining and possible liquid about 200 feet west of Tank 175.
EPA 174	PROB D, ST	1970	D		SWMU 241	2	NFI	Probable drums with staining about 300 feet north of Bldg 370
EPA 175	POSS VT	1970	D		No	4	NFI	Possible vertical tank near the northwest corner of Bldg 304
EPA 176	VT, ST	1965, 1970	D		No	4	NFI	Vertical tank with soil staining adjacent to Bldg 307
EPA 177	ST	1970, 1986, 1991	D	SAIC 363 SAIC 529 SAIC 551	SWMUs 110 & 123	2	NFI	Soil staining north of Bldg 386. Liquid and staining anomalies are seen in aerial photographs for several years adjacent to SWMUs 110 (vehicle washrack) and 112 (oil water separator).
EPA 178	ST	1970	D		IRP 7	2	NFI	Staining near the eastern portion of IRP Site 7
EPA 179	ST	1980	D		IRP Site 24	N/A	NFI	Staining on the north side of Bldg 296.
EPA 180	ST, LQ	1980	D		IRP Sites 24 & 7	N/A	NFI	Soil staining and liquid adjacent to Bldg 295 and within IRP Site 7.
EPA 181	POSS LQ	1980	D		No	2	NFI	Possible liquid about 250 feet east of Bldg 672. Liquid was observed in this area on aerial photographs from 4 different years.
EPA 182	POSS LQ	1980, 1991	D		No	2	NFI	Possible liquid adjacent to Bldg 672. Liquid was observed in this area on aerial photographs from 4 different years.
EPA 183	LT M, PROB LQ	1980, 1986	D		SWMU 7	2	NFI	Light-toned material and probable liquid south of IRP Site 12.
EPA 184	FBR	1980, 1986	D		IRP Site 22	N/A	NFI	Fuel bladder revetments in Unit 2 of IRP Site 22
EPA 185	ST	1965, 1986	D		No	2	NFI	Staining north of Bldg 770.
EPA 186	ST	1986, 1991	D		No	2	NFI	Staining in the southeast corner of Building 297.
EPA 187	LQ	1986	D		IRP Site 24	N/A	NFI	Liquid about 100 feet north of Bldg 297.
EPA 188	LQ, ST	1986, 1991	D		IRP Site 24	N/A	NFI	Liquid and stains adjacent to the northwest corner of Bldg 297
EPA 189	ST	1986	D		IRP Site 24	N/A	NFI	Stains west of Bldg 310
EPA 190	LQ	1986	D		IRP Site 24	N/A	NFI	Liquid adjacent to the southwest corner of Bldg 296.
EPA 191	PROB LQ	1986	D		IRP Site 12	2	NFI	Liquid present in the drainage ditch at IRP site 12.
EPA 192	ST	1991	D		SWMUs 83, 84	2	NFI	Soil staining northwest of Bldg 317 and north of Bldg 305. The stains north of Bldg. 305 area adjacent to soil sampling locations for SWMUs 83 & 84.
EPA 193	POSS LQ	1991	D		SWMU 9	2	NFI	Possible liquid about 100 feet west of Perimeter Rd and 500 feet southeast of Bldg 800.
EPA 194	ST, VT	1991	D		No	2	NFI	Stains and three vertical tanks between Bldgs 319 and 360.
EPA 195	POSS VT, ST	1991	D		No	4	NFI	Fourteen possible vertical tanks and stains between tanks 175 and 176.
EPA 196	LQ	1991	D		No	2	NFI	Flowing liquid present south of Building 672.
EPA 197	PROB VT	1991	D		SWMU 253	4	NFI	Two probable vertical tanks at the north corner of Bldg 317. This anomaly is about 40 feet west of SWMU 253.
EPA 198	ST	1986, 1991	D		SWMU 73 & 116	2	NFI	Stains about 150 feet northeast of Bldg 388. Soil sampling for SWMUs 73 and 116 is adjacent to this anomaly.
EPA 199	PROB ST	1952	E		IRP Site 19	N/A	NFI	Probable stains in IRP Site 19
EPA 200	ST	1952, 1970, 1986	E		IRP Site 19	N/A	NFI	Stains within IRP Site 19
EPA 201	POSS PIT	1952	E		SWMU 263	1	NFI	Possible pit about 200 feet south of Bldg 374. Sampling location for SWMU 263 is about 50 feet north of this anomaly.
EPA 202	VT	1952	E		IRP Site 6	N/A	NFI	Two vertical tanks within IRP Site 6
EPA 203	POSS WS	1952	E		IRP Site 6	N/A	NFI	Possible wet soil in IRP Site 6
EPA 204	LT MM	1952	E		No	6	NFI	Light-toned mounded material between IRP Sites 6 & 19.
EPA 205	FA, DK M, LT M, TR	1965	E		IRP Site 5	N/A	NFI	Various features within IRP Site 5

**TABLE 1  
U.S.EPA Aerial Photograph Anomaly List**

ANOMALY NUMBER	ANOMALY DESIGNATION	YEAR	STUDY AREA	CORRESPONDING ANOMALIES	NEARBY INVESTIGATIONS	ANOMALY CATEGORY	DOH RECOMMENDATION	COMMENTS
EPA 206	POSS LQ	1965	E	SAIC 93, SAIC 165, SAIC 187, SAIC 366 SAIC 414, SAIC 451, SAIC 553, SAIC 555 EPA 207, EPA 221, EPA 244, EPA 245	SWMU 261	2	NFI	Possible liquid adjacent to Bldg 390. This anomaly part of a large open storage area with several SWMUs and USTs at the east corner El Toro Blvd. and E. Marine Way. Staining and liquid are observed in aerial photographs from several different years.
EPA 207	ST	1965	E	SAIC 93, SAIC 165, SAIC 187, SAIC 366 SAIC 414, SAIC 451, SAIC 553, SAIC 555 EPA 206, EPA 221, EPA 244, EPA 245	No	2	NFI	Soil Staining north of Bldg 673. This anomaly part of a large open storage area with several SWMUs and USTs at the east corner El Toro Blvd. and E. Marine Way. Staining and liquid are observed in aerial photographs from several different years.
EPA 208	VT	1965, 1970, 1980, 1986, 1991	E		No	4	NFI	Vertical Tank (459)
EPA 209	PROB LDA	1965	E	SAIC 162, SAIC 186, SAIC 250 SAIC 415, EPA 214 EPA 220, EPA 222	No	2	NFI	This area (DRMO Storage Yard No. 2) has staining, wet soil, or storage area anomalies. This area was investigated as SWMU 46 during the RCRA Facility Assessment (RFA).
EPA 210	VT	1965, 1980	E	SAIC 53, SAIC 166, SAIC 253 SAIC 532, SAIC 533, EPA 226	No	4	NFI	Vertical Tank (608), part of an area northeast of IRP Site 19 with several staining and liquid anomalies.
EPA 211	FBR, POSS LQ	1965, 1970, 1980, 1986, 1991	E		IRP Site 19	N/A	NFI	Fuel Bladder Revetment and Possible liquid at IRP Site 19
EPA 212	FBR	1965, 1970	E		IRP Site 19 (Unit 1)	N/A	NFI	Fuel Bladder Revetment in Unit 1 of IRP Site 1
EPA 213	ST	1965, 1970	E	EPA 215, EPA 218 EPA 228, EPA 248	No	2	NFI	Stains on the south side of Bldg 371. This is one of several staining anomalies along the edges of the aircraft parking area.
EPA 214	POSS LQ, POSS ST	1970	E	SAIC 162, SAIC 186, SAIC 250 SAIC 415, EPA 209 EPA 220, EPA 222	No	2	NFI	This area (DRMO Storage Yard No. 2) has staining, wet soil, or storage area anomalies. This area was investigated as SWMU 46 during the RCRA Facility Assessment (RFA).
EPA 215	ST	1965, 1970	E	EPA 213, EPA 218 EPA 228, EPA 248	SWMU 130	2	NFI	Stains about 150 feet west of Bldg 371. This is one of several staining anomalies along the edges of the aircraft parking area.
EPA 216	PROB LQ, OS	1965, 1970	E		IRP Site 6	N/A	NFI	Open Storage with probable liquid at IRP Site 6
EPA 217	POSS TR	1970	E	SAIC 161, SAIC 215, SAIC 287 SAIC 314, SAIC 542	No	1	NFI	Appears to be a trench related to road construction
EPA 218	ST	1970	E	EPA 213, EPA 215 EPA 228, EPA 248	SWMU 181	2	NFI	Stains along the aircraft parking apron. This anomaly has several locations, some are located along the aircraft parking apron and the others are adjacent to sampling locations for SWMU 181.
EPA 219	VT	1970, 1980, 1986, 1991	E		SWMUs 131 & 132	4	NFI	A vertical tank about 100 feet north of Bldg 374. This tank is situated in the middle of several anomalies (stains) located along the edges of the aircraft parking area.
EPA 220	PROB D, WS, LQ	1970, 1980	E	SAIC 162, SAIC 186, SAIC 250 SAIC 415, EPA 209 EPA 214, EPA 222	SWMUs 120 & 208	2	NFI	This area (DRMO Storage Yard No. 2) has staining, wet soil, or storage area anomalies. This area was investigated as SWMU 46 during the RCRA Facility Assessment (RFA).
EPA 221	VT, ST	1970, 1980, 1986	E	SAIC 93, SAIC 165, SAIC 187, SAIC 366 SAIC 414, SAIC 451, SAIC 553, SAIC 555 EPA 206, EPA 207, EPA 244, EPA 245	No	4	NFI	This vertical tank and staining is part of a large open storage area with several SWMUs and USTs at the east corner El Toro Blvd. and E. Marine Way. Staining and liquid are observed in aerial photographs from several different years.
EPA 222	ST, POSS D	1970	E	SAIC 162, SAIC 186, SAIC 250 SAIC 415, EPA 209 EPA 214, EPA 220	No	2	NFI	This area (DRMO Storage Yard No. 2) has staining, wet soil, or storage area anomalies. This area was investigated as SWMU 46 during the RCRA Facility Assessment (RFA).
EPA 223	POSS ST	1970	E		No	2	NFI	Possible stains about 150 feet southeast of Bldg 170
EPA 224	GR	1970	E		No	1	NFI	Grading about 300 feet south of Bldg 170
EPA 225	D	1970	E		No	3	NFI	Drums about 350 feet south of Bldg 455
EPA 226	LQ	1970	E	SAIC 53, SAIC 166, SAIC 253 SAIC 532, SAIC 533, EPA 210	No	2	NFI	Liquid about 100 feet south of Bldg 454, adjacent to the east side of Bldg 461, and 150 feet northeast of Bldg 617. Part of an area northeast of IRP Site 19 with several staining and liquid anomalies.
EPA 227	ST, LQ	1970	E		IRP Site 19 (Unit 1)	N/A	NFI	Stains with liquid in Unit 1 of IRP Site 19
EPA 228	POSS PIT, LQ, ST, D	1970	E	EPA 213, EPA 215 EPA 218, EPA 248	No	2	NFI	Possible pit with liquid, stains, and drums about 150 feet east of Bldg 228. This is one of several staining anomalies along the edges of the aircraft parking area.
EPA 229	PITS	1970	E		No	1	NFI	Pits about 300 feet north of the intersection of El Toro Blvd. and E. Marine Way.
EPA 230	VT	1970	E		No	4	NFI	Vertical tank about 400 feet south of Bldg 455
EPA 231	LQ, ST	1970, 1980	E		No	2	NFI	Liquid and stains on the east side of Bldg 457.
EPA 232	PROB D, OS	1970	E		IRP Site 6	N/A	NFI	Open storage with probable drums in IRP Site 6
EPA 233	ST	1970, 1980	E		No	2	NFI	Stains adjacent to Bldg 407
EPA 234	FBR, ST	1970, 1991	E		IRP Site 19	N/A	NFI	Fuel bladder revetments and stains at IRP Site 19
EPA 235	DG, POSS IM, LQ	1980	E	SAIC 312 SAIC 490 EPA 242	No	5	NFI	Disturbed ground and a possible impoundment with liquid west of the intersection of Perimeter Road and Magazine Road.

**TABLE 1  
U.S.EPA Aerial Photograph Anomaly List**

ANOMALY NUMBER	ANOMALY DESIGNATION	YEAR	STUDY AREA	CORRESPONDING ANOMALIES	NEARBY INVESTIGATIONS	ANOMALY CATEGORY	DO NOT RECOMMENDATIONS	COMMENTS
EPA 236	MT MM	1980	E		No	6	NFI	Medium-toned mounded material
EPA 237	DG	1980	E		IRP Site 5	N/A	NFI	Disturbed ground adjacent to IRP Site 5
EPA 238	POSS ST	1980	E		No	2	NFI	Possible stains about 250 feet east of Bldg 442 along E. Marine Way
EPA 239	GR REV	1980	E		No	1	NFI	Graded, revegetated area on the north side of Bldg 1803.
EPA 240	GR, DG	1980	E		IRP Site 6	N/A	NFI	Graded or disturbed ground within IRP Site 6
EPA 241	ST	1980	E		No	2	NFI	Stains about 100 feet north of Bldg 1589.
EPA 242	POSS IM	1986	E	SAIC 312 SAIC 490 EPA 235	No	5	NFI	This possible impoundment is west of the intersection of Perimeter Road and Magazine Road.
EPA 243	POSS PITS, WS	1986	E	SAIC 164	SWMU 181 & 225	1	NFI	Possible pits with wet soil about 150 feet southeast of Bldg 1517. Soil samples were collected adjacent to this anomaly as part of the SWMU 181 and 225 investigations.
EPA 244	PROB LQ	1986	E	SAIC 93, SAIC 165, SAIC 187, SAIC 366 SAIC 414, SAIC 451, SAIC 553, SAIC 555 EPA 206, EPA 207, EPA 221, EPA 245	SWMU 260	2	NFI	This liquid is part of a large open storage area with several SWMUs and USTs at the east corner El Toro Blvd. and E. Marine Way. Staining and liquid are observed in aerial photographs from several different years.
EPA 245	POSS ST	1986	E	SAIC 93, SAIC 165, SAIC 187, SAIC 366 SAIC 414, SAIC 451, SAIC 553, SAIC 555 EPA 206, EPA 207, EPA 221, EPA 244	No	2	NFI	Possible stain along the aircraft parking apron about 300 feet southwest of IRP Site 6.
EPA 246	DK AREA	1991	E		No	2	NFI	Dark area west of the intersection of Perimeter Road and Magazine Road.
EPA 247	DG	1991	E		No	1	NFI	Disturbed ground area west of the intersection of Perimeter Road and Magazine Road.
EPA 248	ST	1991	E	EPA 213, EPA 215 EPA 218, EPA 228	No	2	NFI	Several Stains throughout Study Area E. This is one of several staining anomalies along the edges of the aircraft parking area.
EPA 249	POSS D	1991	E		No	2	NFI	Possible Drums about 400 feet east of Bldg 673.
EPA 250	DK MT, LT M	1991	E		No	6	NFI	Dark-, medium-, and light-toned material about 400 feet east of Bldg 1517.
EPA 251	D	1991	E		No	3	NFI	Drums adjacent to the south side of Bldg 456
EPA 252	ST, POSS VT	1991	E		No	2	NFI	Stains and a possible vertical tank about 200 feet west of Bldg 686.
EPA 253	POSS Pipeline	1970, 1980, 1991	E		SWMU 107		NFI	Possible pipelines about 600 feet east of IRP Site 19. Probably related to the tank farm at Site 19.
EPA 254	PITS, TR	1991	E		No	1	NFI	Pits and trenches adjacent to Bldg 1682
EPA 255	ST	1980, 1991	E		No	2	NFI	Stains on the west side of Bldg 673. This anomaly part of a large open storage area with several SWMUs and USTs at the east corner El Toro Blvd. and E. Marine Way. Staining and liquid are observed in aerial photographs from several different years.
EPA 256	TR	1970	F		IRP Sites 2 and 17	1	NFI	Trenches in area between IRP Sites 2 & 17
EPA 257	ST	1970	F		IRP Sites 2 & 17	2	NFI	Stains along Magazine Road at the entrance to the firing range. In area between IRP Sites 2 and 17.
EPA 258	R, ST	1970, 1986, 1991	F		IRP Site 2	2	NFI	Rubbish and stains
EPA 259	FA, LT MM	1970	F		IRP Site 2	N/A	NFI	Fill Area with light-toned mounded material along magazine road.
EPA 260	LT MM, ST	1970	F		IRP Site 2	N/A	NFI	Light-toned mounded material and stains
EPA 261	FA, LT MM, DK MM	1970	F		IRP Sites 2 and 17	1	NFI	A fill area with light and dark mounded material along Magazine Road west of IRP Site 2. In area between IRP Sites 2 and 17.
EPA 262	R, FA, LT MM	1970	F		IRP Site 2	N/A	NFI	Refuse, a fill area, and light mounded material adjacent to Well No. 02_DGMW61.
EPA 263	TR, PROB ST	1970	F		No	1	NFI	A trench and probable staining near the archery range.
EPA 264	EXT	1970	F		IRP Sites 2 and 17	1	NFI	An extraction about 300 feet from where Magazine Road intersects the road to IRP Site 17. In area between IRP Sites 2 and 17.
EPA 265	R, ST	1970, 1980, 1986	F		IRP Site 2	N/A	NFI	Refuse and staining about 300 feet east of where Magazine Road intersects the road to IRP Site 17.
EPA 266	ST, LQ	1970, 1991	F		IRP Site 2	N/A	NFI	Staining and liquid on the east side of IRP Site 2.
EPA 267	ST, LT MM	1970, 1991	F		IRP Site 2	N/A	NFI	Staining and Light mounded material in the east portion of IRP Site 2.
EPA 268	ST, POSS TR	1970, 1991	F		IRP Site 2	N/A	NFI	Staining and a possible trench in the central portion of IRP Site 2.
EPA 269	ST	1970, 1991	F		IRP Site 2	N/A	NFI	Staining in the central portion of IRP Site 2.
EPA 270	ST	1970, 1980, 1986, 1991	F		IRP Site 2	N/A	NFI	Staining in the northern portion of IRP Site 2.
EPA 271	EXT	1970, 1980, 1991	F		IRP Sites 2 and 17	1	NFI	An extraction about 600 feet east of IRP Site 17.
EPA 272	DB, POSS PITS, GS	1970, 1991	F		No	1	NFI	Debris, possible pits, and ground scaring about 750 north of IRP Site 17.
EPA 273	POSS PITS	1970	F		No	1	NFI	Possible pits about 600 feet northeast of IRP Site 17
EPA 274	FA, DB, MT, DK MM, R	1970, 1986	F		IRP Site 17	N/A	NFI	Fill area, debris, dark mounded material, and refuse in the central portion of IRP Site 17.

**TABLE 1  
U.S.EPA Aerial Photograph Anomaly List**

ANOMALY NUMBER	ANOMALY DESIGNATION	YEAR	STUDY AREA	CORRESPONDING ANOMALIES	NEARBY INVESTIGATIONS	ANOMALY CATEGORY	D&N RECOMMENDATION	COMMENTS
EPA 275	FA, DB, MT, DK MM, R	1970, 1980	F		IRP Site 17	N/A	NFI	Fill area, debris, dark mounded material, and refuse on the east side of IRP Site 17.
EPA 276	GR	1970, 1986	F		IRP Site 17	N/A	NFI	Grading on the east side of IRP Site 17.
EPA 277	POSS TR, DK, LQ	1970, 1980, 1986	F		No	1	NFI	Possible trench with dark liquid about 400 feet northeast of IRP Site 2.
EPA 278	POSS TR, LQ	1970	F		IRP Site 2	N/A	NFI	Possible trench with liquid on the north side of IRP Site 2.
EPA 280	Poss. Smoke Plume, R	1970, 1986	F		IRP Site 2	N/A	NFI	Possible smoke plume and refuse on the west side of IRP Site 2.
EPA 281	ST, DK MM	1970	F		IRP Site 2	N/A	NFI	Staining and dark mounded material on the east side of IRP Site 2.
EPA 282	DB, DK LQ	1970, 1991	F		IRP Site 2	N/A	NFI	Debris and dark liquid on the east side of IRP Site 2.
EPA 283	R, ST	1970	F		IRP Site 2	N/A	NFI	Refuse and staining in the central portion of IRP Site 2.
EPA 284	FA, GS	1970, 1986, 1991	F		No	1	NFI	Fill area and ground scaring adjacent to the east side of station housing.
EPA 285	REV FA	1970, 1986, 1991	F		No	1	NFI	A revegetated fill area about 400 feet east of station housing.
EPA 286	LT MM, DK MM	1980, 1986	F		IRP Site 17	N/A	NFI	Light and dark mounded material on the north end of IRP Site 17.
EPA 287	ST	1980, 1991	F		IRP Site 2	N/A	NFI	Stains in central portion of IRP Site 2.
EPA 288	ST	1980	F		IRP Site 17	N/A	NFI	Staining in between IRP Site 17 and the Communications Building (568).
EPA 289	ST	1980, 1986	F		IRP Site 2	N/A	NFI	Stains in the central portion of IRP Site 2.
EPA 290	ST	1980	F		IRP Site 2	N/A	NFI	Stains about 150 feet east of Magazine Road, south of IRP Site 2.
EPA 291	DK MM	1980	F		IRP Site 17	N/A	NFI	Dark mounded material just outside of the east border of IRP Site 17.
EPA 292	LT MM	1980	F		IRP Site 17	N/A	NFI	Light mounded material in the central portion of IRP Site 17.
EPA 293	EXT	1980	F		IRP Sites 2 and 17	1	NFI	An extraction adjacent to Bldg 594 between IRP Sites 2 and 17..
EPA 294	TR	1986	F		No	1	NFI	A trench about 800 feet north of IRP Site 2.
EPA 295	ST	1986	F		IRP Site 2 (02NEW 11)	N/A	NFI	Staining about 250 feet north of IRP Site 2 near Well No. 02NEW11.
EPA 296	POSS ST	1986	F		IRP Site 2	N/A	NFI	Possible staining in the northeast corner of IRP Site 2.
EPA 297	VT	1986	F		No	4	NFI	Vertical Tank southwest of the Archery Range.
EPA 298	VT	1986	F		No	4	NFI	Water Tank on a hill about 1000 feet southeast of IRP Site 2.
EPA 299	GS	1986	F		IRP Site 2	N/A	NFI	Ground scaring on the west side of IRP Site 2.
EPA 300	FA, DK MM	1991	F		No	1	NFI	Fill area with Dark mounded material about 500 feet southeast of station housing.
EPA 301	D	1991	F		SWMU 8	3	NFI	Drums at Bldg 806. Ordnance handling area east of Site 2.
EPA 302	UO, POSS ST	1991	F		IRP Site 2	N/A	NFI	An unidentified object and possible stains in the northeast portion of IRP Site 2.
EPA 303	DB, ST	1970, 1991	F		IRP Site 2	N/A	NFI	Debris and Staining in the central portion of IRP Site 2.
EPA 304	DB	1991	F		IRP Site 2	N/A	NFI	Debris along the southern border of IRP Site 2.
EPA 305	HT, REV	1991	F		IRP Site 2	N/A	NFI	A horizontal tank and revegetation at the intersection of Magazine Road and the road leading to IRP Site 17.
EPA 306	LT PROB C	1991	F		No	3	NFI	Light probable containers about 900 feet southwest of IRP Site 2.
EPA 307	TR	1991	F		No	N/A	NFI	A trench about 500 feet south of IRP Site 2
EPA 308	ST	1991	F		IRP Sites 2 and 17	2	NFI	Staining about 50 feet northeast of Bldg 1752. In area between IRP Sites 2 and 17.
EPA 309	LT MM	1986, 1991	F		No	6	NFI	Light mounded material west of IRP Site 17.
EPA 310	LT MM, PROB FA	1970, 1986	F		No	6	NFI	Light-mounded material (1970). Probable fill area (1986) west of IRP Site 17
EPA 311	LT MM	1980, 1986, 1991	F		IRP Site 17	6	NFI	Light-toned mounded material in the southern portion of IRP Site 17.
EPA 312	POSS TR	1991	F		IRP Site 17	1	NFI	Possible trench in the southern portion of IRP Site 17.
EPA 313	DB, REV GR	1991	F		IRP Site 17	1	NFI	Debris and a revegetated graded area in the central portion of IRP Site 17.
EPA 314	UO	1991	F		IRP Sites 2 and 17	6	NFI	An unidentified object on the west side of Magazine Road near IRP Site 2.
EPA 315	MM	1980	F		IRP Site 2	N/A	NFI	Mounded material at IRP Site 2.

**TABLE 1  
U.S.EPA Aerial Photograph Anomaly List**

ANOMALY NUMBER	ANOMALY DESIGNATION	YEAR	STUDY AREA	CORRESPONDING ANOMALIES	NEARBY INVESTIGATIONS	ANOMALY CATEGORY	DoN RECOMMENDATION	COMMENTS
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**Notes:**

<sup>a</sup> = ANOMALY NUMBER - These numbers were assigned to each anomaly by SAIC. The numbers for the USEPA anomalies are derived from Appendix A of the SAIC Aerial Photograph Assessment. Anomalies that could not be located or were off-Station are not included

<sup>b</sup> = TYPE OF ANOMALY - This refers to the designation(s) given to each anomaly.

- B - Building
- D - Drums
- DB - Debris
- DG - Disturbed Ground
- DK - Dark Toned
- EX - Excavation
- EXT - Extraction
- FA - Fill Area
- FBR - Fuel Bladder Revetment
- GR - Graded Area
- GS - Ground Scar
- HT - Horizontal Tank

<sup>c</sup> = YEAR - The year(s) of the aerial photograph that the anomaly was identified on.

<sup>d</sup> = STUDY AREA - Refers to the area (A-F) of MCAS El Toro that the anomaly is located. The designations are derived from the USEPA Site Analysis Report. These study areas are illustrated on Figure 1.

<sup>e</sup> = CORRESPONDING ANOMALY(S) - This column lists other anomalies that appear to be related to this anomaly.

<sup>f</sup> = NEARBY INVESTIGATIONS - This column lists the environmental investigations that have been performed within or adjacent to an anomaly.

<sup>g</sup> = CATEGORY - Anomaly descriptions are separated into six categories as follows:

- 1 - Trenches, excavations, disturbed ground, graded area
- 2 - Stains, liquid, wet soil
- 3 - Open storage area, drums
- 4 - Horizontal or vertical tank, unidentified object
- 5 - Impoundments
- 6 - Mounded material, debris

N/A - This anomaly is within a IR Site boundary, is a SWMU that has been investigated, or is a feature that is known to not be of environmental concern.

<sup>h</sup> = DEPARTMENT OF NAVY RECOMMENDATIONS -

- NFI - No Further Investigation Recommended
- FI - Further Investigation Recommended

<sup>i</sup> = COMMENTS - A short description of the anomaly based on the text and aerial photograph overlays in the USEPA report. Also, there is additional information about the anomaly, when applicable.

TABLE 2  
SAIC Aerial Photograph Anomaly List

ANOMALY NUMBER	ANOMALY DESIGNATION	YEAR	AREA	DESCRIPTION (from SAIC Report)	CORRESPONDING ANOMALIES	NEARBY INVESTIGATIONS	NOMALS CATEGORY	SAIC RECOMMENDATION	EBS RECOMMENDATION	DCS RECOMMENDATION	NOTES
SAIC 1	EX	1946	A	An excavation about 500 by 400 feet beneath the present threshold area of Runway 16L.		None	1	FI	NFI (4)	NFI	SAIC 1, 2, and 3 are likely related to extension on the north end of the runway and construction of a new road around the runway.
SAIC 2	FA	1946	A	A fill area immediately west of SAIC 1/possibly spoils from the excavation.		None	1	NFI	NFI	NFI	SAIC 1, 2, and 3 are likely related to extension on the north end of the runway and construction of a new road around the runway.
SAIC 3	GR, MMDT	1946	A	Circular graded area about 300 feet in diameter. There is a dark toned mound of possible soil and vegetation debris.		None	1	NFI	NFI	NFI	SAIC 1, 2, and 3 are likely related to extension on the north end of the runway and construction of a new road around the runway.
SAIC 5	VT	1946	A	Vertical Tank at N 6th and Perimeter Road.		None	4	NFI	NFI	NFI	This is likely elevated Water Tank 222. The location shown on the SAIC Map is different than the location in the text (N. 6th Street and D Street).
SAIC 6	EX (WS,LO)	1946	A	An excavation at the present intersection of N 7th Place and K Street. Wet soil or liquid extends into the excavation from a light colored building at the edge of the Parking Apron.		SWMU 70	1	FI	NFI (4)	NFI	SWMU 70 soil borings are located about 20 feet north of SAIC 6.
SAIC 7	ST	1946	A	Stains adjacent to the aircraft parking apron at N. 6th Place and K Street and N. 4 Place and K Street.	SAIC 113, SAIC 190, SAIC 227, SAIC 235, SAIC 272, EPA 40	Tank Farm 3	2	FI	FI	NFI	This anomaly is along the aircraft parking apron near the former location of Tank Farm 3.
SAIC 23	ST	1946	A	Stains adjacent to the aircraft parking apron about 200 feet northeast of Bldg 12.		None	2	NFI	NFI	NFI	These stains are typical of staining found on parking aprons all around the station.
SAIC 25	OS	1946	A	An open storage area between F and G Streets and S 1st and 3rd Streets.		None	3	FI	FI	NFI	The location shown on the SAIC Map is different than the location stated in the text.
SAIC 26	OS	1946	A	Open storage with possible drums	SAIC 27, SAIC 28, SAIC 77, SAIC 232 SAIC 273, SAIC 274, SAIC 548, EPA 27 EPA 35, EPA 44, EPA 45	None	3	FI	FI (2)	NFI	This anomaly is in the southern portion of a large storage area that contains IRP Site 15 as well as SWMU's 30, 272, and 273.
SAIC 27	D, MMLT	1946	A	Light and dark toned mounded material.	SAIC 26, SAIC 28, SAIC 77, SAIC 232 SAIC 273, SAIC 274, SAIC 548, EPA 27 EPA 35, EPA 44, EPA 45	None	5	FI	NFI (4)	NFI	This anomaly is in the southern portion of a large storage area that contains IRP Site 15 as well as SWMU's 30, 272, and 273.
SAIC 28	UO	1946	A	Unidentified objects	SAIC 26, SAIC 27, SAIC 77, SAIC 232 SAIC 273, SAIC 274, SAIC 548, EPA 27 EPA 35, EPA 44, EPA 45	None	4	FI	NFI (4)	NFI	This anomaly is in the southern portion of a large storage area that contains IRP Site 15 as well as SWMU's 30, 272, and 273.
SAIC 29	ST	1946	A	Stained soil on the southwest side of Bldg. 241	SAIC 206, SAIC 362, SAIC 482 EPA 8, EPA 26, EPA 32	Tank Farm 2	2	FI	NFI (4)	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 2.
SAIC 30	OS, D	1946	A	An open storage area with possible drums on the southwest side of Bldg. 246	EPA 46 SAIC 80	Adjacent to IRP Site 14	3	FI	FI (2)	NFI	IRP Site 14 borings may address this anomaly.
SAIC 31	ST	1946	A	Stained soil on the southeast side of Bldg. 246		None	2	FI	FI (2)	NFI	May be related to SAIC 30
SAIC 32	VT, ST or WS	1946	A	Probable vertical tank about 400 feet southwest of Bldg. 31 with apparent soil staining or wet soil at the base of the tank.	SAIC 143, SAIC 275, SAIC 505, SAIC 526, EPA 14	Tank Farm 1	2	FI	NFI (4)	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 1.
SAIC 33	VT	1946	A	A probable vertical tank on the southwest side of building 249		18, BGMW103	4	FI	NFI (4)	NFI	Possibly the Driving Range Gear House.
SAIC 63	EX	1952	A	An excavation between Runways 16L and 16R, near the approach end.		None	1	NFI	NFI	NFI	Probably related to drainage control.
SAIC 71	GR	1952	A	Probable grading or trench backfilling operation is apparently in progress west of Runway 34L and north of Runway 25R.		IRP Site 16	N/A	NFI	NFI	NFI	Likely related to road construction
SAIC 77	OS, D	1955	A	An open storage area with possible drums on the westerly side of Bldgs 27 and 29.	SAIC 26, SAIC 27, SAIC 28, SAIC 232 SAIC 273, SAIC 274, SAIC 548, EPA 27 EPA 35, EPA 44, EPA 45	IRP Site 15	3	FI	FI (2)	NFI	This anomaly is in the southern portion of a large storage area that contains IRP Site 15 as well as SWMU's 30, 272, and 273.
SAIC 79	OS	1955	A	An open storage area on the westerly side of Bldg 286		None	3	FI	FI	NFI	This anomaly is only noted in one aerial photograph.
SAIC 80	ST	1955	A	Stains are noted at the easterly end of Bldg 246	SAIC 30	None	2	FI	FI (2)	NFI	Possibly this has been addressed by adjacent monitoring wells.
SAIC 87	EX, MMLT	1958	A	An excavation and light toned material near the midpoint of Runway 21.		Adjacent to IRP Site 16	1	NFI	NFI	NFI	At the West End of SAIC 71. Likely related to construction
SAIC 113	ST	1960	A	Stains at the edge of the aircraft parking apron near the southerly end of Bldg. 624 (J Street and N 6th Place), adjacent to Bldg 99 (K and N 4th Place), and near N 1st Place and K Street.	SAIC 7, SAIC 190, SAIC 227, SAIC 235, SAIC 272, SAIC 524, EPA 40	Tank Farm 3	2	FI	FI	NFI	This anomaly is along the aircraft parking apron near the former location of Tank Farm 3.
SAIC 114	WS, LQ	1960	A	Wet soil and liquid flowing from the aircraft parking apron adjacent to Bldg 624 to the ditch that extends to Marine Way.	SAIC 115	Tank Farm 3	2	FI	NFI (4)	NFI	This anomaly and SAIC 115 are swales that drain from the aircraft parking apron through the former Tank Farm 3 area and the adjacent vehicle storage area.

**TABLE 2  
SAIC Aerial Photograph Anomaly List**

SAIC 115	WS, LQ, OS	1960	A	Probable wet soil with liquid apparently flowing from the open storage area on the northeast side of N 4th Place to SAIC 114.	SAIC 114	Tank Farm 3	2	FI	FI	NFI	This anomaly and SAIC 114 are swales that drain from the aircraft parking apron through the former Tank Farm 3 area and the adjacent vehicle storage area.
SAIC 117	ST	1960	A	Possible stain around abandoned Compass Rose No. 1	EPA 11	None	2	FI	NFI (4)	NFI	
SAIC 118	UO	1960	A	Two unidentified objects about 370 feet southwest of Compass Rose No. 1		None	4	FI	NFI (4)	NFI	These objects are only noted one one aerial photograph
SAIC 133	UO, ST, WS, EX	1964	A	A dark-toned unidentified object, a possible stained area, and wet soil or an excavation south of Perimeter Road near the railroad tracks.		None	2	FI	NFI (4)	NFI	
SAIC 143	EX	1964	A	Probable trench and excavation near W. Marine Way and S. 8th Street.	SAIC 32, SAIC 275, SAIC 505, SAIC 526, EPA 14	Tank Farm 1	1	FI	FI (2)	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 1.
SAIC 144	TR, EX	1964	A	A probable trench and excavation near W. Marine Way and S. 8th Street.	SAIC 169, EPA 7, EPA 36	Tank Farm 1	1	FI	FI (2)	FI	This anomaly is at the turning circle adjacent to the former location of Tank Farm 1.
SAIC 169	EX	1967	A	An excavation southwest of the Site 14	SAIC 144, EPA 7, EPA 36	Tank Farm 1	1	FI	FI (2)	FI	This anomaly is at the turning circle adjacent to the former location of Tank Farm 1.
SAIC 170	ST	1967	A	Stains near Site 13	SAIC 462 EPA 6 EPA 13	IRP Site 13	N/A	NFI	NFI	NFI	
SAIC 171	VT	1967	A	A probable vertical tank about 550 feet east of Site 16	SAIC 224 SAIC 259 SAIC 276 SAIC 418	None	N/A	FI	FI (2)	NFI	This anomaly is known not to be a vertical tank, but part of the air traffic control system.
SAIC 172	ST, D	1967	A	Stains and possible drums in a open area near W. Marine Way and N. 4th Place	EPA 25	None	2	FI	FI	NFI	Was stated in the EBS to be in an unpaved equipment storage area.
SAIC 173	FBR, ST	1967	A	Probable fuel bladder revetments and possible stains in an excavated area about 150 to 300 feet northeast of Bldg 14	EPA 21	Tank Farm 3	2	FI	FI	FI	These fuel bladder revetments were located adjacent to the aircraft parking apron near the former location of Tank Farm 3.
SAIC 174	LQ	1967	A	Liquid flowing westerly from Bldg 264 and easterly from a small structure toward Bldg 376	SAIC 207 SAIC 379 EPA 9	None	2	NFI	NFI	NFI	Stain or liquid anomalies were reported in six different years south and east of Bldg 264.
SAIC 189	EX, LQ	1968	A	An excavation with possible liquid at the intersection of the taxiways about 1200 feet north of Runway 25R and 1000 feet west of Runway 34L		None	1	FI	FI	NFI	Adjacent to IRP Site 16
SAIC 190	ST, WS	1968	A	Probable stains or wet soil northeast of Bldg. 14 at the south end of the fuel bladder revetment adjacent to the aircraft parking apron.	SAIC 7, SAIC 113, SAIC 227, SAIC 235, SAIC 272, EPA 40	Tank Farm 3	2	FI	FI	NFI	This anomaly is along the southwest side of the vehicle storage yard adjacent to the former Tank Farm 3.
SAIC 191	ST	1968	A	Probable stain at the southeast corner of the Site 20.		IRP Site 20	N/A	NFI	NFI	NFI	Area of anomaly contained within IRP Site 20 boundaries.
SAIC 205	VT, ST	1971	A	A possible vertical tank near Site 13 adjacent to Bldg 1505. In addition, there is a stain on the northerly side of the tank area.		Adjacent to IRP Site 13	4	NFI	NFI	NFI	Possibly related to SAIC 381.
SAIC 206	WS, LQ	1971	A	Wet soil and northwesterly flowing liquid about 200 feet south of Bldg 11.	SAIC 29, SAIC 362, SAIC 482 EPA 8, EPA 26, EPA 32	Tank Farm 2	2	FI	FI	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 2.
SAIC 207	ST, WS	1971	A	Stains or wet soil on the southerly side of Bldg 264	SAIC 174 SAIC 379 EPA 9	None	2	FI	NFI (4)	NFI	Stain or liquid anomalies were reported in six different years south and east of bldg 264.
SAIC 223	HT, IM	1971	A	A probable horizontal tank with a revetment near 4th Street and H Street.		None	4	FI	NFI (4)	NFI	Horizontal tank possibly a liquified natural gas tank. No additional evidence of the impoundment was found.
SAIC 224	VT	1971	A	A vertical tank about 1800 feet north of Runway 25R and about 500 feet west of Runway 34L	SAIC 171 SAIC 259 SAIC 276 SAIC 418	None	N/A	FI	FI	NFI	This anomaly is known not to be a vertical tank, but part of the air traffic control system.
SAIC 225	LQ	1971	A	Liquid flowing northwesterly from Bldg. 1702 to a soil area.		None	2	NFI	NFI	NFI	Adjacent to EPA 20
SAIC 226	OS, D	1971	A	An open storage area with possible drums on the northerly side of Bldg. 16.		None	3	FI	NFI (4)	NFI	Possibly related to SAIC 523.
SAIC 227	ST	1971	A	Stains at the edge of the aircraft parking apron at N. 4th Place.	SAIC 7, SAIC 113, SAIC 190, SAIC 235, SAIC 272, EPA 40	Tank Farm 3	2	FI	FI	NFI	This anomaly is along the aircraft parking apron near the former location of Tank Farm 3.
SAIC 228	OS	1973	A	An open storage area on the west side of the baseball field.		None	3	FI	NFI (4)	NFI	
SAIC 229	DG, WS, ST	1973	A	Disturbed ground and wet soil or a stain near N. 4th Street and Perimeter Road.		None	1	NFI	NFI	NFI	
SAIC 230	WS, LQ	1973	A	Wet soil and a probable liquid flow toward the southeast in the vicinity of the Garden shop	SAIC 297 SAIC 361	None	2	NFI	NFI	NFI	Irrigation water is likely responsible
SAIC 231	ST	1973	A	A probable stain between N. 1st Street and N. 2nd Street		None	2	FI	NFI (4)	NFI	Adjacent to SAIC 464

TABLE 2  
SAIC Aerial Photograph Anomaly List

SAIC 232	ST	1973	A	Stains on the westerly side of Bldg 31 in the open storage area.	SAIC 26, SAIC 27, SAIC 28, SAIC 77 SAIC 273, SAIC 274, SAIC 548, EPA 27 EPA 35, EPA 44, EPA 45	None	2	FI	FI (2)	NFI	This anomaly is in the southern portion of a large storage area that contains IRP Site 15 as well as SWMU's 30, 272, and 273.
SAIC 233	OS	1973	A	Probable open storage area on the southerly side of Bldg. 256 near El Toro Blvd and W. Marine Way.		None	3	FI	FI	NFI	This anomaly was only observed on this aerial photograph.
SAIC 234	ST	1973	A	Probable stain on the north side of Bldg. 17		None	2	FI	NFI (4)	NFI	
SAIC 235	ST, UO, VT	1973	A	A stained area and two unidentified objects, possibly vertical tanks on the northerly side of Bldg 15.	SAIC 7, SAIC 113, SAIC 190, SAIC 227, SAIC 272, EPA 40	Tank Farm 3	2	FI	FI	NFI	This anomaly is within the vehicle storage yard adjacent to the former Tank Farm 3.
SAIC 257	GR	1973	A	Grading and construction of a paved road.		None	-			NFI	No location given
SAIC 258	WS, ST, HT	1973	A	Wet soil or a stain and a possible horizontal tank are adjacent to the intersection of Runways 7L and 16R.		None	2	FI	FI	NFI	This anomaly was only observed on this aerial photograph.
SAIC 259	VT	1973	A	Four possible vertical tanks are about 450 feet west of Runway 16R and 1300 feet north of Runway 7L.	SAIC 171 SAIC 224 SAIC 276 SAIC 418	None	N/A	FI	FI (2)	NFI	This anomaly is known not to be a vertical tank, but part of the air traffic control system.
SAIC 270	LQ	1974	A	Probable liquid is on the southwest side of Bldg 279.		None	2	FI	NFI (4)	NFI	The EBS states that soil sampling at SWMU 70 addresses this anomaly, however, SWMU 70 is approximately 250 feet away.
SAIC 271	D	1974	A	Probable drums on the southwest side of Bldg 287		None	3	FI	FI (4)	NFI	
SAIC 272	ST, WS	1974	A	Stains or wet soil is on the southwest side of Bldg 624.	SAIC 7, SAIC 113, SAIC 190, SAIC 227, SAIC 235, EPA 40	Tank Farm 3	2	FI	FI	NFI	This anomaly is located along the aircraft parking apron near the former location of Tank Farm 3.
SAIC 273	DG	1974	A	Disturbed ground is on the northwest sides of Buildings 25, 27, and 29	SAIC 26, SAIC 27, SAIC 28, SAIC 77 SAIC 232, SAIC 274, SAIC 548, EPA 27 EPA 35, EPA 44, EPA 45	None	1	FI	FI (2)	NFI	This anomaly is located in the southern portion of a large storage area that contains IRP Site 15 as well as SWMU's 30, 272, and 273.
SAIC 274	ST	1974	A	Stains are on the northwest side of Bldg 31	SAIC 26, SAIC 27, SAIC 28, SAIC 77 SAIC 232, SAIC 273, SAIC 548, EPA 27 EPA 35, EPA 44, EPA 45	Adjacent to IRP Site 15	2	FI	FI (2)	NFI	This anomaly is in the southern portion of a large storage area that contains IRP Site 15 as well as SWMU's 30, 272, and 273.
SAIC 275	ST	1974	A	Possible stains are southwest of Site 14, adjacent to the parking area.	SAIC 32, SAIC 143, SAIC 505, SAIC 526, EPA 14	Tank Farm 1	2	NFI	NFI	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 1.
SAIC 276	IM, LQ, ST, VT	1974	A	An impoundment with possible liquid is at Site 16, stains are about 220 feet south of Site 16, and a vertical tank is about 450 feet south of Site 16	SAIC 171 SAIC 224 SAIC 259 SAIC 418	IRP Site 16	N/A	NFI	NFI	NFI	This anomaly is known not to be a vertical tank, but part of the air traffic control system.
SAIC 293	WS, LQ	1974	A	Wet soil and probable liquid are in the area north of Trabucco Road.		None	2	NFI	NFI	NFI	Probable due to irrigation.
SAIC 294	LQ	1975	A	Liquid is apparently flowing southeast and then southwest from the area of Bldg 99		None	2	NFI	NFI	NFI	Stain or liquid anomalies were reported in six different years south and east of bldg 264.
SAIC 295	MMLT	1975	A	Light-toned mounded material is near B Street, between N. 4th and 5th Streets		None	6	NFI	NFI	NFI	
SAIC 296	LQ	1975	A	Possible liquid is in the street at the front of Bldg 443.		None	2	NFI	NFI	NFI	
SAIC 297	DG, FA	1975	A	Disturbed ground and a fill area are at Bldg 694.	SAIC 230 SAIC 361	None	2	NFI	NFI	NFI	Appears to be related to construction.
SAIC 298	WS	1975	A	Possible wet soil is on the westerly side of West Marine Way between Bldgs 27 and 29.		None	2	FI	NFI (3)	NFI	
SAIC 299	IM, LQ, FA	1975	A	No significant changes are at Site 16, but an impoundment with possible liquid and a fill area are noted.		IRP Site 16	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 16.
SAIC 318	ST	1975	A	A large stain, about 1600 feet long, is on Runway 21, apparently caused by flowing liquid. The stain extends to adjacent soil areas and into a drainage ditch.		Unit 3 of IRP Site 16	N/A	FI	NFI (3)	NFI	
SAIC 330	ST	1975	A	Stains are about 900 feet southwest of Site 16.		None	2	FI	NFI (3)	NFI	
SAIC 331	OS, D	1976	A	An open storage area with possible drums is about 100 feet southwest of Bldg. 16		None	3	FI	NFI (3)	NFI	Adjacent to EPA 32
SAIC 359	WS, LQ	1976	A	No significant changes at Site 16; wet soil and liquid are observed		IRP Site 16	N/A	NFI	NFI	NFI	This anomaly is contained within IRP Site 16.
SAIC 361	LQ	1977	A	A liquid (probably water) is apparently flowing in the parking areas adjacent to Bldgs 649 and 694.	SAIC 230 SAIC 297	None	2	NFI	NFI	NFI	
SAIC 362	LQ, ST	1977	A	A liquid is apparently flowing from Bldg 240. There are stains at the end of the flow area.	SAIC 29, SAIC 206, SAIC 482 EPA 8, EPA 26, EPA 32	Tank Farm 2	2	FI	NFI (3)	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 2.
SAIC 377	MMLT	1978	A	Light-toned mounded material is at the southern end of the running track.		None	6	NFI	NFI	NFI	
SAIC 378	LQ	1978	A	Liquid is about 50 feet northeast of Bldg 268.		None	2	NFI	NFI	NFI	Stain or liquid anomalies were reported in six different years south and east of bldg 264.

**TABLE 2**  
**SAIC Aerial Photograph Anomaly List**

SAIC 379	LQ	1978	A	Liquid is apparently flowing from the southwest side of Building 264 into the field on the northeast side of Bldg 98.	SAIC 174 SAIC 207 EPA 7	None	2	NFI	NFI	NFI	Stain or liquid anomalies were reported in six different years south and east of bldg 264.
SAIC 381	ST, LQ	1978	A	Three stains or liquid are on the aircraft parking apron between Bldgs 9 and 244. The appears to be a southerly flow direction with possible discharge into a storm drain at the southern end of the apron.		None	2	FI	NFI (3)	NFI	The southerly stain may correspond to SAIC 205
SAIC 382	WS, ST	1978	A	Wet soil or a stain is in the clear area adjacent to the north side of the threshold for Runway 7L.		None	2	FI	NFI (3)	NFI	
SAIC 403	ST, WS, GR, OS	1979	A	Stains or wet soil are near the southwest corner of Site 20. There is also grading to the northeast and open storage to the southeast.	SAIC 191 EPA 19	IRP Site 20	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 20.
SAIC 404	LQ	1979	A	Liquid is apparently flowing northeasterly from Bldg 38.		None	2	FI	NFI (4)	NFI	
SAIC 405	WS, ST	1979	A	An area of wet soil or soil staining is in the field about 300 feet northeast of Bldg 38.		None	2	FI	NFI (4)	NFI	
SAIC 417	ST, EX, GR, LO	1979	A	Most of the dark-toned staining at Site 16 appears to have been excavated, graded, or covered. An unidentified object is also present.		IRP Site 16	N/A	NFI	NFI	NFI	This anomaly is contained within IRP Site 16.
SAIC 418	VT	1979	A	A probable vertical tank about 400 feet southeast of Site 16.	SAIC 171 SAIC 224 SAIC 259 SAIC 276	None	N/A	FI	FI (2)	NFI	This anomaly is known not to be a vertical tank, but part of the air traffic control system.
SAIC 433		1980	A	No significant changes were noted at Site 16.		IRP Site 16	N/A	NFI	NFI	NFI	
SAIC 449	WS, LQ	1981	A	Wet soil or liquids adjacent to the west side of Runway 16R about 1100 feet north of Runway 25R.		None	2	FI	FI	NFI	This anomaly only identified on this aerial photograph.
SAIC 462	LQ	1983	A	Liquid is apparently flowing from the northwest corner of Bldg. 1505, adjacent to the aircraft parking apron.	SAIC 170	IRP Site 13	N/A	NFI	NFI	NFI	
SAIC 463	LQ	1983	A	Liquid is apparently flowing in the parking area at the west side of Bldg. 6.		None	2	NFI	NFI	NFI	
SAIC 464	LQ	1983	A	Liquid is apparently flowing westerly in the parking area of Bldg 260.		None	2	NFI	NFI	NFI	
SAIC 465	EX, DG	1983	A	An excavation and disturbed ground is near the southeast side of Bldg 549.		None	1	NFI	NFI	NFI	
SAIC 478	LQ	1983	A	Liquid appears to be flowing southwestly from a parking area into a ditch about 300 feet northeast of Trabuco Road.		None	2	NFI	NFI	NFI	
SAIC 480	WS	1984	A	Wet soil is near the southeast side of Bldg 681 in the picnic area north of the baseball fields.	EPA 16 EPA 29	None	2	NFI	NFI	NFI	
SAIC 481	ST	1984	A	A possible stain on the northwest side of Bldg 243.	EPA 15	None	2	NFI	NFI	NFI	
SAIC 482	ST	1984	A	A stain about 100 feet northeast of Bldg 240.	SAIC 29, SAIC 206, SAIC 362 EPA 8, EPA 26, EPA 32	Tank Farm 2	2	FI	FI	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 2.
SAIC 492	DG	1984	A	Disturbed ground related to construction work is southwest of Bldg. 375.		None	1	NFI	NFI	NFI	
SAIC 494	ST, WS, IM	1984	A	Dark staining or wet soil is at Site 16. A possible rectangular impoundment is noted immediately to the south.		IRP Site 16	N/A	NFI	NFI	NFI	
SAIC 502	ST, D	1987	A	Stains and possible drums are between Bldgs 13 and 14.		SWMU 26	2	FI	FI	NFI	Part of pattern of staining along the edge of the parking apron. This anomaly is contained within SWMU 26.
SAIC 503	IM, LQ	1987	A	An impoundment with liquids is at Site 16, however, there are no significant changes noted at the site.		IRP Site 16	N/A	NFI	NFI	NFI	
SAIC 504	DG	1987	A	Disturbed ground related to new construction is at the eastern corner of El Toro Blvd and W. Marine Way		None	1	NFI	NFI	NFI	
SAIC 505	EX, DG	1987	A	Areas of excavation and disturbed ground are near Site 14.	SAIC 32, SAIC 143, SAIC 275, SAIC 526, EPA 14	Tank Farm 1	2	FI	FI (2)	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 1.
SAIC 522	DG	1988	A	There is disturbed ground at a construction site on the southeast side of Perimeter Road, between N 4th street and N 6th Street.		None	1	NFI	NFI	NFI	
SAIC 523	LQ, WS	1988	A	Liquid is flowing southwestly across a parking area from Bldg 15.		None	2	FI	NFI (4)	NFI	Possibly corresponds to SAIC 226
SAIC 524	VT	1988	A	Two vertical tanks are along the southern side of Bldg. 5. A third tank is in an open field south of Bldg 517.			4	FI	NFI (4)	NFI	
SAIC 525	WS	1988	A	Probable wet soil is west of Bldg 52 and south of Bldg 692.	EPA 5	None	2	NFI	NFI	NFI	
SAIC 526	OS, D	1988	A	An open storage area with possible drums is west of Site 14.	SAIC 32, SAIC 143, SAIC 144 SAIC 169, SAIC 275, SAIC 505 EPA 7, EPA 14, EPA 36	Tank Farm 1	3	FI	FI (2)	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 1.
SAIC 544	GR	1988	A	A pad was constructed immediately south of Site 16.		IRP Site 16	N/A	NFI	NFI	NFI	Likely this is the new paved burn pits.

**TABLE 2**  
**SAIC Aerial Photograph Anomaly List**

SAIC 548	OS, D	1992	A	A large open storage area (about 350 by 350 feet) with possible drums is along the northwestern side of Bldgs 29 and 31 and surrounding Site 15.	SAIC 26, SAIC 27, SAIC 28, SAIC 77 SAIC 232, SAIC 273, SAIC 274, EPA 27 EPA 35, EPA 44, EPA 45	IRP Site 15	3	FI	FI (2)	NFI	This anomaly is in the southern portion of a large storage area that contains IRP Site 15 as well as SWMU's 30, 272, and 273.
SAIC 569	LQ	1992	A	Liquid is flowing toward the northwest from Bldg 649		None	2	NFI	NFI	NFI	
SAIC 8	EX, LQ	1946	B	A drainage channel with probable liquid extends from the aircraft parking apron near the approach end of Runway 21 and into the drainage ditch near the approach end of Runway 16R.		None	1	FI	NFI (4)	NFI	
SAIC 12	ST	1946	B	Stains adjacent to the aircraft parking apron in the vicinity of the present site of Bldg. 605.	SAIC 22, SAIC 148, SAIC 237 SAIC 332, SAIC 369, SAIC 459 SAIC 483, EPA 73	Tank Farm 4	2	FI	NFI (4)	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 4.
SAIC 13	ST	1946	B	Soil stains in the area southwest of Bldg. 292, stains appear to result from flowing liquids.	SAIC 58, SAIC 240, SAIC 337, SAIC 390 SAIC 458, EPA 52, EPA 56, EPA 57 EPA 64, EPA 72, EPA 79	SWMU 14	2	FI	NFI (4)	NFI	Stains and liquid anomalies were observed along the aircraft parking apron on aerial photographs from 1946 to 1991.
SAIC 14	OS	1946	B	Open storage area on the northerly side of Bldg 136		None	3	FI	FI	NFI	This anomaly only identified on this aerial photograph.
SAIC 15	TR, LQ, R	1946	B	An open trench about 500 feet southeast of the Pumphouse/Water Reservoir. There appears to be liquid in the northerly portion and refuse in the southerly portion.		Adjacent to IRP Site 3	1	FI	FI (2)	NFI	Possibly part of the IRP Site 3 investigation
SAIC 18	MMLT, MMDT	1946	B	Light and dark toned mounded material on the easterly side of SAIC 15.		Adjacent to IRP Site 3	6	FI	FI (2)	NFI	Possibly part of the IRP Site 3 investigation
SAIC 17	VT	1946	B	Vertical Tank	SAIC 150, SAIC 196, SAIC 198 SAIC 338, SAIC 388, SAIC 422 SAIC 467, EPA 61, EPA 66, EPA 68	Motor Pool Area	4	NFI	NFI	NFI	This anomaly is part of the "Motor Pool Area" in the USEPA report. Several SWMUs have been investigated in this area. Most of the anomalies in this area are stains or liquid.
SAIC 18	TR, FA, DG	1946	B	There is a trench and fill area about 1000 feet south of Tank 293. Oriented East-West, and is about 900 feet long. Spoil material extends about 500 feet to the west.		IRP Site 3	N/A	FI	FI (2)	NFI	This anomaly contained within IRP Site 3.
SAIC 19	ST, DG	1946	B	There is a large area of stained soil in the vicinity of Site 3.		IRP Site 3	N/A	NFI	NFI	NFI	
SAIC 20	EXT	1946	B	Three areas of apparent extractions at the mouth of Agua Chion Wash	SAIC 64, SAIC 106, SAIC 156 SAIC 443, SAIC 536, SAIC 564	None	1	NFI	NFI	FI	One of several anomalies identified on aerial photographs from 1946 to 1992. Construction debris is visible at scattered locations throughout the site. Station personnel have indicated this area was a disposal area.
SAIC 21	OS	1946	B	An open storage area on the northwest side of Bldg. 120, contains possible drums.		None	3	FI	FI	NFI	This anomaly is only noted on this aerial photograph.
SAIC 22	ST	1946	B	Probable soil stain in the southwest portion of Tank Farm No. 4	SAIC 12, SAIC 148, SAIC 237 SAIC 332, SAIC 369, SAIC 459 SAIC 483, EPA 73	Tank Farm 4	2	FI	FI	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 4.
SAIC 55	MMLT	1946	B	Light-toned mounded material adjacent to the drainage ditch between N. Marine Way and the approach end of Runway 25R.		None	6	FI	NFI (4)	NFI	Possibly associated with trenches at IRP Site 3.
SAIC 56	ST	1946	B	Soil stains (1) on the southeast side of Bldg 125, (2) at the edge of the aircraft parking apron about 200 feet northwest of Tank Farm No. 6, and (3) near the present location of Bldgs 697 and 642.	SAIC 13, SAIC 240, SAIC 337, SAIC 390 SAIC 458, EPA 52, EPA 56, EPA 57 EPA 64, EPA 72, EPA 79	SWMU 193	2	FI	NFI (4)	NFI	Stains and liquid anomalies were observed along the aircraft parking apron on aerial photographs from 1946 to 1991.
SAIC 64	EXT	1952	B	Quarried area, two sites appear to be active and the other recently active.	SAIC 20, SAIC 106, SAIC 156 SAIC 443, SAIC 536, SAIC 564	None	1	NFI	NFI	FI	One of several anomalies identified on aerial photographs from 1946 to 1992. Construction debris is visible at scattered locations throughout the site. Station personnel have indicated this area was a disposal area.
SAIC 65	GR	1952	B	The MCAS El Toro residential area is under development with extensive grading and earth moving.	SAIC 104, SAIC 155, SAIC 265 SAIC 266, SAIC 267, SAIC 325	None	1	NFI	NFI	NFI	Part of station housing area.
SAIC 66	TR	1952	B	A trench about 250 feet long about 1000 feet northeast of N 16th and T Streets		None	1	FI	NFI (4)	NFI	
SAIC 67	VT	1952	B	Two probable vertical tanks 500 feet southwest of N 14th and S Street.	EPA 49	None	4	FI	NFI (4)	NFI	
SAIC 88	IM	1958	B	An impoundment on the hilltop adjacent to the MCAS El Toro Residential Area.		None	5	FI	NFI (4)	NFI	Building 583?
SAIC 89	ST, TR	1958	B	Stains and a trench at Site 3.	EPA 54 EPA 55	IRP Site 3	N/A	FI	FI (2)	NFI	May extend outside of the IRP Site 3 boundaries.
SAIC 102	D	1960	B	Possible drums on the northeast side of Bldg. 415.	SAIC 518	SWMU 125	3	FI	FI	NFI	Hazardous waste storage activities associated with Bldg. 415 were investigated as SWMU 125.
SAIC 104	GR, B	1960	B	Grading and residential development are complete	SAIC 65, SAIC 155, SAIC 265 SAIC 266, SAIC 267, SAIC 325	None	1	NFI	NFI	NFI	This is the base housing on the east side of Irvine Blvd.

**TABLE 2**  
**SAIC Aerial Photograph Anomaly List**

SAIC 105	ST, WS	1960	B	Stains or wet soil in the cleared areas on the northeast and southeast sides of Rodeo Area complex		None	2	FI	FI	NFI	This anomaly only identified on this aerial photograph.
SAIC 106	EXT, GR	1960	B	Quarry north of the residential area. North of the quarry has been cleared.	SAIC 20, SAIC 64, SAIC 156 SAIC 443, SAIC 536, SAIC 564	None	1	FI	NFI (1)	FI	One of several anomalies identified on aerial photographs from 1946 to 1992. Construction debris is visible at scattered locations throughout the site. Station personnel have indicated this area was a disposal area.
SAIC 110	ST, WS	1960	B	Possible stains or wet soil extending northwest - southeast across a field westerly of El Toro Marine School.		None	2	NFI	NFI	NFI	
SAIC 111	UO	1960	B	An unidentified object at the corner of Q Street and N 9th Street.		None	4	FI	NFI (4)	NFI	May be an incinerator chimney.
SAIC 112	TR	1960	B	A trench at the intersection of Runways 16L, 16R, and 21	EPA 63	None	1	FI	NFI (4)	NFI	
SAIC 145	WS, LQ	1967	B	Wet soil on the northerly side of Bldg 1793, and wet soil with probable liquid occurs near the edge of the aircraft parking apron near the Base Operations facilities.	SAIC 336 EPA 70	None	2	FI	NFI (4)	NFI	Wet Soil or staining was observed in this area in aerial photographs from 5 different years.
SAIC 146	LQ	1967	B	Liquid flowing easterly from the northerly side of Bldg. 1798 in the Rodeo Area	SAIC 179	None	2	NFI	NFI	NFI	
SAIC 147	ST	1967	B	Apparent soil stains form three parallel lines on the westerly side of Bldg 139.	SAIC 332	None	2	FI	NFI (4)	NFI	
SAIC 148	DG	1967	B	An area of disturbed ground with four, dark-toned rectangular features in the southerly portion of Tank Farm No. 4.	SAIC 12, SAIC 22, SAIC 237 SAIC 332, SAIC 369, SAIC 459 SAIC 483, EPA 73	Tank Farm 4	1	FI	NFI (4)	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 4.
SAIC 149	LQ	1967	B	Liquid flowing from northerly from Bldg. 114.		None	2	FI	NFI (4)	NFI	
SAIC 150	ST, LQ	1967	B	Soil stains and probable liquid flowing southerly from the former building about 550 feet south of Bldg. 392 (Motor Pool)	SAIC 17, SAIC 196, SAIC 198 SAIC 338, SAIC 388, SAIC 422 SAIC 467, EPA 61, EPA 66, EPA 68	Motor Pool Area	2	FI	FI (2)	NFI	This anomaly is part of the "Motor Pool Area" in the USEPA report. Several SWMUs have been investigated in this area. Most of the anomalies in this area are stains or liquid.
SAIC 155	DG	1967	B	Disturbed ground northwesterly of the residential area	SAIC 65, SAIC 104, SAIC 265 SAIC 266, SAIC 267, SAIC 325	None	1	NFI	NFI	NFI	Part of station housing area.
SAIC 156	EXT, R, LQ	1967	B	Extraction near the mouth of Aqua Chinon Wash, there appears to be dark-toned material (refuse or liquid) in the eastern portion of the excavation	SAIC 20, SAIC 64, SAIC 106 SAIC 443, SAIC 536, SAIC 564	None	1	NFI	NFI	FI	One of several anomalies identified on aerial photographs from 1946 to 1992. Construction debris is visible at scattered locations throughout the site. Station personnel have indicated this area was a disposal area.
SAIC 157	EXT, FA	1967	B	Areas of Extraction and filling at Fuel Road and Quarry Road		None	1	FI	NFI (4)	NFI	
SAIC 179	LQ, WS	1968	B	At the Rodeo Area, liquid flowing westerly from 1798. Wet soil along the northwest and eastern portions of Bldg 1798	SAIC 146	None	2	NFI	NFI	NFI	Probably the result of irrigation and wash water
SAIC 188	MM, R	1968	B	Mounded soil, probable soil or possible refuse about 100 feet west of N. Marine Way, north of Agua Chinon Wash		None	6	FI	FI	NFI	This anomaly is contained within IRP Site 3.
SAIC 196	LQ	1968	B	Liquid flowing from Building 392.	SAIC 17, SAIC 150, SAIC 198 SAIC 338, SAIC 388, SAIC 422 SAIC 467, EPA 61, EPA 66, EPA 68	Motor Pool Area	2	FI	NFI (4)	NFI	This anomaly is part of an site indicated to be the "Motor Pool Area" in the USEPA report. Several SWMUs have been investigated in this area. Most of the anomalies in this area are stains or liquid.
SAIC 197	MMLT	1971	B	Light-toned mounded materials on the northeast and southeast sides of Tank Farm No. 5.		Tank Farm 5	6	FI	FI (2)	NFI	This anomaly may have already been addressed by excavations or soil investigations related to Tank Farm 5, depending on their extent.
SAIC 198	LQ	1971	B	Liquid flowing south to southwest from the Motor Pool Area.	SAIC 17, SAIC 150, SAIC 196 SAIC 338, SAIC 388, SAIC 422 SAIC 467, EPA 61, EPA 66, EPA 68	Motor Pool Area	2	FI	NFI (4)	NFI	This anomaly is part of an site indicated to be the "Motor Pool Area" in the USEPA report. Several SWMUs have been investigated in this area. Most of the anomalies in this area are stains or liquid.
SAIC 199	LQ	1971	B	Liquid is flowing easterly from Bldg 138		None	2	FI	FI	NFI	This anomaly only identified on this aerial photograph.
SAIC 217	MM, DG	1971	B	Mounded material and disturbed ground about 500 feet southeast of Perimeter Road and Quarry Road.		None	6	FI	NFI (4)	NFI	
SAIC 236	EX, DG, HT	1973	B	Excavation and disturbed ground at the former site of the removed horizontal tank northerly of Bldg 290	EPA 62	None	1	FI	NFI (4)	NFI	
SAIC 237	WS	1973	B	Possible wet soil between Bldgs 139 and 1729	SAIC 12, SAIC 22, SAIC 148 SAIC 332, SAIC 369, SAIC 459 SAIC 483, EPA 73	Tank Farm 4	2	FI	NFI (4)	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 4.
SAIC 238	OS	1973	B	An open storage area on the north and east sides of Bldg 137	No	None	3	FI	FI	NFI	This anomaly only identified on this aerial photograph.
SAIC 239	WS	1973	B	Probable wet soil on the easterly side of Bldg 291	No	None	2	FI	FI	NFI	This anomaly only identified on this aerial photograph.

TABLE 2  
SAIC Aerial Photograph Anomaly List

SAIC 240	ST	1973	B	Probable stains adjacent to Bldg 643	SAIC 13, SAIC 56, SAIC 337, SAIC 390 SAIC 458, EPA 52, EPA 56, EPA 57 EPA 64, EPA 72, EPA 79	SWMUs 162 & 255	2	FI	NFI (4)	NFI	Stains and liquid anomalies were observed along the aircraft parking apron on aerial photographs from 1946 to 1991.
SAIC 241	ST	1973	B	Possible stain on the northerly side of Bldg 115		SWMU 39	2	FI	FI	NFI	This area was investigated as part of SWMU 39 investigation.
SAIC 242	OS	1973	B	An open storage area can be seen on the northerly side of Bldg 658		IRP Site 4 Wells, SWMU 41	3	FI	FI (2)	NFI	The are several anomalies in the area surrounding IRP Site 4
SAIC 243	WS	1973	B	Wet soil along the westerly side of U Street between N. 8th and N. 9th Streets.		IRP Site 4 Wells, SWMU 41	2	FI	NFI (4)	NFI	The are several anomalies in the area surrounding IRP Site 4
SAIC 244	VT	1973	B	A vertical tank on the westerly side of Bldg 658		IRP Site 4 Wells, SWMU 41	4	FI	NFI (4)	NFI	The are several anomalies in the area surrounding Site 4
SAIC 245	EX	1973	B	Possible excavations about 400 feet east of N. Marine Way at the approach end of Runway 25R and about 800 feet westerly of Perimeter Road and Quarry Road.		None	1	FI	FI (2)	NFI	This anomaly only identified on this aerial photograph.
SAIC 260	DG, EX	1973	B	Disturbed ground and excavation are northwest from Rodeo Area.		None	1	FI	NFI (4)	NFI	
SAIC 265	GR, FA	1973	B	A grading and a fill area related to new residential development.	SAIC 65, SAIC 104, SAIC 155 SAIC 266, SAIC 267, SAIC 325	None	1	FI	NFI (4)	NFI	Part of station housing area.
SAIC 266	R	1973	B	Possible construction refuse is at the eastern edge of the developed area adjacent to Bldgs 6210 and 6211.	SAIC 65, SAIC 104, SAIC 155 SAIC 265, SAIC 267, SAIC 325	None	1	FI	NFI (4)	NFI	Part of station housing area.
SAIC 267	DG	1973	B	Disturbed ground is in the undeveloped area adjacent to the residential area east of Southwest Wake Ave. and Graham Dr.	SAIC 65, SAIC 104, SAIC 155 SAIC 265, SAIC 266, SAIC 325	None	1	FI	NFI (4)	NFI	Part of station housing area.
SAIC 282	MMLT, FA	1974	B	Light-toned mounded material and a fill area are about 800 feet east of Pumphouse/Water Reservoir and 400 feet southwest of Perimeter Road.		IRP Site 3	N/A	NFI	NFI	NFI	
SAIC 283	WS, ST	1974	B	Wet soil or a stain is about 600 feet southeast of the Pumphouse/Water Reservoir and 200 feet southwest of Perimeter Road.		IRP Site 3	N/A	NFI	NFI	NFI	
SAIC 284	D, OS	1974	B	Probable drums are in the open storage area on the northerly side of Bldgs 129 and 130.	SAIC 334 EPA 58 EPA 77	None	3	FI	NFI (4)	NFI	
SAIC 285	LQ	1974	B	Liquid is apparently flowing southwest from the southwest side of Bldg 121.	SAIC 335 EPA 74	None	1	FI	NFI (4)	NFI	
SAIC 288	DG, MM, TR	1974	B	Disturbed ground, mounded material, and a probable trench are about 700 feet southeast of the Perimeter Road and Quarry Road intersection.		None	1	FI	FI	NFI	Only noted in one aerial photograph. This area is often disturbed as a part of weed and fire control operations.
SAIC 289	WS, ST, LQ, D	1974	B	Wet soil or a stain and possible liquid flow to the southwest are from the open storage area on the northeast side of Bldg 415. Drums may also be present.		None	2	FI	FI	NFI	Hazardous waste storage activities associated with Bldg. 415 were investigated as SWMU 125.
SAIC 325	GR, FA	1975	B	Graded and filled areas are in the undeveloped area easterly of the MCAS residential area (Graham Drive).	SAIC 65, SAIC 104, SAIC 155 SAIC 265, SAIC 266, SAIC 267	None	1	FI	NFI (3)	NFI	Part of station housing area.
SAIC 332	ST, D	1976	B	Stains and possibly drums are on the westerly side of Bldg 139.	SAIC 12, SAIC 22, SAIC 148 SAIC 237, SAIC 369, SAIC 459 SAIC 483, EPA 73	Tank Farm 4	2	FI	NFI (3)	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 4.
SAIC 333	ST, LQ	1976	B	Stains are on the southeasterly side of Bldg. 605. They appear to be flowing liquid.	EPA 56	None	2	FI	NFI (3)	NFI	
SAIC 334	LQ, ST	1976	B	Liquid appears to be flowing northeasterly between Bldgs. 129 and 130. Liquid may be a stain.	SAIC 284 EPA 58 EPA 77	None	2	FI	NFI (3)	NFI	
SAIC 335	ST	1976	B	Apparent stains, or possibly dark vegetation, are on the southeasterly side of Bldg 121.	SAIC 285 EPA 74	None	2	FI	NFI (3)	NFI	
SAIC 336	WS, LQ	1976	B	Wet soil and probable liquid appear to be flowing westerly into a drainage ditch on the north side of Bldg. 1793.	SAIC 145 EPA 70	None	2	FI	NFI (3)	NFI	Wet Soil or staining was observed in this area in aerial photographs from 5 different years.
SAIC 337	ST	1976	B	Stains are on the southerly side of Bldg 115 and the westerly side of Bldg 697 and there is a probable liquid flow toward the west from Bldg 697.	SAIC 13, SAIC 56, SAIC 240, SAIC 390 SAIC 458, EPA 52, EPA 56, EPA 57 EPA 64, EPA 72, EPA 79	None	2	FI	NFI (3)	NFI	Stains and liquid anomalies were observed along the aircraft parking apron on aerial photographs from 1946 to 1991.
SAIC 338	ST	1976	B	There are probable stains about 200 and 300 feet southwest of the Pumphouse/Water Reservoir.	SAIC 17, SAIC 150, SAIC 196 SAIC 198, SAIC 388, SAIC 422 SAIC 467, EPA 61, EPA 66, EPA 68	Motor Pool Area	2	FI	NFI (3)	NFI	This anomaly is part of a site indicated to be the "Motor Pool Area" in the USEPA report. Several SWMUs have been investigated in this area. Most of the anomalies in this area are stains or liquid.
SAIC 339	ST	1976	B	Probable stains are common southwest of Bldg 127.		SWMU 41	2	FI	NFI (3)	NFI	
SAIC 340	VT	1976	B	A vertical tank is near N. 9th Street and T Street.		None	4	FI	NFI (3)	NFI	Water Tank for Engine Test Cell

**TABLE 2  
SAIC Aerial Photograph Anomaly List**

SAIC 357	LQ	1976	B	Liquid (probably water) is apparently flowing westerly in the adjacent field from the northwesterly side of the Rodeo Area.		None	2	NFI	NFI	NFI	
SAIC 358	LQ, D, OS	1976	B	A southerwesterly flow of liquid is from Bldg 415. Possible drums are in the open storage areas northeast, southeast, and northwest of Bldg 415, with liquid also northwest of the building.		None	3	FI	NFI (3)	NFI	
SAIC 360	ST	1976	B	Stained area is northeast of Bldg 385.		Adjacent to IRP Site 3	2	FI	FI (2)	NFI	This anomaly only identified on this aerial photograph. Aerial photograph not present in SAIC Report.
SAIC 367	MMLT, WS	1977	B	Light-toned mounded material is between Perimeter Road and N. Marine Way. Wet soil is about 500 feet southeast of the Pumphouse/Water Reservoir.		IRP Site 3	N/A	NFI	NFI	NFI	
SAIC 368	TR	1977	B	A trench in the open area between Bldgs 114 and 115 with soil stockpiled at the southwest end of trench.		SWMU 193	1	FI	NFI (3)	NFI	
SAIC 369	LQ	1977	B	Liquid is apparently flowing southerly from the northern end of Bldg 605.	SAIC 12, SAIC 22, SAIC 148 SAIC 237, SAIC 332, SAIC 459 SAIC 483, EPA 73	Tank Farm 4	2	FI	NFI (3)	NFI	Close to SAIC 12, Adjacent to Tank Farm 4
SAIC 388	LQ	1978	B	Liquid is apparently flowing south-westward from Bldg 392.	SAIC 17, SAIC 150, SAIC 196 SAIC 198, SAIC 338, SAIC 422 SAIC 467, EPA 61, EPA 66, EPA 68	Motor Pool Area	2	FI	NFI (3)	NFI	This anomaly is part of a site indicated to be the "Motor Pool Area" in the USEPA report. Several SWMUs have been investigated in this area. Most of the anomalies in this area are stains or liquid.
SAIC 389	HT	1978	B	A probable elevated horizontal tank is about 200 feet southwest of Tank Farm No. 5.		None	4	FI	NFI (3)	NFI	
SAIC 390	LQ	1978	B	Liquid in the south-central area of the aircraft parking apron is apparently flowing westerly from Bldg 115.	SAIC 13, SAIC 56, SAIC 240, SAIC 337 SAIC 458, EPA 52, EPA 56, EPA 57 EPA 64, EPA 72, EPA 79	None	2	FI	NFI (3)	NFI	Stains and liquid anomalies were observed along the aircraft parking apron on aerial photographs from 1946 to 1991.
SAIC 391	LQ	1978	B	A significant flow is coming from Bldg 605.	EPA 73	SWMU 149	2	FI	NFI (3)	NFI	
SAIC 392	UO, TR	1978	B	Seven unidentified objects and a possible trench are southwesterly of the Rodeo Area.		None	4	FI	NFI (3)	NFI	
SAIC 395	MM	1978	B	The mounded material area southeast of the Pumphouse/Water Reservoir on earlier photographs has been graded.		IRP Site 3	N/A	NFI	NFI	NFI	
SAIC 419		1979	B	Rodeo Area has not undergone any significant changes.		None	N/A	NFI	NFI	NFI	
SAIC 422	LQ	1979	B	Liquid appears to be flowing southwesterly from Bldg 392.	SAIC 17, SAIC 150, SAIC 196 SAIC 198, SAIC 338, SAIC 388 SAIC 467, EPA 61, EPA 66, EPA 68	Motor Pool Area	2	FI	NFI (4)	NFI	This anomaly is part of a site indicated to be the "Motor Pool Area" in the USEPA report. Several SWMUs have been investigated in this area. Most of the anomalies in this area are stains or liquid.
SAIC 427	OS, B, DB	1980	B	An open storage area with storage buildings and possible debris.	SAIC 442	None	3	FI	FI	NFI	Activities in this area are likely related to horse stables.
SAIC 431	OS, D	1980	B	An open storage area with possible drums is adjacent to Bldg. 415.		None	3	FI	FI	NFI	Hazardous waste storage activities associated with Bldg. 415 were investigated as SWMU 125.
SAIC 432	ST, LQ	1980	B	Stains and southwesterly flowing liquid are on the aircraft parking apron between Bldgs 115 and 606 and base operations.		None	2	NFI	NFI	NFI	
SAIC 442	OS	1981	B	The open storage area adjacent to the southwestern corner of the South Coast Agriculture Field Station remains unchanged.	SAIC 427	None	3	NFI	NFI (1)	NFI	Activities in this area are likely related to horse stable activities.
SAIC 443	EXT	1981	B	The area of extraction at the mouth of Agua Chionon Wash is revegetated	SAIC 20, SAIC 64, SAIC 106 SAIC 156, SAIC 536, SAIC 564	None	1	NFI	NFI	FI	Construction debris is visible at scattered locations throughout the site. Station personnel have indicated this area was a disposal area.
SAIC 447	MMLT, GR	1981	B	An area of light-toned mounded material southeast of Tank 293 noted on other photographs has been graded. A trench or other linear area of disturbed ground is about 200 feet south of the southeast corner of Tank Farm No. 5.		IRP Site 3	N/A	NFI	NFI	NFI	
SAIC 450	TR	1981	B			None	1	FI	FI	NFI	This anomaly only identified on this aerial photograph. No liquid or debris was noted in the trench.
SAIC 458	ST	1983	B	Stains adjacent to the northeast edge of the aircraft apron between Bldg 605 and 606.	SAIC 13, SAIC 56, SAIC 240, SAIC 337 SAIC 390, EPA 52, EPA 56, EPA 57 EPA 64, EPA 72, EPA 79	None	2	FI	NFI	NFI	Stains and liquid anomalies were observed along the aircraft parking apron on aerial photographs from 1946 to 1991.
SAIC 459	ST, DG	1983	B	Possible stains and disturbed ground at Fuel Farm No. 4. The soil is disturbed over much of the fuel farm area.	SAIC 12, SAIC 22, SAIC 148 SAIC 237, SAIC 332, SAIC 369 SAIC 483, EPA 73	Tank Farm 4	2	FI	NFI (3)	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 4.

TABLE 2  
SAIC Aerial Photograph Anomaly List

SAIC 467	LQ	1983	B	Liquid is apparently flowing southwesterly into a parking area from buildings located about 200 feet southeast of Bldg 392	SAIC 17, SAIC 150, SAIC 196 SAIC 196, SAIC 338, SAIC 388 SAIC 422, EPA 61, EPA 66, EPA 68	Motor Pool Area	2	FI	NFI (4)	NFI	This anomaly is part of a site indicated to be the "Motor Pool Area" in the USEPA report. Several SWMUs have been investigated in this area. Most of the anomalies in this area are stains or liquid.
SAIC 483	ST, LQ	1984	B	Stains or liquids are at three locations: near the northwest edge of the aircraft parking apron, the northeast portion of Tank Farm No. 4, and the parking area to the southeast.	SAIC 12, SAIC 22, SAIC 148 SAIC 237, SAIC 332, SAIC 369 SAIC 459, EPA 73	Tank Farm 4	2	FI	NFI (4)	NFI	This anomaly has been addressed by excavations or soil investigations related to Tank Farm 4.
SAIC 484	ST	1984	B	Probable stains on the southerly side of Bldg 658.		IRP Site 4	N/A	FI	FI (2)	NFI	This anomaly only identified on this aerial photograph.
SAIC 497	B, DG	1984	B	New construction and associated disturbed ground in the triangular area southeast of Perimeter Road and Magazine Road.		This anomaly is only Noneted on one aerial photograph.	1	NFI	NFI	NFI	
SAIC 508	LQ	1987	B	Liquid is apparently flowing near the northeast side of Bldg 125.		None	2	FI	NFI (3)	NFI	
SAIC 518	ST, WS	1987	B	Probable stains or wet soil are on the northeast side of Bldg. 415.	SAIC 102	SWMU 125	2	NFI	NFI	NFI	
SAIC 519	GR	1987	B	The Rodeo Area has expanded to the northwest following probable site grading.		None	1	NFI	NFI	NFI	
SAIC 527	VT	1988	B	A vertical tank is near the northwest corner of Bldg 121.		None	4	FI	NFI (4)	NFI	
SAIC 536	EXT, FA	1988	B	The former extraction area at the mouth of Agua Chionon Wash has been filled.	SAIC 20, SAIC 64, SAIC 106 SAIC 156, SAIC 443, SAIC 564	None	1	NFI	NFI	FI	Construction debris is visible at scattered locations throughout the site. Station personnel have indicated this area was a disposal area.
SAIC 539	DG, B, MMLT, DG, TR	1988	B	The Rodeo Area has expanded to the northwest where disturbed soil, buildings, and light-toned mounded material can be seen. There is an area of disturbed ground along the southerly side of Irvine Blvd that may be a backfilled trench.		None	1	FI	NFI (4)	NFI	
SAIC 557	B, UO, VT	1992	B	A new building and unidentified object (tank or circular horse training area) are at the Rodeo Area.		None	4	NFI	NFI	NFI	
SAIC 564	GR	1992	B	Grading appears to be complete in the south-central area of MCAS.	SAIC 20, SAIC 64, SAIC 106 SAIC 156, SAIC 443, SAIC 536	None	1	NFI	NFI	FI	Construction debris is visible at scattered locations throughout the site. Station personnel have indicated this area was a disposal area.
SAIC 97	UO, MMLT	1958	C	No significant changes are noted at Site 1.		IRP Site 1	6	NFI	NFI	NFI	
SAIC 116	ST, TR, LQ	1960	C	Several stains and a trench with with probable liquid at Site 1.		IRP Site 1	2	NFI	NFI	NFI	
SAIC 221		1971	C	No significant changes are noted at the EOD range.		IRP Site 1		NFI	NFI	NFI	
SAIC 254	TR, HT	1973	C	Two possible trenches and a horizontal tank at Site 1		IRP Site 1	1	NFI	NFI	NFI	
SAIC 571		1974	C	No significant changes at Site 1.		IRP Site 1		NFI	NFI	NFI	
SAIC 572		1975	C	No significant changes at Site 1.		IRP Site 1		NFI	NFI	NFI	
SAIC 373		1977	C	No significant changes are noted at Site 1.		IRP Site 1		NFI	NFI	NFI	
SAIC 444	IM, LQ	1981	C	A berm has been constructed in the northern portion of Site 1. Pounded liquid is noted in photographs from some years.		IRP Site 1	5	NFI	NFI	NFI	
SAIC 472	LQ, IM	1983	C	A liquid filled impoundment (about 100 by 150 feet) is at the northern portion of Site 1. A liquid filled trench is in the center of Site 1.		IRP Site 1	5	NFI	NFI	NFI	
SAIC 513		1987	C	No significant changes are noted at Site 1.		IRP Site 1		NFI	NFI	NFI	
SAIC 34	VT	1946	D	A probable vertical tank near S 11th Street and L Street.		SWMU 45	4	FI	NFI (4)	NFI	Possibly Tank 155?
SAIC 35	UO, VT, M	1946	D	Unidentified object, possibly a vertical tank or mound on the north side of perimeter road.	No	None	4	FI	NFI (4)	NFI	
SAIC 37	LQ	1946	D	Liquid flowing southwesterly from the southwest side of Bldg. 132	No	None	2	FI	NFI (4)	NFI	Location is questionable
SAIC 39	IM	1946	D	Two impoundments on the southwest side of Bldg. 306		None	5	FI	FI	FI	Listed as "Slurry Beds" on station plans from 1940s. This anomaly was recommended for further investigation in Table 5 of this Report.
SAIC 40	VT	1946	D	Two vertical tanks on the northeast side of Bldg. 306		None	4	FI	NFI (4)	NFI	
SAIC 41	OS, D	1946	D	An open storage area, possibly with drums on the westerly side of Building 320.	SAIC 181 SAIC 410	IRP Site 21	N/A	FI	NFI (3)	NFI	
SAIC 42	ST	1946	D	Soil stains beneath the present aircraft apron about 500 feet southeast of Tank 174.		IRP Site 10	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 10.
SAIC 43	OS, D	1946	D	Open storage areas with possible drums beneath the present aircraft parking apron about 700 to 1000 feet southeast of Tank 174		IRP Site 10	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 10.
SAIC 44	ST, OS	1946	D	Soil stains in an open storage area now occupied by Bldgs 386 and 1389		IRP Site 10	N/A	FI	FI (2)	NFI	A portion of this anomaly is contained within IRP Site 10.
SAIC 45	WS, ST, OS	1946	D	Wet soil or stains in an open storage area about 500 feet northwest of Bldg 322.		None	2	FI	NFI (4)	NFI	

TABLE 2  
SAIC Aerial Photograph Anomaly List

SAIC 46	WS, ST, OS	1946	D	Wet soil or stains in the area now occupied by the southwest corner of Bldg 1389, and in the open storage area about 200 feet northwest of Bldg 1389.		None	2	FI	FI	NFI	This anomaly only identified on this aerial photograph.
SAIC 47	OS, D	1946	D	An open storage area with possible drums near the		None	3	FI	NFI (4)	NFI	
SAIC 48	ST, LQ	1946	D	Stains caused by liquid flowing easterly from the aircraft parking apron about 200 feet east of Bldg. 296.		Adjacent to IRP Site 7	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 7.
SAIC 49	D, OS	1946	D	There may be drums in an open storage area about 200 feet east of Bldg 296.		Adjacent to IRP Site 7	N/A	FI	FI (2)	NFI	
SAIC 50	OS	1946	D	An open storage area at the present location of Bldg. 360.		None	3	FI	FI (2)	NFI	Building 360 was constructed prior to December 1952.
SAIC 51	MMDT	1946	D	Dark-toned mounded material adjacent to the drainage ditch between Perimeter road and the Southeast corner of the aircraft parking apron.		None	6	NFI	NFI	NFI	Mounds appear to be soil related to maintenance of the ditch.
SAIC 52	OS	1946	D	Four open storage areas north of the railroad tracks, between Agua Chino Wash and Borrego Canyon Wash.		None	3	FI	FI	NFI	This area has now been covered by the end of Runways 34-L and 34 R.
SAIC 68	TR	1952	D	Shallow or backfilled trench		None	1	FI	NFI (4)	NFI	
SAIC 69	MMLT	1952	D	Light-toned mounded material can be seen on the westerly side of Bee Canyon Wash, South of Perimeter Road	SAIC 246 SAIC 277 SAIC 485	Adjacent SWMUs	6	NFI	NFI	NFI	Disturbed ground, trenches, and/or mounded material was observed on aerial photographs from four different years.
SAIC 70	TR, LQ	1952	D	A trench with possible liquid at its northern end		None	1	NFI	NFI	NFI	
SAIC 81	TR, DG	1955	D	A trench and disturbed ground about 230 feet northwesterly of Bldg 307.	EPA 125	None	1	FI	FI	NFI	This anomaly is only identified on this aerial photograph. No liquids, refuse or other materials were noted in the trenches.
SAIC 82	OS	1955	D	Open storage areas in much of the north-central portion of Area D from the USEPA Report		IRP Sites 10, 22, 24	N/A	NFI	NFI	NFI	
SAIC 83	ST	1955	D	Probable stains adjacent to the northwest corner of the aircraft parking apron		IRP Site 22	N/A	NFI	NFI	NFI	
SAIC 84	VT	1955	D	Two vertical tanks can north of Bldg 355		None	4	FI	NFI (4)	NFI	
SAIC 85	VT	1955	D	Two vertical tanks about 200 feet south of Bldg 368	EPA 131 (?)	IRP Site 12	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 12
SAIC 86	OS	1955	D	Open storage area parallel to S. Marine Way, extends from SAIC 85 to Bldg. 317	SAIC 488	None	3	NFI	NFI	NFI	
SAIC 90	LQ, WS	1958	D	Possible liquid or wet soil at the northerly end of the sludge drying beds.		IRP Site 12	N/A	NFI	FI (2)	NFI	This anomaly is contained within IRP Site 12
SAIC 129	IM, VT	1961	D	An impoundment and six vertical tanks near S. Marine Way, S. 15th Street, and Plant Road.	EPA 129	IRP Site 12	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 12
SAIC 130	ST, DG	1961	D	Stains and disturbed ground near the northerly and easterly sides of Bldg. 1585 about 200 feet north of the Bldg 322.		SWMUs 243, 291	2	FI	NFI (4)	NFI	
SAIC 131	LQ	1961	D	Liquid appears to be flowing from a hangar (Bldg 296) at the southeast corner of the aircraft parking apron and discharging into the ditch each of the apron.		IRP Site 24	N/A	FI	FI (2)	NFI	This anomaly is partially contained within IRP Site 7.
SAIC 132	ST	1961	D	Stains in the proximity of Bldg. 1749.	SAIC 137 SAIC 461	IRP Site 8	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 8.
SAIC 134	MMLT	1964	D	Light-toned mounded material on the north side of the railroad tracks near the approach end of Runway 34R.		None	6	NFI	NFI	NFI	Materials appear to be soil and vegetation from earthmoving activities
SAIC 135	TR, DG	1964	D	A trench and disturbed ground about 1000 feet northeast of SAIC 134		None	1	FI	NFI (4)	NFI	Could be backfilled trench or disposal site.
SAIC 137	ST	1964	D	Stains are observed in the cleared or graded area easterly of Bldg. 360 and Site 8.		IRP Sites 8 & 24, SWMU 232	N/A	FI	FI (2)	NFI	Northern portion of anomaly is contained within IRP Site 8.
SAIC 138	OS, ST, D	1964	D	An open storage area, probable stains and drums about 500 feet Southeastery of the southeast corner of the aircraft parking apron.	SAIC 247 SAIC 305	None	3	FI	FI (2)	NFI	Western portion of anomaly is contained within IRP Site 8.
SAIC 139	ST	1964	D	Stains in the vicinity of Bldg. 325		None	2	FI	FI	NFI	This anomaly only noted on this aerial photograph. Within in area where several soil gas samples have been taken.
SAIC 140	ST	1964	D	Stains on the westerly side of Bldg. 324		None	2	FI	FI	NFI	This anomaly only noted on this aerial photograph. Within in area where several soil gas samples have been taken.
SAIC 141	ST, LQ	1964	D	Stains in the general area of Bldgs. 309, 311, and 312, probable liquid flow from toward the northeast from near Bldg 312	EPA 163	IRP Site 24 boring at West Edge of anomaly	2	FI	FI	NFI	Within in area where several soil gas samples have been taken as part of Site 24 investigation.
SAIC 142	ST	1964	D	Stains in the open area within and south of Site 10		IRP Site 10	N/A	FI	FI (2)	NFI	All of the eastern portion and half of the western portion of anomaly is contained within IRP Site 10.
SAIC 167	ST	1967	D	Extensive staining at Sites 9, 10, and 22		IRP Site 9, 10, 22	N/A	NFI	NFI	NFI	
SAIC 168	OS, D	1967	D	An open storage area with probable drums adjacent to the southwest corner of the aircraft parking apron near Bldgs 388 and 655		IRP Site 10	N/A	FI	FI (2)	NFI	Anomaly is contained within IRP Site 10.
SAIC 176	EXT	1968	D	A 400 by 70 feet extraction between Runways 34L and 34R about 500 feet south of Runway 25R.		None	1	FI	FI	NFI	This anomaly is likely related to some type of runway construction.
SAIC 177	EX	1968	D	An excavation near threshold of Runway of 34R containing unidentified equipment or materials		None	1	FI	NFI (4)	NFI	

TABLE 2  
SAIC Aerial Photograph Anomaly List

SAIC 180	ST, WS	1968	D	Stains in cleared areas east of R Street near West Marine Way. Wet soil in the northeast corner of Site 8.		SWMU 173	2	FI	FI (2)	NFI	Western portion of this anomaly is contained within IRP Site 8.
SAIC 181	WS	1968	D	Probable wet soil between Bldgs 320 and 323 at Site 21.	SAIC 410 EPA 132	IRP Site 21	N/A	NFI	NFI	NFI	
SAIC 182	WS, LQ	1968	D	Wet soil and flowing liquid extend about 400 feet westerly of Bldg 435 toward Site 9.		IRP Site 9	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 9.
SAIC 201	D, OS	1971	D	Probable drums in the open storage area about 800 feet southeast of the southeast corner of the aircraft parking apron.	SAIC 305 (?)	None	3	FI	FI (2)	NFI	Expansion of the runway covers this anomaly.
SAIC 202	WS, LQ	1971	D	Wet soil and probable liquid at the east end of the Crash Crew Complex (Bldgs 435 and 1649)		IRP Site 10	N/A	NFI	NFI	NFI	
SAIC 203	LQ	1971	D	Liquid flowing northeast from Site 9 toward the taxiway about 300 feet west of the Crash Crew Complex		IRP Site 10	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 9 and 10.
SAIC 204	ST	1971	D	A stain about 80 by 250 feet near Site 9.		IRP Site 9	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 9.
SAIC 248	EX, FA	1973	D	An excavation and fill area between Perimeter Road and railroad tracks, adjacent to westerly side of Bee Canyon	SAIC 69 SAIC 277 SAIC 485	None	1	FI	NFI (4)	NFI	Disturbed ground, trenches, and/or mounded material was observed on aerial photographs from four different years.
SAIC 247	OS	1973	D	Enlarged (OS) areas near southeast corner of aircraft parking apron, adjacent to the east of Bldgs 310, 315, and 316	SAIC 138 SAIC 305	IRP Site 7	N/A	FI	FI (2)	NFI	Most of this anomaly is contained within IRP Site 7.
SAIC 248	VT, WS, LQ	1973	D	Seven possible vertical tanks near the west and south sides of Bldg 435. Wet soil and southwestward-flowing liquid are 200 feet west of Bldg 435.		IRP Sites 10 & 22	N/A	NFI	NFI	NFI	
SAIC 277	MLLT, MMDT, DG, D, OS	1974	D	Light- and dark-toned mounded material is about 200 feet of S. 15th Street and Plant Road. Also, a possible drum is in the open storage area on the northerly side of S. 15th Street and Plant Road.	SAIC 69 SAIC 246 SAIC 485	IRP Site 12 Adjacent SWMUs	N/A	FI	FI (2)	NFI	The eastern portion of this anomaly identified as trenches, and/or mounded material is contained within IRP Site 12. The disturbed ground portion of the anomaly may be related to Bee Canyon Wash.
SAIC 278	ST	1974	D	Very dark stains are in the northwest corner of the aircraft parking apron, about 200 feet northeast of Tank 174.		IRP Site 9	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 9.
SAIC 300	LQ	1975	D	Liquid is apparently flowing southeasterly into the parking area from the east side of Bldg. 435.		IRP Site 10	N/A	NFI	NFI	NFI	Liquid is noted over a period of several years.
SAIC 301	MM, FA	1975	D	Mounded material and a fill area are about 1000 feet northwest of Bldg 317.		In between IRP Site 12 Units	6	NFI	NFI	NFI	
SAIC 302	WS	1975	D	Probable wet soil is in the open area about 200 feet east of Bldg 322.		None	2	NFI	NFI	NFI	Appears to be related to irrigation
SAIC 303	WS, LQ	1975	D	Probable wet soil and liquid are near the southeast side of Bldg 360, south of Site 8.		None	2	FI	FI (2)	NFI	This anomaly is probably contained within IRP Site 8.
SAIC 304	LQ	1975	D	A southwesterly flow of liquid is from Bldg 672.	SAIC 384 EPA 182	SWMUs 172 & 176	2	FI	FI (2)	NFI	Liquid was observed in this area on aerial photographs from 4 different years.
SAIC 305	D, OS	1975	D	Possible drums are in the open storage area about 400 east of Bldg. 672	SAIC 138 SAIC 247	None	3	FI	FI (2)	NFI	
SAIC 319	TR	1975	D	A trench about 300 feet northerly of the railroad tracks is on the easterly side of Agua Chino Wash		Adjacent SWMUs	1	FI	NFI (3)	NFI	
SAIC 327	VT	1975	D	The vertical tank adjacent to Building 534 has been removed.	SAIC 85	IRP Site 12	N/A	NFI	NFI	NFI	Likely that this anomaly refers to the removal of Tanks from SAIC 85.
SAIC 341	LQ, WS, ST	1976	D	Liquid with an undetermined flow direction is on the southerly side of Tank 175. Wet soil or stains may also be present.		None	2	FI	NFI (3)	NFI	
SAIC 342	WS, LQ	1976	D	Wet soil and a probable liquid (undetermined flow direction) are on the easterly side of Tank 175.		None	2	FI	FI (2)	NFI	
SAIC 343	WS	1976	D	Probable wet soil is on the northerly side of the taxiway across from Bldg 435		Adjacent to IRP Site 10	2	FI	FI (2)	NFI	
SAIC 344	ST	1976	D	Probable stains at the fuel bladder revetment near the westerly edge of the aircraft parking apron (Site 22).		IRP Site 22	N/A	NFI	NFI	NFI	
SAIC 345	ST	1976	D	A stain is on the northerly side of Bldg 386 about 500 feet northeast of Bldg 368		IRP Site 10	N/A	NFI	NFI	NFI	
SAIC 346	LQ, WS	1976	D	Liquids with a northerly flow and wet soil are on the easterly side of Bldg 96. The flow appears to originate from the north side of the building.		None	2	FI	NFI (3)	NFI	Aerial photograph location and written description do not match.
SAIC 347	LQ	1976	D	Northerly flowing liquid is on the southeast side of Bldg 320.		None	2	FI	NFI (3)	NFI	
SAIC 348	D, OS	1976	D	Possible drums are in the open storage area along the easterly side of the aircraft parking apron.		IRP Site 7	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 9 and 10.
SAIC 349	LQ, OS	1976	D	Liquid appears to be flowing to the south into the drainage ditch from the open storage area at the southeast corner to the aircraft parking apron about 100 feet northeast of Bldg 361.		IRP Site 7	N/A	NFI	NFI	NFI	

TABLE 2  
SAIC Aerial Photograph Anomaly List

SAIC 353	OS, ST, WS	1976	D	Several stains are in an open storage area between Runway 34R and the southerly extension of Runway 34L. Additional stains and wet soil are immediately to the north of the area.		None	2	FI	NFI (3)	NFI	
SAIC 363	LQ	1977	D	Liquid is apparently flowing westerly from the vicinity of Bldg 1589.	SAIC 529 SAIC 551 EPA 177	SWMUs 110, 112, 223	2	FI	NFI (3)	NFI	Liquid and staining anomalies are seen in aerial photographs for several years adjacent to SWMUs 110 (vehicle washrack) and 112 (oil water separator).
SAIC 383	LQ	1978	D	Liquid is apparently flowing westerly from the northwest end of Bldg 1589 across the parking area.		None	2	FI	NFI (3)	NFI	
SAIC 384	LQ	1978	D	Liquid is apparently flowing southwestward from Bldg 672.	SAIC 304 EPA 182	SWMUs 172 & 176	2	FI	NFI (3)	NFI	Liquid was observed in this area on aerial photographs from 4 different years.
SAIC 385	D, OS	1978	D	Possible drums are in the open storage area southeasterly of the aircraft parking apron.	SAIC 407	None	3	FI	FI (2)	NFI	Some of this anomaly is contained within IRP Site 7. This area is covered by runway expansion.
SAIC 386	D, OS	1978	D	Possible drums are in the open storage area easterly of the aircraft parking apron.	SAIC 201	IRP Site 7	N/A	FI	NFI (3)	NFI	
SAIC 387	D, OS	1978	D	Possible drums are in the open storage area northeasterly of the aircraft parking apron.	SAIC 420	None	3	FI	NFI (3)	NFI	
SAIC 406	OS	1979	D	An open storage area is about 400 feet east of Bldg 295, near the northeast corner of the aircraft parking apron.		None	3	FI	FI (2)	NFI	Some of this anomaly is contained within IRP Site 7. This area is covered by runway expansion.
SAIC 407	OS	1979	D	The open storage area easterly of the southeast corner of the aircraft parking apron has been expanded.	SAIC 385	None	3	FI	FI (2)	NFI	Some of this anomaly is contained within IRP Site 7. This area is covered by runway expansion.
SAIC 408	VT	1979	D	A vertical tank (Bldg 446?) is immediately north of Bldg 445.		IRP Sites 10 & 24 SWMUs 129 & 226	N/A	FI	NFI (4)	NFI	
SAIC 409	D	1979	D	Drums may be between Bldg 323 and the railroad tracks.		IRP Site 21	N/A	NFI	NFI	NFI	
SAIC 410	ST	1979	D	Stains are between Bldgs 320 and 323.	SAIC 181 EPA 142	IRP Site 21	N/A	NFI	NFI	NFI	
SAIC 411	DG	1979	D	Disturbed ground is about 400 feet northwest of Gate No. 5.		SWMU 7	1	FI	FI (2)	NFI	This anomaly is contained within SWMU 7.
SAIC 412	ST	1979	D	Ground stains are in the southeastern corner of Site 8.		IRP Site 8	N/A	NFI	NFI	NFI	
SAIC 420	LQ	1979	D	Liquid appears to be in a depression (possibly a sump) about 400 feet southwest of the intersection of Runways 7R and 34L. Unidentified equipment is adjacent to the site.	SAIC 387	None	2	FI	NFI (1)	NFI	
SAIC 460	ST	1983	D	Stains are adjacent to the fuel bladder revetments at Site 22.		IRP Site 22	N/A	NFI	NFI	NFI	
SAIC 461	ST, OS	1983	D	Stains are in the northwest corner of the open storage area adjacent to Bldgs 1749 and 748.	SAIC 132 SAIC 137	IRP Site 8	N/A	NFI	NFI	NFI	Stains have been noted in this area in previous photographs
SAIC 485	MMLT, MMDT, DG	1984	D	Light- and dark-toned mounded material and disturbed ground are on the western side of Bee Canyon Wash between S. Marine Way and Perimeter Road.	SAIC 69 SAIC 246 SAIC 277	Adjacent SWMUs	6	NFI	NFI	NFI	Disturbed ground, trenches, and/or mounded material was observed on aerial photographs from four different years.
SAIC 486	ST	1984	D	A probable stained area near Site 9.		IRP Site 9	N/A	NFI	NFI	NFI	
SAIC 487	LQ	1984	D	Liquid is along the western edge of Site 22.		None	2	FI	FI (2)	NFI	This anomaly is only identified on this aerial photograph.
SAIC 488	ST, WS	1984	D	Probable stains or wet soil southwest of Bldg 305.	SAIC 86	None	2	FI	NFI (4)	NFI	
SAIC 506	VT	1987	D	A probable vertical tank is in Site 11.		IRP Site 11	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 11.
SAIC 507	LQ	1987	D	Liquid is apparently flowing south and west from the southeast corner of Bldg 296, toward Bldgs 315 and 326.		IRP Sites 7 & 24	N/A	FI	FI (2)	NFI	Part of this anomaly is contained within IRP Site 7.
SAIC 528	LQ	1988	D	A possible liquid is at the south corner of Bldg 369.		None	2	FI	NFI (4)	NFI	
SAIC 529	LQ	1988	D	Liquid is apparently flowing southeast into the parking area from the northwest corner of Bldg. 307.	SAIC 363 SAIC 551 EPA 177	SWMUs 110, 112, 223	N/A	FI	FI (2)	NFI	This anomaly location appears to have been investigated as part of SWMU 110.
SAIC 550	ST	1992	D	Probable stains are in Site 11.		IRP Site 11	N/A	NFI	NFI	NFI	
SAIC 551	LQ	1992	D	Probable liquids are apparently flowing about 100 feet north of Bldg 386.	SAIC 363 SAIC 529 EPA 177	Adjacent to IRP Site 10 & SWMU 112	2	NFI	NFI	NFI	Liquid and staining anomalies are seen in aerial photographs for several years adjacent to SWMUs 110 (vehicle washrack) and 112 (oil water separator).
SAIC 552	L	1992	D	Liquid is apparently flowing southwest from Bldgs 388 and 655 across the parking areas and apparently into a drainage ditch.		IRP Site 10	N/A	FI	NFI (3)	NFI	
SAIC 570	OS	1955	D	An open storage area westerly of Bldg. 317	EPA 192	None	3	FI	NFI (4)	NFI	
SAIC 53	LQ	1946	E	Liquid can be seen flowing from a former hangar near the northeast end of the aircraft parking apron on the northerly side of Site 19.	SAIC 166, SAIC 253, SAIC 489, SAIC 532	None	2	FI	FI	NFI	Part of an area northeast of Site 19 with several staining and liquid anomalies.
SAIC 58	TR	1946	E	A trench about 800 feet west of East Marine Way and El Toro Blvd	SAIC 533, EPA 210, EPA 226	None	1	FI	NFI (4)	NFI	

**TABLE 2**  
**SAIC Aerial Photograph Anomaly List**

SAIC 59	IM	1946	E	Probable impoundment or storage tank near SAIC 58. Possibly impounded liquid or square shaped object.		None	5	FI	NFI (4)	NFI	This area was noted as an impoundment or horizontal tank. Historical plans for from the same period indicate that horse stables were in this area. The feature interpreted as an impoundment or storage tank may be related to the horse stables.
SAIC 91	DG, EX	1958	E	Disturbed ground and a probable excavation adjacent to the taxiway in the area of Site 6		IRP Site 6	N/A	FI	FI (2)	NFI	
SAIC 92	WS	1958	E	Wet soil in the open field between E. Marine Way and Z Street.	SAIC 162, SAIC 186, SAIC 250 SAIC 415, EPA 209, EPA 214 EPA 220, EPA 222	None	N/A	FI	FI	NFI	This area (DRMO Storage Yard No. 2) has staining, wet soil, or storage area anomalies. This area was investigated as SWMU 46 during the RCRA Facility Assessment (RFA).
SAIC 93	OS, D, LQ	1958	E	Open storage area with dimensions of about 500 by 800 feet in the east corner of El Toro Blvd and E Marine Way. Possible drums, probable liquid flowing from northwesterly from the west end of Bldg 390.	SAIC 165, SAIC 187, SAIC 366, SAIC 414 SAIC 451, SAIC 553, SAIC 555, EPA 206 EPA 207, EPA 221, EPA 244, EPA 245	Several SWMU 260	3	FI	NFI (4)	NFI	This anomaly is part of a large open storage area with several SWMUs and USTs at the east corner El Toro Blvd. and E. Marine Way. Staining and liquid are observed in aerial photographs from several different years.
SAIC 94	VT	1958	E	Three probable vertical tanks near Bldg 1650.	EPA 218	None	4	FI	FI (2)	NFI	
SAIC 120	WS, LQ	1961	E	Wet soil can be seen at the Marine Memorial Golf Course. Liquid is flowing southward from the golf course.		None	2	NFI	NFI	NFI	
SAIC 121	EX, EXT	1961	E	Excavation with possible extraction on the south side of Perimeter Road, at the southern tip of the activity.		None	1	FI	NFI (4)	NFI	
SAIC 124	WS	1961	E	Wet soil and probable flowing liquid near the southwest edge of the aircraft parking apron at Site 6		IRP Site 6	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 6.
SAIC 125	WS	1961	E	Wet soil on the east side of the taxiway south of Site 6. Wet soil on the east side of the taxiway south of Site 6, adjacent to the Fairway of the 14th Hole of the Golf Course.		None	2	FI	FI (2)	NFI	
SAIC 126	WS	1961	E	A stain or wet soil about 200 feet southwest of Bldg. 457.		None	2	FI	NFI (4)	NFI	This anomaly only identified in this aerial photograph.
SAIC 127	ST, WS	1961	E	Wet soil/liquid flowing southwesterly from Tank 459.		None	2	NFI	NFI	NFI	
SAIC 128	WS, LQ	1961	E	Disturbed ground and probable backfilled trenches in the western corner of Perimeter Road and Magazine Road about 1400 feet westerly of the intersection	SAIC 215, SAIC 287 SAIC 314, SAIC 542	None	1	NFI	NFI	FI	Disturbed ground, grading, and trenching were observed in this area. The EBS indicates that hazardous waste from Desert Storm activities was stored in this area. This area was also used as a bivouac area for Boy Scout Jamborees.
SAIC 162	ST	1967	E	Stains adjacent to El Toro Blvd Between Z Street and E Marine Way	SAIC 92, SAIC 186, SAIC 250 SAIC 415, EPA 209, EPA 214 EPA 220, EPA 222	None	2	FI	NFI (4)	NFI	This area (DRMO Storage Yard No. 2) has staining, wet soil, or storage area anomalies. This area was investigated as SWMU 46 during the RCRA Facility Assessment (RFA).
SAIC 163	EX, LQ	1967	E	An Excavation with probable liquid about 250 feet south of Tank 459		None	1	FI	NFI (4)	NFI	
SAIC 164	EX, LQ	1967	E	A possible excavation containing liquid about 500 feet southeast of N 3rd Street and North Marine Way	EPA 243	SWMU 181 and 225	1	FI	FI	NFI	Soil samples were collected adjacent to this anomaly as part of the SWMU 181 and 225 investigations.
SAIC 165	OS, D	1967	E	An open storage with possible drums near the ninety degree turn in N. 3rd Street	SAIC 93, SAIC 187, SAIC 366, SAIC 414 SAIC 451, SAIC 553, SAIC 555, EPA 206 EPA 207, EPA 221, EPA 244, EPA 245	None	3	FI	FI	NFI	This anomaly is part of a large open storage area with several SWMUs and USTs at the east corner El Toro Blvd. and E. Marine Way. Staining and liquid are observed in aerial photographs from several different years.
SAIC 166	VT	1967	E	A vertical tank adjacent to the easterly, angular taxiway extension northeast of Site 19	SAIC 53, SAIC 253, SAIC 532 SAIC 533, EPA 210, EPA 226	None	4	FI	FI (2)	NFI	This tank is within an area northeast of Site 19 with several staining and liquid anomalies.
SAIC 175	IM	1968	E	An impoundment between the railroad tracks and Perimeter Road near the approach end of Runway 34R that is formed by a closed-drainage depression.		None	5	FI	NFI (4)	NFI	
SAIC 178	ST, WS	1968	E	Stains or wet soil easterly of Bldg 464 at the Golf Course on the southerly side of the practice fairway		None	2	NFI	NFI	NFI	Probably the result of irrigation
SAIC 183	ST	1968	E	Several stains within and south of Site 6		IRP Site 6	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 6.
SAIC 184	ST	1968	E	Stains along the northern border of the aircraft parking apron		IRP Site 19	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 19.
SAIC 185	VT	1968	E	A vertical tank on the north side of Bldg 447		SWMU 131	4	FI	NFI (4)	NFI	
SAIC 186	ST	1968	E	Stains in the cleared field south of El Toro Blvd between E. Marine Way and Z Street	SAIC 92, SAIC 162, SAIC 250 SAIC 415, EPA 209, EPA 214 EPA 220, EPA 222	None	2	FI	NFI (4)	NFI	This area (DRMO Storage Yard No. 2) has staining, wet soil, or storage area anomalies. This area was investigated as SWMU 46 during the RCRA Facility Assessment (RFA).
SAIC 187	OS	1968	E	Open Storage area 250 by 400 feet northeast of the parking area at the northeast corner of N Third and Marine Way	SAIC 93, SAIC 165, SAIC 366, SAIC 414 SAIC 451, SAIC 553, SAIC 555, EPA 206 EPA 207, EPA 221, EPA 244, EPA 245	SWMU 264	3	FI	NFI (4)	NFI	This anomaly is part of a large open storage area with several SWMUs and USTs at the east corner El Toro Blvd. and E. Marine Way. Staining and liquid are observed in aerial photographs from several different years.
SAIC 200	ST	1971	E	Stain on the north side of the fuel bladders at Site 19		IRP Site 19	N/A	NFI	NFI	NFI	

TABLE 2  
SAIC Aerial Photograph Anomaly List

SAIC 215	DG, MMDT, TR	1971	E	Disturbed ground about about 250 by 350 feet in area, dark-toned mounded material, and a probable trench, all about 1600 feet westerly of W. Marine Road and Magazine Road.	SAIC 161, SAIC 287 SAIC 314, SAIC 542	None	1	FI	FI	FI	Disturbed ground, grading, and trenching were observed in this area. The EBS indicates that hazardous waste from Desert Storm activities was stored in this area. This area was also used as a bivouac area for Boy Scout Jamborees.
SAIC 216	VT	1971	E	Two probable vertical tanks adjacent to buildings at the west corner of Perimeter Road and Magazine road.		None	4	FI	FI (2)	NFI	This anomaly only identified in this aerial photograph.
SAIC 249	MMLT, DG	1973	E	Light toned mounded material and disturbed ground are easterly of the ninety-degree bend in N. 3rd Street.		None	5	NFI	NFI	NFI	Mounds appear to be stockpiled soil.
SAIC 250	WS, UO, OS	1973	E	Wet soil with a possibly-associated unidentified object are on the northerly side of Z Street about 200 feet southwest of El Toro Blvd. An open storage area is toward the southwest.	SAIC 92, SAIC 162, SAIC 186 SAIC 415, EPA 209, EPA 214 EPA 220, EPA 222	None	2	FI	NFI (4)	NFI	This area (DRMO Storage Yard No. 2) has staining, wet soil, or storage area anomalies. There are no known sampling locations in this area.
SAIC 251	OS	1973	E	The open storage area at site 6 remains in use		IRP Site 6	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 6.
SAIC 252	EX	1973	E	Probable excavation adjacent to Bldg. 1789.		None	1	FI	FI	NFI	Only is noted from one aerial photograph.
SAIC 253	VT	1973	E	There is a vertical tank, Bldg 606, easterly of Site 19, near the northeast end of the aircraft parking apron.	SAIC 53, SAIC 166, SAIC 532 SAIC 533, EPA 210, EPA 226	None	4	FI	FI (2)	NFI	This tank is within an area northeast of Site 19 with several staining and liquid anomalies.
SAIC 279	ST	1974	E	Stains are in the central portion of Site 6		IRP Site 6	N/A	FI	FI (2)	NFI	This anomaly is contained within IRP Site 6.
SAIC 280	MMLT	1974	E	Light-toned mounded material is about 200 feet south-southeast of Bldg. 453	SAIC 310	None	6	NFI	NFI	NFI	
SAIC 281	WS	1974	E	Wet soil or a burnt area is about 100 feet east of Bldg 457		None	1	FI	FI	NFI	Only is noted on this aerial photograph.
SAIC 287	EX	1974	E	An excavation is about 1600 feet west of the Perimeter Road and Magazine Road intersection.	SAIC 161, SAIC 215 SAIC 314, SAIC 542	None	1	FI	FI	FI	Disturbed ground, grading, and trenching were observed in this area. The EBS indicates that hazardous waste from Desert Storm activities was stored in this area. This area was also used as a bivouac area for Boy Scout Jamborees.
SAIC 306	ST	1975	E	Several stains are in the westerly and southerly portions of Site 19.		IRP Site 19	N/A	NFI	NFI	NFI	A fuel bladder was removed from the eastern portion of the site and a new revetment was installed in the western portion (year unknown).
SAIC 307	VT	1975	E	A vertical tank is in the compound north of Bldg 1791.		None	4	FI	NFI (3)	NFI	Probably a water tank
SAIC 308	D	1975	E	Probable drums are near the angular taxiway extension in the central portion of Site 6		IRP Site 6	N/A	FI	FI (2)	NFI	
SAIC 309	D, OS	1975	E	Probable drums are in the open storage area about 100 feet easterly of Bldg 453.		None	3	FI	NFI (3)	NFI	
SAIC 310	MMDT	1975	E	Dark-toned mounded material is on the southerly side of Z Street, about 200 feet southeast of Bldg. 453	SAIC 280	None	6	NFI	NFI	NFI	
SAIC 311	ST, LQ	1975	E	Stains and possible flowing liquid are about 500 feet northeast of Bldg. 457	SAIC 92	None	2	FI	NFI (3)	NFI	Similar features are noted during other years
SAIC 312	IM, DG, EX	1975	E	An impoundment, disturbed ground, and an excavation near the intersection of Perimeter Road and Magazine Road.	SAIC 490 EPA 235 EPA 242	None	5	NFI	NFI	NFI	This area was noted to contain an impoundment and disturbed ground. No visible evidence of an impoundment or disturbed ground was found during the site visit. Historical maps reviewed did not reveal evidence of impoundments in this area.
SAIC 313	OS, D	1975	E	An open storage area with possible drums is about 700 feet northeast of Bldg 673.	SAIC 187 EPA 248	None	3	FI	NFI (3)	NFI	
SAIC 314	DG	1975	E	Disturbed ground is about 1000 feet northeast of Bldg 673	SAIC 161, SAIC 215 SAIC 287, SAIC 542	None	1	FI	NFI (3)	FI	Disturbed ground, grading, and trenching were observed in this area. The EBS indicates that hazardous waste from Desert Storm activities was stored in this area. This area was also used as a bivouac area for Boy Scout Jamborees.
SAIC 328	ST, WS, OS	1975	E	Stains, wet soil, and an open storage area are at the northwest corner of Site 19.		IRP Site 19	N/A	NFI	NFI	NFI	
SAIC 350	WS, ST, LQ	1976	E	Wet soil, stains, and possible liquid are in Site 6		IRP Site 6	N/A	FI	FI (2)	NFI	Two of the four features (WS and LQ) identified in this anomaly are contained within IRP Site 6. The other two features (ST and WS) are related to the engine testing areas adjacent to IRP Site 6.
SAIC 351	WS, LQ, UO	1976	E	Wet soil and northwesterly flowing liquid are about 400 feet east of Bldg. 457. Unidentified object are also present.	Several EPAs	None	2	FI	NFI (3)	NFI	
SAIC 354	WS, LQ	1976	E	Wet soil and liquid apparently flowing to the southeast are adjacent to the green of the 11th hole at the golf course.		None	2	NFI	NFI	NFI	Probably related to irrigation.
SAIC 364	MMLT	1977	E	Light-toned mounded material is at the southerly end of the angular taxiway extension in Site 6.		None	6	FI	FI (2)	NFI	
SAIC 365	D	1977	E	Probable drums a Site 19.	Site 19	None	N/A	NFI	NFI	NFI	
SAIC 366	WS, LQ	1977	E	Vegetation, or maybe wet soil and liquid, is noted about 400 feet easterly of Bldg 457.	SAIC 93, SAIC 165, SAIC 187, SAIC 414 SAIC 451, SAIC 553, SAIC 555, EPA 206 EPA 207, EPA 221, EPA 244, EPA 245	None	2	FI	NFI (3)	NFI	This anomaly is part of a large open storage area with several SWMUs and USTs at the east corner El Toro Blvd. and E. Marine Way. Staining and liquid are observed in aerial photographs from several different years.

**TABLE 2**  
**SAIC Aerial Photograph Anomaly List**

SAIC 399	LQ	1978	E	Liquid is apparently flowing westerly on the aircraft parking apron from Bldg. 371 and between Bldg 371 and 456. There is a depression adjacent to Bldg 456 that may be a sump area for liquids or a storm drain.	EPA 219	SWMU 131	2	FI	NFI (3)	NFI	
SAIC 413	DG	1979	E	Disturbed ground (about 200 by 250 feet) is about 300 feet southwest of Perimeter Road and southeast of Magazine Road.	SAIC 312 EPA 235	None	1	FI	FI (2)	NFI	
SAIC 414	OS	1979	E	The open storage area northeast of N 3rd Street and east of N. Marine Way remains in use.	SAIC 93, SAIC 165, SAIC 187, SAIC 366 SAIC 451, SAIC 553, SAIC 555, EPA 206 EPA 207, EPA 221, EPA 244, EPA 245	SWMU 264	3	FI	NFI (4)	NFI	This anomaly is part of a large open storage area with several SWMUs and USTs at the east corner El Toro Blvd. and E. Marine Way. Staining and liquid are observed in aerial photographs from several different years.
SAIC 415	ST, WS, OS	1979	E	Stains or wet soil are adjacent to the open storage area near the south side of El Toro Blvd, about 200 feet east of Z Street.	SAIC 92, SAIC 162, SAIC 186 SAIC 250, EPA 209, EPA 214 EPA 220, EPA 222	None	2	FI	NFI	NFI	This area (DRMO Storage Yard No. 2) has staining, wet soil, or storage area anomalies. This area was investigated as SWMU 48 during the RCRA Facility Assessment (RFA).
SAIC 416	IM, FA, EX, TR	1979	E	A large impoundment and fill area (500 by 600 feet) is about 1100 feet southwest of Perimeter Road and Magazine Road. The northwest portion appears to be a fill area with facilities under construction. The remainder is excavations creating impoundments.		None	5	FI	FI	NFI	The vicinity of this anomaly was often used as a lay-down area for various construction projects. Large stockpiles asphalt and other construction materials may have been stored in this area.
SAIC 451	OS, D	1981	E	An open storage area with probable drums is northeast of Bldg 673.	SAIC 93, SAIC 165, SAIC 187, SAIC 366 SAIC 414, SAIC 553, SAIC 555, EPA 206 EPA 207, EPA 221, EPA 244, EPA 245	SWMU 264	3	FI	NFI (4)	NFI	This anomaly is part of a large open storage area with several SWMUs and USTs at the east corner El Toro Blvd. and E. Marine Way. Staining and liquid are observed in aerial photographs from several different years.
SAIC 452	ST	1981	E	A stained, rectangular shaped area about 10 by 20 feet is adjacent to the dirt road that extends southwesterly from the vicinity of Bldg. 673.		None	2	FI	FI	NFI	
SAIC 456	LQ	1983	E	A southwesterly flow of liquid goes across a parking area and towards Bldg 454.		None	2	NFI	NFI	NFI	
SAIC 457	LQ	1983	E	A southwesterly flow of liquid is between Buildings 461 and 462.		None	2	FI	NFI (3)	NFI	
SAIC 489	TR, ST, WS	1984	E	A trench and stains, or wet soil, are adjacent to the angular taxiway extensions, about 250 and 400 feet easterly from Site 19.	SAIC 166, SAIC 253, SAIC 489, SAIC 532 SAIC 533, EPA 210, EPA 226	None	1	FI	FI (2)	NFI	Part of an area northeast of Site 19 with several staining and liquid anomalies.
SAIC 490	IM, LQ	1984	E	An impoundment with liquid is east of Perimeter Road and Magazine Road.	SAIC 312 EPA 235 EPA 242	None	5	FI	FI (2)	NFI	This area was noted to contain an impoundment and disturbed ground. No visible evidence of an impoundment or disturbed ground was found during the site visit. Historical maps reviewed did not reveal evidence of impoundments in this area.
SAIC 530	VT	1988	E	A vertical tank is about 100 feet east of Bldg 442. Another about 200 feet west of Bldg442, and another at the north side of Bldg 1791.		None	4	FI	NFI (4)	NFI	
SAIC 531	TR, LQ	1988	E	A trench partially liquid filled is in the west portion of Site 19.		Adjacent to IRP Site 19	N/A	NFI	NFI	NFI	
SAIC 532	WS, LQ	1988	E	Areas of wet soil and liquids are about 400 feet east-northeast of Bldg 617 (Site 19).	SAIC 53, SAIC 166, SAIC 253 SAIC 533, EPA 210, EPA 226	None	2	NFI	NFI	NFI	Part of an area northeast of Site 19 with several staining and liquid anomalies.
SAIC 533	LQ	1988	E	Probable liquid is adjacent to Bldg 617 at Site 19.	SAIC 53, SAIC 166, SAIC 253 SAIC 532, EPA 210, EPA 226	None	2	FI	FI (2)	NFI	Part of an area northeast of Site 19 with several staining and liquid anomalies.
SAIC 542	GR	1988	E	A light colored pad was constructed west of Perimeter Road and Magazine Road.	SAIC 161, SAIC 215 SAIC 287, SAIC 314	None	1	NFI	NFI	FI	Disturbed ground, grading, and trenching were observed in this area. The EBS indicates that hazardous waste from Desert Storm activities was stored in this area. This area was also used as a bivouac area for Boy Scout Jamborees.
SAIC 553	MMLT, DG	1992	E	Light-toned mounded material and disturbed ground area are about 400 and 600 feet east of Bldg 673 respectively.	SAIC 93, SAIC 165, SAIC 187, SAIC 366 SAIC 414, SAIC 451, SAIC 555, EPA 206 EPA 207, EPA 221, EPA 244, EPA 245	None	1	NFI	NFI	NFI	This anomaly is part of a large open storage area with several SWMUs and USTs at the east corner El Toro Blvd. and E. Marine Way. Staining and liquid are observed in aerial photographs from several different years.
SAIC 554	TR	1992	E	A trench is about 600 feet southeast of Bldg 673.		None	1	FI	NFI (3)	NFI	
SAIC 555	LQ	1992	E	Liquid is apparently flowing west from the northeastern end of Bldg 390.	SAIC 93, SAIC 165, SAIC 187, SAIC 366 SAIC 414, SAIC 451, SAIC 553, EPA 206 EPA 207, EPA 221, EPA 244, EPA 245	None	2	FI	NFI (3)	NFI	This anomaly is part of a large open storage area with several SWMUs and USTs at the east corner El Toro Blvd. and E. Marine Way. Staining and liquid are observed in aerial photographs from several different years.
SAIC 556	TR	1992	E	A previously noted trench at Site 19 remains open.		IRP Site 19	N/A	NFI	NFI	NFI	
SAIC 57		1946	F	No activity was noted at either Site 2 or Site 17.		IRP Sites 2 & 17		NFI	NFI	NFI	

TABLE 2  
SAIC Aerial Photograph Anomaly List

SAIC 95	EXT	1958	F	A quarry in the channel of Agua Chicon Wash at its confluence with a tributary flowing along the westerly side of Site 2	IRP Site 2	1	FI	FI (2)	NFI	
SAIC 96	GS, UO	1958	F	Minor ground scaring in the area of Site 2. Also three unidentified objects.	IRP Site 2	1	NFI	NFI	NFI	
SAIC 98	TR	1958	F	A trench in the eastern portion of Site 2.	IRP Site 2	1	NFI	NFI	NFI	
SAIC 158		1967	F	No Activity at Site 17	IRP Site 17		NFI	NFI	NFI	
SAIC 159	EXT, DG, ST, OS	1967	F	Extraction, disturbed ground, and stains at Site 2. In addition, a stain "path" in the form of a loop appears to result from liquid discharge from a moving vehicle, there is an open storage area surrounded by disturbed ground north of the landfill.	IRP Site 2	1	NFI	NFI	NFI	
SAIC 192	R	1968	F	Possible refuse at Site 17	IRP Site 17	6	NFI	NFI	NFI	
SAIC 193	GR	1968	F	Extensive grading on the ridge between Sites 2 and 17.	IRP Sites 2 & 17	1	NFI	NFI	NFI	
SAIC 194	EXT, ST, BT	1968	F	Extraction and probable stains at Site 2. Also there appears to be a light colored tank at Site 2.	IRP Site 2	1	NFI	NFI	NFI	
SAIC 195	FA, EX	1968	F	A partial filling, relative to the 1958 photograph, of the excavation in Agua Chicon Wash ( may be Borrego Canyon Wash?)	IRP Site 2	1	FI	FI (2)	NFI	This anomaly is contained within IRP Site 2.
SAIC 218	TR, LO, EX, DG	1971	F	A 600 by 70 feet trench with probable liquid at Site 2. There are also three smaller trenches and an excavation in the southern portion of the site and disturbed ground over the entire site.	IRP Site 2	1	NFI	NFI	NFI	
SAIC 219	DG, TR, MM, EX	1971	F	An area of disturbed ground with a trench, mounded material, and an excavation east of Site 2 near MCAS boundary.	None	1	FI	FI (2)	NFI	This anomaly may associated with Borrego Canyon Wash.
SAIC 222	EXT	1971	F	Site 2 remains active and Extraction from the ridge west of the landfill continues.	IRP Site 2	1	NFI	NFI	NFI	
SAIC 255	HT, OS, TR, R, LO, EX	1973	F	Possible horizontal tank is in the staging area north of Site 2, an open storage area is east of the staging area, a trench, with probable refuse and liquid at its north end, and a probable excavation are at the southeast corner of the landfill.	IRP Site 2	4	NFI	NFI	NFI	
SAIC 256	R	1973	F	Possible refuse in the central and northern portions of Site 17	IRP Site 17	6	NFI	NFI	NFI	
SAIC 263	TR, DG	1973	F	In Site 2 area there is a trench about 1400 feet east of Magazine Road, disturbed ground about 400 feet east of the trench, and a cleared staging area.	IRP Site 2	1	FI	FI (2)	NFI	
SAIC 292	TR, UO	1974	F	At Site 2, the trenches remain open and there are unidentified objects, probably containers.	IRP Site 2	1	NFI	NFI	NFI	
SAIC 315	MMLT, MMDT	1975	F	Light- and dark-toned mounded material, apparently soil, are on much of Site 17.	IRP Site 17	6	NFI	NFI	NFI	
SAIC 316	DG, TR, FA	1975	F	Site 2 is active, features such as disturbed ground, several trenches, and fill areas have been noted. Most of the area has been stripped of vegetation.	IRP Site 2	1	NFI	NFI	NFI	
SAIC 317	UO, VT	1975	F	Ten unidentified objects are on the hillside about 1000 feet east of Site 2.	IRP Site 2	6	FI	FI (2)	NFI	
SAIC 573		1976	F	No significant changes are noted at Site 2.	IRP Site 2		NFI	NFI	NFI	
SAIC 574		1976	F	No significant changes are noted at Site 17.	IRP Site 17		NFI	NFI	NFI	
SAIC 374	EX, TR, LQ	1977	F	An excavation and open trench with probable liquid are at Site 2. However, there are no significant changes at the site.	IRP Site 2	1	NFI	NFI	NFI	
SAIC 375		1977	F	No significant changes are noted at Site 17.	IRP Site 17		NFI	NFI	NFI	
SAIC 396	TR, GR, EXT	1978	F	Site 2 appears to be inactive and is becoming revegetated but the trenches remain open. Grading and quarrying of the ridge to the west continues.	IRP Site 2	1	NFI	NFI	NFI	
SAIC 398	MM, GR	1978	F	Previously noted mounded material at Site 17 has been graded. No other significant changes to Site 17.	IRP Site 17	6	NFI	NFI	NFI	
SAIC 455	TR, GR	1981	F	A large trench is within the graded area north of Site 2.	IRP Site 2	1	NFI	NFI	NFI	
SAIC 473	FA	1983	F	Portions of Site 17 have been buried.	IRP Site 17	1	NFI	NFI	NFI	
SAIC 474	GR, FA	1983	F	The quarrying operation on the ridge between Sites 2 and 17 remains active.	IRP Sites 2 & 17	1	NFI	NFI	NFI	
SAIC 479		1983	F	No significant changes noted at Site 2.	IRP Site 2		NFI	NFI	NFI	
SAIC 496	GR, EXT, FA	1984	F	Extensive grading, extraction, and filling at the ridge between the Sites 2 and 17.	IRP Sites 2 & 17	1	NFI	NFI	NFI	
SAIC 509		1987	F	No significant changes are noted at Site 17.	IRP Site 17		NFI	NFI	NFI	
SAIC 512		1987	F	Site 2 appears to be inactive.	IRP Site 2		NFI	NFI	NFI	

**TABLE 2**  
**SAIC Aerial Photograph Anomaly List**

SAIC 521	B	1987	F	There is a new building at the southern edge of the magazine area.	IRP Site 2	6	NFI	NFI	NFI	
SAIC 534	VT	1988	F	A probable vertical tank in the staging area north of Site 2	IRP Site 2	4	FI	FI (2)	NFI	This anomaly is only identified on this aerial photograph.
SAIC 535	FA, GR, EXT	1988	F	The northeastern area of Site 17 continues to be buried by the grading and extraction operations on the ridge to the east.	IRP Site 17	1	FI	FI (2)	NFI	
SAIC 566	EXT	1992	F	No significant changes are noted at Sites 1, 2, or 17. Extraction from the area between Sites 2 and 17 appears to have ceased. Vegetation has been stripped from Site 2.	IRP Site 2	1	NFI	NFI	NFI	

**Notes:**

<sup>a</sup> = ANOMALY NUMBER - These numbers were assigned to each anomaly by SAIC. The numbers for the USEPA anomalies are derived from Appendix A of the SAIC Aerial Photograph Assessment.

<sup>b</sup> = TYPE OF ANOMALY - This refers to the designation(s) given to each anomaly.

B - Building	IM - Impoundment
D - Drums	LQ - Liquid
DB - Debris	LT - Light-toned
DG - Disturbed Ground	M - Material
DK - Dark Toned	MM - Mounded Material
EX - Excavation	OS - Open Storage
EXT - Extraction	R - Refuse
FA - Fill Area	ST - Stain
FBR - Fuel Bladder Revetment	TR - Trench
GR - Graded Area	UO - Unidentified Object
GS - Ground Scar	VT - Vertical Tank
HT - Horizontal Tank	WS - Wet Soil

<sup>c</sup> = YEAR - The year(s) of the aerial photograph that the anomaly was identified on.

<sup>d</sup> = STUDY AREA - Refers to the area (A-F) of MCAS El Toro that the anomaly is located. The designations are derived from the USEPA Site Analysis Report. These study areas are illustrated on Figure 1.

<sup>e</sup> = ANOMALY DESCRIPTION - The description of the anomaly as presented in the SAIC Aerial Photograph Assessment.

<sup>f</sup> = CORRESPONDING ANOMALY(S) - This column lists other anomalies that appear to be related to this anomaly.

<sup>g</sup> = NEARBY INVESTIGATIONS - This column lists the environmental investigations that have been performed within or adjacent to an anomaly.

<sup>h</sup> = CATEGORY - Anomaly descriptions are separated into six categories as follows:

- 1 - Trenches, excavations, disturbed ground, graded area
- 2 - Stains, liquid, wet soil
- 3 - Open storage area, drums
- 4 - Horizontal or vertical tank, unidentified object
- 5 - Impoundments
- 6 - Mounded material, debris

N/A - This anomaly is within a IR Site boundary, is a SWMU that has been investigated, or is a feature that is known to not be of environmental concern.

<sup>i</sup> = SAIC RECOMMENDATIONS - The SAIC recommendations are presented as they appear in the SAIC Aerial Photograph Assessment (SAIC 1993).

NFI - No Further Investigation Recommended.

FI - Further Investigation Recommended.

<sup>j</sup> = EBS RECOMMENDATIONS - The EBS recommendations are presented as they appear in the Environmental Baseline Survey (Jacobs 1995).

NFI - No Further Investigation Recommended.

FI - Further Investigation Recommended.

(1) - Feature/anomaly is located off-Station. Therefore, NFI is recommended.

(2) - Feature/anomaly is located within an RI/FS site, and will be investigated in the IRP.

(3) - Aerial Photograph is not included in the SAIC report, therefore, a precise location of the feature/anomaly could not be determined by the JEG team. The feature is recommended for NFI.

(4) - Feature/anomaly is recommended for NFI based on historical information and/or analytical data collected during the IRP, RFA, and BCP.

<sup>k</sup> = DEPARTMENT OF NAVY RECOMMENDATIONS -

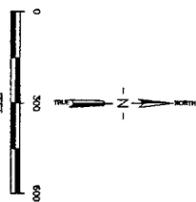
NFI - No Further Investigation Recommended

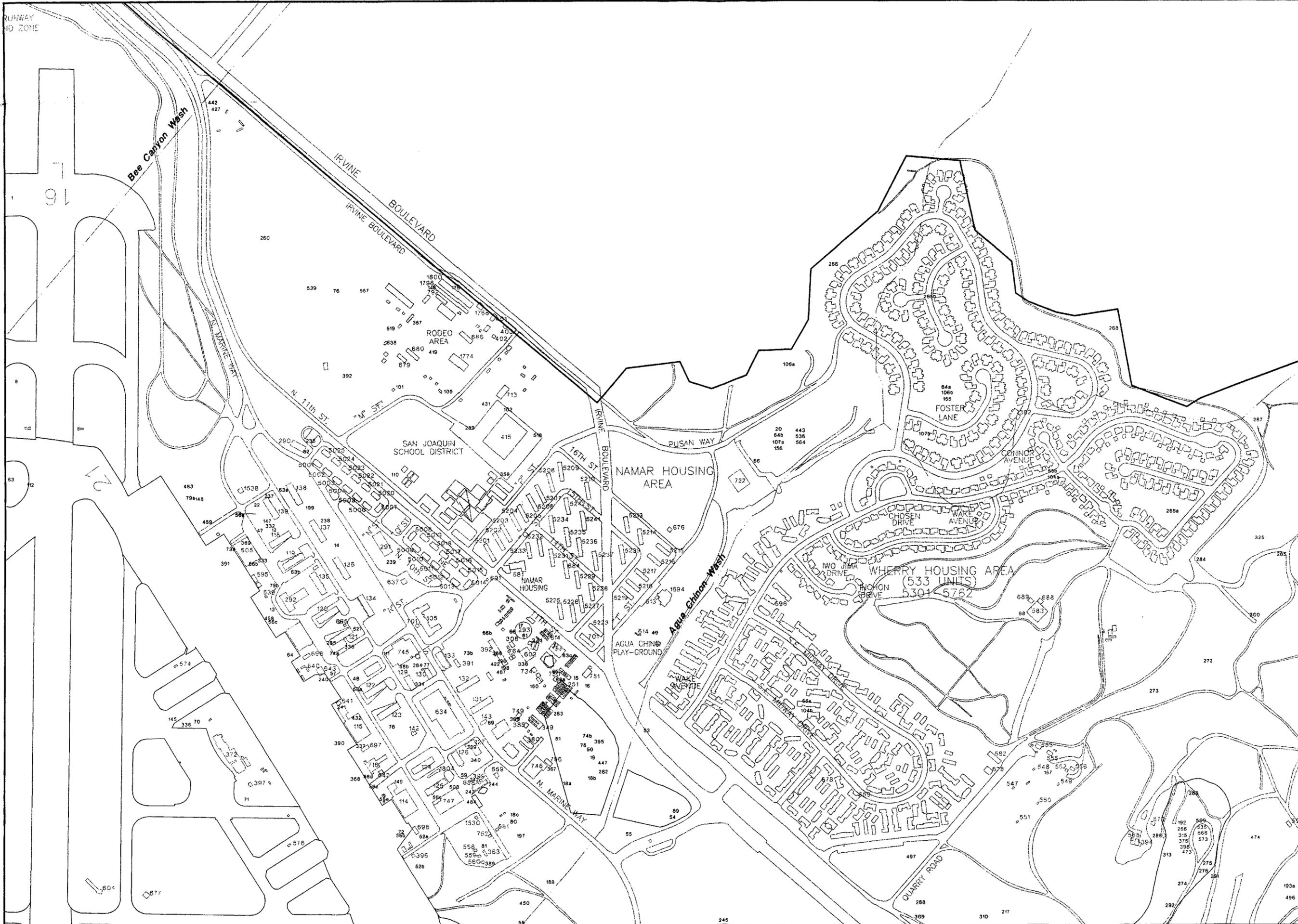
FI - Further Investigation Recommended



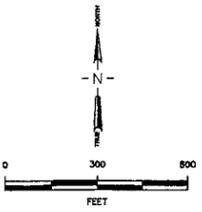
**LEGEND**

- 38 EFA ANOMALY LOCATIONS
- 30 SAND ANOMALY LOCATIONS
- BUILDING ON PAD
- IMPORTED / UNIMPROVED ROAD
- WASH ON STREAM
- RAILROAD
- MORE EFA BOUNDARY
- HP SITE BOUNDARY





- LEGEND**
- 56 EPA ANOMALY LOCATIONS
  - 30 SAIC ANOMALY LOCATIONS
  - 30 BUILDING OR PAD
  - IMPROVED / UNIMPROVED ROAD
  - AIRFIELD
  - WASH OR STREAM
  - RAILROAD
  - MCAS EL TORO BOUNDARY
  - IRP SITE BOUNDARY



Aerial Photograph Anomaly Study  
**Figure 3**  
 Aerial Photograph Anomaly Locations  
 Study Area B

MCAS, El Toro, California

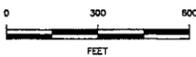
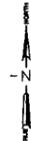
Bechtel National, Inc.  
 CLEAN II Program

Date: 1/21/99  
 File No: 07512623  
 Job No: 22214-075  
 Rev No: D



**LEGEND**

- 35 EPA ANOMALY LOCATIONS
- 30 SAG ANOMALY LOCATIONS
- [Symbol] BUILDING OR PAD
- [Symbol] IMPROVED / UNIMPROVED ROAD
- [Symbol] AIRFIELD
- [Symbol] WASH OR STREAM
- [Symbol] RAILROAD
- [Symbol] MCAS EL TORO BOUNDARY
- [Symbol] RP SITE BOUNDARY

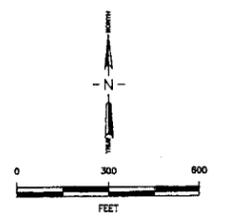


Aerial Photograph Anomaly Study  
**Figure 4**  
 Aerial Photograph Anomaly Locations  
 Study Area D

MCAS, El Toro, California



- LEGEND**
- 36 EPA ANOMALY LOCATIONS
  - 30 SACI ANOMALY LOCATIONS
  - [Symbol] BUILDING OR PAD
  - [Symbol] IMPROVED / UNIMPROVED ROAD
  - [Symbol] AIRFIELD
  - [Symbol] WASH OR STREAM
  - [Symbol] RAILROAD
  - [Symbol] MCAS EL TORO BOUNDARY
  - [Symbol] IRP SITE BOUNDARY



Aerial Photograph Anomaly Study  
**Figure 5**  
 Aerial Photograph Anomaly Locations  
 Study Area E  
 MCAS, El Toro, California

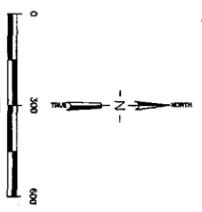
**Bectel National, Inc.**  
 CLEAN II Program

Date: 1/21/99  
 File No: 075L2625  
 Job No: 22214-075  
 Rev No: D



**LEGEND**

- 38 BVA ANOMALY LOCATIONS
- 30 BOC ANOMALY LOCATIONS
- PARKING ON PAD
- IMPROVED / UNIMPROVED ROAD
- ARFIELD
- WASH ON STREAM
- RAILROAD
- MOSS ELONG BOUNDARY
- HP SITE BOUNDARY



**Aerial Photograph Anomaly Study**  
**Figure 6**  
 Aerial Photograph Anomaly Locations  
 Study Areas C and F  
 KCAS, El Toro, California  
 Date: 1/18/83  
 File No: 078-2834  
 Job No: 2274-075  
 Rev No: C  
 Lockheed Martin  
 CLEAN II Program

SOUTHWESTNAVFACENGCOM  
Code 5BME.LMH  
1220 Pacific Highway  
San Diego, CA 92132  
Telephone: (619) 532-4162/Fax: (619) 532-4160

File: aerial4

## Exhibit 2

### Extracts from United States Environmental Protection Agency (EPA) And Science Applications International Corporation (SAIC) Reports

United States  
Environmental Protection  
Agency

Environmental Monitoring  
Systems Laboratory  
P.O. Box 93478  
Las Vegas NV 89193-3478

TS-PIC-91110  
November 1991

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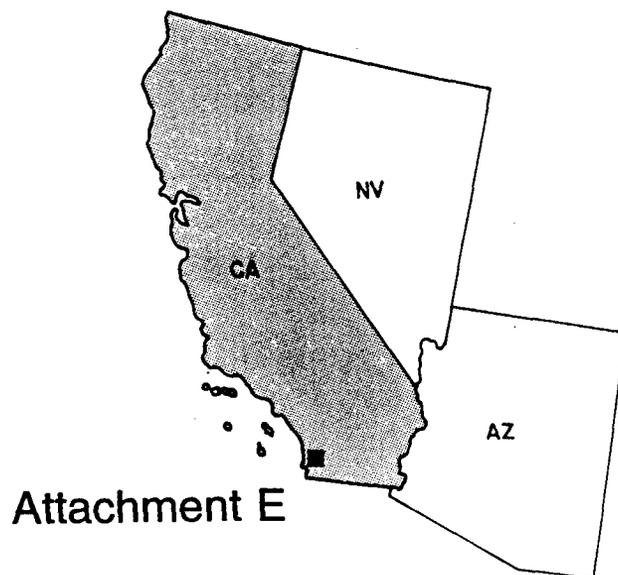
Research and Development

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 **EPA Site Analysis**  
**El Toro MCAS**  
**Orange County, California**

EXTRACTS

EPA Region 9  
and OERR



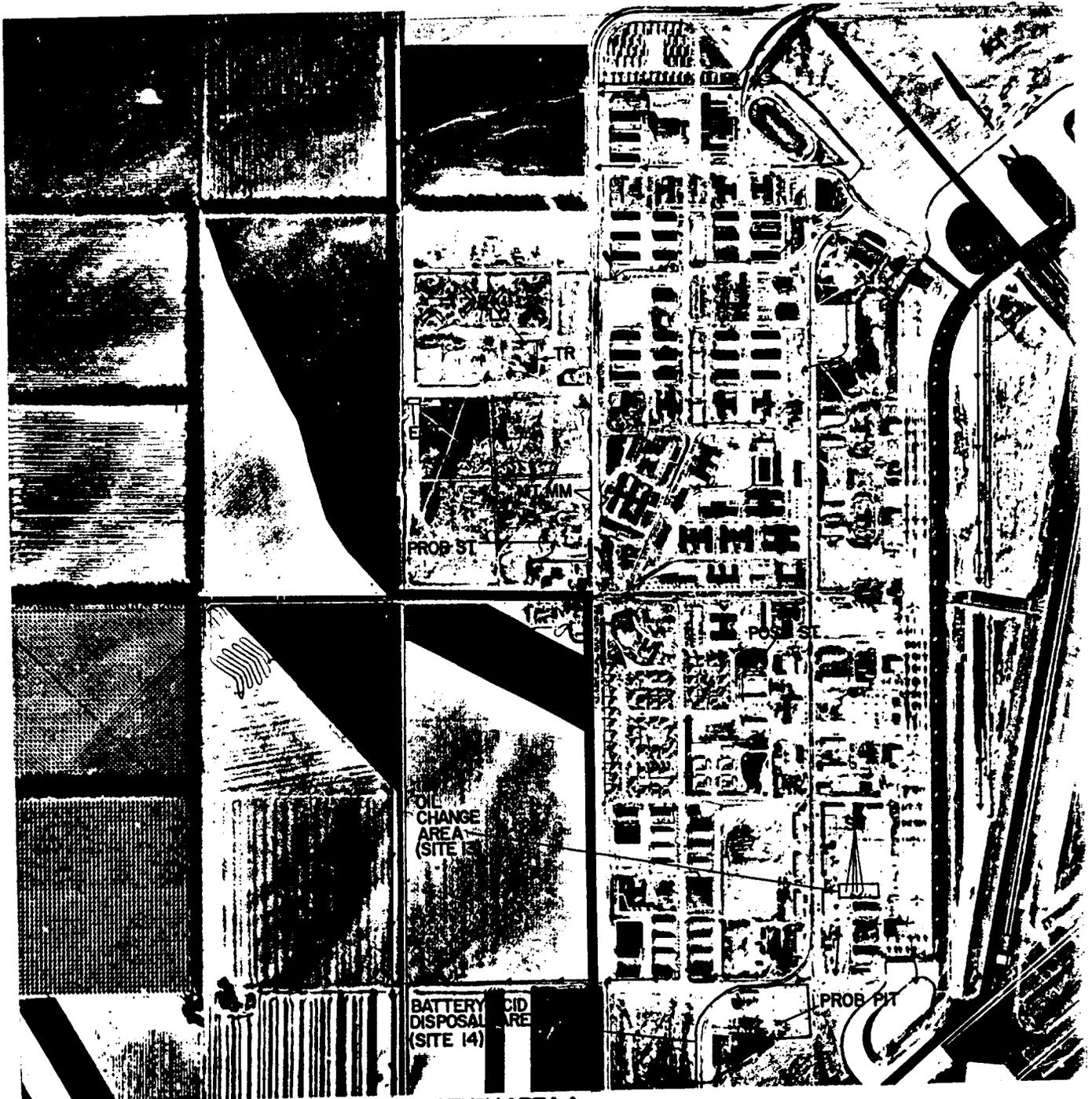
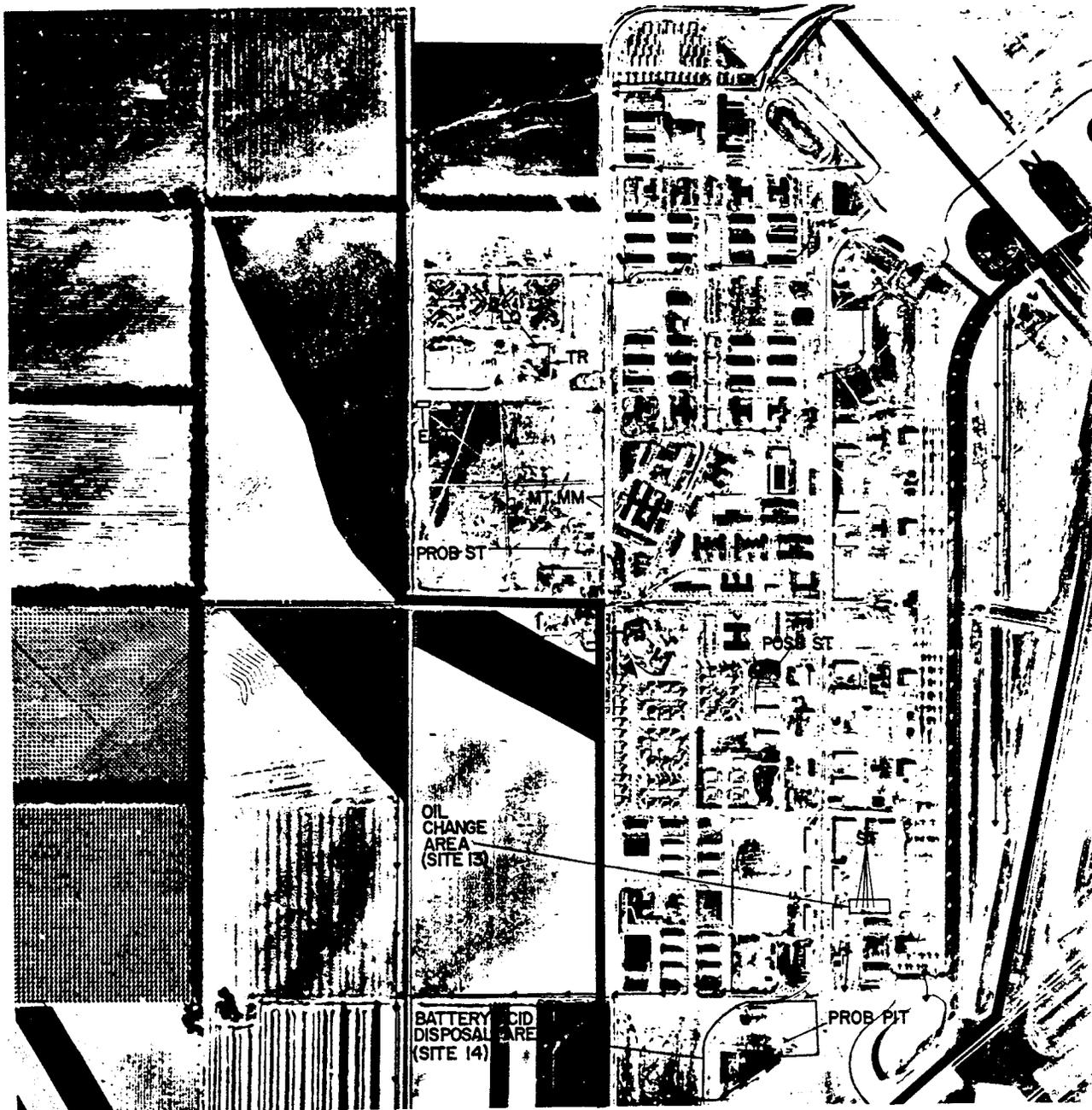


FIGURE 3  
EL TORO MCAS

STUDY AREA A  
DECEMBER 12, 1952

APPROX. SCALE 1:9,700



- LEGEND
- B - Building
  - C - Containers
  - CO - Cylindrical Object
  - D - Drums
  - DB - Debris
  - DG - Disturbed Ground
  - DK - Dark-Toned
  - EX - Excavation
  - EXT - Extraction
  - FA - Fill Area
  - FBR - Fuel Bladder Revetment
  - GR - Graded Area
  - CS - Ground Scar
  - HT - Horizontal Tank
  - IM - Impoundment
  - LDA - Liquid Disposal Area
  - LQ - Liquid
  - LT - Light-Toned
  - M - Material
  - MM - Mounded Material
  - MT - Medium-Toned
  - OS - Open Storage
  - R - Refuse
  - REV - Revegetated
  - ST - Stain
  - TR - Trench
  - UO - Unidentifiable Object
  - V - Vehicle
  - VT - Vertical Tank
  - WS - Wet Soil
- 
- Burn
  - Channelized Drainage
  - Edge of Slope
  - Feature Boundary
  - Historical Fill Area Boundary
  - Indeterminable Drainage
  - Liquid or Stain Flow Direction
  - Natural Drainage
  - Site Boundary
  - Study Area Boundary
  - - Vertical Tank

FIGURE 3  
EL TORO MCAS

STUDY AREA A  
DECEMBER 12, 1952

APPROX. SCALE 1:9,700

## AERIAL PHOTO SITE ANALYSIS

### STUDY AREA A

According to the RI/FS Site Locations Map, four RI/FS Sites are found in Study Area A. They are the Oil Change Area (Site 13), Battery Acid Disposal Area (Site 14), Suspended Fuel Tanks (Site 15), and Hobby Shop (Site 20). Collateral information states that possible soil contamination from land disposal of heavy equipment waste crankcase oil may have occurred in the Oil Change Area; and possible heavy metal, organic compound, and petroleum hydrocarbon contamination may have occurred in the Battery Acid Disposal Area from battery acids, oil wastes and paint wastes disposed on the soil. Staining was noted in the Oil Change Area from 1952 through 1980, while activity was observed in the Battery Acid Disposal Area from 1952 through 1965. No activity was apparent in the area noted as Suspended Fuel Tanks. Activity at the Hobby Shop was first observed in 1970, and the area remained active through 1991.

DECEMBER 12, 1952 (FIGURE 3)

Note direction of north arrow.

#### Oil Change Area

Staining is evident throughout the Oil Change Area.

#### Battery Acid Disposal Area

A probable pit is visible in the Battery Acid Disposal Area in the southern portion of the study area.

#### Other Findings

Liquid (LQ) within a trench (TR), an extraction area (EXT), and medium-toned (MT) mounded material (MM) are visible in the western portion of Study Area A. These activities could be related to construction, as buildings are noted in these areas in later years of photography.

B  
C  
D  
DB  
DC  
DE  
DF  
DG  
DH  
DI  
DJ  
DK  
DL  
DM  
DN  
DO  
DP  
DQ  
DR  
DS  
DT  
DU  
DV  
DW  
DX  
DY  
DZ



FIGURE 4  
EL TORO MCAS

STUDY AREA A  
SEPTEMBER 20, 1965

APPROX. SCALE 1:8,600



- LEGEND
- B - Building
  - C - Containers
  - CO - Cylindrical Object
  - D - Drums
  - DB - Debris
  - DC - Disturbed Ground
  - DK - Dark-Toned
  - EK - Excavation
  - EXT - Extraction
  - FA - Fill Area
  - FBR - Fuel Bladder Revetment
  - GR - Graded Area
  - GS - Ground Scar
  - HT - Horizontal Tank
  - IM - Impoundment
  - IDA - Liquid Disposal Area
  - LQ - Liquid
  - LT - Light-Toned
  - M - Material
  - MM - Mounded Material
  - MT - Medium-Toned
  - OS - Open Storage
  - R - Refuse
  - REV - Revegetated
  - ST - Stain
  - TR - Trench
  - UO - Unidentifiable Object
  - V - Vehicle
  - VT - Vertical Tank
  - WS - Wet Soil
- Berm
  - Channelized Drainage
  - Edge of Slope
  - Feature Boundary
  - Historical fill Area Boundary
  - Indeterminable Drainage
  - Liquid or Stain Flow Direction
  - Natural Drainage
  - Site Boundary
  - Study Area Boundary
  - - Vertical Tank

FIGURE 4  
EL TORO MCAS

STUDY AREA A  
SEPTEMBER 20, 1965

APPROX. SCALE 1:8,600

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SEPTEMBER 20, 1965 (FIGURE 4)

Oil Change Area

The boundary of the Oil Change Area has been extended south and east to include a heavily stained area near a building (not annotated). A stain is evident in the same area as those noted in 1952.

Battery Acid Disposal Area

Two possible pits and a possible stain are noted in this disposal area. No activity is visible in the Battery Acid Disposal Area throughout the remainder of this analysis, and it will not be discussed further.

Other Findings

Possible liquid is noted at the end of a liquid or stain flow. An area of disturbed ground (DG) is visible in the east central portion of the study area.

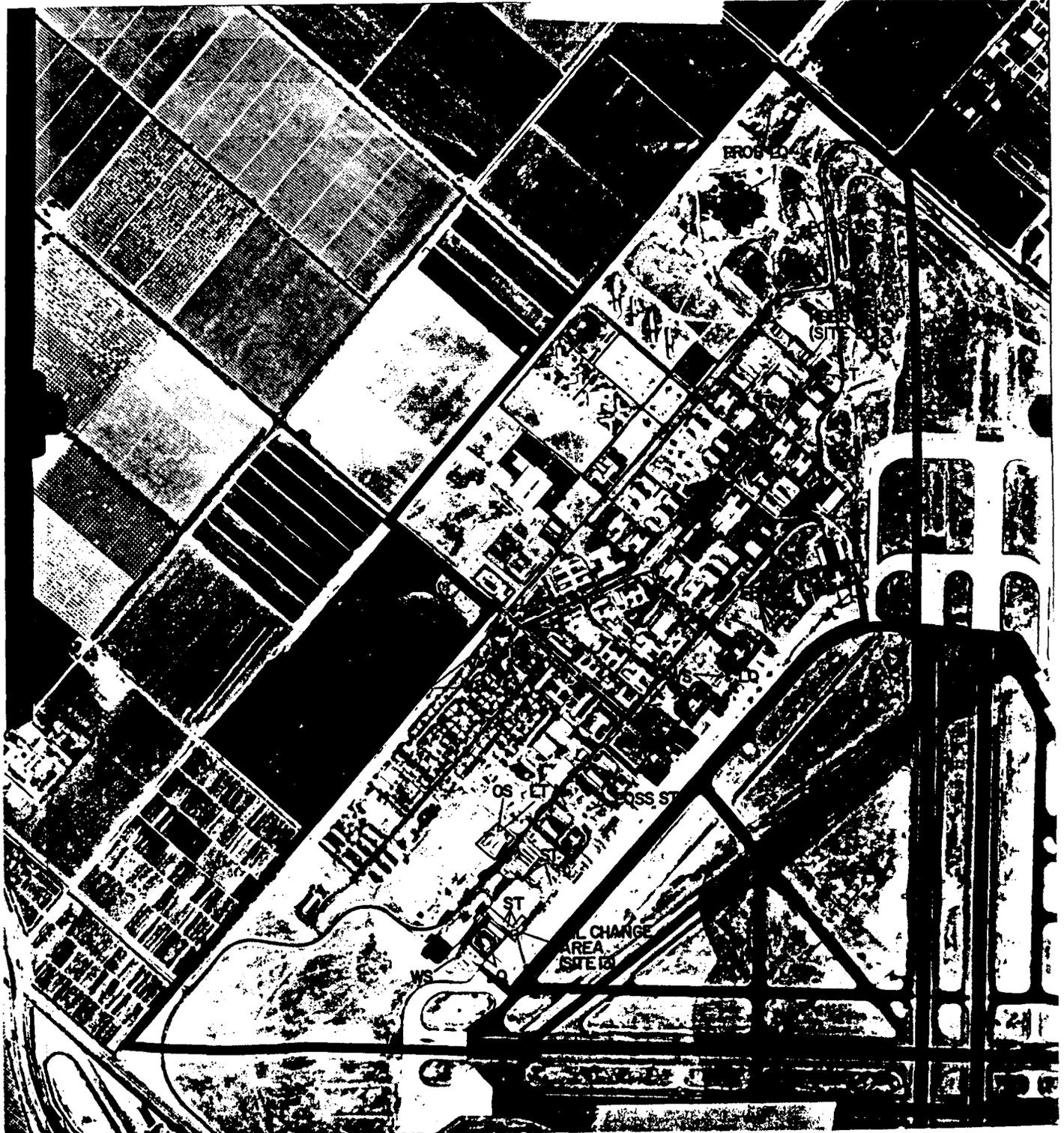
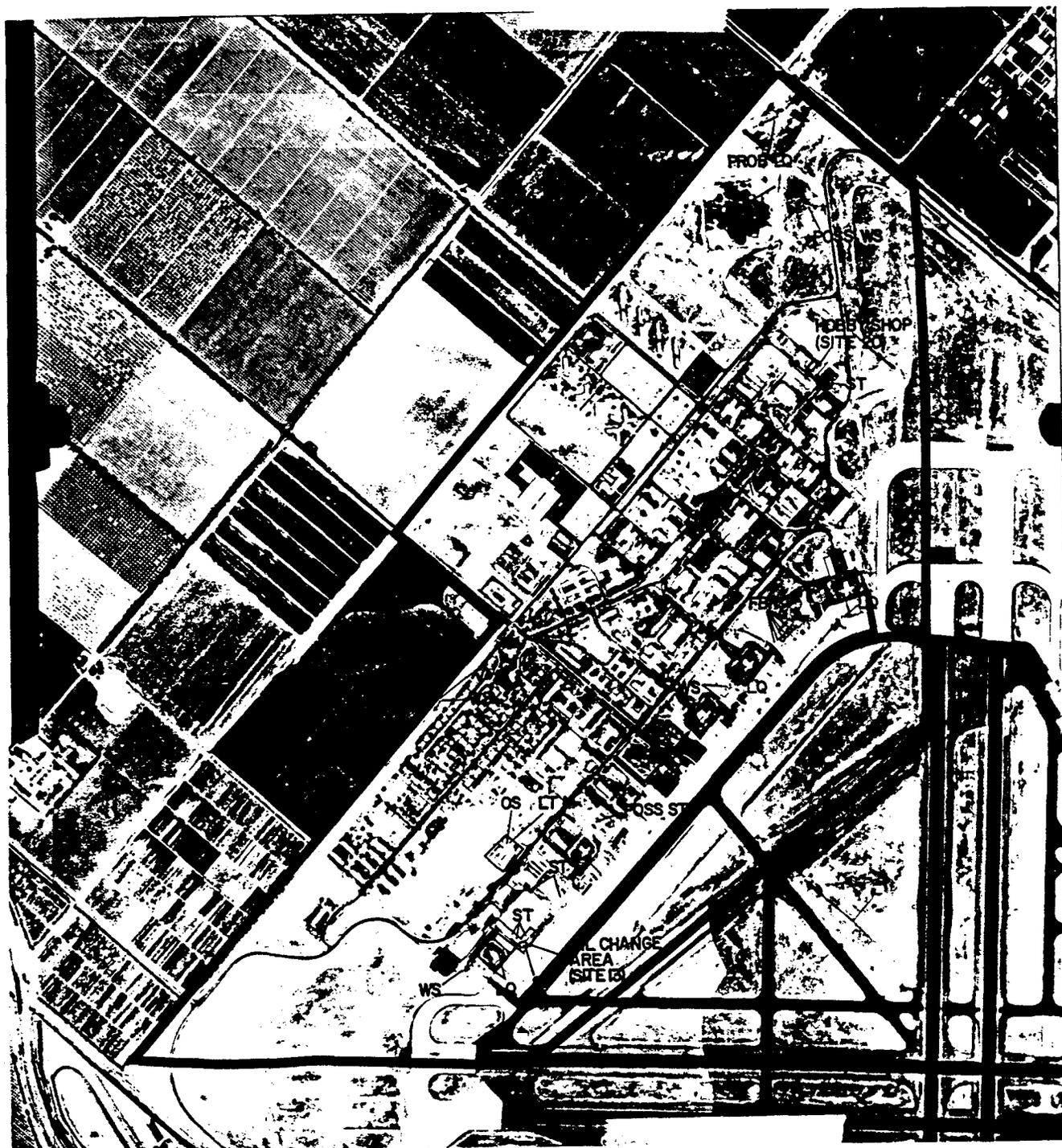


FIGURE 5  
EL TORO MCAS

STUDY AREA A  
JUNE 28, 1970

APPROX. SCALE 1:7,700



LEGEND

- B - Building
  - C - Containers
  - CO - Cylindrical Object
  - O - Cruss
  - DB - Debris
  - DC - Disturbed Ground
  - DK - Dark-Toned
  - EX - Excavation
  - EXT - Extraction
  - FA - Fill Area
  - FBR - Fuel Bladder Revetment
  - CR - Graded Area
  - GS - Ground Scar
  - HT - Horizontal Tank
  - IM - Impoundment
  - IDA - Liquid Disposal Area
  - LO - Liquid
  - LT - Light-Toned
  - M - Material
  - MM - Mounded Material
  - MT - Medium-Toned
  - OS - Open Storage
  - R - Refuse
  - REV - Revegetated
  - ST - Stain
  - TR - Trench
  - UO - Unidentifiable Object
  - V - Vehicle
  - VT - Vertical Tank
  - WS - Wet Soil
- 
- Berm
  - Channelized Drainage
  - Edge of Slope
  - Feature Boundary
  - Historical Fill Area Boundary
  - Indeterminable Drainage
  - Liquid or Stain Flow Direction
  - Natural Drainage
  - Site Boundary
  - Study Area Boundary
  - - Vertical Tank

FIGURE 5  
FI. TORO MCAS

STUDY AREA A  
JUNE 28, 1970

APPROX. SCALE 1:7,700

JUNE 28, 1970 (FIGURE 5)

Oil Change Area

A heavily stained area is still evident in the southeastern portion of the area. Additional stains are apparent along the northern boundary of the area.

Hobby Shop

An L-shaped building is visible in this area. Liquid/stain flow marks are visible near the building. An open channelized drain is located adjacent to the building and the liquid/stain flow marks. No further activity is noted at this site until 1991 (see Figure 8).

Other Findings

Probable liquid is noted within a liquid/stain flow in the northern portion of the study area. Wet soil (WS) and possible wet soil are also visible in that portion of the study area. Two areas of liquid (adjacent to liquid/stain flows), wet soil and six fuel bladder revetments (FBR) are visible in the east central portion of the study area. The revetments (not annotated) appear to be made of earthen material and are empty, except for liquid (not annotated) in the third revetment from the north. An area of open storage (OS) with light-toned (LT) material (M) is seen in the south end of Study Area A. Liquid visible within, and wet soil visible at the end of liquid/stain flows are also noted in this area. A vehicle (V) and wet soil with a liquid/stain flow are seen in the west central portion of the study area.

August 8, 1970

No apparent changes are noted from June 28, 1970 to this date.

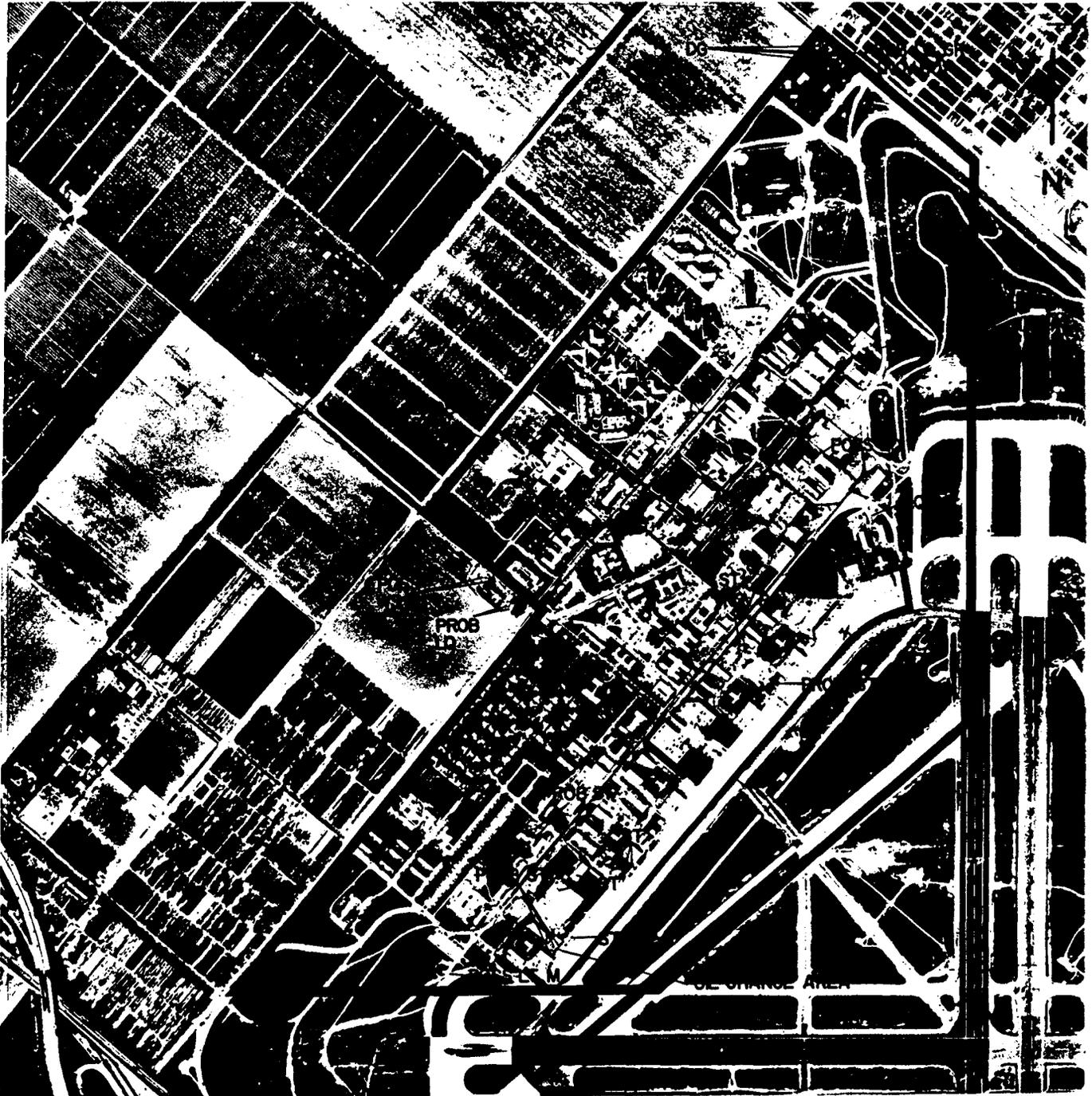
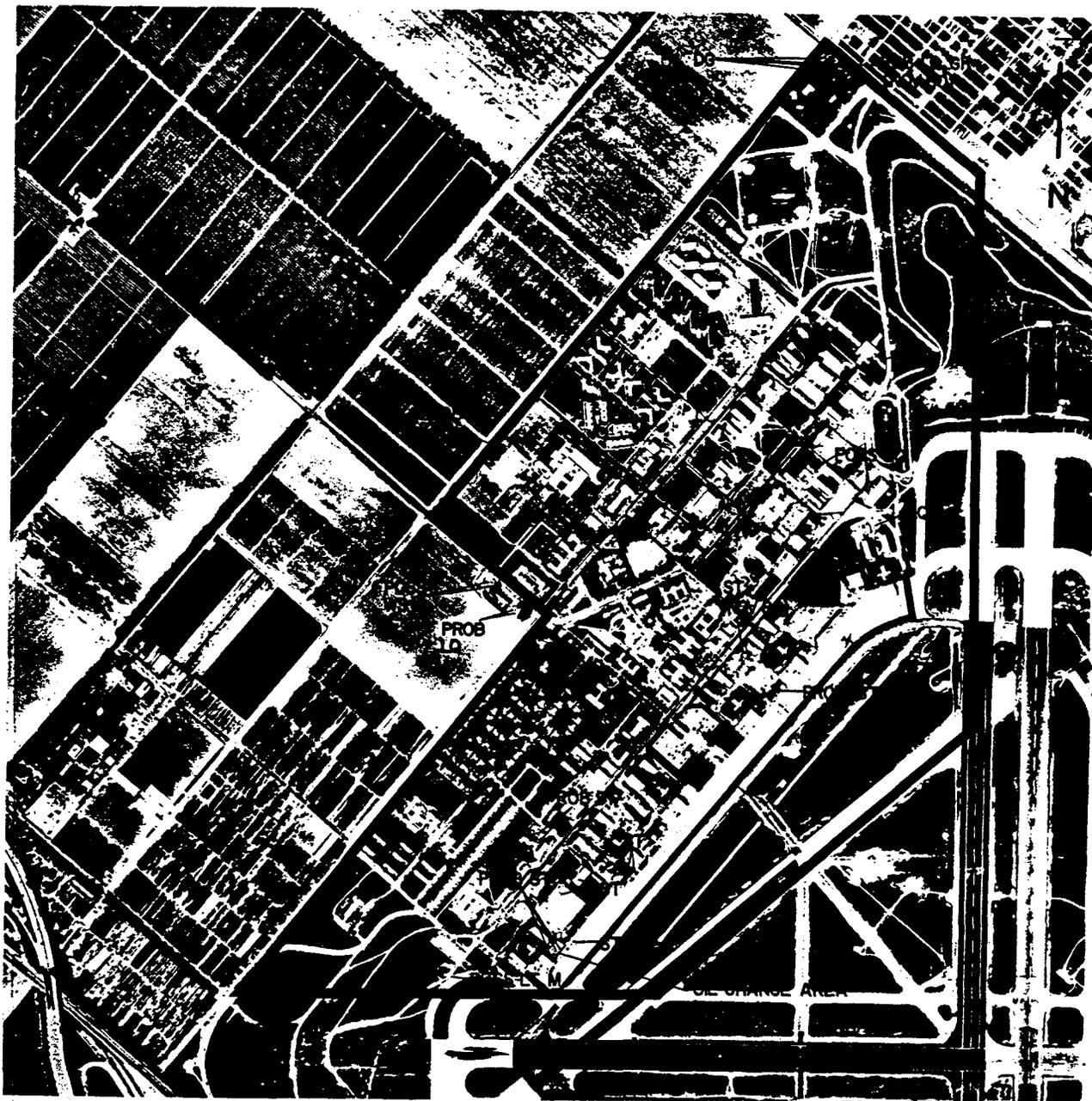


FIGURE 6  
EL TORO MCAS

STUDY AREA A  
FEBRUARY 25, 1980

APPROX. SCALE 1:11,700



- LEGEND
- B - Building
  - C - Containers
  - CO - Cylindrical Object
  - D - Drums
  - DB - Debris
  - DC - Disturbed Ground
  - DK - Dark-Toned
  - EK - Excavation
  - EXT - Extraction
  - FA - Fill Area
  - FBR - Fuel Bladder Revetment
  - GR - Graded Area
  - GS - Ground Scar
  - HT - Horizontal Tank
  - IM - Impoundment
  - IDA - Liquid Disposal Area
  - LQ - Liquid
  - LT - Light-Toned
  - M - Material
  - MM - Mounded Material
  - MT - Medium-Toned
  - OS - Open Storage
  - R - Refuse
  - REV - Revegetated
  - ST - Stain
  - TR - Trench
  - UD - Unidentifiable Object
  - V - Vehicle
  - VT - Vertical Tank
  - WS - Wet Soil
- Berm
  - Channelized Drainage
  - Edge of Slope
  - Feature Boundary
  - Historical Fill Area Boundary
  - Indeterminable Drainage
  - Liquid or Stain Flow Direction
  - Natural Drainage
  - Site Boundary
  - Study Area Boundary
  - - Vertical Tank

FIGURE 6  
EL TORO MCAS

STUDY AREA A  
FEBRUARY 25, 1980

APPROX. SCALE 1:11,700



FEBRUARY 25, 1980 (FIGURE 6)

The November 1980 aerial photography was not reproduced for this report due to the lack of significant changes in features. However, any significant findings visible in November 1980 but not seen in February 1980 are annotated and discussed with Figure 6.

Oil Change Area

Three probable stains are visible in the southeastern portion of the Oil Change Area, where a heavily stained area was noted in 1970. No further significant activity is noted at the Oil Change Area; it will no longer be discussed.

Other Findings

Disturbed ground is visible in the northwest corner of the study area. In November 1980 this area is graded (GR) and contains probable liquid. Two areas of light-toned mounded material are visible in the east central portion of the study area. Possible wet soil and probable liquid are visible outside Area A along the western edge of the study area.

A100050 000495

# EXTRACTS

Final Report  
Aerial Photograph Assessment  
MCAS El Toro  
Contract No. N68711-91-D-4658  
Delivery Order 0002  
SAIC Project No. 01-0892-02-0817

Submitted to:

Naval Facilities Engineering Command  
Southwest Division  
1220 Pacific Highway, Room 18  
San Diego, CA 92132-5181

Submitted by:

Science Applications International Corporation  
Engineering Sciences Division  
10260 Campus Point Drive, MS F1  
San Diego, CA 92121

October 25, 1993

Aerial Photographic Interpretation  
 MCAS El Toro  
 Santa Ana, California

1946  
 Figure 2

Sheet 1 of 1  
 December 29, 1946  
 Photo Number GS-CP-8-100  
 Source:  
 U.S. Geological Survey

Prepared for:  
 Southwest Division  
 Naval Facilities Engineering Command  
 Contract N68711-92-D-4658

LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
B	Building	IM	Impoundment
D	Drums	LQ	Liquid
DB	Debris	LT	Light-Toned
DG	Disturbed Ground	M	Material
DK	Dark-Toned	MM	Mounded Material
EX	Excavation	OS	Open Storage
EXT	Extraction	R	Refuse
FA	Fill Area	ST	Stain
FBR	Fuel Bladder	TR	Trench
	Revetment	UO	Unidentified Object
GR	Graded Area	VT	Vertical Tank
GS	Ground Scar	WS	Wet Soil
HT	Horizontal Tank		



2000' 0 2000' 4000'  
 1" = 2000'

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 International Corporation  
 An Employee-Owned Company



## 2.1 1946 PHOTOGRAPHS

FIGURE: 2  
DATE: 29 DECEMBER 1946  
PHOTOGRAPH: GS-CP-8-100

- c 1. An excavation (EX) about 400 feet wide by 500 feet long is noted beneath the present threshold area of Runway 16L. The purpose of the excavation is unknown, but may be an early, undocumented disposal area. The site history, or the site itself, should be investigated to determine if potential contaminants were disposed of in the excavation.
- c 2. A fill area (FA) is located immediately west of the excavation (EX) discussed in the previous comment. The area appears to contain spoil material from the excavation. No additional investigation of the fill material is recommended at this time.
- c 3. A circular graded (GR) area about 300 feet in diameter is located near the present Auto Hobby Shop (Building 625). Along the western border of the area is a dark-toned mound (MMDT) of unknown composition, but may be soil and vegetation debris from the grading. No additional investigation is recommended at this time.
- c 4. Farm buildings (B) and a possible excavation (EX) are located on Irvine Boulevard, north of the activity. The buildings may contain fuel, solvents, pesticides, fertilizers, and other potential contaminants; the excavation may have been used to dispose of these materials. No additional investigation is recommended at this time, unless contamination is detected near, or downgradient of the site, in areas of interest to the IR program.
- c 5. A vertical tank (VT) is noted at N 6th Street and D Street. This is probably Building 222 (Elevated Water Tank). No additional investigation is recommended at this time.
- c 6. There is an excavation (EX) at the present intersection of N 7th Place and K Street. There appears to be wet soil (WS) or liquid (LQ) extending into the excavation from a light-colored building at the edge of the aircraft parking apron. The site should be investigated for past use as a possible disposal area.
- c 7. There are stains (ST) adjacent to the aircraft parking apron at N 6th Place and K Street, and at N 4th Place and K Street. Additional investigation of these sites is recommended.
- c 8. A drainage channel (EX) with probable liquid (LQ) extends from the aircraft parking apron near the approach end of Runway 21 and into a drainage ditch near the approach end of Runway 16R. The channel probably controls runoff from the apron area, and may convey contaminated water. Additional investigation is recommended.

c 9. Farm buildings (B) are noted adjacent to Trabuco Road, near Gate No.1. The buildings may contain fuel, solvents, pesticides, fertilizers, and other potential contaminants; the excavation may have been used to dispose of these materials. No additional investigation is recommended at this time, unless contamination is detected near, or downgradient of the site, in areas of interest to the IR program.

c 10. A large quarry (EXT) with apparent support buildings (B) and stains (ST) are located northwesterly of the present residential area of the activity. The buildings may be the site of fuel, oil and solvent use and storage. No additional investigation is recommended at this time, unless contamination is detected near, or downgradient of the site, in areas of interest to the IR program.

c 11. Farm buildings (B) are located adjacent to Irvine Boulevard, southwest of the quarry. The buildings may contain fuel, solvents, pesticides, fertilizers, and other potential contaminants; the excavation may have been used to dispose of these materials. No additional investigation is recommended at this time, unless contamination is detected near, or downgradient of the site, in areas of interest to the IR program.

c 12. There are stains (ST) adjacent to the aircraft parking apron in the vicinity of the present site of Building 605, near N 8th Street and M Street. Additional investigation of the site is recommended.

c 13. There are soil stains (ST) in the area southwest of Building 292, near N 8th Street, between N Street and M Street. The stains appear to result from flowing liquids. Additional investigation is recommended.

c 14. An open storage (OS) area on the northerly side of Building 136, between N 9th Street and North Marine Way, and between N Street and O Street, may contain drums (D). Additional investigation of the site is recommended.

c 15. There is an open trench (TR) about 500 feet southeast of the Pumphouse/Water Reservoir. There appears to be liquid (LQ) in the northerly portion of the trench and possible refuse (R) in the southerly portion. The trench does not appear to have been recognized during earlier investigations, but it occurs within the present field investigation area of the Original Landfill (Site 3). Additional investigation may be advisable.

b 16. Light-and dark-toned mounded material (MMLT and MMDT) occur on the easterly side of the trench (TR) noted in the previous comment. The materials are unidentified, but may be construction debris. The areas appears to extend beyond the limits of the present IR program field investigation. Expansion of the investigation area is advised.

a 17. Vertical tank (VT) is Tank 293, Water Reservoir. No additional investigation is recommended.

c 18. There is a trench (TR) and fill area (FA) about 1000 feet south of Tank 293 (Water Reservoir). The trench is oriented nearly east-west, and is about 900 feet long. Spoil material (FA) extends about 500 feet to the west, along the trench alignment. There is a large area of disturbed ground (DG) south of the trench. It should be verified that the trench is wholly contained by the present IR program field investigation for the Original Landfill (Site 3).

b 19. There is a large area of stained (ST) soil in the vicinity of the Original Landfill (DG). The Site 3 investigation appears to encompass the area; no additional investigation is recommended at this time.

→ c 20. There are three areas of apparent extraction (EXT) at the mouth of Agua Chinon Wash. These areas may have been used for waste disposal. Additional investigation is recommended if contamination is detected near, or downgradient of the site, in areas of interest to the IR program.

c 21. An open storage (OS) area on the northwest side of Building 120, near N 8th Street and O Street, contains possible drums (D). Additional investigation is recommended.

c 22. Probable soil stains (ST) occur in the southwestern portion of Tank Farm No. 4, near N 8th Street and O Street. Additional investigation is recommended.

a 23. There are stains (ST): adjacent to the aircraft parking apron about 200 feet northeast of Building 12; at S 1st Street and K Street; and between Buildings 10 and 11, on S 4th Place.

c 24. Seven (7) possible vertical tanks (VT) are noted on the north side of Trabuco Road, west of Gate No. 1. These may be silos, however, the existence and use of the suspected tanks should be verified, and if necessary, the area investigated.

c 25. There is an open storage (OS) area, perhaps related to construction activities, between F and G Streets and S 1st and S 3rd Streets. If construction-related, the site may have contained a variety of paints, solvents, and other potential contaminants. Additional investigation is advised.

c 26, a 27, and c 28. These sites are located on the northwesterly sides of Buildings 25, 27, 29, and 31 between S 5th and S 8th Streets and G Street and West Marine Avenue. The area contains open storage (OS) areas with possible drums (D), light- and dark-toned mounded material (MMLT and MMDT), unidentified materials, and unidentified objects (UO) that may be mounds or drums. Additional investigation of these areas is recommended.

a 29. There appears to be stained (ST) soil on the southwest side of Building 241, near S 5th Street and West Marine Way. Additional investigation is recommended.

c 30. An open storage (OS) area with possible drums (D) is located on the southwest side of Building 246, near S 8th Street and West Marine Way. Additional investigation is recommended.

b 31. There is stained (ST) soil on the southeast side of Building 246, near S 8th Street and West Marine Way. Additional investigation is recommended.

c 32. A probable vertical tank (VT) is located about 400 feet southwest of Building 31, near S 8th Street and West Marine Way. There also appears to be soil staining (ST) or wet soil (WS) at the base of the tank. Verification of the tank and possible contents is recommended.

c 33. There is a probable vertical tank (VT) on the southwest side of Building 249, near S 8th Street and D Street. Verification of the tank and its possible contents is recommended.

c 34. A probable vertical tank (VT), possibly Tank 155, is located near S 11th Street and L Street. Verification of the tank and its contents is recommended.

c 35. An unidentified object (UO), possibly a vertical tank (VT) or mound (M) is noted on the north side of Perimeter Road, about 800 feet northwest of Bee Canyon Wash. Additional investigation is recommended.

c 36. There appears to be a vertical tank (VT) near the railroad tracks at the Bee Canyon Wash crossing. Verification of the tank and its contents is recommended.

a 37. There is liquid (LQ) flowing southwesterly from the southwest side of Building 132, near S 14th Street, between M and N Streets. Additional investigation is recommended.

c 38. There appears to be a vertical tank (VT) adjacent to the railroad tracks about 250 feet southwest of Building 317. Verification of the tank and its contents is recommended.

→ c 39. Two impoundments (IM) can be observed on the southwest side of Building 306, near S 11th Street and L Street. Investigation of the impoundments' uses is recommended.

a 40. There are two vertical tanks (VT) on the northeast side of Building 306, near S 11th Street and L Street. Investigation of the tanks' contents is recommended.

b 41. There is an open storage (OS) area, possibly with drums (D), on the westerly side of Building 320, near S 15th Street and O Street. Additional investigation is recommended.

b 42. There are soil stains (ST) beneath the present aircraft parking apron about 500 feet southeast of Tank 174. Additional investigation may be advisable.

b 43. Open storage (OS) areas with possible drums (D) are noted about 700 and 1000 feet southeast of Tank 174, beneath the present aircraft parking apron. Additional investigation may be advised.

c 44. There are soil stains (ST) in an open storage (OS) area now occupied by Buildings 386 and 1389, about 350 feet northeast of Building 368 (Public Works). Additional investigation is advisable.

b 45. There is wet soil (WS) or stains (ST) in the open storage (OS) area about 500 feet northwest of Building 322 (Mess Hall). Additional investigation is advisable.

c 46. There is wet soil (WS) or stains (ST) in the area now occupied by the southwest corner of Building 1389, and in the open storage (OS) area about 200 feet northwest of Building 1389. Additional investigation is be advisable.

c 47. There is an open storage (OS) area with possible drums (D) near the approximate location of Building 359, near South Marine Way and P Street. Additional investigation is recommended.

b 48. There appear to be stains (ST) caused by liquids (LQ) flowing easterly from the aircraft parking apron about 200 feet east of Building 296 (hangar). Additional investigation is recommended.

b 49. There may be drums (D) in an open storage (OS) area about 200 feet east of Building 296 (hangar). Additional investigation is recommended.

c 50. There is an open storage (OS) area at the present location of Building 360, near South Marine Way, between Q and R Streets. Additional investigation may be advisable.

c 51. Dark-toned mounded material (MMDT) can be seen adjacent to the drainage ditch between Perimeter Road and the southeast corner of the aircraft parking apron. The mounds appear to be soil related to maintenance of the ditch. No additional investigation is recommended at this time.

c 52. In the area north of the railroad tracks, between Agua Chinon Wash and Borrego Canyon Wash, there are four open storage (OS) areas. All appear to contain refuse (R) or materials in storage. The westerly area appears to have been excavated (EX) and the spoil (FA) placed toward the southeast. The spoil area (FA) and excavated (EX) area appeared to be covered with refuse (R) or other materials. The southerly open storage (OS) area is an aircraft salvage area with several fuselage and wings sections visible. Smaller open storage (OS) areas occur near the four major sites. Additional investigation of the areas is recommended.

c 53. Liquid (LQ) can be seen flowing from a former hangar (?) near the northeast end of the aircraft parking apron on the northerly side of the present ACER site (Site 19). The liquid (LQ) discharges into a drainage ditch from a small building behind the former hangar. The flow appears to be significant and additional investigation is recommended.

c 54. There are farm buildings (B) near Perimeter Road and Borrego Canyon Wash, near Gate No. 3 on Trabuco Road. The buildings may contain fuel, solvents, pesticides, fertilizers, and other potential contaminants. Additional investigation is recommended if contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

c 55. There is light-toned mounded material (MMLT) adjacent to the drainage ditch between North Marine Way and the approach end of Runway 25R. The material appears to be soil associated with construction or maintenance of the ditch. The ditch drains the Original Landfill (Site 3) area, and is intersected by one of the trenches. Investigation of the mounded soil and ditch is recommended.

c 56. Soil stains (ST) can be observed: on the southeast side of Building 125, near S Place and N 9th Street; at the edge of the aircraft parking apron about 200 feet northwest of Tank Farm No. 6; and near the present location of Buildings 697 and 642, near N 8th Street and S Street. Additional investigation is recommended.

b 57. No activity was noted at either the Magazine Road Landfill (Site 2), or the Communication Station Landfill (Site 17).

c 58. A trench (TR), possibly for drainage, can be seen northwest of the former building, located about 800 feet west of East Marine Way and El Toro Boulevard. Additional investigation is recommended.

c 59. There is a probable impoundment (IM) or storage tank of some sort southeast of the building indicated in the previous comment. The object appears to be a square-shaped, bermed area with impounded liquid or a square-shaped object on top of the mound. Additional investigation is recommended.



Aerial Photographic Interpretation  
 MCAS El Toro  
 Santa Ana, California

1952  
 Figure 3  
 Sheet 1 of 2

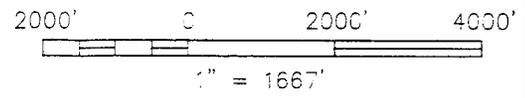
December 12, 1952  
 Photo Number AXK-3K-36

Source:  
 U.S. Department of Agriculture

Prepared for:  
 Southwest Division  
 Naval Facilities Engineering Command  
 Contract N68711-92-D-4658

LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
B	Building	IM	Impoundment
D	Drums	LQ	Liquid
DB	Debris	LT	Light-Toned
DG	Disturbed Ground	M	Material
DK	Dark-Toned	MM	Mounded Material
EX	Excavation	OS	Open Storage
EXT	Extraction	R	Refuse
FA	Fill Area	ST	Stain
FBR	Fuel Bladder	TR	Trench
GR	Graded Area	UO	Unidentified Object
GS	Ground Scar	VT	Vertical Tank
HT	Horizontal Tank	WS	Wet Soil



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 International Corporation  
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## 2.2 1952 PHOTOGRAPHS

FIGURE: 3  
DATE: 12 DECEMBER 1952  
PHOTOGRAPH: AXK-3K-36 and AXK-2K-141  
NOTE: The following comments address only areas not reported on in Reference B.

c 60. Farm buildings (B) are noted at Irvine Road and Range Road. There are probable vertical tanks (VT) about 500 feet southerly of the intersection. Farm buildings and probable vertical tank may contain fuels, solvents fertilizers, pesticides, or other chemicals. Investigation is recommended if contaminants are detected near or downgradient of the site, in areas of interest to the IR program.

c 61. There is an unidentified object (UO) on north side of Irvine Road, about 2000 feet southeast of Range Road that may be a mound. Additional investigation is not recommended at this time.

c 62. There is a large quarry (EXT) with numerous support structures on northwest and southwest sides. Heavy equipment is probably used and maintained at the site, and therefore, fuel, oil and solvent use and storage are likely. Additional investigation is recommended if contaminants are detected near the site, or downgradient of the site, in areas of interest to the IR program.

c 63. An excavation (EX) can be seen between Runways 16L and 16R, near the approach end. It is probably related to drainage control. Additional investigation is not recommended at this time.

→ c 64. At the quarried (EXT) area, two (2) sites appear to be active and the other site recently active. The quarries may have been used for waste disposal. Additional investigation is recommended if contamination is detected at the site, or downgradient of the site.

c 65. The MCAS El Toro residential area is under development with extensive grading (GR) and earthmoving. Additional investigation is not recommended at this time.

c 66. There is a trench (TR) about 250 feet long, located about 1000 feet northeast of N 16th Street and T Street. The purpose of the trench is unknown and additional investigation is recommended if contaminants are detected in the area, or downgradient of the trench site.

c 67. Two (2) probable vertical tanks (VT) are located about 500 feet southeast of N 14th Street and S Street. The tanks should be verified and their contents determined.

c 68. This is a shallow or backfilled trench (TR). Additional investigation is recommended to determine if it was used for waste disposal.

c 69. Light-toned mounded material (MMLT) can be seen on the westerly side of Bee Canyon Wash, south of Perimeter Road. It appears to be stockpiled soil. Additional investigation is not recommended at this time.

c 70. A trench (TR) with possible liquid (LQ) at its north end is located near South Marine Way and Agua Chinon Canyon Wash. The possible liquid may be darkening caused by a shadow. The purpose of the trench is unknown, but may be related to a storm drainage system. Additional investigation is not recommended at this time unless contamination is detected near the site, or downgradient of the site.

c 71. Probable grading (GR) or trench backfilling operation is apparently in progress west of Runway 34L and north of Runway 25R. The purpose is unknown. Additional investigation is not recommended at this time unless contamination detected in the site area, or downgradient of the site, in areas of interest to the IR program.

c 72. Three (3) possible horizontal tanks (HT) and one (1) possible vertical tank (VT) are noted near the southwest corner of the Quarry (Comment 60). This appears to be a support area for the quarry operation. Additional investigation is recommended if contaminants are detected near the site, or downgradient of the site, in areas of interest to the IR program.

Aerial Photographic Interpretation  
 MCAS El Toro  
 Santa Ana, California

1960  
 Figure 6  
 Sheet 1 of 2  
 June 28, 1960

Photo Number C-23870, 2010  
 Source: Map and Imagery Library,  
 University of California, Santa Barbara

Prepared for:

Southwest Division  
 Naval Facilities Engineering Command  
 Contract N68711-92-D-4658

LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
B	Building	IM	Impoundment
D	Drums	LQ	Liquid
DB	Debris	LT	Light-Toned
DG	Disturbed Ground	M	Material
DK	Dark-Toned	MM	Mounded Material
EX	Excavation	OS	Open Storage
EXT	Extraction	R	Refuse
FA	Fill Area	ST	Stain
FBR	Fuel Bladder	TR	Trench
	Revetment	UO	Unidentified Object
GR	Graded Area	VT	Vertical Tank
GS	Ground Scar	WS	Wet Soil
HT	Horizontal Tank		



0' 1000' 2000'  
 1" = 1200'

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## 2.5 1960 PHOTOGRAPHS

FIGURE: 6  
DATE: 28 JUNE 1960  
PHOTOGRAPHS: C23870-2010 and C23870-2012  
NOTE: Only partial coverage of site, only partial stereographic coverage.

c 99. Several buildings (B) with unknown purposes are noted along westerly border of the Rifle Range area. There is disturbed ground (DG) along westerly side of Range Road, near the center of the range. It appears to be earthwork with the purpose unknown. There is an impoundment (IM) with possible wet soil (WS) at the northeast corner of the range. There is disturbed ground (DG) adjacent to northeast corner of range, that is probably construction related. Disturbed ground (DG) with a probable excavation (EX) can be seen about 200 feet northerly of range; this is a possible disposal site. Additional investigation of the possible disposal site is recommended.

c 100. Disturbed ground (DG) with a possible excavation (EX) or trench (TR) is located about 1800 feet east of the Rifle Range. Additional investigation is recommended.

c 101. Excavation (EX) and stain (ST) or wet soil (WS) are located at the southwest edge of Rodeo Area. They may be related to earthmoving or manure spreading. The dark-toned mounded material (MMDT) may be hay or manure piles. The purpose of excavation is unknown, but may be a disposal site. Additional investigation of the excavation may be advisable.

c 102. Possible drums (D) are located on the northeast side of Building 415, located easterly of the Rodeo Area. Additional investigation is recommended.

c 103. Several features can be observed at the South Coast Agriculture Field Station. There is a vertical tank (VT) in westerly corner of the developed support area. There are several buildings (B) with unknown purposes. There is an impoundment (IM) with liquid (LQ), probably irrigation water at the northeast corner. Due to the type of land use, fuel, solvents, pesticides, fertilizers, and other chemicals were probably used and stored at the site. Additional investigation is recommended if contamination is detected in the site area or downgradient of the site, in areas of interest to the IR program.

c 104. The grading (GR) and residential development (B) of this area appears to be complete.

c 105. Stains (ST) or wet soil (WS) can be seen in the cleared areas on the northeast and southeast sides of Rodeo Area complex. Additional investigation may be advisable.

→ c 106. The quarry (EXT) area north of residential area is a probable material source for the MCAS El Toro construction activities. Northerly of the extraction area the land has

been cleared (GR), possibly for cultivation. Additional investigation of the site history for possible use as a disposal or waste storage site is recommended.

c 107. Excavation (EX) and disturbed ground (DG) are noted in Agua Chinon Wash, about 600 feet northeast of the residential area. A berm, possibly for water diversion, is partially constructed across the wash. Additional investigation of the site history as a possible disposal site is recommended.

c 108. Home sites are located at the mouth of Bee Canyon. Several buildings (B), a vertical tank (VT), probably for water supply, and a probable excavation (EX) are noted. Additional investigation is not recommended unless contamination is detected in the area, or downgradient of the site. The agricultural nature of the area suggests that fuels, chemicals, pesticides, fertilizers, and other potential contaminants may have been used or stored at the sites.

c 109. Two (2) vertical tanks (VT) can be seen at the easterly end of the support area for the large quarry that was noted above. Verification of the tanks and their contents is recommended, as is additional investigation if contaminants are detected downgradient of the site, in areas of interest to the IR program.

c 110. Possible stains (ST) or wet soil (WS) can be seen extending northwest - southeast across field located westerly of El Toro Marine School. Additional investigation is not recommended at this time.

c 111. There is an unidentified object (UO) at the corner of Q Street and N 9th Street that may be an incinerator chimney. Investigation of the site history is recommended.

c 112. There is a trench (TR) at the intersections of Runways 16L, 16R, and 21. Additional investigation is not recommended at this time.

c 113. Stains (ST) can be seen at the edge of aircraft parking apron, adjacent to Building 99, near N 4th Place and K Street, and near N 1st Place and K Street, and near the southerly end of Building 624, at J Street and N 6th Place. Additional investigation is recommended.

c 114. There is wet soil (WS) and liquid (LQ) is flowing from the aircraft parking apron adjacent to Building 624, near N 6th Place and K Street. The liquid flows into the ditch that extends to West Marine Way.

c 115 There is probable wet soil (WS) and liquid (LQ) is flowing from the open storage (OS) area on the northeast side of N 4th Place. The liquid discharges into the ditch noted in the previous comment.

c 116. At the EOD Range (Site 1) there are several stains (ST) and a trench (TR) with probable liquid (LQ). This area is not shown on the photograph. There are no other significant changes. The current IR program field investigation Site 1 is probably

adequate, relative to the features noted here.

c 117. There is a possible stain (ST) around abandoned Compass Rose No. 1, near K Street and N 1st Place. Additional investigation is recommended.

c 118. There are two (2) unidentified objects (UO) about 370 feet southwest of Compass Rose No. 1. Additional investigation is recommended to identify the objects.



Aerial Photographic Interpretation  
 MCAS El Toro  
 Santa Ana, California

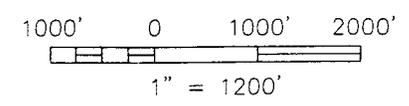
1964  
 Figure 8  
 Sheet 1 of 2

September 16, 1964  
 Photo Number C-24848, VII-ORA-5, 2-25  
 Source: Map and Imagery Library,  
 University of California, Santa Barbara

Prepared for:  
 Southwest Division  
 Naval Facilities Engineering Command  
 Contract N68711-92-D-4658

LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
B	Building	IM	Impoundment
D	Drums	LQ	Liquid
DB	Debris	LT	Light-Toned
DG	Disturbed Ground	M	Material
DK	Dark-Toned	MM	Mounded Material
EX	Excavation	OS	Open Storage
EXT	Extraction	R	Refuse
FA	Fill Area	ST	Stain
FBR	Fuel Bladder Revetment	TR	Trench
GR	Graded Area	UO	Unidentified Object
GS	Ground Scar	VT	Vertical Tank
HT	Horizontal Tank	WS	Wet Soil



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## 2.7 1964 PHOTOGRAPHS

FIGURE: 8  
DATE: 16 SEPTEMBER 1964  
PHOTOGRAPHS: C24848, VII-ORA-5-225 and C24848, VII-ORA-5-227  
NOTE: The photographs have poor resolution, do not cover the entire site, and provide only partial stereographic coverage.

c 133. There is a dark-toned unidentified object (UO), a possible stained (ST) area, and wet soil (WS) or an excavation (EX) south of Perimeter Road near the railroad tracks. Additional investigation is recommended.

c 134. Light-toned mounded material (MMLT) can be seen on the north side of the railroad tracks near the approach end of Runway 34R. The materials appear to be soil and vegetation from earthmoving activities. No additional investigation is recommended at this time.

c 135. There are a trench (TR) and disturbed ground (DG) about 1000 feet northeast of the area noted in the previous comment. The disturbed ground may be a backfilled trench. Purpose of the activity is unknown, but it could be a disposal site. Additional investigation is recommended.

c 136. There are four probable vertical tanks (VT) on the southeast side of the railroad tracks, southeast of the features noted in the previous comment. The tanks may be used for chemical or fuel storage. Verification of the tanks and determination of their contents are recommended.

c 137. Stains (ST) are observed in the cleared or graded area easterly of Building 360 and the DRMO Storage yard (Site 8). Additional investigation of the site is recommended due to the persistence of the features over several years, and the use of the area for open storage.

c 138. There is an open storage (OS) area about 500 feet southeasterly of the southeast corner of the aircraft parking apron. There are also probable stains (ST) and probable drums (D). The Drop Tank Drainage Area No. 2 (Site 7) investigation area should be expanded to include this area.

c 139. Stains (ST) can be seen in the vicinity of Building 325, near S 14th Street and R Street. The cause is unknown and additional investigation is recommended.

c 140. Stains (ST) can be seen on westerly side of Building 324, near S 14th Street and R Street. Additional investigation is recommended.

c 141. There are stains (ST) in the general area of Buildings 309, 311 and 312, between South Marine Way and S 14th Street and O Street. There is probable liquid (LQ) flow toward the northeast from near Building 312. Additional investigation is recommended.

c 142. Stains (ST) are common in the open area within and southerly of the Petroleum Disposal Area (Site 10). Additional investigation in southern portion of area is advisable to supplement the current IR program field investigation.

c 143. A probable excavation (EX) is noted southwest of the Battery Acid Disposal Area (Site 14). Expansion of the Site 14 field investigation to include this site is recommended.

→ c 144. There are a probable trench (TR) and excavation (EX) southwest of the Battery Acid Disposal Area (Site 14). Photographs from 1961 suggest that the feature may be an access road and turn-around loop. Expansion of the Site 14 field investigation to include this site is recommended.



Aerial Photographic Interpretation  
 MCAS El Toro  
 Santa Ana, California

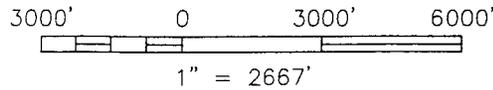
1967  
 Figure 9  
 Sheet 1 of 1

June 27, 1967  
 Photo Number GS-VBTA-1-34  
 Source:  
 U.S. Geological Survey

Prepared for:  
 Southwest Division  
 Naval Facilities Engineering Command  
 Contract N68711-92-D-4658

LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
B	Building	IM	Impoundment
D	Drums	LQ	Liquid
DB	Debris	LT	Light-Toned
DG	Disturbed Ground	M	Material
DK	Dark-Toned	MM	Mounded Material
EX	Excavation	OS	Open Storage
EXT	Extraction	R	Refuse
FA	Fill Area	ST	Stain
FBR	Fuel Bladder	TR	Trench
	Revetment	UO	Unidentified Object
GR	Graded Area	VT	Vertical Tank
GS	Ground Scar	WS	Wet Soil
HT	Horizontal Tank		



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## 2.8 1967 PHOTOGRAPHS

FIGURE: 9  
DATE: 27 JUNE 1967  
PHOTOGRAPH: GS-VBTA-1-34  
NOTE: The scale of this photograph is poor, rendering recognition and identification of small features difficult.

- c 145. Wet soil (WS) can be seen on the northerly side of Building 1793, and wet soil (WS) with probable liquid (LQ) occurs near the edge of the aircraft parking apron near the Base Operations facilities. Additional investigation is recommended.
- c 146. Liquid (LQ) is flowing easterly from the northerly side of Building 1798 in the Rodeo Area. Additional investigation is not recommended at this time.
- c 147. Apparent soil stains (ST) form three parallel lines on the westerly side of Building 139, near N 9th Street and M Street. Additional investigation is recommended.
- c 148. There is an area of disturbed ground (DG), with four, dark-toned, rectangular features, in the southerly portion of Tank Farm No. 4. Additional investigation is recommended.
- c 149. There appears to be liquid (LQ) flowing northerly from Building 114, near N 8th Street and S Street. Additional investigation is recommended.
- c 150. There are soil stains (ST) and probable liquid (LQ) flowing southerly from the former building located about 550 feet south of Building 392 (Motor Pool). Additional investigation is recommended.
- c 151. No significant changes are noted at the South Coast Agriculture Field Station.
- c 152. There appears to be continuing development for an unknown purpose in the former quarry (EXT) south of Lambert Reservoir. Additional investigation is recommended if contamination is identified near the site, or downgradient of the site, in areas of interest to the IR program.
- c 153. No significant changes are noted at the Rifle Range at the northern tip of the activity. However, there are disturbed ground (DG) and buildings (B) adjacent to the northwest corner of the range. This appears to be an agricultural area, and as such, fuel, solvents, oil, pesticides, fertilizers, and other potential contaminants may have been used or stored at the site. Additional investigation may be advised if contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

c 154. There are buildings (B), cultivation, and disturbed ground (DG) in the industrial or agricultural complex south of Lambert Reservoir. Fuel, solvents, oil, pesticides, fertilizers, and other potential contaminants may have been used or stored at the site. Additional investigation may be advised if contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

c 155. Disturbed ground (DG), probably due to vegetation clearing, is noted northwesterly of the activity's residential area. The purpose is unknown and no additional investigation is recommended at this time.

→ c 156. Extraction (EXT) can be observed near the mouth of Agua Chinon Wash. There appears to be dark-toned material, possibly refuse (R) or liquid (LQ), in the eastern portion of the excavation. Additional investigations to determine if potential contaminants were placed in the quarry is recommended if contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

c 157. Areas of extraction (EXT) and filling (FA) are noted at Fuel Road and Quarry Road. If a fuel tank farm exists at this location, an investigation of tank and ancillary equipment integrity is recommended.

c 158. No activity is noted at the Communication Station Landfill (Site 17).

c 159. At the Magazine Road Landfill (Site 2) there is evidence of extraction (EXT), disturbed ground (DG) and stains (ST). In addition, a stain (ST) "path" in the form of a loop appears to have resulted from liquid discharge from a moving vehicle. There is an open storage (OS) area surrounded by disturbed ground (DG) north of the landfill. Quarrying (EXT) of the ridge to the west continues. No additional investigation is recommended at this time; the present IR program field investigation of Site 2 appears to be adequate, relative to the features noted here.

c 160. The County Industrial Farm and sewage disposal area contains two (2) liquid-filled (LQ) impoundment areas (IM) and several buildings (B). Fuel, oil, solvents, pesticides, fertilizers, and other potential contaminants may have been used or stored at the site. Additional investigation is recommended if contamination is detected at the site or downgradient of the site, in areas of interest to the IR program.

→ c 161. Disturbed ground (DG) and probable backfilled trenches (TR) are noted in the western corner of Perimeter Road and Magazine Road, and about 1400 feet westerly of the intersection. Additional investigation of the purpose of these sites is recommended. The northeasterly-oriented, backfilled trench (TR) adjacent to Perimeter Road is the Perimeter Road Landfill (Site 5). No additional investigation of Site 5 is recommended at this time. The present IR program field investigation Site 5 appears to be adequate, relative to the features noted here.

c 162. There are stains (ST) adjacent to El Toro Boulevard between Z Street and East Marine Way that appear to have been caused by liquid discharged from a moving vehicle. Additional investigation is recommended.

c 163. An excavation (EX) with probable liquid (LQ) can be seen about 250 feet south of Tank 459, south of El Toro Boulevard and Z Street. Additional investigation is recommended.

c 164. There is a possible excavation (EX) containing liquid (LQ) about 500 feet southeast of N 3rd Street and North Marine Way. Additional investigation is recommended.

c 165. There is an open storage (OS) area with possible drums (D) near the ninety-degree curve in N 3rd Street, near North Marine Way. Additional investigation is recommended.

c 166. A vertical tank (VT) can be observed adjacent to the easterly, angular taxiway extension northeast of ACER (Site 19). The tank is outside of the area of the present IR program field investigation. The contents of the tank should be investigated, and the area included in the current IR program field investigation, if appropriate.

a 167. Extensive staining (ST) at Crash Crew Pit No. 1. (Site 9), Petroleum Disposal Area (Site 10) and the TAFDS (Site 22). No additional investigation is recommended at this time; the present IR program field investigation of Site 9 appears to be adequate, relative to the features noted here.

c 168. There is an open storage (OS) area with probable drums (D) adjacent to the southwest corner of the aircraft parking apron near Buildings 388 and 655. Expansion of the Petroleum Disposal Area (Site 10) to include this area is recommended.

→ c 169. An excavation (EX) is noted southwest of the Battery Acid Disposal Area (Site 14). Expansion of the Site 14 field investigation to include this site is recommended.

a 170. There are ground stains (ST) near the Oil Change Area (Site 13). No additional investigation is recommended at this time; the present IR program field investigation of Site 13 appears to be adequate, relative to the features noted here.

c 171. A probable vertical tank (VT) can be seen about 550 feet east of Crash Crew Pit No. 2 (Site 16). The tank should be verified and its contents determined.

c 172. There are stains (ST) and possible drums (D) in an open area near West Marine Way and N 4th Place. Additional investigation is recommended.

→ c 173. There are probable fuel bladder revetments (FBR) and possible stains (ST) in an excavated area about 150 and 300 feet northeast of Building 14, at West Marine and N 4th Place. Additional investigation is recommended.

c 174. Liquid (LQ) is flowing westerly from Building 264 and flowing easterly from a small structure toward Building 376, near West Marine Way and N 3rd Street. No additional investigation is recommended at this time.



## 2.10 1971 PHOTOGRAPHS

FIGURE: 11  
DATE: 19 MAY 1971  
PHOTOGRAPH: AXK-1MM-63

c 197. There are light-toned mounded materials (MMLT) on the northeast and southeast sides of Tank Farm No. 5. The mounds appear to be stockpiled soil. Expansion of the Original Landfill (Site 3) investigation to include this area is recommended.

a 198. Liquid (LQ) is flowing south to southwest from the Motor Pool (Building 392). This feature has been noted previously. Additional investigation is recommended.

a 199. Liquid (LQ) is flowing easterly from Building 138, near N 9th Street and N Street. Additional investigation is recommended.

b 200. There is a stain (ST) on north side of the fuel bladders at ACER (Site 19). No additional investigation is recommended at this time. The current IR program field investigation of Site 19 appears to be adequate, relative to the features noted here.

c 201. Probable drums (D) can be seen in the open storage (OS) area about 800 feet southeast of the southeast corner of the aircraft parking apron. Expansion of the Drop Tank Drainage Area No. 2 (Site 7) investigation to include this site is recommended.

b 202. Wet soil (WS) and probable liquid (LQ) can be seen at the east end of the Crash Crew complex (Buildings 435 and 1649). The features are also noted in other years. Additional investigation is not recommended at this time. The current IR program field investigation of Site 9 appears to be adequate, relative to the features noted here.

c 203. Liquid (LQ) is flowing northeast from near Crash Crew Pit No.1 (Site 9), toward the taxiway about 300 feet east of the Crash Crew complex (Buildings 435 and 1649). The liquid may be contaminated with materials from the Site 9 area. Expansion of the Site 9 IR program field investigation to include this area is recommended.

c 204. There is a stain (ST) about 80 feet by 250 feet in dimension near Crash Crew Pit No. 1 (Site 9). Expansion of the IR program field investigation area to include the stained area is recommended.

a 205. There is a possible vertical tank (VT) near the Oil Change Area (Site 13), adjacent to Building 1505. There is also a stain (ST) on the northerly side of the tank area. Additional investigation is not recommended at this time. The current IR program field investigation of Site 13 appears to be adequate, relative to the features noted here.

a 206. Wet soil (WS) and northwesterly flowing liquid (LQ) can be seen about 200 feet south of Building 11, near the southeast end of S 5th Street. Additional investigation is recommended.

c 207. There are stains (ST) or wet soil (WS) on the southerly side of Building 264, on N 3rd Street between G Street and West Marine Way. The origin of the feature is unknown. Additional investigation is recommended.

c 208. There is an unidentified object (UO) about 1900 feet north of Runway 34R that may be small building or vertical tank. Verification and possible investigation of the feature is recommended.

c 209. Several farm buildings (B) are located about 3400 feet north-northeast of Runway 34R. Potential contaminants commonly associated with agricultural operations include fuel, oil, solvents, pesticides, fertilizers, and other materials. Additional investigation is recommended if contamination is detected in area or downgradient of the site.

c 210. Light-toned mounded material (MMLT) is noted in the northwestern corner of the South Coast Agriculture Field Station. It appears to be soil from local grading. Additional investigation not recommended at this time.

c 211. The South Coast Agriculture Field Station support area contains several buildings (B) and two possible vertical tanks (VT). Potential contaminants commonly associated with agricultural operations include fuel, oil, solvents, pesticides, fertilizers, and other materials. Additional investigation is recommended if contamination is detected in the area, or downgradient of the site, in areas of interest to the IR program.

c 212. This industrial or agricultural complex contains several buildings (B) and two (2) probable vertical tanks (VT). Potential contaminants that may be associated with the operation include fuel, oil, solvents, pesticides, fertilizers, and other materials. Additional investigation is recommended if contamination is detected in the area, or downgradient of the site, in areas of interest to the IR program.

c 213. A greenhouse(?) complex (B) was added to the South Coast Agriculture Field Station. Potential contaminants commonly associated with agricultural operations include fuel, oil, solvents, pesticides, fertilizers, and other materials. Additional investigation is recommended if contamination is detected in the area, or downgradient of the site, in areas of interest to the IR program.

c 214. Surface mining appears to have ceased at the quarry, but development and building construction continues. The site contains six (6) probable vertical tanks (VT), stains (ST) on the northerly side of the Quonset structure, and possible refuse (R) south of the Quonset structure. The purpose of the development is unknown. Additional investigation is recommended if contamination is detected downgradient of the site, in areas of interest to the IR program. Former quarries (not indicated on photograph)

between the developed quarry and the MCAS El Toro residential area appear to be inactive.

→ c 215. There is disturbed ground (DG) about 250 feet by 350 feet in area, dark-toned mounded material (MMDT), and a probable trench (TR), all about 1600 feet westerly of West Marine Road and Magazine Road. There is also a possible light-toned unidentified object (UO). Additional investigation of the site as a possible disposal or storage site is recommended.

c 216. Two (2) probable vertical tanks (VT) are adjacent to buildings at the west corner of Perimeter Road and Magazine Road. Verification of the tanks and determination of their contents is recommended.

c 217. Mounded material (MM) and disturbed ground (DG) can be seen about 500 feet southeast of Perimeter Road and Quarry Road. The purpose is unknown. Investigation of the site's history as a possible disposal area is recommended.

b 218. At the Magazine Road Landfill (Site 2) there is a trench (TR) about 600 feet by 70 feet in area, containing probable liquid (LQ). There are also three smaller trenches (TR), an excavation (EX) in the southern portion of area, and disturbed ground (DG) over the entire site. Additional investigation is not recommended at this time. The current IR program field investigation of Site 2 appears to be adequate, relative to the features noted here. The site area is not shown on the photograph.

c 219. There is an area of disturbed ground (DG) with a trench (TR), mounded material (MM) and an excavation (EX) located east of Magazine Road Landfill, near the MCAS El Toro boundary. The purpose of the features is unknown. Additional investigation is recommended. The site area is not shown on the photograph.

c 220. At the County Industrial Farm and Sewage Disposal Facility there are impoundments (IM) with liquids (LQ), two (2) vertical tanks (VT), a trench (TR) and a southerly flow of liquid (LQ) from a building. No additional investigation is recommended unless contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program. The site area is not shown on the photograph.

b 221. No significant changes are noted at the EOD Range. The site area is not shown on the photograph.

c 222. The Magazine Road Landfill (Site 2) remains active and extraction (EXT) from the ridge west of the landfill continues. No additional investigation is recommended at this time. The current IR program field investigation of Site 2 appears to be adequate, relative to the features noted here. The site area is not shown on the photograph.

c 223. There is a probable horizontal tank (HT) (Building 517?) with a revetment (IM) near 4th Street and H Street. Verification of the tank and determination of its contents are recommended.

Aerial Photographic Interpretation  
 MCAS El Toro  
 Santa Ana, California

1974

Figure 13  
 Sheet 1 of 1

December 9, 1974

Photo Number TG-7400-10-16

Source: Map and Imagery Library,  
 University of California, Santa Barbara

Prepared for:

Southwest Division

Naval Facilities Engineering Command

Contract N68711-92-D-4658



LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
B	Building	IM	Impoundment
D	Drums	LQ	Liquid
DB	Debris	LT	Light-Toned
DG	Disturbed Ground	M	Material
DK	Dark-Toned	MM	Mounded Material
EX	Excavation	OS	Open Storage
EXT	Extraction	R	Refuse
FA	Fill Area	ST	Stain
FBR	Fuel Bladder	TR	Trench
	Revetment	UO	Unidentified Object
GR	Graded Area	VT	Vertical Tank
GS	Ground Scar	WS	Wet Soil
HT	Horizontal Tank		



2000' 0 2000' 4000'



1" = 2275'

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## 2.12 1974 PHOTOGRAPHS

FIGURE: 13  
DATE: 9 DECEMBER 1974  
PHOTOGRAPH: TG-7400-10-16  
NOTE: The photographs do not provide complete stereographic coverage.

c 270. Probable liquid (LQ) is noted on the southwest side of Building 279, near N 7th Street and H Street. Additional investigation is recommended.

c 271. There are probable drums (D) on the southwest side of Building 287, near N 7th Street and J Street. Additional investigation is recommended.

c 272. Stains (ST) or wet soil (WS) can be seen on the southwest side of Building 624, near N 6th Street and J Street. The pattern suggests probable liquid flow from the south corner of the building. Additional investigation is recommended.

c 273. There is disturbed ground (DG) on the northwest sides of Buildings 25, 27 and 29, near West Marine Way and S 6th Street. Investigation of the site's history as a possible disposal area is recommended. Expansion of the Suspended Fuel Tank (Site 15) IR program field investigation to include this general area may be advisable.

c 274. There are stains (ST) on the northwest side of Building 31, near West Marine Way and S 8th Street. Additional investigation is recommended. Expansion of the Suspended Fuel Tank (Site 15) IR program field investigation to include the entire area is recommended.

c 275. There are possible stains (ST) southwest of the Battery Disposal Area (Site 14), adjacent to the parking area. The possible stains may be the result of healthier vegetation due to locally increased runoff. Additional investigation not recommended at this time.

c 276. There is an impoundment (IM) with possible liquid (LQ) at Crash Crew Pit No. 2 (Site 16), stains (ST) about 220 feet south of Site 16, and vertical tank (VT) about 450 feet southeast of Site 16. Determination of the tank's contents is recommended. The origin of the stain (ST) is unknown. The current IR program field investigation of Site 16 appears to be adequate, relative to the features noted here, and additional investigation of the site is not recommended at this time. However, investigation of the other areas noted here is advisable.

c 277. Light- and dark-toned mounded material (MMLT and MMDT) are located about 200 feet southwest of S 15th Street and Plant Road. The features appear to be stockpiling of soil (DG) on the northwesterly side of Bee Canyon Wash. There is a possible drum (D) in the open storage (OS) area on the northerly side of S 15th Street

and Plant Road. Expansion of the Sludge Drying Beds (Site 12) IR program field investigation to include these areas is recommended.

a 278. There are stains (ST) in the northwest corner of the aircraft parking apron, about 200 feet northeast of Tank 174. The stains appear very dark. Additional investigation is not recommended at this time. The current RI/FS investigation of the Crash Crew Pit No. 1 (Site 9) area appears to be adequate, relative to the features noted here.

c 279. There are stains (ST) in the central portion of Drop Tank Drainage Area No. 1 (Site 6). Additional investigation may be advisable.

c 280. Light-toned mounded material (MMLT) is located about 200 feet south-southeast of Building 453, near southwest corner of the aircraft parking apron. The features appear to be stockpiled soil. Additional investigation is not recommended at this time unless contamination is detected in area, or downgradient of the site, in areas of interest to the IR program.

c 281. There is wet soil (WS) or a burned area about 100 feet east of Building 457, near S 4th Street and East Marine Way. Verification that the area was the site of a grass fire may be advisable.

a 282. Light-toned mounded material (MMLT) and a fill area (FA) are observed about 800 feet east of Pumphouse / Water Reservoir, and 400 feet southwest of Perimeter Road. These features appear to be stockpiled soil. Additional investigation not recommended unless contamination is detected near site, or downgradient of the site, in areas of interest to the IR program.

a 283. There is wet soil (WS) or a stain (ST) about 600 feet southeast of Pumphouse / Water Reservoir, and 200 feet southwest of Perimeter Road. The features may be ponded rain water. Additional investigation not recommended unless contamination detected near site, or downgradient of the site, in areas of interest to the IR program.

c 284. There are probable drums (D) in the open storage (OS) area on the northerly side of Buildings 129 and 130. Investigation of the site's storage history is recommended.

c 285. Liquid (LQ) can be seen flowing southwest from the southwest side of Building 121, near N 8th Street and P Street. The northeast portion of parking area appears wet. Additional investigation is recommended.

c 286. An automobile race track and associated facilities are located between the railroad tracks and Interstate Highway 5. Included are an oval track, a road-type course, a motocross track, and a drag strip. There is a trench-like feature (TR) at the northwest corner, but this may be an overrun area for the dragsters. Stains (ST) are very common throughout the facility. The building (B) is probably a garage area. The square-shaped stained (ST) area may be a race track or skid pan. The vertical tank (VT) near the drag strip grand stands is probably for water. Fuel, oil, solvents, and other potential

contaminants would be used and probably stored at the facility. No additional investigation is recommended unless contamination is detected at the site, or downgradient of the site, in areas of interest to the IR program.

- c 287. There is an excavation (EX) about 1600 feet west of the Perimeter Road and Magazine Road intersection. The purpose of the excavation is unknown, and investigation of the site history as a possible disposal area is recommended.
- c 288. Disturbed ground (DG), mounded material (MM) and probable trench (TR) can be seen about 700 feet southeast of the Perimeter Road and Quarry Road intersection. The purpose of the features is unknown, and investigation of site history as a possible disposal area is recommended.
- c 289. There are wet soil (WS) or a stain (ST), and possible liquid (LQ) flow to the southwest from the open storage area on the northeast side of Building 415, adjacent to the Rodeo Area. Drums (D) may also be present. Additional investigation is recommended.
- c 290. No significant changes are noted at the South Coast Agriculture Field Station.
- c 291. No significant changes are noted at this apparent industrial or agricultural site.
- a 292. At the Magazine Road Landfill, the trenches (TR) remain open and there are unidentified objects (UO) probably containers, but there are no significant changes.
- c 293. There is wet soil (WS) and probable liquid (LQ) in the open area north of Trabuco Road, about 700 feet northwest of Gate No. 1. The features probably due to irrigation. Additional investigation is not recommended at this time.
- a 571. No significant changes are noted at the EOD Range. The site is not indicated on the photograph.

Aerial Photographic Interpretation  
 MCAS El Toro  
 Santa Ana, California

1975  
 Figure 14  
 Sheet 2 of 2

January 13, 1975

Photo Number 157-11-16

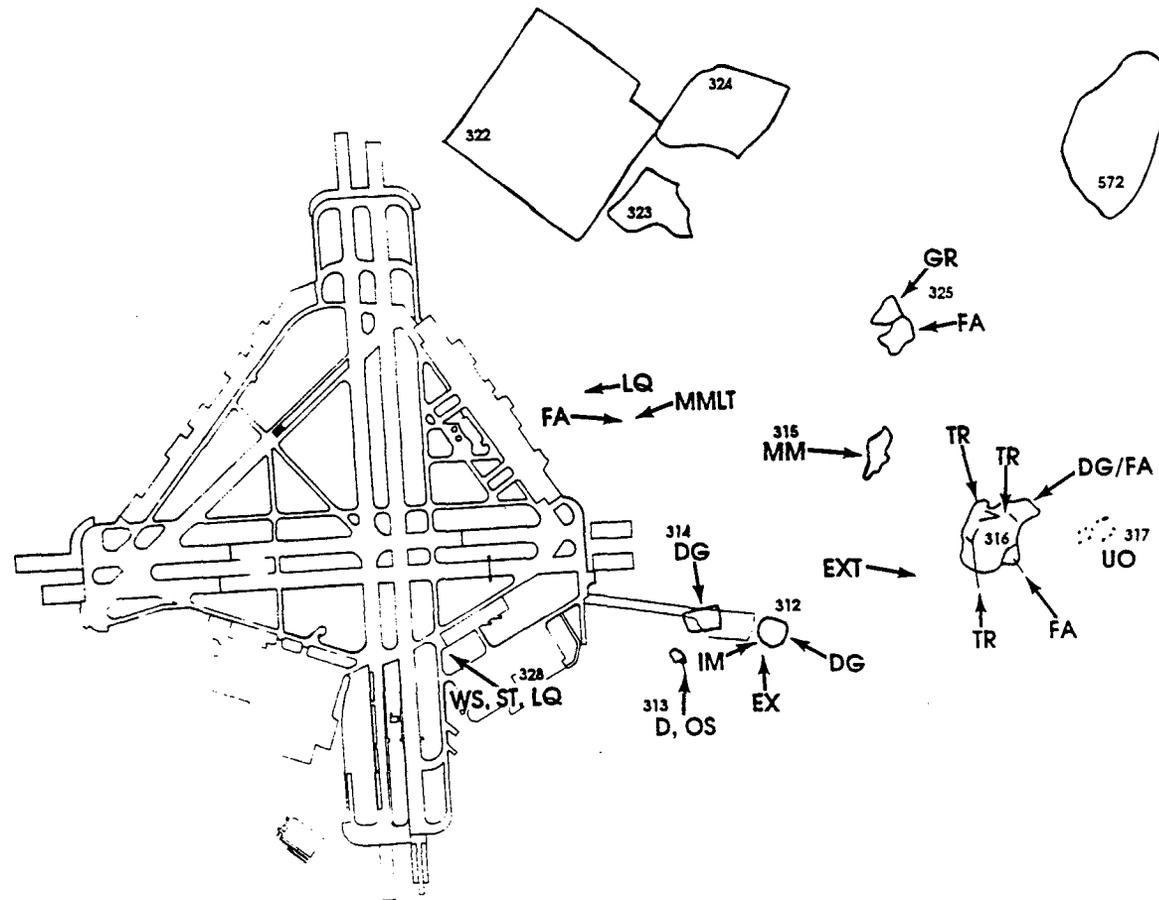
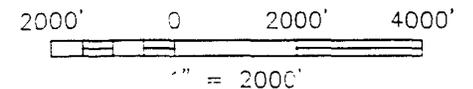
Source:  
 Continental Aerial Photo, Inc.

Prepared for:

Southwest Division  
 Naval Facilities Engineering Command  
 Contract N68711-92-D-4658

LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
B	Building	IM	Impoundment
D	Drums	LQ	Liquid
DB	Debris	LT	Light-Toned
DG	Disturbed Ground	M	Material
DK	Dark-Toned	MM	Mounded Material
EX	Excavation	OS	Open Storage
EXT	Extraction	R	Refuse
FA	Fill Area	ST	Stain
FBR	Fuel Bladder	TR	Trench
	Revetment	UO	Unidentified Object
GR	Graded Area	VT	Vertical Tank
GS	Ground Scar	WS	Wet Soil
HT	Horizontal Tank		



1992 Airfield Outline  
 Used for Reference

**SATC** Science Applications  
 International Corporation  
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Aerial Photographic Interpretation  
 MCAS El Toro  
 Santa Ana, California  
 1975

Figure 14

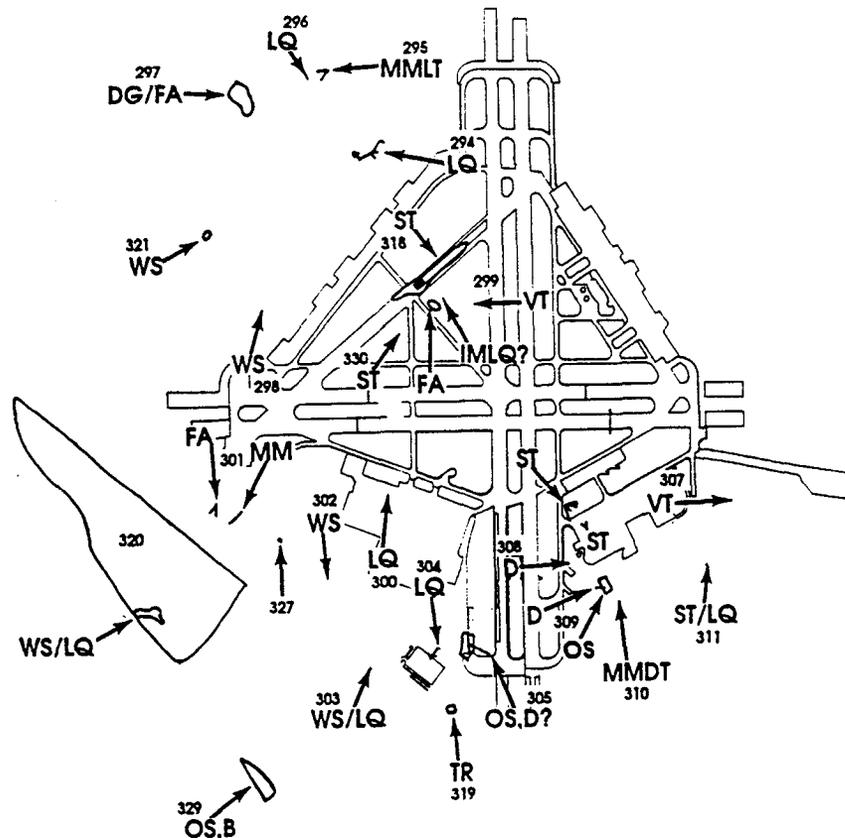
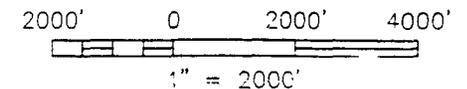
Sheet 1 of 2  
 January 13, 1975  
 Photo Number 157-10-17  
 Source:  
 Continental Aerial Photo, Inc.

Prepared for:

Southwest Division  
 Naval Facilities Engineering Command  
 Contract N68711-92-D-4658

LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
B	Building	IM	Impoundment
D	Drums	LQ	Liquid
DB	Debris	LT	Light-Toned
DG	Disturbed Ground	M	Material
DK	Dark-Toned	MM	Mounded Material
EX	Excavation	OS	Open Storage
EXT	Extraction	R	Refuse
FA	Fill Area	ST	Stain
FBR	Fuel Bladder	TR	Trench
	Revetment	UO	Unidentified Object
GR	Graded Area	VT	Vertical Tank
GS	Ground Scar	WS	Wet Soil
HT	Horizontal Tank		



1992 Airfield Outline  
 Used for Reference

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

## 2.13 1975 PHOTOGRAPHS

FIGURE: 14  
DATE: 13 JANUARY 1975  
PHOTOGRAPHS: 157-10-17 and 157-11-16  
NOTE: Copyrighted photograph, reproduction not authorized.

c 294. Liquid (LQ) can be seen flowing southeast and then southwest from the area of Building 99, near N 3rd Street and West Marine Way. The liquid appears to be irrigation runoff; additional investigation is not recommended at this time.

c 295. Light-toned mounded material (MMLT), probably construction related, can be seen near B Street, between N 4th Street and N 5th Street. Additional investigation is not recommended at this time.

c 296. There is possible liquid (LQ) in the street at the front of Building 443. Additional investigation is not recommended at this time.

c 297. There are disturbed ground (DG) and a fill area (FA) at the site of Building 694, near N 4th Street and Perimeter Road. These features appear to be related to construction. Additional investigation is not recommended at this time.

c 298. Possible wet soil (WS) is noted on the westerly side of West Marine Way, between Buildings 27 and 29. Additional investigation is recommended.

c 299. No significant changes are observed at Crash Crew Pit No. 2 (Site 16), but an impoundment (IM) with possible liquid (LQ) and a fill area (FA) are noted. The current IR program field investigation of Site 16 should include this entire area.

a 300. Liquid (LQ) is flowing southeasterly into the parking area from the east side of Building 435 (Crash Crew). The liquid is noted over a period of several years. Verification of the type of liquid is recommended, however, the current IR program field investigation of the Site 9 area appears to be adequate, relative to the features noted here.

c 301. There are mounded material (MM) and a fill area (FA) about 1000 feet northwest of Building 317, near Bee Canyon Wash Aqueduct. No additional investigation is recommended unless contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

c 302. There is probable wet soil (WS) in the open area about 200 feet east of Building 322 (Mess Hall). The feature appears to be related to irrigation. Additional investigation is not recommended at this time.

c 303. Probable wet soil (WS) and liquid (LQ) are noted near the southeast side of Building 360, south of the DRMO Storage Yard (Site 8). Additional investigation is recommended.

c 304. There is a southwesterly flow of liquid (LQ) from Building 672, near South Marine Way and R Street. Similar flows have also been noted during other years of photographic coverage. Additional investigation is recommended.

c 305. Possible drums (D) are noted in the open storage (OS) area about 400 feet east of Building 672. The current IR program investigation of Drop Tank Drainage Area No.2 should be expanded to include these features.

b 306. There are several stains (ST) in the westerly and southerly portions of ACER (Site 19). A fuel bladder was removed from the eastern portion of the site, and a new revetment was installed in the western portion of site. No additional investigation is recommended at this time. The current IR program field investigation of Site 19 appears to adequately address this site.

c 307. There is a vertical tank (VT), probably for water, in the compound north of Building 1791, near North Marine Way and N 3rd Street. Verification of the tank's contents is recommended.

c 308. There are probable drums (D) near the angular taxiway extension in the central portion of Drop Tank Drainage Area No.1 (Site 6). The current IR program field investigation of Site 6 should be expanded to include this area.

c 309. Probable drums (D) can be seen in the open storage (OS) area about 100 feet easterly of Building 453, near the southwest corner of the aircraft parking apron. Additional investigation is recommended.

c 310. There is dark-toned mounded material (MMDT) on the southerly side of Z Street, about 200 feet southeast of Building 453. The purpose and type of material are unknown. Additional investigation is recommended if contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

c 311. There are stains (ST) and possible flowing liquid (LQ) about 500 feet northeast of Building 457, near South 4th Street and East Marine Way. Similar features are also noted during other years. Determination of the type of liquid is recommended.

c 312. An impoundment (IM), disturbed ground (DG) and an excavation (EX) are noted near the intersection of Perimeter Road and Magazine Road. No significant changes have occurred since these features were previously noted. Additional investigation is not recommended at this time.

c 313. There is an open storage (OS) area with possible drums (D) about 700 feet northeast of Building 673, near North/East Marine and N 3rd Street. Additional investigation is recommended.

→ c314. Disturbed ground (DG) can be seen about 1000 feet northeast of Building 673, near North / East Marine and N 3rd Street. The cause of the disturbance is unknown. Investigation of the site's history as a possible disposal area is recommended.

b 315. Light-and dark-toned mounded material (MMLT, MMDT) occur over much of the Communication Station Landfill (Site 17). The mounds appear to be soil. Additional investigation is not recommended at this time; the current IR program field investigation of the Site 17 area appears to be adequate, relative to the features noted here.

b 316. The Magazine Road Landfill (Site 2) is active with disturbed ground (DG) several trenches (TR) and fill areas (FA) noted. Most of area has been stripped of vegetation. No additional investigation is recommended at this time; the current IR program field investigation of the Site 2 area appears to be adequate, relative to the features noted here.

c 317. Ten (10) unidentified objects (UO) can be observed on the hillside about 1000 feet east of the Magazine Road Landfill. The objects are light colored, and may be vertical tanks (VT). Identification of the objects is recommended.

c 318. There is a large stain (ST), about 1600 feet long, on Runway 21, apparently caused by a flowing liquid. The stain extends to soil areas adjacent to the runway and into a drainage ditch. The cause of the stain is unknown, but it may be related to a fuel spill or fire suppressant. Investigation of recent occurrences on runway prior to date of photograph (13 Jan 1975) is recommended.

c 319. There is a trench (TR) about 300 feet northerly of the railroad tracks, on the easterly side of Agua Chinon Wash. The purpose of the trench is unknown. Investigation of the site's history as a possible disposal area is recommended.

c 320. With the exception of localized wet soil (WS) and liquid (LQ) no significant changes are noted at the International Raceway, near the southwestern corner of the activity.

c 321. There is wet soil (WS) in the cultivated field west of Perimeter Road near S 5th Street. The wet soil is probably due to irrigation; additional investigation is not recommended at this time.

c 322. No significant changes are noted at the South Coast Agriculture Field Station.

c 323. No significant changes are noted at the former quarry site.

c 324. No significant changes are noted at industrial/agricultural complex.

c 325. There are graded (GR) and filled areas (FA) in the undeveloped area easterly of the MCAS El Toro residential area (Graham Drive). It may be advisable to sample the canyon-fill drain to determine if contaminants may have been buried during the grading operation.

c 326. No significant changes are noted in the Rifle Range area. The site area is not shown on the photograph.

c 327. The vertical tank (VT) adjacent to Building 534 at M Street and South Marine Way has been removed.

a 328. There are stains (ST), wet soil (WS), and an open storage (OS) area at the northwest corner of ACER. Additional investigation is not recommended at this time. The current IR program field investigation of Site 19 appears to be adequate, relative to the features noted here.

c 329. Farm buildings (B) and an open storage (OS) area can be observed at this site. Fuel, fertilizers, pesticides, and other potential contaminants may be used or stored at the site. Additional investigation is recommended if contamination is detected near the site, or downgradient of the site.

c 330. There are stains (ST) about 900 feet southwest of Crash Crew Pit No.2 (Site 16). Additional investigation is recommended.

a 572. No significant changes are noted at the EOD Range.

Aerial Photographic Interpretation  
 MCAS El Toro  
 Santa Ana, California

1981  
 Figure 20

Sheet 1 of 1  
 October 30, 1981  
 Photo Number GS-VEZT-9-12  
 Source:  
 U.S. Geological Survey

Prepared for:

Southwest Division  
 Naval Facilities Engineering Command  
 Contract N68711-92-D-4658



LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
B	Building	IM	Impoundment
D	Drums	LQ	Liquid
DB	Debris	LT	Light-Toned
DG	Disturbed Ground	M	Material
DK	Dark-Toned	MM	Mounded Material
EX	Excavation	OS	Open Storage
EXT	Extraction	R	Refuse
FA	Fill Area	ST	Stain
FBR	Fuel Bladder	TR	Trench
	Revetment	UO	Unidentified Object
GR	Graded Area	VT	Vertical Tank
GS	Ground Scar	WS	Wet Soil
HT	Horizontal Tank		



2000' 0 2000' 4000'  
 1" = 2000'

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## 2.19 1981 PHOTOGRAPHS

FIGURE: 20  
DATE: 30 OCTOBER 1981  
PHOTOGRAPH: GS-VEZT-9-12  
NOTES: The year 1981 was addressed in the USEPA investigation (Reference B). The 1981 photographs were obtained during the current investigation as the result of an error in the data base provided by the U.S. Geological Survey. With only minor exceptions, only areas outside of those reported on in Reference B are addressed in this report. The 1981 photograph interpretation is included to provide information that may be significant, but not otherwise available.

The photographs do not cover the entire site and provide only partial stereographic coverage.

c 438. No significant changes are noted at the South Coast Agriculture Field Station.

c 439. No significant changes are noted at the industrial/agricultural area south of Lambert Reservoir.

c 440. No significant changes are noted in the industrial area adjacent to the southeast corner of the South Coast Agriculture Field Station.

c 441. No significant changes are noted in the developed former quarry along the southeastern border of the South Coast Agricultural Field Station, except that the stained (ST) area has increased in size. Additional investigation is not recommended at this time, unless contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

c 442. The open storage (OS) area adjacent to the southwestern corner of the South Coast Agriculture Field Station remains unchanged.

→ c 443. The area of extraction (EXT) at the mouth of Agua Chinon Wash is revegetated. Additional investigation is not recommended at this time, unless contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

a 444. A berm (IM) has been constructed in the northern portion of the EOD Range (Site 1). The purpose of the berm is not known, but ponded liquid (LQ) is noted on the photographs of some years. Additional investigation is not recommended at this time, however, the composition of the liquid may be of interest. The current IR program field investigation of the Site 1 area appears to be adequate, relative to the features noted here.

c 445. No significant changes are noted at the industrial / commercial complex along the southeastern border of the activity, but an impoundment (IM) is observed near the northeast corner of the site. No additional investigation is recommended at this time unless contamination potentially originating from the site is detected in an area of interest to the IR program.

c 446. No significant changes are noted at the agricultural support area south of the threshold of Runway 34R. No additional investigation is recommended at this time unless contamination potentially originating from the site is detected in an area of interest to the IR program.

a 447. The area of light-toned mounded material (MMLT) southeast of Tank 293 (Water Reservoir) noted on earlier photographs has been graded (GR). No additional investigation is recommended at this time, unless contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

c 448. Liquid (LQ) can be observed in the impoundment (IM) on the northerly side of Irvine Boulevard, about 1500 feet north of the threshold for Runway 16L. The impoundment appears to be for irrigation and may contain fertilizers and pesticides. No additional investigation is recommended at this time, unless contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

c 449. A dark-toned area indicates probable wet soil (WS) or liquid (LQ) adjacent to the west side of Runway 16R, about 1100 feet north of Runway 25R. Additional investigation is recommended.

c 450. A trench (TR) or other linear area of disturbed ground can be seen about 200 feet south of the southeast corner of Tank Farm No. 5. The feature is revegetated. Additional investigation of the site is recommended.

c 451. There is an open storage (OS) area with probable drums (D) northeast of Building 673, near N 3rd Street and North Marine Way. Additional investigation is recommended.

c 452. There is a stained (ST), rectangular-shaped area about 10 feet by 20 feet in dimension adjacent to the dirt road that extends southeasterly from the vicinity of Building 673, near N 3rd Street and North Marine Way. The stain is about 800 feet from the building. The purpose of the stained area and associated(?) structures is unknown. Additional investigation is recommended.

c 453. At the County Industrial Farm complex, one of the sewage disposal ponds is dry. An impoundment (IM) is also noted. No additional investigation is recommended at this time, unless contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

c 454. At the county Industrial Farm complex, large darker-toned or stained (ST) areas are noted about 200 feet south of the sewage disposal ponds. The cause of the discoloration is not known. No additional investigation is recommended at this time unless contamination is detected at the site, or downgradient of the site, in areas of interest to the IR program.

c 455. A large trench (TR) can be seen within the graded (GR) area north of the Magazine Road Landfill (Site 2). No additional investigation is recommended at this time; the current IR program field investigation of the Site 2 area appears to be adequate, relative to the features noted here.



Aerial Photographic Interpretation  
 MCAS El Toro  
 Santa Ana, California  
 1988

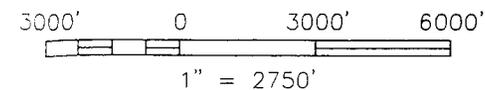
Figure 24

Sheet 1 of 1  
 January 21, 1988  
 Photo Number 3697-161  
 Source:  
 U.S. Geological Survey

Prepared for:  
 Southwest Division  
 Naval Facilities Engineering Command  
 Contract N68711-92-D-4658

LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
B	Building	IM	Impoundment
D	Drums	LQ	Liquid
DB	Debris	LT	Light-Toned
DG	Disturbed Ground	M	Material
DK	Dark-Toned	MM	Mounded Material
EX	Excavation	OS	Open Storage
EXT	Extraction	R	Refuse
FA	Fill Area	ST	Stain
FBR	Fuel Bladder	TR	Trench
	Revetment	UO	Unidentified Object
GR	Graded Area	VT	Vertical Tank
GS	Ground Scar	WS	Wet Soil
HT	Horizontal Tank		



## 2.23 1988 PHOTOGRAPHS

FIGURE: 24  
DATE: 21 JANUARY 1988  
PHOTOGRAPH: 3697-161  
NOTES: The photographs are of a small scale and provide only partial coverage of the site.

c 522. There is disturbed ground (DG) at a construction site on the southeast side of Perimeter Road, between N 4th Street and N 6th Street. No additional investigation is recommended at this time.

c 523. Liquid (LQ) is flowing southwesterly across a parking area from Building 15, near West Marine Way and N 3rd Street. The flow discharges into a ditch (WS). Additional investigation is recommended.

c 524. Three possible vertical tanks (VT) are noted: two (2) are along the southerly side of Building 5, near S 3rd Street and West Marine Way; the third is in an open field southerly of Building 517, near S 5th Street and H Street. The tanks should be verified and their contents determined.

c 525. There is probable wet soil (WS) westerly of Building 52 and southerly of Building 692, near El Toro Boulevard and H Street. No additional investigation is recommended at this time.

c 526. There is an open storage (OS) area with possible drums (D) west of the Battery Acid Disposal Area ( Site 14). Additional investigation is recommended. The current IR program field investigation of Site 14 should be expanded to include this area.

c 527. A vertical tank (VT) is located near the northwest corner of Building 121, near N 9th Street and P Street. Determination of the tank contents is recommended.

c 528. There is possible liquid (LQ) at the southerly corner of Building 369, near S 12th Street and N Street. Additional investigation is recommended.

c 529. Liquid (LQ) is flowing southeasterly into the parking area from the northwest corner of Building 307, near S 14th Street and K Street. The current IR program field investigation of the Petroleum Disposal Area (Site 10) or of the TAFDS area (Site 22) should be expanded to include this area.

c 530. There are three probable vertical tanks (VT): about 100 feet east of Building 442, near North Marine Way and N 3rd Street; about 200 feet west of Building 442; and at the north side of Building 1791. The tanks should be verified and their contents determined.

b 531. In the westerly portion of ACER (Site 19) there is a trench (TR) that is partially liquid (LQ) filled. No additional investigation is recommended at this time. The current IR program field investigation of the Site 19 area appears to be adequate, relative to the features noted here.

c 532. There are areas of wet soil (WS) and liquids (LQ) about 400 feet east-northeast of Building 617 (ACER, Site 19). These appear to be puddles of rain water. No additional investigation is recommended at this time.

c 533. There is probable liquid (LQ) adjacent to Building 617 at ACER (Site 19). The current IR program field investigation area should be expanded to include the feature.

b 534. There is a probable vertical tank (VT) in the staging area north of the Magazine Road Landfill (Site 2). Verification of the tank and determination of its contents are recommended.

a 535. The northeastern area of the Communication Station Landfill (Site 17) continues to be buried (FA) by the grading (GR) and extraction (EXT) operations on the ridge to the east. No additional investigation is recommended at this time. The current IR program field investigation of the Site 17 area appears to be adequate, relative to the features noted here.

→ c 536. The former extraction (EXT) area at the mouth of Agua Chinon Wash has been filled (FA). Potential contaminants may have been buried at the site. Additional investigation is not recommended unless contamination is detected at the site, or downgradient of the site, in areas of interest to the IR program.

c 537. At the developed former quarry (EXT) southeast of the South Coast Agriculture Field Station there are orange stains (ST) on the large, light colored pad in the northern area of the site. The pad was typically dark toned in earlier photographs. No additional investigation is recommended at this time, unless contamination is detected at the site, or downgradient of the site, in areas of interest to the IR program.

c 538. Stains (ST) and dark-toned mounded material (MMDT) are common at the industrial site at the southeastern corner of the South Coast Agriculture Field Station. Buildings (B) and disturbed ground (DG) are also noted. No additional investigation is recommended at this time, unless contamination is detected at the site, or downgradient of the site, in areas of interest to the IR program.

c 539. The Rodeo Area has expanded toward the northwest, where disturbed soil (DG), buildings (B) and light-toned mounded material (MMLT) can be seen. There is an area of disturbed ground (DG) along the southerly side of Irvine Boulevard that may be a backfilled trench (TR). There are also areas of disturbed ground west and northwest of the Rodeo Area. Investigation of the site history as a possible disposal area is recommended.

c 540. Several features can be observed at the industrial/agricultural area south of Lambert Reservoir. Dark-toned mounded material (MMDT) is located in the northern and southern portions of the site. There is probable liquid (LQ): at the southern edge of the northern mounded material; in the pond adjacent to the road in the southwestern portion of the site; and at the western corner of the southern mounded material. There are stains (ST) in the southwestern corner of the site. No additional investigation is recommended at this time unless contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

c 541. No significant changes are noted at the South Coast Agriculture Field Station.

→ c 542. A light-colored pad, possibly concrete, was constructed west of Perimeter Road and Magazine Road. The purpose of the pad is unknown, but the area was probably graded (GR). No additional investigation is recommended at this time.

c 543. There has been industrial/commercial development (buildings (B) and grading (GR)) southwest of Building 360, between the railroad tracks and Interstate Highway 5. No additional investigation is recommended at this time, unless contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

a 544. A pad, probably of concrete and asphalt was constructed immediately south of Crash Crew Pit No. 2 (Site 16). The site was probably graded (GR). No additional investigation is recommended. The current IR program field investigation of the Site 16 area appears to be adequate, relative to the features noted here.

c 545. The impoundment (IM), probably for irrigation water or flood control, on the northerly side of Irvine Boulevard, near the departure end of Runway 34R, is dry. No additional investigation is recommended at this time.

c 546. No significant changes are noted at the Rifle Range, or in its immediate vicinity.

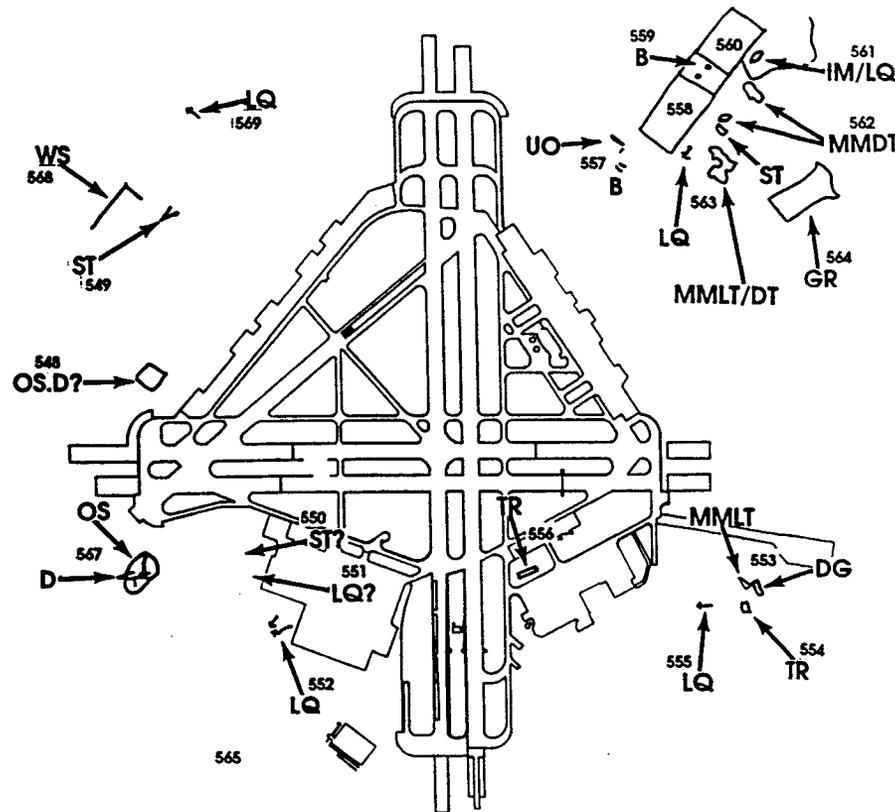
c 547. There has been continued commercial and industrial development (buildings (B) and grading (GR)) along the southeastern border of the activity. No additional investigation is recommended at this time, unless contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

Aerial Photographic Interpretation  
 MCAS El Toro  
 Santa Ana, California

1992  
 Figure 25

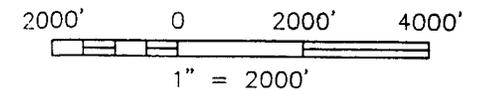
Sheet 1 of 1  
 January 20, 1992  
 Photo Number C85-11-12  
 Source:  
 Continental Aerial Photo, Inc.

Prepared for:  
 Southwest Division  
 Naval Facilities Engineering Command  
 Contract N68711-92-D-4658



LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
B	Building	IM	Impoundment
D	Drums	LQ	Liquid
DB	Debris	LT	Light-Toned
DG	Disturbed Ground	M	Material
DK	Dark-Toned	MM	Mounded Material
EX	Excavation	OS	Open Storage
EXT	Extraction	R	Refuse
FA	Fill Area	ST	Stain
FBR	Fuel Bladder	TR	Trench
	Revetment	UO	Unidentified Object
GR	Graded Area	VT	Vertical Tank
GS	Ground Scar	WS	Wet Soil
HT	Horizontal Tank		



1992 Airfield Outline  
 Used for Reference

## 2.24 1992 PHOTOGRAPHS

FIGURE: 25  
DATE: 20 JANUARY 1992  
PHOTOGRAPH: C85-11-12  
NOTE: Copyrighted photograph, reproduction not authorized.

c 548. There is a large, about 350 feet by 350 feet in area, open storage (OS) area with possible drums (D) along the northwesterly side of Buildings 29 and 31, and surrounding the Suspended Fuel Tank area (Site 15). The current IR program field investigation of Site 15 should be expanded to include this area.

c 549. Possible stains (ST) can be seen westerly of Gate No. 1, on the southerly side of Trabuco Road. Additional investigation is not recommended at this time.

a 550. There are probable stains (ST) in the Transformer Storage Area (Site 11) that appear to be included in the current IR program field investigation area. No additional investigation is recommended at this time.

a 551. There are probable liquids (LQ) flowing about 100 feet north of Building 386, near N Street and N Place. The site appears to be included in the area of the current IR program field investigation. No additional investigation is recommended at this time.

c 552. Liquid (LQ) is flowing southwesterly from Buildings 388 and 655, near the southeastern corner of the aircraft parking ramp, across the parking areas, and apparently into a drainage ditch. Investigation of the liquid discharge area is recommended.

c 553. Light-toned mounded material (MMLT) and disturbed ground (DG) can be observed about 400 feet and 600 feet easterly of Building 673, near N 3rd Street and East Marine Way. The mounded material appears to be soil, and the disturbed ground appears related to a possible construction site immediately to the south. No additional investigation is recommended at this time.

c 554. There is a trench (TR) about 600 feet southeast of Building 673, near N 3rd Street and North Marine Way. The purpose of the trench is unknown, and the site is partially revegetated. Because the site may possibly have been used to dispose of potential contaminants, additional investigation is recommended.

c 555. Liquid (LQ) can be seen flowing westerly from the northeastern end of Building 390, near El Toro Boulevard and N 3rd Street. Discoloration of the parking area adjacent to the flow suggests that this is a repeated event. Additional investigation is recommended to determine if contaminants of concern are typically discharged from this building.

a 556. The previously noted trench (TR) at ACER (Site 19) remains open. No additional investigation is recommended. The current IR program field investigation of Site 19 appears to be adequate, relative to the features noted here.

c 557. A new building (B) and unidentified object (UO) are observed at the Rodeo Area. The unidentified object (UO) appears to be either a vertical tank (VT) under construction or a circular, horse-training area or arena. Additional investigation is not recommended at this time.

c 558. All greenhouses have been removed (DG) from the southeastern portion of the South Coast Agriculture Field Station. No additional investigation is recommended at this time, unless contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

c 559. A new support area (OS) has been established in the former greenhouse area at the South Coast Agriculture Field Station. Fuel, oil, solvents, pesticides, fertilizers, and other potential contaminants may be stored or used in the area. No additional investigation is recommended, unless contamination is detected at the site, or downgradient of the site, in areas of interest to the IR program.

c 560. Unidentified light- and dark-toned mounded material (MMLT, MMDT) cover much of the indicated area immediately northeast of the South Coast Agriculture Field Station. Additional investigation is not recommended at this time, unless contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

c 561. The industrial/agricultural area south of Lambert Reservoir is largely covered by light- and dark-toned mounded material (MMLT, MMDT). An impoundment (IM) with liquid (LQ) is noted in the southwestern corner of the area. Additional investigation is not recommended at this time, unless contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

c 562. In the developed former quarry area there are stains (ST) near the southwest border, and dark-toned mounded material (MMDT) in the southwestern area and in the northern graded-pad area noted on earlier photographs. Additional investigation is not recommended at this time unless contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

c 563. There is wet soil (WS) and a southwesterly flow of liquid (LQ) from the northeast corner of the building in the industrial site adjacent to the southeast corner of the South Coast Agriculture Field Station. Unidentified light- and dark-toned mounded material (MMLT, MMDT) is located over much of the southeastern portion of the area. Additional investigation is not recommended at this time, unless contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

→ c 564. Grading (GR) appears to be complete in the south-central area of the MCAS El Toro residential area. Additional investigation is not recommended at this time.

c 565. Commercial and industrial development (buildings (B) and grading (GR)) continues adjacent to the southwestern and southeastern borders of the activity. Additional investigation is not recommended at this time, unless contamination is detected near the site, or downgradient of the site, in areas of interest to the IR program.

a 566. No significant changes are noted at the Communication Station Landfill (Site 17), the Magazine Road Landfill (Site 2) or EOD Range (Site 1). Extraction (EXT) of the ridge between the Communication Station and Magazine Road Landfills appears to have ceased. Vegetation has been stripped from the area north of the Magazine Road Landfill. No additional investigation of these sites is recommended at this time. The current IR program field investigation of the Site 1 area appears to be adequate, relative to the features noted here. These areas are not indicated on the reproduced photograph overlay.

c 567. The open storage (OS) area at the intersection of the railroad tracks and Bee Canyon Wash may contain drums (D) in several locations. Additional investigation is recommended.

c 568. The cultivated field, west of Gate No. 1 on Trabuco Road, contains two (2) perpendicular, dark lineations (DGDT), about 400 feet and 800 feet long. The lineations are probably plowed wet soil (WS). Additional investigation is not recommended at this time.

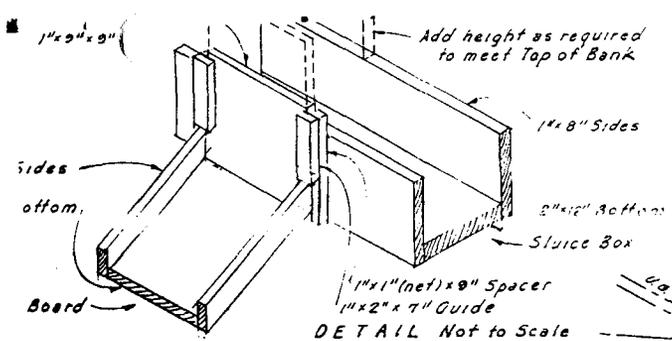
c 569. Liquid (LQ) is flowing toward the northwest from the Marine Exchange (Building 649). Additional investigation is not recommended at this time.

SOUTHWESTNAVFACENGCOM  
Code 5BME.LMH  
1220 Pacific Highway  
San Diego, CA 92132  
Telephone: (619) 532-4162/Fax: (619) 532-4160

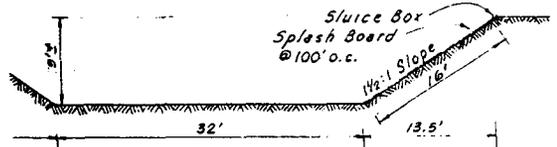
File: aerial4

## Exhibit 3

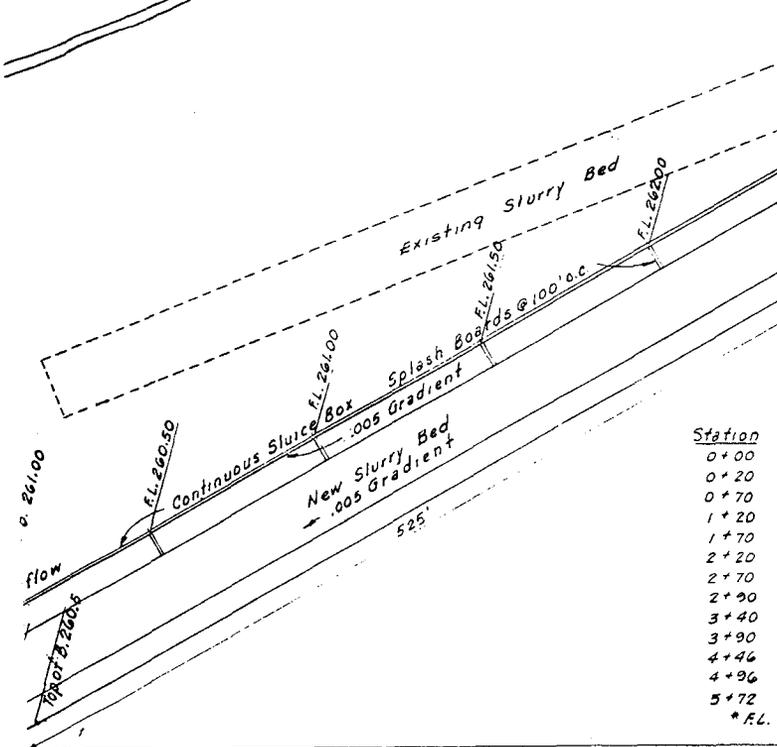
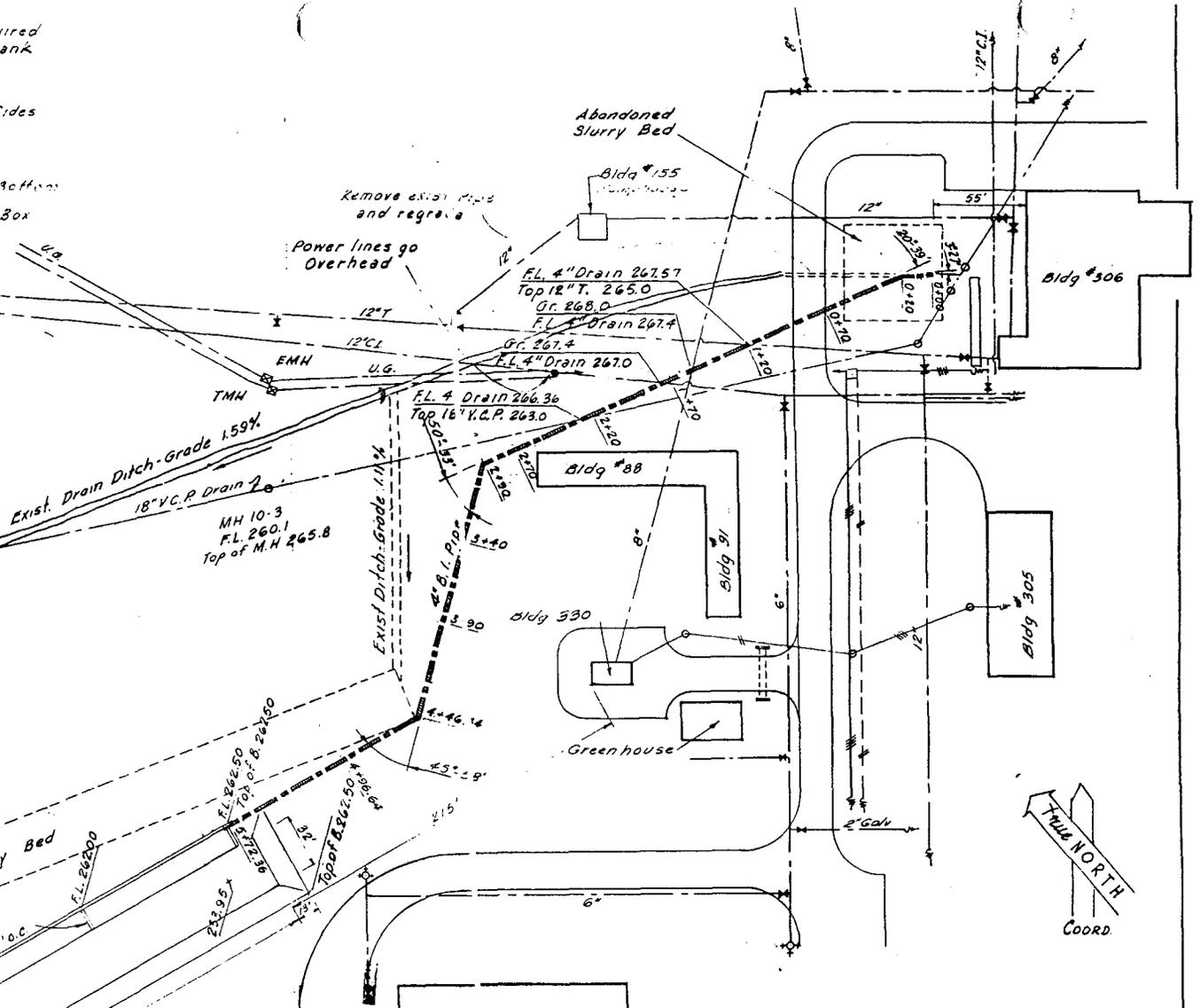
### Historical Drawing of Slurry Beds near Building 306



DETAIL Not to Scale



TYPICAL SECTION  
Scale: 1"=10'



**NEW 4" DRAIN**

Station	Exist Elev	F.L. 4" Pipe	Remarks
0+00		262.88	
0+20		262.88	
0+70	268.82	* 268.12	Provide 6" Cover for road
1+20	268.2	267.57	
1+70	267.5	267.02	
2+20	266.7	266.47	
2+70	266.8	265.92	Provide 12" min. Cover
2+90	265.7	265.70	
3+40	265.7	265.15	
3+90	265.1	264.60	
4+46	264.45	263.98	
4+96	263.8	263.43	
5+72	263.2	262.60	

\* F.L. is uniform .011 gradient from 0+70 to 5+72  
REF. E. 107 p. 53

PLAN  
Scale: 1"=50'

This drwg. supercedes and cancels W.O.-3758 drwg. dated 3/14/49 titled, 'New Slurry Pit Area D-B'

REVISION	DATE	DESCRIPTION	BY	DATE	APPROV
U. S. MARINE CORPS AIR STATION EL TORO, CALIFORNIA PUBLIC WORKS DEPARTMENT					
DRAWN BY: H.J. [Signature]		<b>AREA D-B (48)</b> <b>NEW 4" DRAIN &amp; SLURRY PIT</b>			
TRACED BY:					
DESIGNED BY: L.A.					
CHECKED BY:					
APPROVED: [Signature]		DATE: 5/12/49	SCALE: AS SHOWN	DRAWING NUMBER: W.O. 3758	
				SHEET 1 OF 1	