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January 1998

EPA Superfund Record of Decision:

El Toro Marine Corps Air Station, OU 2A & 3A (No Action Sites) El Toro, CA 9/29/1997

DRAFT FINAL
RECORD OF DECISION
OPERABLE UNITS 2A AND 3A
NO ACTION SITES
MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

SEPTEMBER 1997

DECLARATION

DECLARATION

SITE NAME AND LOCATION

Marine Corps Air Station (MCAS) El Toro
Operable Unit-3A, Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, and 22
Operable Unit-2A, Site 25
Orange County, California

STATEMENT OF BASIS AND PURPOSE

This decision document presents the selected remedial action for Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25 at MCAS El Toro in Orange County, California. The document was developed in accordance with the Comprehensive Environmental Response, Compensation; and Liability Act of 1980 (CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986 and, to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan. This decision is based on the administrative record file for these sites.

The State of California (through the California Environmental Protection Agency, Department of Toxic Substances Control, and Santa Ana Regional Water Quality Control Board) and the U.S. Environmental Protection Agency concur with the selected remedy.

DESCRIPTION OF THE SELECTED REMEDY: NO ACTION

The selected remedy for Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25 is no action. In selecting the no action remedy for these sites, the Navy has determined that the existing condition of the sites is protective of human health and the environment.

Although no deed restrictions are required because of chemicals present in soils at the no action sites, shallow groundwater underlying Sites 9, 10, 13, 15, 21, 22, and portions of Site 25 is contaminated by trichloroethene and tetrachloroethene. Remedial investigations have shown that the contamination does not originate from these sites but from Site 24, the volatile organic compound source area. Use restrictions for several sites (including Site 24 and the no action sites listed above) prohibiting drilling of wells and/or extraction of groundwater and allowing access for groundwater monitoring and maintenance of equipment associated with groundwater remediation will be addressed in the Proposed Plan(s) and Record(s) of Decision for Operable Unit-1 and -2A regarding groundwater.

DECLARATION STATEMENT

Based on extensive field investigations, laboratory analyses, and a thorough assessment of potential human-health risks at each location and of potential ecological risks at Site 25, the Navy has determined that no remedial action is necessary to assure the protection of human health and the environment at Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25. The Remedial Investigations of these sites show that contamination is limited to the shallow soil interval (Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, and 22) and to sediment and

surface water (Site 25). The human health and ecological risk assessments show that the chemicals present in these media do not present an unacceptable risk to human health or the environment. Therefore, no remedial action is required at these sites. Since hazardous substances are not present at concentrations above unacceptable levels, CERCLA Section 121 cleanup standards do not apply.

Signature: _____ Date:_____

Mr. Joseph Joyce
Base Closure and Realignment Environmental Coordinator
Marine Corps Air Station El Toro

Signature: _____ Date:_____

Mr. John E. Scandura, Chief
Southern California Operations
Office of Military Facilities
Department of Toxic Substances Control

Signature: _____ Date: 9/29/97

Mr. Daniel D. Opalski, Chief
Federal Facilities Cleanup Branch
United States Environmental Protection Agency, Region IX

Signature: _____ Date:_____

Mr. Gerald J. Thiebeault
Executive Officer
Regional Water Quality Control Board, Santa Ana Region

surface water (Site 25). The human health and ecological risk assessments show that the chemicals present in these media do not present an unacceptable risk to human health or the environment. Therefore, no remedial action is required at these sites. Since hazardous substances are not present at concentrations above unacceptable levels, CERCLA Section 121 cleanup standards do not apply.

Signature: _____ Date: Sept 23, 1997
Mr. Joseph Joyce
Base Closure and Realignment Environmental Coordinator
Marine Corps Air Station El Toro

Signature: _____ Date: Sept. 26, 1997
Mr. John E. Scandura, Chief
Southern California Operations
Office of Military Facilities
Department of Toxic Substances Control

Signature: _____ Date: 9/29/97
Mr. Daniel D. Opalski, Chief
Federal Facilities Cleanup Branch
United States Environmental Protection Agency, Region IX

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Mr. Gerald J. Thiebault
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Regional Water Quality Control Board, Santa Ana Region

09/29/97 MON 08:06 [TX/RX NO 5276]

09/30/97 TUE 15:57 [TX/RX NO 5313]

TABLE OF CONTENTS

Section | Page

DECLARATION

DECISION SUMMARY

1 SITE NAME, LOCATION, AND DESCRIPTION

1.1 Site Name 1-1
1.2 Site Location 1-1
1.3 Site Description 1-1
1.4 Geology and Hydrogeology 1-5
1.5 Surface Hydrology 1-6
1.6 Current Land Use 1-6
1.7 Future Land Use 1-15

2 SITE HISTORY AND ENFORCEMENT ACTIVITIES

3 HIGHLIGHTS OF COMMUNITY PARTICIPATION

3.1 Restoration Advisory Board 3-1
3.2 Fact Sheets 3-1
3.3 Community Participation for No Action Sites 3-2

4 SCOPE AND ROLE OF OPERABLE UNIT

5 SUMMARY OF SITE CHARACTERISTICS

5.1 Site 4 5-1
5.2 Site 6 5-2
5.3 Site 9 5-2
5.4 Site 10 5-5
5.5 Site 13 5-7
5.6 Site 15 5-9
5.7 Site 19 5-11
5.8 Site 20 5-14

TABLE OF CONTENTS (continued)

Section Page

5.9 Site 21 5-18

5.10 Site 22 5-18

5.11 Site 25 5-23

6 SUMMARY OF SITE RISKS

6.1 Human-Health Risk Assessment 6-1

6.2 Ecological Risk Assessment 6-4

7 DESCRIPTION OF NO ACTION ALTERNATIVE

8 DOCUMENTATION OF SIGNIFICANT CHANGES

9 REFERENCES

RESPONSIVENESS SUMMARY

ATTACHMENT

A ADMINISTRATIVE RECORD FOR NO ACTION SITES

FIGURES

Figure

1-1 Vicinity Map 1-2

1-2 Site Location Map 1-3

1-3 Groundwater Elevation Map of MCAS El Toro 1-13

TABLE OF CONTENTS (continued)

TABLES

Table		Page
1-1	OU-2A and OU-3A Site Descriptions and Land Uses	1-7
2-1	Summary of Environmental Investigations at MCAS El Toro	2-4
3-1	Summary of MCAS El Toro Fact Sheets	3-2
5-1	Summary of Shallow-Soil Data for Site 4 – Units 1, 2, and Catch Basin	5-3
5-2	Summary of Shallow-Soil Data for Site 6 – Units 1, 2, and 3, and Catch Basin	5-6
5-3	Summary of Shallow-Soil Data for Site 9 – Units 1 and 2	5-8
5-4	Summary of Shallow-Soil Data for Site 10 – Units 1, 2, 3, and 4	5-10
5-5	Summary of Shallow-Soil Data for Site 13 – Units 1 and 2	5-12
5-6	Summary of Shallow-Soil Data for Site 15 – Unit 2	5-13
5-7	Summary of Shallow-Soil Data for Site 19 – Units 2 and 3	5-15
5-8	Summary of Shallow-Soil Data for Site 20 – Units 1, 4, and Catch Basin	5-16
5-9	Summary of Shallow-Soil Data for Site 21 – Unit 1 and Catch Basin	5-19
5-10	Summary of Shallow-Soil Data for Site 22 – Units 1 and 2	5-22
5-11	Summary of Surface Water Data for San Diego Creek	5-25
5-12	Summary of Sediment Data for Site 25	5-26
6-1	Summary of Total Lifetime Cancer Risk and Chronic Hazard Index Due to Surface Water – Recreational Use of Site 25	6-3
6-2	OU-3A No Action Sites – Summary of Human-Health Risk Results	6-5
6-3	Hazard Quotients for Selected Ecological Receptors at Site 25	6-9

ACRONYMS/ABBREVIATIONS

AOC	area of concern
ARAR	applicable or relevant and appropriate requirement
BCT	BRAC Cleanup Team
bgs	below ground surface
BNI	Bechtel National, Inc.
BRAC	Base Realignment and Closure
Cal-EPA	California Environmental Protection Agency
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
COPC	chemical of potential concern
COPEC	chemical of potential ecological concern
CSF	cancer slope factor
DoD	U.S. Department of Defense
DON	U.S. Department of the Navy
DQO	data quality objective
DTSC	Department of Toxic Substances Control
FFA	Federal Facilities Agreement
FS	Feasibility Study
HHRA	Human-Health Risk Assessment
HI	hazard index
HQ	hazard quotient
IAS	Initial Assessment Study
IRP	Installation Restoration Program
Irvine Subbasin	Irvine Groundwater Subbasin
MCAS	Marine Corps Air Station
MCPP	2-(2-methyl-4-chlorophenoxy)-propionic acid
µg/L	micrograms per liter
mg/kg	milligrams per kilogram
mg/kg-day	milligrams per kilogram per day
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
OCWD	Orange County Water District
OU	operable unit

ACRONYMS/ABBREVIATIONS (continued)

PCB	polychlorinated biphenyl
PCE	tetrachloroethene
RAB	Restoration Advisory Board
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facilities Assessment
RfD	reference dose
RI	Remedial Investigation
RME	reasonable maximum exposure
ROD	Record of Decision
RWQCB	(California) Regional Water Quality Control Board
SIPOA	Site Inspection Plan of Action
SVOC	semivolatile organic compound
SWDIV	Southwest Division Naval Facilities Engineering Command
SWMU	solid waste management unit
TCE	trichloroethene
U.S. EPA	United States Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound

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DECISION SUMMARY

Section 1
SITE NAME, LOCATION, AND DESCRIPTION

1.1 SITE NAME

The eleven sites addressed in this decision document are contained in operable units (OUs)-2A and -3A, at Marine Corps Air Station (MCAS) El Toro. The Navy Installation Restoration Program (IRP) site numbers and names follow.

OU-2A:

- Site 25, Major Drainages

OU-3A:

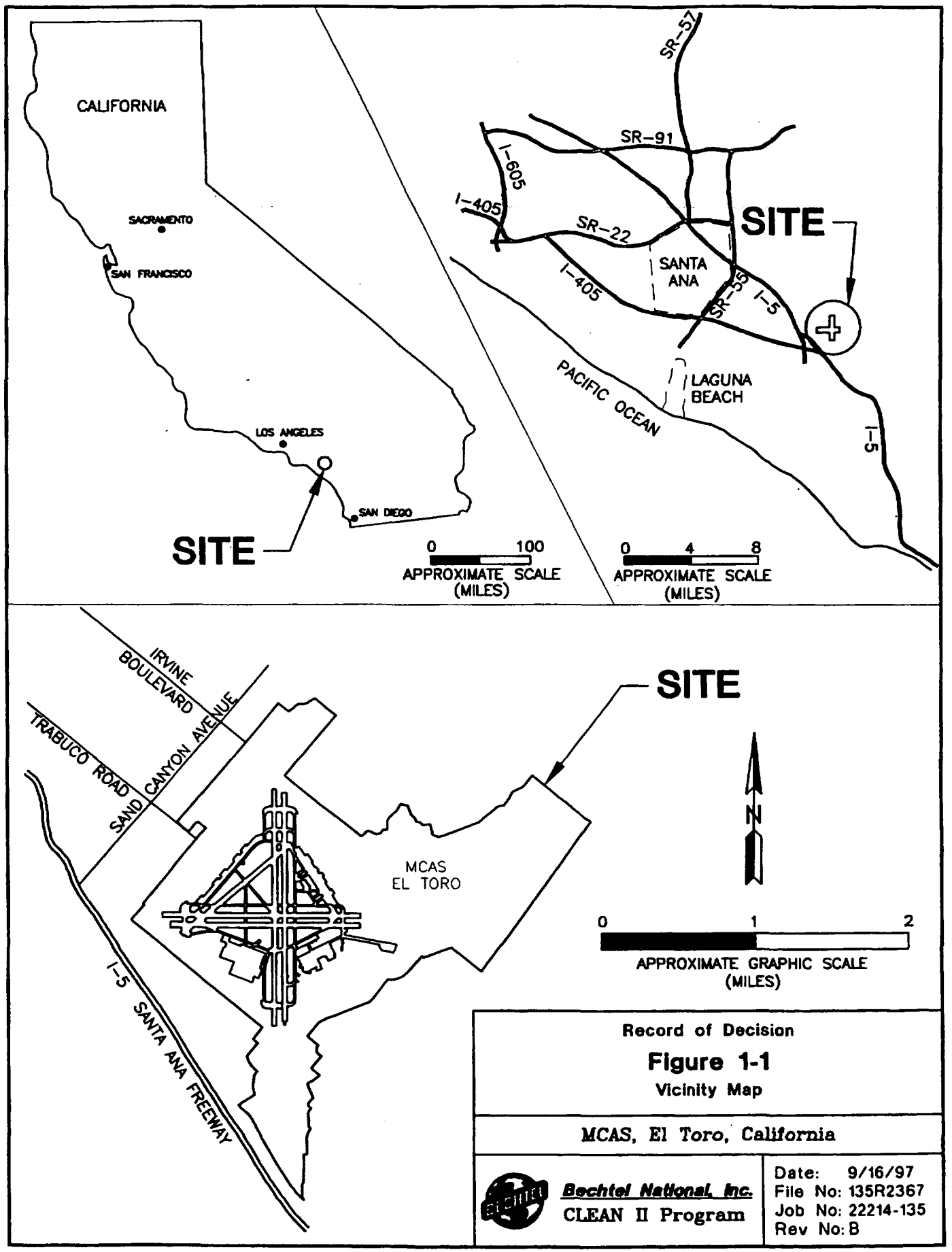
- Site 4, Ferrocene Spill Area
- Site 6, Drop Tank Drainage Area No. 1
- Site 9, Crash Crew Pit No. 1
- Site 10, Petroleum Disposal Area
- Site 13, Oil Change Area
- Site 15, Suspended Fuel Tanks
- Site 19, Aircraft Expeditionary Refueling Site
- Site 20, Hobby Shop
- Site 21, Materials Management Group
- Site 22, Tactical Air Fuel Dispensing System

1.2 SITE LOCATION

MCAS El Toro lies in a semiurban agricultural area in southern California, approximately 8 miles southeast of the city of Santa Ana and 12 miles northeast of the city of Laguna Beach (Figure 1-1). Land northwest of the Station is used for agricultural purposes. The land to the south and northeast is used mainly for commercial, light industrial, and residential purposes. Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25 are located throughout the Station as shown in Figure 1-2.

1.3 SITE DESCRIPTION

MCAS El Toro is located on the Tustin Plain, a broad alluvial valley. The Station comprises runways, aircraft maintenance and training facilities, housing, shopping facilities, and other support facilities totaling 4,478 acres. OU-3A no action site elevations range from approximately 240 to 400 feet above mean sea level and are located adjacent to the runways and other industrialized areas of the Station. Each of the OU-3A sites is relatively flat. Most of the sites are covered by asphalt, concrete, or hard-packed soil that is partially vegetated. None of these sites contains any significant ecological habitat. With the exception of Site 12 (immediately adjacent to an exposed



Record of Decision

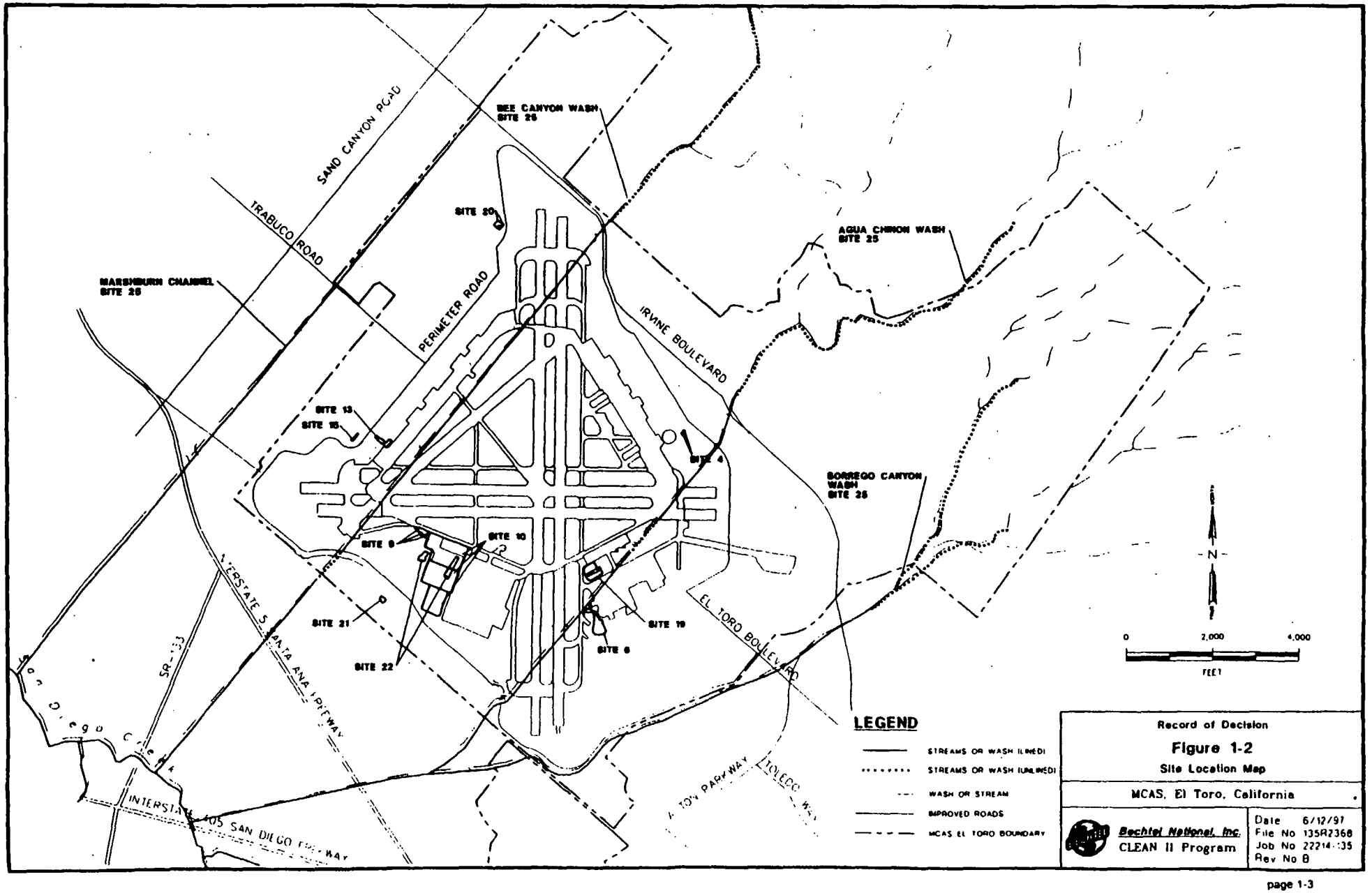
Figure 1-1

Vicinity Map

MCAS, El Toro, California

Bechtel National, Inc.
CLEAN II Program

Date: 9/16/97
File No: 135R2367
Job No: 22214-135
Rev No: B



Record of Decision

Figure 1-2

Site Location Map

MCAS, El Toro, California

Bechtel National, Inc.
CLEAN II Program

Date 6/12/91
File No 135R2368
Job No 22214-135
Rev No B

portion of Bee Canyon Wash), the OU-3A no action sites are not adjacent to the exposed portions of any of the major drainages that direct surface runoff away from the Station. More complete descriptions of each of the OU-3A no action sites are found in Table 1-1.

OU-2A Site 25 consists of four main drainage channels that flow through or adjacent to the station. The channels are Agua Chinon Wash, Bee Canyon Wash, Borrego Canyon Wash, and Marshburn Channel (Figure 1-2). Three of these drainages are continuations of natural washes that originate in the Santa Ana Mountains (Agua Chinon Wash, Bee Canyon Wash and Borrego Canyon Wash). Surface drainage from the hills and upgradient irrigated farmland combines with runoff generated from extensive paved surfaces on the Station. The on-Station storm sewer system discharges into the drainage channels, which then flow into San Diego Creek. San Diego Creek discharges into Upper Newport Bay, about 7 miles downstream from its intersection with Marshburn Channel. The channels are mostly lined and/or culverted through the Station. Surface water quality in the channels is monitored in accordance with National Pollutant Discharge Elimination System (NPDES) requirements (Order No. 93-16, NPDES No. CA 0106593).

1.4 GEOLOGY AND HYDROGEOLOGY

MCAS El Toro lies on the southeastern edge of the Tustin Plain, a gently sloping surface of alluvial fan deposits derived mainly from the Santa Ana Mountains. These Holocene materials consist of isolated coarse-grained, stream-channel deposits contained within a matrix of fine-grained overbank deposits that range in thickness up to 300 feet (Herndon and Reilly 1989). Silts and clays predominate in the central and northwestern portion of the Station. Sands are more common near the foothills. The sands are predominantly well graded (poorly sorted), ranging from coarse to fine, and commonly contain clay lenses. Clays exhibit medium plasticity and contain sand (Jacobs Engineering 1993a).

The Station lies within the Irvine Groundwater Subbasin (Irvine Subbasin), which has been designated by the California Regional Water Quality Control Board (RWQCB), Santa Ana Region, as a public water supply source (RWQCB 1995). The regional aquifer beneath MCAS El Toro is not currently a source of municipal drinking water; however, groundwater in the vicinity of the Station is used for agricultural purposes. One on-Station groundwater well that belongs to the Irvine Company, located at the westernmost end of the east-west runway, is used for irrigation and is connected to the regional irrigation distribution system. Other wells pumping irrigation water are located west (three wells) and northwest (four wells) of the Station. The closest agricultural well is 18_TIC111, which is adjacent to the northwest Station boundary. To the west, the nearest well is 18_TIC047, which is located approximately 2,600 feet west of the Station boundary.

Water is first encountered at 95 to 225 feet below ground surface at the OU-3A sites (Table 1-1). Review of water-level and water-quality data for multiple-port monitoring wells and cluster wells throughout the Irvine Subbasin suggests some hydraulic separation may exist between the shallower and deeper portions of the regional

groundwater aquifer. According to 1993 water levels, the direction of flow along the southwest boundary of MCAS El Toro was northwest (Figure 1-3) at a gradient of approximately 0.008 (Jacobs Engineering 1993a). Regional flow has been west and northwest since the 1940s and has been controlled locally by large pumping depressions. The average linear groundwater-flow velocities in the uppermost aquifer across MCAS El Toro are in the range of 0.02 to 1.9 feet per day (JMM 1990).

1.5 SURFACE HYDROLOGY

Surface drainage near MCAS El Toro generally flows southwest, following the slope of the land and perpendicular to the trend of the Santa Ana Mountains. Several washes originate in the hills northeast of MCAS El Toro and flow through or adjacent to the Station en route to San Diego Creek. Off-Station drainage from the hills and upgradient irrigated farmlands combines with Station runoff at MCAS El Toro (generated from the extensive paved surfaces) and flows into four major drainage channels: Borrego Canyon Wash, Agua Chinon Wash, Bee Canyon Wash, and Marshburn Channel. These on-Station drainages comprise IRP Site 25.

The southernmost wash is Borrego Canyon Wash, which flows along the southeast boundary of MCAS El Toro (Figure 1-2). The wash is unlined in the Santa Ana Mountains; downstream of Irvine Boulevard, it is lined. Borrego Canyon Wash crosses the southern corner of the Station and joins Agua Chinon Wash about 1/4 mile downstream of the Station boundary.

Both the Agua Chinon and the Bee Canyon Washes cross the central portion of MCAS El Toro and receive on-Station runoff mainly through storm sewers (Figure 1-2). These washes are contained in culverts through most of their pathways across the Station. Both washes are unlined along several hundred feet at the southwest edge of the Station and are lined and culverted downstream of the Station. Agua Chinon Wash flows into San Diego Creek just east of the intersection of the San Diego and Laguna Beach Freeways, about 1 mile downstream of its confluence with Borrego Canyon Wash. Bee Canyon Wash flows into San Diego Creek just northeast of the same intersection, about 1,500 feet north of Agua Chinon Wash.

Marshburn Channel is a lined drainage channel that runs along the northwestern boundary of MCAS El Toro. The channel receives runoff from upstream agricultural fields and from the western part of the Station (Figure 1-2) and discharges into San Diego Creek about 3/4 mile northwest of Bee Canyon Wash.

1.6 CURRENT LAND USE

MCAS El Toro is bordered on the south and west by the city of Irvine and on the north and east by unincorporated lands. The city of Irvine controls development in surrounding areas that are suitable for urbanization. However, local jurisdictions do not have authority over federal lands.

Table 1-1
OU-2A and OU-3A Site Descriptions and Land Uses

Site No.	Site Name	Approximate Site Area (square feet)	Approximate Depth to Groundwater	Site Description	Current Land Use	Proposed Future Land Use
4	Ferrocene Spill Area	5,000	225 – 240	Site 4 is located in the northeast quadrant of Marine Corps Air Station (MCAS) El Toro adjacent to Ninth Street and immediately southeast of Building 658, a jet engine testing facility. The site is generally flat and is bounded by Ninth Street to the south, Building 658 to the north and west, and Tank Farm No. 5 to the east. The site consists of two units: Unit 1 encompasses approximately 2,500 square feet southeast of Building 658. Most of this area is covered by grass. Part of the unit contains a transformer and associated concrete pad. The pad is surrounded by a fence to limit access. Unit 2 consists of a drainage ditch that runs parallel to Ninth Street south of Building 658. The ditch is approximately 80 feet long and drains to the east into a catch basin that discharges to Agua Chinon Wash. The ditch is vegetated by grasses that show no signs of stress. At its greatest depth, the ditch is no greater than 1 foot below the adjacent Ninth Street (Jacobs Engineering 1993a).	Site 4 is currently an unmaintained, partially grass-covered area adjacent to Building 658 and Ninth Street. Station operations currently conducted near the site consist of engine testing conducted at Building 658.	The primary proposed reuse for Site 4 is research and development/light industrial.
6	Drop Tank Drainage Area No. 1	123,000	140 – 150	Site 6 is located in the southeast quadrant of MCAS El Toro. The site is bounded by taxiways to the north and west, a concrete aircraft parking apron to the east, and East Marine Way to the south. Site 6 consists of three units situated along the edge of a concrete parking apron where aircraft drop tanks were formerly drained of residual jet fuel and then cleaned prior to reuse. The first unit comprises an area adjacent to Building 727 where a mixture of residual fuel and rinse water from the drop tanks flowed off the concrete apron onto the adjacent bare ground. The second unit is a shallow drainage swale that extends from the north side of Building 727 west to a catch basin that eventually discharges into Agua Chinon Wash. The catch basin receives surface runoff and sediment from Site 6. The third unit is a flat area south of the drainage swale where drop tanks were stored.	Site 6 is currently an unmaintained, predominantly grass-covered open area east of Taxiway T-2. No Station operations are conducted within the site boundaries at this time.	The primary proposed reuse for Site 6 is aviation-related uses.
9	Crash Crew Pit No. 1	50,000	120 – 125	Site 9 is located in the southwest quadrant of MCAS El Toro, south of a taxiway for the east/west runway. The terrain in the immediate vicinity of the site is relatively flat. The site consists of two units. The first unit comprises the former locations of two unlined earthen pits used for firefighter training exercises. The size and shape of the two pits appear to have varied over time. Both pits were reportedly about 3 to 4 feet deep (Brown and Caldwell 1986). The pits are no longer used and have been filled to the surrounding grade. The second unit comprises the area between the pits, the area surrounding the pits, and a broad, low, drainage swale extending north and east of the pits to a storm drain inlet. Both units include areas covered with grass and low vegetation as well as unvegetated soil. Surface drainage from the site appears to flow northwest to the storm drain inlet, which eventually discharges into the Bee Canyon Wash (Jacobs Engineering 1993a).	Site 9 is currently an unmaintained, open, partially grass-covered area adjacent to the east-west taxiway. No Station operations are currently conducted at the site, although the area immediately adjacent to it is being used as a repository for construction debris (mainly soil and concrete).	The primary proposed reuse for Site 9 is cargo area.

(table continues)

Table 1-1 (continued)

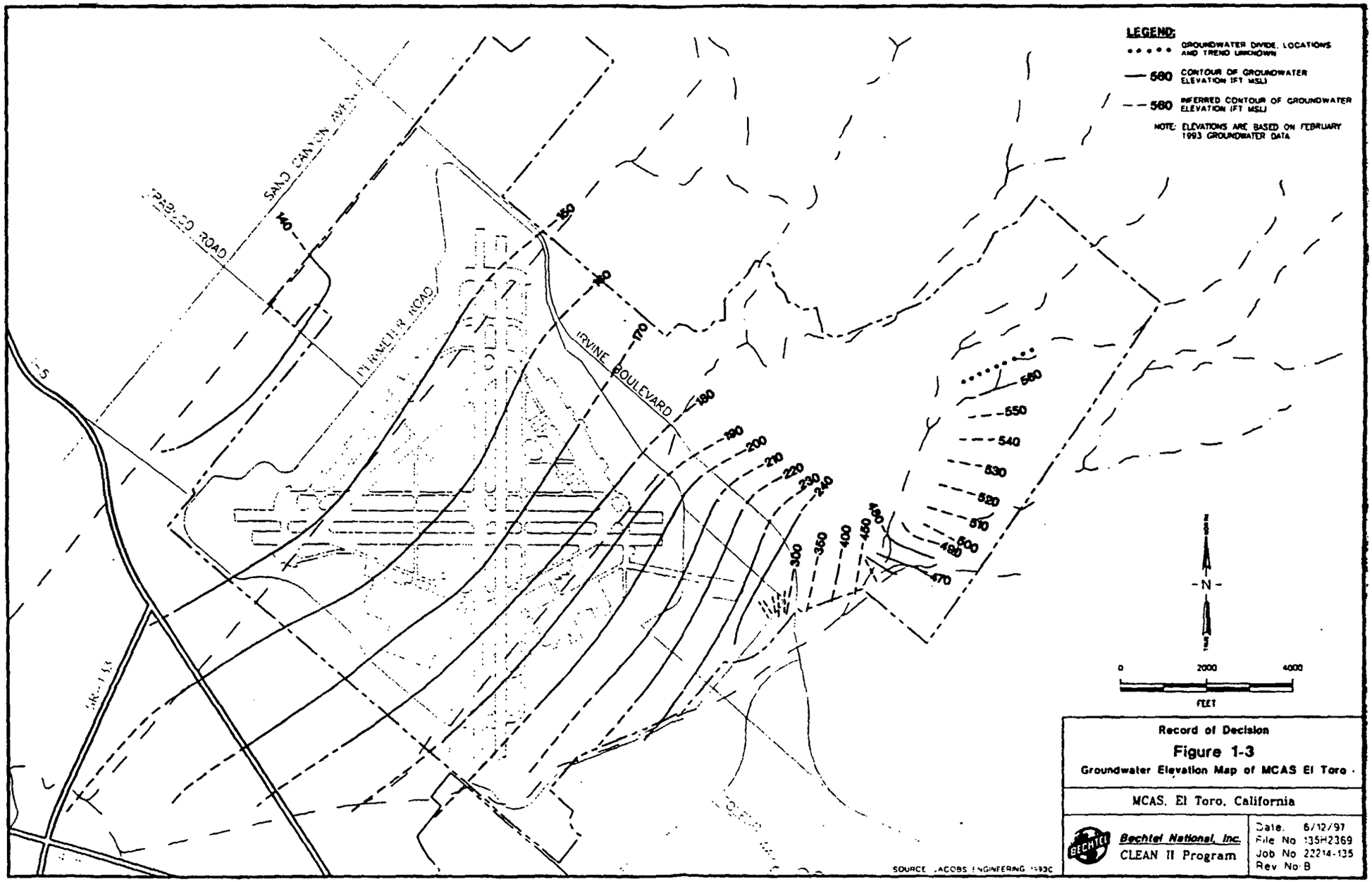
Site No.	Site Name	Approximate Site Area (square feet)	Approximate Depth to Groundwater	Site Description	Current Land Use	Proposed Future Land Use
10	Petroleum Disposal Area	1,219,000	110 – 120	Site 10 is located south of Building 435 and east of Building 369, in the southwestern quadrant of MCAS El Toro. The site covers approximately 23 acres and consists of four units. The first unit, located immediately south and west of Building 435, is covered with metal aircraft matting and is presently used for Building 435 vehicle parking. The second unit is contiguous to the first and consists of a concrete apron used for aircraft parking. The third unit is contiguous to the second and is used by the 14th Combat Equipment Support Unit for military vehicle maintenance and parking. The fourth unit, located approximately 1,000 feet to the west, is an asphalt-paved area used in part for hazardous materials storage (northwest side) and as a parking area (northeast side) for Building 1589.	**Unit 1, Aircraft Matting Area.** The northern edge of Unit 1 is used for employee parking by the MCAS Crash Crew stationed in Building 435. The remaining area of Unit 1 is open and not utilized. **Unit 2, Concrete Apron Area.** The entire unit is used for aircraft parking of C-130 transport planes. **Unit 3, Parking Lot Area.** This unit is used as a staging and maintenance area for military vehicles and vehicle parts by the 14th Combat Equipment Support Unit. **Unit 4, Parking Area North of Building 1589.** The northwest portion is used as a hazardous-materials storage area. The lot is fenced with a locked gate. The northeast portion is used as a parking area for Building 1589.	The primary proposed reuse for Site 10 is cargo area and airport support.
13	Oil Change Area	34,000	135 – 140	Site 13 encompasses about three-quarters of an acre north of Building 242 in the northwest quadrant of MCAS El Toro. The site is bounded on the north by former Tank Farm No. 2 and by the storage yard for Building 242 to the south. The site consists of two units. Both units are relatively flat, unpaved, and generally unvegetated. Unit 1 has small areas with weathered asphalt and spotty grass coverage. Unit 2 contains some small shrubs. There is no obvious surface drainage from the site; however, storm drains near Site 13 discharge into Bee Canyon Wash.	Site 13 is currently an unmaintained, slightly vegetated area. The site is not used for any Station operations; however, part of Unit 2 has been used for storage of aircraft parts for the museum housed in Building 242.	The primary proposed reuse for Site 13 is terminal complex.
15	Suspended Fuel Tanks	11,000	125 – 130	Site 15 is part of a fenced storage yard located in the northwest quadrant of MCAS El Toro, behind Building 31 and north of West Marine Way. The site is relatively flat and at an elevation of approximately 260 feet above mean sea level. Half of the site is covered by a concrete pad and metal aircraft matting; the remainder is bare soil. A narrow (about 2 feet wide), shallow drainage ditch extends from the concrete pad southwest toward the perimeter fence along West Marine Way.	Site 15 remains active and comprises part of the support area for MCAS El Toro Wing Engineering Squadron 37. Building 31 is a utilities shop, and the remainder of the site is used for storage and maintenance of military vehicles and equipment. The vehicles and equipment include cranes, tractors, front-end loaders, bulldozers, power generators, and refrigeration equipment. The site is completely fenced with a gate that is typically locked.	The primary proposed reuse for Site 15 is parking.
19	Aircraft Expeditionary Refueling Area	180,000	150 – 160	Site 19 is located in the southeast quadrant of MCAS El Toro. During its operational period, the site consisted of six 20,000-gallon fuel bladders in 4-foot-high earthen revetments and the associated piping and fuel-dispensing equipment. These facilities were removed following closure of the site in the late 1980s and were replaced by a pump station and underground storage tank complex located adjacent to the east side of Site 19.	Site 19 currently contains a 290- by 65-foot excavation surrounded by a relatively flat, unpaved area. Both the excavation and surrounding area are sparsely vegetated. Currently, no Station operations take place at this site.	The primary proposed reuse for Site 19 is aviation related uses.

(table continues)

Table 1-1 (continued)

Site No.	Site Name	Approximate Site Area (square feet)	Approximate Depth to Groundwater	Site Description	Current Land Use	Proposed Future Land Use
20	Hobby Shop	20,000	185 – 190	Site 20 is located in the northwest quadrant of MCAS El Toro immediately northwest of the intersection of North Ninth Street and West Marine Way at an elevation of approximately 530 feet above mean sea level. The site contains two units that were considered for no action. Unit 1 consists of a shallow drainage swale, 1 to 2 feet below grade, adjacent to the east side of Building 626. Runoff from this unit empties into a drainage ditch that parallels North Ninth Street, eventually emptying into Marshburn Channel. Unit 1 has a short-grass cover with occasional bare spots. Unit 4 consists of the inner courtyard of Building 626, an entry driveway, and a front sloping area adjacent to the drainage ditch along North Ninth Street. The inner courtyard area is paved with asphalt. Automotive repair equipment is located throughout the courtyard. There are several drains in the inner courtyard that eventually discharge into the drainage ditch along North Ninth Street. The entry driveway is concrete and crosses over the drainage ditch. The front area slopes slightly toward the drainage ditch. The front area is grass covered with some bare spots and shade trees.	Unit 4 is currently being used as an auto repair facility for military personnel to repair their privately owned vehicles.	The primary proposed reuse for Site 20 is airfield facilities.
21	Materials Management Group	14,000	95	Site 21 is located in the southwest quadrant of MCAS El Toro. The site is situated at the northwest end of Building 320, which houses the Materials Management Group for MCAS El Toro. Site 21 consists of a single unit and is a former chemical storage area. The one-third-acre site is an unpaved fenced enclosure covered by dirt and gravel, with small areas of patchy concrete. A 20- by 25-foot bermed and covered concrete pad, used for storage of hazardous chemicals, is situated in the southwest corner of the site. A concrete-lined catch basin, which receives surface water runoff, is located just outside the fence near the southwestern corner of the site. The catch basin may also receive runoff from off-site (Jacobs Engineering 1993a).	Site 21 is vacant, and no chemicals are currently stored at the site. The site is completely fenced with a gate that is locked at all times.	The primary proposed reuse for Site 21 is cargo area.
22	Tactical Air-Fuel Dispensing System	80,000	110 – 120	Site 22 is located in the southwest quadrant of MCAS El Toro at an elevation of approximately 280 feet above mean sea level. The site is a former aircraft fuel storage and dispensing facility that comprises two noncontiguous areas: the western and eastern fuel-dispensing areas. While in operation, Site 22 included multiple configurations of aboveground fuel-storage bladders in earthen revetments and the associated piping and dispensing equipment. No remnant equipment from the former site operations remains at either location. The western area is an unmaintained vacant lot adjacent to an aircraft parking apron. The eastern area was removed from service in 1971, and the area is now covered by a concrete parking apron and steel aircraft matting. The terrain at both locations is flat.	Unit 1 of Site 22 is an unmaintained open, unvegetated, unpaved area adjacent to the west side of the concrete apron and aircraft matting at Site 10. Although no Station operations take place at the site, it is used as a dumping area for street debris. The southern half of Unit 2 is paved and continues to be used for aircraft parking. The northern half is covered with Marsten matting and is not currently in use for any Station operations.	The primary proposed reuse for Site 22 is cargo area.
25	Major Drainages	NA	NA	Site 25 consists of four main drainage channels that flow through or adjacent to the station. The channels are Agua Chinon Wash, Bee Canyon Wash, Borrego Canyon Wash, and Marshburn Channel. Three of these drainages are continuations of natural washes that originate in the Santa Ana Mountains (Agua Chinon Wash, Bee Canyon Wash, Borrego Canyon Wash). Surface drainage from the hills and upgradient irrigated farmland combines with runoff generated from extensive paved surfaces on the Station. The on-Station storm sewer system discharges into the drainage channels, which then flow into San Diego Creek. San Diego Creek discharges into upper Newport Bay, about 7 miles downstream from its intersection with Marshburn Channel. The channels are mostly lined and/or culverted through the Station.	Site 25 drainages are currently used to carry runoff from the hills and Station to the San Diego Creek.	Site 25 will continue to act as drainage conduits under the proposed reuse plan.

Note:
* OU – operable unit



Record of Decision

Figure 1-3

Groundwater Elevation Map of MCAS El Toro

MCAS, El Toro, California

Bechtel National, Inc.
CLEAN II Program

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MCAS El Toro encompasses about 4,738 acres. Approximately 1,000 acres are designated for outleases that are not available for development because airfield safety clearances render them unsuitable for any other use. The outleased lands are at the corners of the Station and are used for agricultural purposes, including landscape nurseries, livestock grazing, and crop production.

Land use on MCAS El Toro consists of a few general types. General Station land uses are described in the following four quadrants, as defined by the bisecting north-south and east-west runways.

- The northwest quadrant consists of administrative services (including the MCAS El Toro headquarters, family and bachelor housing, and community support services).
- The northeast quadrant consists of Marine Aircraft Group activities (including training, maintenance, supply and storage, and airfield operations), family housing, community services, and ordnance storage in areas isolated by topographic relief and distance from other developments.
- The southeast quadrant consists of administrative services, maintenance facilities, ordnance storage, and the golf course.
- The southwest quadrant consists of aircraft maintenance facilities, supply and storage facilities, and limited administrative services.

MCAS El Toro continues to provide materials and support for aviation activities of the United States Marine Corps. The current land use of each of the 11 sites included in this Record of Decision (ROD) is described on Table 1-1.

Historically, land use around MCAS El Toro has been largely agricultural. However, the land to the south, southeast, and southwest has been developed over the past 10 years for commercial, light-industrial, and residential uses. Currently, expanding commercial areas are located adjacent to the Station. Additional residential areas are located to the northwest and west of the Station. Adjacent land to the northeast and northwest is used for agriculture.

Growth projections through the year 2000 for the area surrounding the Station indicated continued urbanization. The estimated population in the city of Irvine in 1990 was 105,311. Population projections indicate further increases to 118,570 by the year 2000 and 208,220 by the year 2020. Population growth has occurred primarily in the central residential districts within 2 to 3 miles of the Station.

1.7 FUTURE LAND USE

MCAS El Toro is scheduled for closure in 1999. A Community Reuse Plan has been prepared (MCAS Local Redevelopment Authority 1996). This plan is a conceptual, policy-level reuse plan. A more detailed master plan shall be developed as a second phase of reuse planning and will identify more site-specific land uses. The preferred alternative selected in the December 1996 Community Reuse Plan was a major airport

with a variety of potential future uses for MCAS El Toro property. The proposed reuse for each of the 11 sites addressed in this ROD is shown on Table 1-1.

Section 2
SITE HISTORY AND ENFORCEMENT ACTIVITIES

MCAS El Toro was commissioned in March 1943 as a Marine Corps pilot fleet operation training facility. In 1950, the Station was selected for development as a master jet station and permanent center for Marine Corps aviation on the west coast to support the operations and combat readiness of Pacific Fleet Marine Forces. Since its commissioning, MCAS El Toro has been used for aviation activities. Other historical activities have generated waste oils, paint residues, hydraulic fluid, used batteries, and other wastes (MCAS El Toro 1991). Since 1985, when trichloroethene (TCE) was discovered in an irrigation well located approximately 3,000 feet downgradient of MCAS El Toro, the Navy has taken actions to assess the effects of its activities on the surrounding environment and to remediate areas adversely affected by these activities.

Environmental cleanup activities at MCAS El Toro are performed under the Navy IRP. The IRP was developed in 1980 by the Department of Defense (DoD) to comply with federal guidelines to manage and control past hazardous waste disposal actions (DON 1992). From the time TCE contamination was reported in 1985, both the RWQCB and the Department of Toxic Substances Control (DTSC) have been involved in overseeing the investigation and cleanup work done by the Department of the Navy (DON) at this site.

In 1985, the Navy began work on an Initial Assessment Study (IAS) to locate potentially contaminated sites on the Station. This work was conducted for the Naval Facilities Engineering Command under the Navy Assessment and Control of Installation Pollutants Program, which was the Navy version of the DoD IRP at that time. The IAS report identified 17 sites as potential sources of contamination (Brown and Caldwell 1986). The identification of potentially contaminated sites was based on the results of record searches and employee interviews. The report recommended sampling locations and analytical parameters to confirm the suspected contamination at the sites.

In 1987, the Marine Corps contracted for a review of the IAS to produce a Site Inspection Plan of Action (SIPOA) (JMM 1988). In July 1987, while the SIPOA study was underway, the RWQCB Santa Ana Region issued a cleanup and abatement order to the Marine Corps. This order required the Station to initiate a perimeter groundwater volatile organic compound (VOC) investigation and submit a draft report. The SIPOA released in August 1988 included a recommendation of 19 sites for study, and it amended the site sampling plans proposed in the IAS report. This SIPOA report served as the basis for the Sampling and Analysis Plan for the Remedial Investigation (RI)/feasibility study (FS) sites.

In June 1988, the United States Environmental Protection Agency (U.S. EPA) recommended adding MCAS El Toro to the National Priorities List (NPL) of the Superfund Program because of the presence of VOC contamination at the Station boundary and the detection of VOCs in the agricultural wells west of the Station. MCAS El Toro was added to the NPL on 15 February 1990. In October 1990, the Marine Corps/Navy signed a Federal Facilities Agreement (FFA) with the U.S. EPA Region IX, California Department of Health Services (now referred to as the

California Environmental Protection Agency (Cal-EPA) DTSC, and the California RWQCB Santa Ana Region (FFA 1990). The FFA is a cooperative agreement that:

- assures environmental impacts are investigated and appropriate response actions are taken to protect human health and the environment;
- establishes a procedural framework and schedule for developing, implementing, and monitoring appropriate response actions;
- facilitates cooperation, exchange of information, and participation of the parties; and
- assures adequate assessment, prompt notification, and coordination between federal and state agencies.

The implementation of the FFA is included as one of the responsibilities of the Base Realignment and Closure (BRAC) Cleanup Team (BCT). The BCT consists of representatives from the DON Southwest Division Naval Facilities Engineering Command (SWDIV), U.S. EPA, DTSC, and RWQCB Santa Ana Region. The team was established to manage and coordinate environmental restoration and compliance programs related to the closure and disposal of MCAS El Toro by July 1999. In addition, the MCAS El Toro BCT has specified in its mission and vision statements that:

- fast-track remediation of sites is necessary to expedite reuse; and
- restoration and reuse is to be maximized by 1999.

In December 1989, the Navy began to prepare a Phase I RI Work Plan and associated documents for MCAS El Toro. The Navy reviewed the available reports and other documents pertinent to past disposal practices at the Station and concluded that 22 sites would be investigated (Jacobs Engineering 1993a). These sites were grouped into three OUs. OU-1 comprised the regional VOC groundwater investigation (Site 18), which was conducted both on and off the Station. OU-2 included the four landfill sites (Sites 2, 3, 5, and 17) considered to be potential source areas for the regional groundwater VOC contamination and Site 10, the petroleum disposal area (this site was later moved to OU-3). The remaining 16 sites were grouped together as OU-3. These sites were considered to be potential sources for a variety of contaminants. The principal objectives of the Phase I RI were to evaluate the source(s) of contamination in regional groundwater west of the Station and determine whether contamination exists and is affecting the environment at sites in OU-2 and OU-3.

In March 1993, MCAS El Toro was placed on the Base Closure and Realignment Act III list of military facilities considered for closure. Under the terms of the FFA, Station closure would not affect the Navy's obligation to conduct the RI/FS and to comply with the other requirements of the FFA (FFA 1990, Section 37, Base Closure).

The results of the Phase I RI were documented in a draft Technical Memorandum issued in July 1993 (Jacobs Engineering 1993a) and in a draft RI report for OU-1 issued in July 1994 (Jacobs Engineering 1994a). A variety of contaminants in the groundwater, soil, surface water, and sediment at MCAS El Toro were identified during the Phase I RI. Contaminants in the soil and sediment consisted primarily of low concentrations of semivolatile organic compounds (SVOCs),

petroleum hydrocarbons, pesticides, herbicides, and polychlorinated biphenyls (PCBs) (Jacobs Engineering 1993a). It was also concluded during the Phase I RI that the source of contamination for regional groundwater is in the southwest quadrant of the Station, but no specific sources were identified. The sampling events yielded sufficient information to warrant conducting a preliminary risk assessment of contaminants at the sites for both groundwater and soil contamination. The results of the Phase I RI provided the primary data for the Phase II RI/FS.

Concurrent with the Phase I RI, the Navy conducted a Resource Conservation and Recovery Act (RCRA) Facilities Assessment (RFA) at MCAS El Toro. The purpose of the RFA was to evaluate whether an additional 140 sites at MCAS El Toro would require further investigation under the Phase II RI/FS program. The final RFA report was submitted in July 1993 (Jacobs Engineering 1993b). Based on an evaluation of the sampling visit results, 25 solid waste management units (SWMUs)/areas of concern (AOCs) were recommended for further action. Site 23 (Wastewater Treatment Plant Sewer Lines) was evaluated in the RFA and recommended for no further action. The sewer lines are located within Site 24, which was added to the Phase II scope.

Interviews with active and retired personnel from the Fuel Operations Division and Facility Management Department (currently the Installations Department) were held in July 1994 at MCAS El Toro (Jacobs Engineering 1994b). The objectives of the meeting were to supplement and confirm information obtained from past interviews and field investigations, to obtain a better understanding of current and historical operations at MCAS El Toro, and to identify new areas of potential environmental concern at MCAS El Toro. Those interviewed had knowledge of operations and procedures for storage and disposal of hazardous materials and waste. The interview panel consisted of regulatory agency personnel, Navy and MCAS El Toro personnel, and contractor personnel.

The subjects covered during the interviews included underground storage tanks (USTs), aboveground storage tanks, RI/FS investigation sites, tank farms, disposal procedures, disposal areas, and any accidental or unintentional spills or leaks that may have occurred. Much of the information gathered form previous interviews and field investigations was confirmed. The interview panel discussed the types of wastes deposited in each of the landfills, the depth and the boundaries of the landfills, and how the wastes were handled. Other subjects discussed included the types of operations that occurred on the Station and the types of chemicals used in these operations.

In July 1995, a final Work Plan for the Phase II RI/FS was issued (BNI 1995). This Work Plan presented an approach to conduct the Phase II RI at 24 sites, including two new sites, Site 24 and Site 25. The objectives of the plan were to present a statistically based sampling strategy to numerically establish confidence that inferences made from the data are correct, establish background concentrations of metals in soils and, ultimately, collect sufficient information to support risk management decisions. The Phase II RI was conducted in 1995 and 1996.

Table 2-1 summarizes the enforcement activities and environmental investigations that have occurred at MCAS El Toro.

Table 2-1
Summary of Environmental Investigations at MCAS[a] El Toro

Date	Investigation	Objective	Summary of Findings
1985	IAS[b]	Locate potentially contaminated sites at MCAS El Toro using record searches and employee interviews.	Identified 17 sites as potential sources of contamination. Recommended sampling locations and analytical parameters to confirm the suspected contamination at the 17 sites.
1986	OCWD[c] Groundwater Investigation	Investigate source of TCE[d] found in agricultural well west of MCAS El Toro.	After installing a series of monitoring wells and soil vapor probes and reviewing independent investigations, OCWD concluded that MCAS El Toro was the source of contamination detected in groundwater downgradient of the Station.
1988	Site Inspection Plan of Action	Review IAS findings.	Recommended 19 sites for investigation and amended the site sampling plans proposed in the IAS report. This included one site (Site 18) intended to address the off-Station contaminant plume of VOCs[e].
1988	Perimeter Study Investigation	Address the RWQCB[f], Santa Ana Region Cleanup and Abatement Order requiring investigation of the source of regional VOC groundwater contamination.	Detected the presence of VOCs in shallow groundwater near the southwestern boundary of the Station.
1989	Interim pump and treat system	Pump and treat VOC-contaminated groundwater from three extraction wells near the Station boundary.	Groundwater was extracted at a combined rate of 30 gallons per minute from three wells and treated with granular-activated carbon. Extracted groundwater had concentrations of TCE and PCE[g] from 10 to 160 and 25 to 100 parts per billion, respectively.
1990	Superfund NPL[h]	Identify sites with imminent risks to the public.	MCAS El Toro was added to the NPL for the Superfund Program due to VOC contamination at the Station boundary and the detection of VOCs in agricultural wells to the west.
1989	Phase I RI[i] Work Plan and associated documents for MCAS El Toro	Formulate Work Plan, Field Sampling Plan, and other RI documents to direct the Phase I fieldwork.	Navy concluded that 22 sites would be investigated and grouped into three OUs[j].

(table continues)

Table 2-1 (continued)

Date	Investigation	Objective	Summary of Findings
1993	Base Closure and Realignment Act	Identify sites for closure.	MCAS El Toro was placed on the BRAC[k] III list. Under the terms of the FFA[l], Station closure would not affect the Navy's obligation to conduct the RI/FS[m] and comply with the other requirements of the FFA.
1993	Draft Technical Memorandum Draft OU-1 RI Report	Document results of the Phase I RI. The principal objectives of the Phase I RI were to make an initial determination regarding the existence and risks of contamination at sites in OU-1, OU-2, and OU-3. Three sites were added during the Phase I RI.	Various contaminants in the groundwater, soil, surface water, and sediment were detected at MCAS El Toro. Soil and sediment contaminants were primarily SVOCs[n], petroleum hydrocarbons, pesticides, herbicides, and PCBs[o]. The Phase I RI concluded that the source of contamination for regional groundwater was the southwest quadrant of the Station, but it did not indicate specific sources. A preliminary risk assessment was conducted for contaminants at the sites in both groundwater and soil.
1993	RCRA[p] Facility Assessment	Evaluate whether an additional 140 sites at MCAS El Toro would require further investigation under the Phase II RI/FS program.	Based on the RCRA Facility Assessment results, SWMUs/AOCs[q] were recommended for further action. This action included additional subsurface investigation or other activities such as inspection of underground storage tanks, repair of cracks in concrete-paved areas, and excavation of contaminated soil. Of these 25 SWMUs/AOCs, 2 were recommended for further action under the Phase II RI/FS program. Site 23 was investigated and recommended for no further action.
1994	Final Phase I Soil Gas Survey	Identify potential VOC sources within Sites 24 and 25.	The soil gas survey investigated soil conditions (generally 12 to 20 feet below ground surface). Elevated concentrations of VOCs were detected beneath the aircraft maintenance hangars (Buildings 296 and 297). TCE was the dominant compound detected. Other VOCs detected included PCE, 1,1-dichloroethene, Freon 113, carbon tetrachloride, and chloroform.

(table continues)

Table 2-1 (continued)

Date	Investigation	Objective	Summary of Findings
1994	Draft Interim-Action Feasibility Study for groundwater contamination designated as OU-1	To evaluate potential actions to reduce the impact of the VOC-contaminated groundwater on the OCWD Desalter Project.	Several alternatives for potential action were presented. Decision on the most appropriate alternative is expected to take place in 1997.
1994	Interviews with active and retired personnel	To supplement and confirm information from past investigations and interviews, obtain a better understanding of current and historical operations, and identify new areas of potential environmental concern.	The interview panel provided information about types of operations that occurred on-Station and types of chemicals used in these operations.
1995	Final Work Plan for Phase II RI/FS and associated documents	Present an approach to conduct the Phase II RI at 24 sites at MCAS El Toro using the U.S. EPA[r] DQO[s] process. Establish background concentrations of metals in soils and groundwater. Establish a process to collect sufficient information to support decisions on risk management.	Established DQO process for conducting RI/FS. Two new sites, Site 24 and Site 25, were established for investigation in Phase II.
1997	Draft Final RI Reports for OU-3A and Site 25	To determine the nature and extent of contamination in at Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25 and evaluate the human-health risk due to this contamination.	Investigations revealed that contamination at Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, and 22 is limited to shallow soils. Contamination at Site 25 is limited to sediment and surface water. In all cases, risks to human health are within the range generally considered acceptable by the U.S. EPA. A recommendation for no action was made to the BCT and was approved.

Notes:

[a] MCAS – Marine Corps Air Station
[b] IAS – Initial Assessment Study
[c] OCWD – Orange County Water District
[d] TCE – trichloroethene
[e] VOC – volatile organic compound
[f] RWQCB – Regional Water Quality Control Board
[g] PCE – tetrachloroethene
[h] NPL – National Priorities List
[i] RI – Remedial Investigation
[j] OU – operable unit
[k] BRAC – Base Realignment and Closure
[l] FFA – Federal Facilities Agreement
[m] FS – Feasibility Study
[n] SVOC – semivolatile organic compound
[o] PCB – polychlorinated biphenyl
[p] RCRA – Resource Conservation and Recovery Act
[q] SWMU/AOC – solid waste management unit/area of concern
[r] U.S. EPA – United States Environmental Protection Agency
[s] DQO – data quality objective

Section 3
HIGHLIGHTS OF COMMUNITY PARTICIPATION

Twenty-four IRP sites are being investigated at MCAS El Toro. A Community Relations Plan (BNI 1996a) was developed to document concerns identified during community interviews and to provide a detailed description of the community relations activities planned in response to information received from the community. The initial plan was prepared in 1991 and revised in 1993 and 1996. The revisions incorporated the most recent assessment of community issues, concerns, and information needs related to the ongoing environmental investigation and remediation program at MCAS El Toro.

The community relations program includes specific activities for obtaining community input and keeping the community informed. These activities include conducting interviews, holding public meetings, issuing fact sheets to provide updates on current remediation activities, maintaining an information repository where the public can access technical documents and program information, disseminating information to the local and regional media, and making presentations to local groups.

Outside of the community relations program, community members and local governmental agencies have participated in planning for the reuse of MCAS El Toro through development of the Community Reuse Plan.

3.1 RESTORATION ADVISORY BOARD

In 1994, individuals from local communities began to play an increasingly significant role in the environmental restoration process with the establishment of the Restoration Advisory Board (RAB). Original membership in the board, which was solicited by the Marine Corps/Navy through paid newspaper notices, exceeded 50 business and homeowners' representatives, local elected officials and regulatory agencies, and interested residents. RAB meetings occur every 2 months, are open to the public, and include interested representatives from the Marine Corps/Navy, city and county offices, and regulatory agencies. Several board members from the RAB have taken information from the regular meetings back to the groups they represent, thus contributing to an increased awareness of the IRP process. In addition, members of the public can contact RAB members to obtain information or express concerns to be discussed at subsequent RAB meetings. A copy of the RAB meeting minutes is available at the MCAS El Toro Information Repository, located at the Heritage Park Regional Library in Irvine, California. RAB meeting minutes are also located on the Navy's SWDIV Environmental Web Page, which can be found at either of the following two Internet addresses:

http://ivory.nosc.mil/~saundel/default.html
http://www.efdswest.navfac.navy.mil/DEP/ENV/default.html

3.2 FACT SHEETS

Facts sheets have been used to ensure an even broader dissemination of information within the local community. The first fact sheet announcing the IRP process at MCAS El Toro was delivered to residents surrounding MCAS El Toro and mailed to city, state,

and federal officials; agencies; local groups; and individuals identified in the Community Relations Plan in November 1991. Subsequent fact sheets were mailed to the community as significant remediation milestones occurred (Table 3-1). These fact sheets have included information concerning the status of site investigations, the upcoming remedy selection process, ways the public can participate in the investigation and remediation of MCAS El Toro, and the availability of the MCAS El Toro Administrative Record. The fact sheets are mailed to approximately 1,800 households, businesses, public officials, and agencies in an effort to reach as many community members as possible.

Table 3-1
Summary of MCAS El Toro Fact Sheets

Fact Sheet Number	Date	Summary of Contents
–	11/91	Information Update/IRP Process
–	12/92	Information Update
1	12/93	Phase II RI Results
2	12/93	RAB Formation
3	7/95	Information Update/Tank 398
4	10/95	Information Update/Engineering Evaluation/Cost Analysis (EE/CA)
5	11/95	MCAS El Toro Building 673-T3 Certification for Closure
6	4/96	Looking Back-Moving Forward Update on IRP Progress
7	12/96	Groundwater Remediation OU-1 and OU-2A
8	4/97	Proposed Plan for Site 24 Vadose Zone

3.3 COMMUNITY PARTICIPATION FOR NO ACTION SITES

The draft final RI report and the Proposed Plan for OU-3A and Site 25 were released to the public in June 1997. These documents were made available to the public at the information repository maintained at the Heritage Park Regional Library in Irvine, California. The notice of availability for these documents was published in the *Orange County Register* and the *Los Angeles Times (Orange County Edition)* on 10 June 1997. The notices also announced the availability of the administrative record file for review. Complete administrative record files are available at the SWDIV in San Diego and at MCAS El Toro. A partial record file is available for review at the information repository. The information repository also contains a complete index of the administrative record file along with information about how to access the complete file at the Station. The Proposed Plan was also distributed to the MCAS El Toro project mailing list.

A public comment period was held from 16 June to 16 August 1997. In addition, a public meeting was held on 31 July 1997. This meeting was announced in the Orange County Register and Los Angeles Times (Orange County Edition) on 24 July 1997. Media alerts

were also used to notify the reporters that the public was invited to the meeting and to encourage the reporters to attend and publicize the event. At this meeting, representatives from the DON, MCAS El Toro, and environmental regulatory agencies answered questions about site conditions and the remedial alternatives under consideration and a public recorder recorded verbal public comments. A response to the comments received during this period is included in the Responsiveness Summary, which is part of this ROD. This decision document presents the selected remedial action for IRP Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25, MCAS El Toro in Orange County, California. The document was developed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986 and the National Oil and Hazardous Substances Pollution Contingency Plan. The decision for these sites is based on the information contained within the administrative record. The administrative record index for the No Action sites is found in Attachment A.

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Section 4
SCOPE AND ROLE OF OPERABLE UNIT

There are 24 IRP sites assigned to three OUs at MCAS El Toro. OU-1 encompasses Site 18 (Regional Groundwater). OU-2 is subdivided into OU-2A, OU-2B, and OU-2C. OU-2A encompasses Site 24 (VOC Source Area) and Site 25 (Major Drainages). Area OU-2A was defined to address the source of regional groundwater contamination. Site 25 was included in this OU because it was not known whether the major drainages at MCAS El Toro were acting as a source of the VOC contamination that is found in the shallow groundwater unit beneath the Station and in the principal aquifer off-Station. The Phase II RI of Site 25 showed that: 1) Site 25 is not a source of regional groundwater contamination; and 2) risks to human health and the environment at Site 25 are acceptable. Therefore, the Phase II RI concluded that no further action is required at Site 25. Site 25 is being addressed in this ROD. Sites 18 and 24 will be addressed in separate RODs.

OU-2B encompasses Sites 2 and 17. OU-2C encompasses Sites 3 and 5. Sites 2, 17, 3, and 5 are generally referred to as the landfill sites. Sites 2, 17, 3, and 5 are being addressed in two separate RODs.

OU-3 was defined to address the remaining IRP sites at MCAS El Toro. OU-3A contains thirteen sites. Ten of these sites (Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, and 22) were investigated, found to contain no unacceptable risks to human health or the environment, and were recommended for no action. These sites are addressed in this ROD. The remaining three OU-3A sites (Sites 8, 11, and 12) were recommended for further study and possible remedial action. These sites will be addressed in a separate ROD. OU-3B sites include Sites 1, 7, 14, and 16. These sites will also be addressed in a separate ROD.

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Section 5
SUMMARY OF SITE CHARACTERISTICS

Interpretation of the nature and extent of contamination at Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25 is based on the Phase I and II RI data presented in the Draft Final OU-3A and Site 25 RI reports (BNI 1997a,b). These data include the results of shallow and deeper subsurface soils investigations, groundwater investigations, soil gas investigations, sediment and surface-water investigations, aerial photograph reviews, and interviews with MCAS El Toro personnel.

The Phase I RI was conducted during 1992 and 1993. The Phase II RI was conducted during 1995 and 1996. The Phase II investigation consisted of a review of data gathered previously (e.g., interviews, aerial photograph surveys, soil gas surveys, results of previous investigations) and additional sampling and analysis designed to fill in data gaps from the Phase I investigation and to provide information necessary to conduct a baseline human-health risk assessment (at all sites) and an ecological risk assessment (at Site 25).

The sections that follow provide a history of the contamination at each site, a summary of sampling performed during the Phase I and II investigations, and tables containing site-specific sampling results. The Phase I and II investigations showed that contamination is limited to shallow soils at Sites 4, 6, 9, 10, 13, 15, 20, 21, and 22; and to surface water and sediment at Site 25. Categories of compounds detected in soils at these sites include VOCs, SVOCs, total petroleum hydrocarbons (TPH), pesticides, herbicides, PCBs, dioxins, and metals.

The site-specific tables summarize the contaminants found at each site. As discussed in Table 1-1, most of the OU-3 sites were divided into units to facilitate the RI. Site-specific results are also presented by unit or groups of units. Grouping of units was based on the location of the site units relative to each other, the nature of historic activities, the nature and magnitude of the chemical contaminants, and physiographic characteristics of the various units. TPH results are excluded from these tables because human-health risks were based on the constituents of TPH (e.g., benzene, toluene, ethylbenzene, xylenes, polynuclear aromatic hydrocarbons) rather than total TPH because a toxicity criterion has not been developed for TPH.

A complete discussion of sampling locations and methodologies, compounds detected at each site, and a discussion of the nature and extent of contamination appears in the Phase II Draft Final RI reports for OU-3A and Site 25 (BNI 1997a,b).

5.1 SITE 4

Site 4 is located in the northeast quadrant of MCAS El Toro. In August, 1983, the contents of a 500-gallon tank (wash water and residual jet fuel) reportedly overflowed during washing and spilled onto the ground, draining into a ditch adjacent to Ninth Street (Jacobs Engineering 1993a). The spilled liquid reportedly contained approximately 5 gallons of ferrocene and hydrocarbon carrier solution. Ferrocene is an organic compound used as an antiknock additive and catalyst in gasoline and jet fuel. In addition to the ferrocene spill, Site 4 is characterized by a stained area that was the result of oily discharge emanating from Building 658, observed over at least a 2-year period. Based

upon the types of activities taking place at Building 658, the discharges may have consisted of heavy oils, solvents, and fuels (Jacobs Engineering 1993a).

Twenty-one shallow-soil (0 to 10 feet below ground surface [bgs]) samples and seven deeper subsurface-soil (greater than 10 feet bgs) samples were collected from eight soil boring or monitoring well locations within Site 4 boundaries during the Phase I investigation. Six soil samples (two shallow samples and four deeper subsurface samples) were also collected from two soil boring located off-site. In addition, one sediment sample was collected from a catch basin located within Unit 2 and groundwater samples were taken from three Site 4 monitoring wells. A Phase II RI was not conducted at this site because the results of the Phase I investigation were considered adequate to characterize the nature and extent of contamination. Table 5-1 summarizes the results of the Phase I investigation. Chemicals detected in shallow soil at Site 4 included VOCs, SVOCs, TPH, pesticides, and metals above MCAS El Toro background levels.

5.2 SITE 6

Site 6 is located in the southeast quadrant of MCAS El Toro. From approximately 1969 to 1983, aircraft drop tanks were transported to Site 6 where their remaining fuel was drained from the tanks. Residual JP-5 fuel in the tanks was washed out onto the concrete apron, and the combined fuel/rinsewater ran onto the adjacent grassy area. It is estimated that approximately 1,400 gallons of JP-5 fuel were drained from the drop tanks onto the concrete apron and washed onto the adjacent areas. In addition to fuels, waste lubricant oils from maintenance operations were also reportedly stored in drums and staged in the area. It is estimated that 300 gallons of waste oil leaked from these storage drums (Brown and Caldwell 1986).

Twenty-two shallow-soil samples, six deeper subsurface-soil samples, and one sediment sample from a catch basin were collected at Site 6 during the Phase I investigation. In addition, two shallow-soil samples and four deeper subsurface-soil samples were collected from three off-site locations. Phase II soil sampling included 7 samples in Unit 1, 6 samples in Unit 2, and 13 samples in Unit 3. All Phase II samples were taken from the shallow-soil interval. Table 5-2 summarizes the results of the Phase I and II investigations. Chemicals detected at Site 4 included VOCs, SVOCs, TPH, and metals. above MCAS El Toro background levels.

5.3 SITE 9

Site 9 is located in the southwest quadrant of MCAS El Toro. Between 1965 and 1971, the site was used as a training area for MCAS El Toro crash crew firefighters. During training exercises, two pits were filled with water and covered with various mixtures of residual fuels and other combustible fluids (e.g., JP-5 fuel, aviation gasoline, crankcase oil, and other wastes). The mixtures were then ignited and extinguished by the firefighters. Water was used as the primary means of extinguishing the fires during the

Table 5-1
Summary of Shallow-Soil Data for Site 4 – Units 1, 2, and Catch Basin
(units reported in milligrams per kilogram)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
UNIT 1				
Volatile Organic Compounds				
Acetone	12	4	0.006 – 0.012	0.00675
Toluene	12	5	0.002 – 0.017	0.0679
Pesticides and Polychlorinated Biphenyls				
4,4'-dichlorodiphenyldichloroethane	10	1	0.0114	0.00279
4,4'-dichlorodiphenyltrichloroethane	2	2	0.000449 – 0.00141	0.000929
Endosulfan I	1	1	0.000763	0.000763
Metals				
Aluminum	12	12	2,490 – 29,000	11,200
Arsenic	12	11	1.7 – 6.7	3.2
Barium	12	12	40.5 – 223	143
Chromium	12	12	7.6 –22.3	12.4
Cobalt	12	12	1.5 – 10.3	5.4
Copper	12	12	2.4 – 16.2	8.12
Manganese	12	12	86.4 – 402	235
Vanadium	12	12	9.5 – 67	33.6
Zinc	12	12	13.3 – 89.7	49.6
UNIT 2				
Volatile Organic Compounds				
2-methylnaphthalene	9	1	2.9	0.661
Acetone	9	2	0.004 – 0.024	0.00761
Naphthalene	9	2	0.78 23	2.94
Toluene	9	1	0.027	0.00811
Xylenes, total	9	1	0.1	0.0162
Semivolatile Organic Compounds				
Benzo(a)pyrene	1	1	0.22	0.22
Benzo(b)fluoranthene	1	1	0.24	0.24
Benzo(k)fluoranthene	1	1	0.27	0.27
bis(2-ethylhexyl)phthalate	5	1	0.38	0.372
Butyl benzyl phthalate	1	1	0.17	0.17
Chrysene	1	1	0.22	0.22

(table continues)

Table 5-1 (continued)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
Fluoranthene	1	1	0.19	0.19
Phenol	1	1	0.27	0.27
Pyrene	1	1	0.21	0.21
Pesticides and Polychlorinated Biphenyls				
4,4'-dichlorodiphenyldichloroethane	9	4	0.00459 – 0.0424	0.0104
4,4'-dichlorodiphenyldichloroethene	9	4	0.00516 – 0.0158	0.00495
4,4'-dichlorodiphenyltrichloroethane	9	5	0.00374 – 0.0582	0.0127
alpha-chlordane	9	1	0.00486	0.00141
delta-BHC	9	1	0.00247	0.00115
Dieldrin	9	1	0.0328	0.00534
Endosulfan II	9	2	0.012 – 0.0141	0.0044
Endosulfan sulfate	1	1	0.000926	0.000926
Endrin	9	3	0.00378 – 0.013	0.00454
Endrin aldehyde	9	3	0.00367 – 0.00878	0.00325
Endrin ketone	9	3	0.000524 – 0.007	0.00251
gamma-chlordane	9	3	0.000302 – 0.00811	0.0018
Methoxychlor	2	2	0.00306 – 0.00326	0.00316
Metals				
Arsenic	9	9	2.1 – 7.5	4.64
Barium	9	9	78.9 – 171	126
Cadmium	9	9	0.71 – 22.8	4.31
Chromium	9	9	6.3 – 85.1	21.1
Cobalt	9	9	3.2 – 8.9	5.14
Copper	9	9	6.1 – 26.4	11.1
Lead	9	9	4.1 – 224	44.1
Mercury	9	3	0.25 – 0.84	0.201
Vanadium	9	9	18.4 – 38.3	29
Zinc	9	9	39.4 – 529	131
CATCH BASIN				
Volatile Organic Compounds				
Acetone	1	1	0.011	0.011
Metals				
Antimony	1	1	3.5	3.5
Cadmium	1	1	4.9	4.9

(table continues)

Table 5-1 (continued)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
Copper	1	1	49.4	49.4
Lead	1	1	258	258
Nickel	1	1	22.1	22.1
Zinc	1	1	126	126

practice sessions. An estimated 123,700 gallons of waste liquids were used in the west pit training exercises (Brown and Caldwell 1986). Although only the west pit operational history is known, the east pit operations are believed to have been similar (Jacobs Engineering 1993a).

Seven shallow and ten deeper subsurface-soil samples were collected during the Phase I investigation. All of these samples were collected within Unit 1 (the pits themselves). Phase II sample locations were positioned throughout Units 1 and 2 (the area between and around the pits) to characterize areas not sampled during the Phase I RI. Thirty-four soil samples were collected within Unit 1. Twenty-eight soil samples were collected in Unit 2. All samples were taken from the shallow-soil interval. Table 5-3 summarizes the results of the Phase I and II investigations. Chemicals detected at Site 9 include VOCs, SVOCs, TPH, dioxins, and metals above MCAS El Toro background levels.

5.4 SITE 10

Site 10 is located in the southwestern quadrant of MCAS El Toro. The site covers 23 acres. Prior to 1971, Site 10 was an open-ground area used for aircraft parking and materials storage. From 1952 through 1970, an estimated 52,000 gallons of liquid wastes, including crankcase oil, antifreeze, hydraulic and transmission fluids, motor oil, and solvents, were sprayed over the site for dust control. The liquid wastes were accumulated in 500-gallon, trailer-mounted tanks parked adjacent to a heavy equipment maintenance shop at Building 1589. The tanks were fitted with spray bars and towed over the area of Site 10, applying the liquid wastes to the open ground.

In 1971, 2 feet of topsoil was excavated and removed from the center of Site 10 and a concrete parking apron was placed over approximately one-third of the site. The excavated soil was transported to the land farm area northwest of Bee Canyon Wash and eventually to the Magazine Road Landfill. A second lift of concrete was placed over the first in 1985.

Nineteen shallow-soil samples and 11 deeper subsurface-soil samples were collected from Units 1 and 2 during the Phase I RI. Phase II sample locations were positioned throughout these units to characterize additional areas not sampled during the Phase I RI.

Table 5-2
Summary of Shallow-Soil Data for Site 6 – Units 1, 2, and 3, and Catch Basin
(units reported in milligrams per kilogram)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
UNITS 1, 2, AND 3				
Volatile Organic Compounds				
1,1,1-trichloroethane	15	3	0.00082 – 0.0014	0.00044
1,3-dichlorobenzene	15	5	0.0011 – 0.0013	0.000594
1,4-dichlorobenzene	15	1	0.00094	0.000331
2-hexanone	22	2	0.005 – 0.013	0.00566
Acetone	22	3	0.01 – 0.049	0.0112
Carbon tetrachloride	37	6	0.003 – 0.007	0.00324
Chloroform	15	12	0.00036 – 0.0016	0.000559
m,p-xylene	15	1	0.0027	0.00071
Methylene chloride	17	4	0.0016 – 0.004	0.000914
o-xylene	15	3	0.0016 – 0.01	0.00115
Phenanthrene	26	5	0.051 – 0.36	0.191
Tetrachloroethene	15	2	0.00058 – 0.00069	0.000335
Toluene	37	18	0.00075 – 0.01	0.00362
Xylenes, total	1	1	0.004	0.004
Semivolatile Organic Compounds				
Benz(a)anthracene	15	6	0.014 – 0.28	0.0327
Benzo(a)pyrene	15	6	0.03 – 0.28	0.0408
Benzo(b)fluoranthene	15	6	0.034 – 0.23	0.0358
Benzo(g,h,i)perylene	15	6	0.032 – 0.21	0.0433
Benzo(k)fluoranthene	15	6	0.015 – 0.13	0.0203
bis(2-ethylhexyl)phthalate	22	5	0.22 – 14	1
Butyl benzyl phthalate	22	2	0.3 – 0.44	0.362
Chrysene	29	6	0.02 – 0.37	0.191
Dibenz(a,h)anthracene	15	5	0.011 – 0.078	0.0158
Fluoranthene	37	7	0.055 – 0.54	0.242
Indeno(1,2,3-c,d)pyrene	15	6	0.012 – 0.17	0.0286
Pyrene	37	7	0.044 – 0.52	0.239
Metals				
Aluminum	47	47	5,850 – 21,100	12,700
Antimony	23	3	0.48 – 5.3	1.59
Arsenic	47	47	1.4 – 7.7	3.63

(table continues)

Table 5-2 (continued)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
Barium	47	46	41.2 – 1,280	149
Beryllium	47	44	0.22 – 0.9	0.539
Cadmium	47	44	0.84 – 11.8	2.2
Chromium	47	47	6.4 – 365	23.8
Cobalt	47	46	2.7 – 10.6	6.24
Copper	47	47	2.4 – 26.5	11.5
Lead	47	47	2.8 – 1,410	52
Manganese	47	47	72.7 – 344	245
Nickel	47	47	3 – 16	11.3
Silver	47	1	1.2	0.147
Vanadium	47	47	18.3 – 57.9	37.5
Zinc	47	47	17.7 – 266	73.7
CATCH BASIN				
Volatile Organic Compounds				
Methylene chloride	1	1	0.031	0.031
Toluene	1	1	0.004	0.004
Semivolatile Organic Compounds				
bis(2-ethylhexyl)phthalate	1	1	0.55	0.55
Metals				
Barium	1	1	202	202
Lead	1	1	36.9	36.9
Zinc	1	1	102	102

In addition, two parking lots (Units 3 and 4) were added and sampled during Phase II. Phase II sampling consisted of 25 shallow-soil samples in Unit 1, 30 shallow-soil samples in Unit 2; 36 shallow-soil samples in Unit 3; and 7 shallow-soil samples in Unit 4. Table 5-4 summarizes the results of the Phase I and Phase II investigations. Chemicals detected at Site 10 included VOCs, SVOCs, and metals above MCAS El Toro background levels.

5.5 SITE 13

Site 13 is located in the northwest quadrant of MCAS El Toro and encompasses about three quarters of an acre. The site is bounded on the north by former Tank Farm No. 2. Trucks were driven to the area southeast of the tank farm for oil changes, and crankcase oil was frequently drained onto the ground. It is estimated that from 1977 to 1983,

Table 5-3
Summary of Shallow-Soil Data for Site 9 – Units 1 and 2
(units reported in milligrams per kilogram)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
Volatile Organic Compounds				
1,1,1-trichloroethane	19	1	0.009	0.00241
1,3-dichlorobenzene	12	1	0.001	0.00033
2-butanone	2	2	0.002 – 0.003	0.0025
Acetone	7	3	0.022 – 0.031	0.0141
Anthracene	17	1	0.088	0.0476
Carbon tetrachloride	13	1	0.003	0.000482
m,p-xylene	12	4	0.0005 – 0.001	0.0006
Phenanthrene	21	2	0.019 – 0.2	0.0332
Toluene	14	6	0.001 – 0.004	0.00108
Semivolatile Organic Compounds				
Acenaphthene	24	1	0.36	0.197
Benz(a)anthracene	21	9	0.0099 – 0.24	0.0304
Benzo(a)pyrene	21	14	0.0039 – 0.24	0.0349
Benzo(b)fluoranthene	21	15	0.0042 – 0.22	0.0343
Benzo(g,h,i)perylene	21	19	0.0053 – 0.27	0.0395
Benzo(k)fluoranthene	21	10	0.0049 – 0.099	0.0143
bis(2-ethylhexyl)phthalate	7	1	6.5	1.24
Chrysene	21	9	0.0036 – 0.18	0.0275
Dibenz(a,h)anthracene	21	11	0.012 – 0.14	0.0242
Dimethyl phthalate	4	1	0.36	0.35
Fluoranthene	28	10	0.013 – 0.51	0.135
Indeno(1,2,3-c,d)pyrene	21	11	0.011 – 0.24	0.0278
Pyrene	25	10	0.012 – 0.39	0.0985
Dioxins and Furans				
1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	35	3	0.0005037 – 0.0017426	0.000289
Metals				
Aluminum	69	69	3,480 – 37,100	13,900
Arsenic	69	66	0.86 – 12.3	3.86
Barium	69	69	43.1 – 34,700	858
Chromium	69	69	3.9 – 36.3	15.2
Cobalt	69	69	2.4 – 36.3	7.54

(table continues)

Table 5-3 (continued)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
Copper	69	69	2.3 – 40.6	9.91
Lead	69	68	1.6 – 112	15.9
Manganese	69	69	105 – 482	263
Nickel	69	69	2.7 – 29.5	8.73
Silver	69	3	0.4 – 0.76	0.12
Thallium	69	24	0.21 – 11.6	0.667
Vanadium	69	69	12.1 – 97	40.6
Zinc	69	69	15.3 – 440	64.2

approximately 7,000 gallons of waste oil were drained onto the ground. The oily soil was subsequently removed. No visible evidence of the oily soil remains.

During the Phase I investigation, 21 shallow-soil samples and 10 deeper subsurface-soil samples were collected within the Site 13 boundaries. Six soil samples were also collected from three off-site boring locations. A Phase II RI was not conducted at this site because the results of the Phase I investigation were considered adequate to characterize the nature and extent of contamination. Table 5-5 summarizes the results of the Phase I RI. Chemicals detected at Site 13 included VOCs, SVOCs, pesticides, and metals above MCAS El Toro background levels.

5.6 SITE 15

Site 15 is part of a fenced storage yard located in the northwest quadrant of MCAS El Toro. Approximately half of the site is covered by a concrete pad and metal aircraft matting. Historically, the storage yard was used for storage and maintenance of military vehicles and equipment, including cranes, tractors, front-end loaders, bulldozers, power generators, and refrigeration equipment. From 1979 to 1984, two 500-gallon aboveground storage tanks containing diesel fuel were located near the entrance gate to Site 15. During this time period, an estimated 500 gallons of diesel fuel spilled onto the bare ground from the fueling nozzles and hoses. The tanks were removed in 1984 (Jacobs Engineering 1993a).

Ongoing operations at Site 15 include equipment maintenance and cleaning on the concrete pad as well as equipment storage in adjacent areas. Wastes generated from on-site operations include waste oil, waste motor fuel, empty paint cans, and paint thinner. Past site operations generated approximately three 55-gallon drums of waste material per month. Phase II RI activities were initiated to investigate the potential release of chemical wastes from washdown of the concrete pad and disposal of waste liquids in the area behind Building 31 (BNI 1995).

Table 5-4
Summary of Shallow-Soil Data for Site 10 – Units 1, 2, 3, and 4
(units reported in milligrams per kilogram)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
UNITS 1, 2, AND 3				
Volatile Organic Compounds				
1,2-dichloroethylene	10	1	0.006	0.00555
Acetone	19	1	0.13	0.0173
Phenanthrene	22	2	0.072 – 0.34	0.0363
Tetrachloroethene	19	2	0.006 – 0.019	0.0065
Toluene	19	7	0.003 – 0.018	0.00663
Semivolatile Organic Compounds				
Benz(a)anthracene	22	4	0.0046 – 0.35	0.0221
Benzo(a)pyrene	30	8	0.0038 – 0.38	0.115
Benzo(b)fluoranthene	29	7	0.0054 – 0.37	0.106
Benzo(g,h,i)perylene	22	6	0.0093 – 0.22	0.0223
Benzo(k)fluoranthene	22	5	0.0039 – 0.23	0.0151
bis(2-ethylhexyl)phthalate	1	1	0.28	0.28
Chrysene	40	5	0.0056 – 0.46	0.187
Dibenz(a,h)anthracene	21	6	0.0097 – 0.03	0.0101
Fluoranthene	40	3	0.022 – 0.77	0.198
Indeno(1,2,3-c,d)pyrene	22	4	0.01 – 0.29	0.0234
Pyrene	40	3	0.024 – 0.78	0.198
Metals				
Aluminum	19	19	4,650 – 23,400	11,300
Arsenic	19	19	1.1 – 5	2.92
Barium	19	19	63.3 – 237	133
Cadmium	19	19	0.44 – 2.3	1.06
Chromium	19	19	4.6 – 20.4	11.8
Cobalt	19	19	2.2 – 10	5.29
Copper	19	19	3.2 – 15.8	9.3
Manganese	19	19	140 – 358	233
Nickel	19	18	3.5 – 15	8.09
Silver	19	3	0.55 – 0.84	0.323
Thallium	19	9	0.15 – 0.4	0.179
Vanadium	19	19	16.5 – 63.7	33.9
Zinc	19	19	22.6 – 79.8	46.9

(table continues)

Table 5-4 (continued)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
UNIT 4				
Semivolatile Organic Compounds				
Indeno(1,2,3-c,d)pyrene	7	1	0.015	0.00642
Metals				
Aluminum	7	7	8,650 – 37,800	22,400
Arsenic	7	7	3.6 – 8.5	5.47
Barium	7	7	57 – 423	215
Beryllium	7	7	0.3 – 1	0.643
Chromium	7	7	9.9 – 28.4	17.8
Cobalt	7	7	4.8 – 16.7	10.3
Copper	7	7	7.3 – 23.9	13.6
Manganese	7	7	175 – 454	309
Nickel	7	7	6.6 – 16	10.8
Vanadium	7	7	26.3 – 88.5	55.7
Zinc	7	7	42.5 – 101	65

The Phase I RI soil sampling activities at Site 15 focused exclusively on the locations of the former aboveground diesel fuel tanks (Unit 1). This area was eliminated from Phase II RI activities because of a CERCLA petroleum exclusion. The Phase II RI consisted of 34 shallow-soil samples collected behind Building 31 and along a ditch which collects drainage from the concrete pad (Unit 2). Table 5-6 summarizes the results of the Phase II RI. Chemicals detected at Site 15 included SVOCs, TPH, pesticides, PCBs, and metals about MCAS El Toro background levels.

5.7 SITE 19

Site 19 is located in the southeast quadrant of MCAS El Toro. Between 1964 and 1987, Site 19 was operated as a fuel-storage and -dispensing area. JP-5 fuel contained in six 20,000-gallon aboveground fuel bladders was piped to aircraft refueling stations along the edge of the concrete apron. Minor spills and leaks occurred during the operational period of the facility. An estimated 20,000 gallons of JP-5 fuel were also released after a bladder rupture (Jacobs Engineering 1993a). An investigation after the rupture found elevated levels of petroleum hydrocarbons in soil beneath the ruptured bladder. The fuel bladders were removed in 1986, and the soil was excavated to a maximum depth of about 15 feet bgs in a 30-foot-square area directly beneath the location of the bladder rupture. The 15-foot-deep excavation was partially backfilled to a depth of approximately 11 feet

Table 5-5
Summary of Shallow-Soil Data for Site 13 – Units 1 and 2
(units reported in milligrams per kilogram)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
Volatile Organic Compounds				
2-butanone	2	2	0.003 – 0.004	0.0035
Acetone	20	12	0.003 – 0.043	0.0112
Phenanthrene	1	1	0.2	0.2
Toluene	21	12	0.003 – 0.009	0.00545
Semivolatile Organic Compounds				
Benzo(a)pyrene	1	1	0.21	0.21
Benzo(b)fluoranthene	3	3	0.14 – 0.26	0.203
Benzo(g,h,i)perylene	2	2	0.16 – 0.2	0.18
Benzo(k)fluoranthene	2	2	0.18 – 0.19	0.185
bis(2-ethylhexyl)phthalate	3	3	0.15 – 0.27	0.227
Butyl benzyl phthalate	1	1	0.16	0.16
Chrysene	2	2	0.17 – 0.21	0.19
Fluoranthene	2	2	0.3 – 0.33	0.315
Indeno(1,2,3-c,d)pyrene	1	1	0.23	0.23
Pyrene	2	2	0.17 – 0.27	0.22
Pesticides and Polychlorinated Biphenyls				
4,4'-dichlorodiphenyldichloroethane	2	1	0.00669	0.0043
4,4'-dichlorodiphenyltrichloroethane	2	1	0.0125	0.00721
delta-hexachlorocyclohexane	2	1	0.00503	0.00301
Endosulfan sulfate	2	1	0.00577	0.00384
Endrin ketone	2	1	0.0052	0.00356
Metals				
Aluminum	21	21	2,420 – 19,700	9,570
Arsenic	20	17	0.92 – 3.9	2.43
Barium	21	21	79.2 – 248	133
Chromium	21	21	3.3 – 19	10.8
Cobalt	21	20	1.7 – 9	5.02
Copper	21	16	5.7 – 15.5	7.72
Lead	21	21	0.64 – 250	25.9
Manganese	21	21	93.4 – 395	227
Silver	21	4	0.45 – 0.63	0.272
Vanadium	21	21	9.7 – 61.6	31.5
Zinc	21	21	11.6 – 90.1	54.7

Table 5-6
Summary of Shallow-Soil Data for Site 15 – Unit 2
(units reported in milligrams per kilogram)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
Volatile Organic Compounds				
Benz(a)anthracene	14	2	0.007 – 0.018	0.00455
Benzo(a)pyrene	14	3	0.0062 – 0.038	0.00664
Benzo(b)fluoranthene	14	4	0.0075 – 0.039	0.00798
Benzo(g,h,i)perylene	14	5	0.014 – 0.19	0.0329
Benzo(k)fluoranthene	14	2	0.0051 – 0.019	0.00448
Chrysene	14	3	0.014 – 0.062	0.00886
Dibenz(a,h)anthracene	14	3	0.011 – 0.055	0.0127
Fluoranthene	14	3	0.027 – 0.14	0.0197
Indeno(1,2,3-c,d)pyrene	14	5	0.018 – 0.37	0.0514
Pyrene	14	3	0.024 – 0.11	0.0178
Pesticides and Polychlorinated Biphenyls				
4,4'-dichlorodiphenyldichloroethane	19	6	0.0025 – 0.22	0.0173
4,4'-dichlorodiphenyldichloroethene	19	4	0.0041 – 0.018	0.00439
4,4'-dichlorodiphenyltrichloroethane	19	8	0.0017 – 0.094	0.0133
alpha-chlordane	15	1	0.0011	0.000953
Aroclor 1260	16	2	0.029 – 0.031	0.02
Endosulfan I	18	1	0.0032	0.00113
gamma-chlordane	16	1	0.0013	0.000975
Metals				
Aluminum	28	28	3,010 – 27,200	11,800
Antimony	15	14	0.25 – 40.8	3.83
Barium	28	28	16.4 – 302	137
Chromium	28	28	3 – 64.5	14.8
Cobalt	28	28	1.9 – 11.4	6.35
Copper	28	28	2.3 – 81.6	14.2
Lead	28	27	1.3 – 5440	258
Manganese	28	28	43.5 – 447	232
Nickel	28	28	3.2 – 17.9	8.36
Silver	28	2	0.14 – 0.63	0.109
Vanadium	28	28	12.1 – 71.1	34.4
Zinc	28	28	17 – 314	74.3

in 1993. The backfill material consisted of soil containing PCBs, which had been removed from Site 8 during a paving operation. In 1996, the remaining excavation was backfilled to surrounding grade with clean fill material as part of the removal action conducted to reduce human-health risk. An additional 290- by 65-foot area beneath the locations of the other bladders was also excavated in 1986 to a depth of about 2.5 feet. This excavated area has not been backfilled and is partly vegetated (Jacobs Engineering 1993a). The fuel bladders, which were removed in 1986, were replaced by a pump station and UST complex adjacent to the east side of the site.

The Phase I RI addressed three subareas within Site 19: the Northwest Stained Area (Unit 1), the Excavated Area (Unit 2), and the Stained Area Around Excavation (Unit 3). A section of the current pump station and UST complex, designated Unit 4, was added to the scope of the Phase II RI to address contamination reported during the RFA. However, subsequent to this addition, Units 1 and 4 were removed from the IRP by the BCT based on a CERCLA petroleum exclusion and are not addressed in this ROD.

Eighteen shallow-soil samples and 23 deeper subsurface-soil samples were collected during the Phase I investigation. Phase II sample locations were positioned to further characterize the extent of chemicals reported during the Phase I RI. Twenty shallow-soil samples were collected during the Phase II RI throughout Units 2 and 3. Table 5-7 summarizes the results of the Phase I and II RIs. Chemicals detected at Site 19 included VOCs, SVOCs, TPH, and metals above MCAS El Toro background levels.

5.8 SITE 20

Site 20 is located in the northwest quadrant of MCAS El Toro. Since 1967, the site has been used as an auto shop for military personnel to service and repair their privately owned vehicles. Prior to 1986, kerosene reportedly was used to wash down the paved courtyard area. The wash runoff drained into a catch basin located in the entry driveway and finally drained into the oil/water separators. Since 1976, a biodegradable soap has been used in place of the kerosene.

Site 20 is divided into four units: the East Drainage Ditch (Unit 1), the South Drainage Ditch (Unit 2), the Stained Area (Unit 3), and the Courtyard and Front Slope (Unit 4) (Figure 1-2). Units 2 and 3 were removed from the Phase II RI based on the petroleum exclusion under CERCLA.

Sixteen shallow-soil samples and one sediment sample were collected at Site 20 during the Phase I investigation. Two additional shallow-soil samples were collected from one off-site location. Phase II sample locations were positioned to further characterize the extent of contaminants reported during the Phase I RI. Sixteen shallow-soil samples were collected during the Phase II investigation. Table 5-8 summarizes the results of the Phase I and II RIs. Chemicals detected at Site 20 included VOCs, TPH, pesticides, PCBs, and metals above MCAS El Toro background levels.

Table 5-7
Summary of Shallow-Soil Data for Site 19 – Units 2 and 3
(units reported in milligrams per kilogram)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
Volatile Organic Compounds				
Acetone	18	11	0.006 – 0.028	0.00931
Toluene	18	8	0.003 – 0.011	0.00617
Semivolatile Organic Compounds				
Benz(a)anthracene	10	2	0.0051 – 0.0057	0.00284
Benzo(a)pyrene	10	2	0.012 – 0.013	0.00421
Benzo(b)fluoranthene	10	3	0.013 – 0.017	0.00589
Benzo(g,h,i)perylene	10	3	0.027 – 0.052	0.0142
Benzo(k)fluoranthene	10	2	0.0064 – 0.0073	0.00313
bis(2-ethylhexyl)phthalate	15	1	0.37	0.349
Chrysene	10	2	0.0078 – 0.012	0.00369
Dibenz(a,h)anthracene	10	1	0.035	0.00777
Fluoranthene	10	3	0.019 – 0.025	0.00962
Indeno(1,2,3-c,d)pyrene	10	3	0.01 – 0.17	0.0227
Pyrene	10	2	0.015 – 0.016	0.00732
Metals				
Arsenic	18	16	0.77 – 5.1	2.52
Barium	18	18	26.5 – 254	113
Cadmium	18	17	0.61 – 1.9	1.23
Chromium	18	18	3 – 17.1	10.1
Cobalt	18	18	2.2 – 8.6	4.78
Copper	18	18	1.9 – 15.8	8.26
Manganese	18	18	97.4 – 353	220
Nickel	18	18	2.3 – 12	7.75
Silver	18	6	0.45 – 2.4	0.509
Vanadium	18	18	10.1 – 50.7	28.9
Zinc	18	18	12 – 69.8	39.9

Table 5-8
Summary of Shallow-Soil Data for Site 20 – Units 1, 4, and Catch Basin
(units reported in milligrams per kilogram)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
UNIT 1				
Volatile Organic Compounds				
1,1,2,2-tetrachloroethane	2	1	0.0008	0.000525
1,2-dichlorobenzene	2	1	0.0008	0.000525
1,2-dichloropropane	2	1	0.0005	0.000375
1,3-dichlorobenzene	2	2	0.001 – 0.003	0.002
1,4-dichlorobenzene	2	1	0.0007	0.000475
m,p-xylene	2	1	0.0008	0.000525
Toluene	9	1	0.006	0.00428
Trichloroethene	2	1	0.0006	0.000425
Semivolatile Organic Compounds				
Butyl benzyl phthalate	1	1	0.004	0.004
Metals				
Aluminum	11	11	6,340 – 19,800	10,200
Arsenic	11	9	2.2 – 6	3.27
Barium	11	11	98.1 – 195	138
Cadmium	11	11	0.77 – 2.7	1.67
Chromium	11	11	7.7 – 21.6	12
Cobalt	11	11	3.6 – 8.7	5.65
Copper	11	11	3.9 – 13.3	8.92
Manganese	11	11	160 – 335	244
Mercury	11	6	0.12 – 0.23	0.116
Nickel	11	11	4.5 – 14.8	9.44
Vanadium	11	11	25.3 – 69.1	38.8
Zinc	11	11	26.4 – 70.5	51.9
UNIT 4				
Volatile Organic Compounds				
1,3-dichlorobenzene	4	3	0.002 – 0.003	0.00182
2-butanone	7	1	8	1.15
2-methylnaphthalene	7	1	7.5	1.39
Naphthalene	11	1	5.6	0.76
Toluene	10	5	0.0007 – 0.007	0.00351
Total xylenes	7	1	6	0.862

(table continues)

Table 5-8 (continued)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
Semivolatile Organic Compounds				
Benzo(b)fluoranthene	4	1	0.0044	0.0026
Benzo(g,h,i)perylene	4	1	0.026	0.0101
bis(2-ethylhexyl)phthalate	7	1	4.7	0.985
Indeno(1,2,3-c,d)pyrene	4	1	0.023	0.00934
Pesticides and Polychlorinated Biphenyls				
4,4'-dichlorodiphenyldichloroethane	17	3	0.0035 – 0.0058	0.00228
4,4'-dichlorodiphenyldichloroethene	20	4	0.0087 – 0.045	0.00753
4,4'-dichlorodiphenyltrichloroethane	20	4	0.0022 – 0.047	0.00651
alpha-chlordane	20	2	0.0012 – 0.0058	0.00178
Aroclor 1254	17	2	0.031 – 0.091	0.0234
Endrin	17	2	0.002 – 0.0044	0.002
gamma-chlordane	20	1	0.0068	0.00181
Metals				
Aluminum	20	20	3,140 – 23,600	11,700
Barium	20	20	28.6 – 213	110
Cadmium	20	19	0.097 – 1.8	0.95
Chromium	20	20	5.3 – 24.2	13.2
Cobalt	20	20	2.6 – 83.3	13.7
Copper	20	20	4.8 – 18.2	9.29
Lead	20	20	1.5 – 34.3	6.99
Nickel	20	20	4.9 – 15.1	8.61
Silver	20	3	0.47 – 1.2	0.226
Vanadium	20	20	14.2 – 77.8	40
Zinc	20	20	22.2 – 88	48.2
CATCH BASIN				
Volatile Organic Compounds				
Acetone	1	1	0.056	0.056
Semivolatile Organic Compounds				
bis(2-ethylhexyl)phthalate	1	1	84	84
Metals				
Antimony	1	1	5.1	5.1
Barium	1	1	300	300

(table continues)

Table 5-8 (continued)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
Cadmium	1	1	18.8	18.8
Chromium	1	1	96.8	96.8
Copper	1	1	226	226
Lead	1	1	900	900
Nickel	1	1	55.3	55.3
Selenium	1	1	0.34	0.34
Zinc	1	1	2,070	2,070

5.9 SITE 21

Site 21 occupies about one-third acre in the southwest quadrant of MCAS El Toro. The site is part of the supply distribution center for MCAS El Toro and other Marine facilities and has been used for the storage of drummed materials since approximately 1946. All drummed materials stored at the site were removed in 1995. No leaks or spills have been documented at the site; however, the site was investigated because contaminants may have leaked from drums during operation of the storage area.

Nine shallow-soil samples, seven deeper subsurface-soil samples, and one sediment sample were collected from Site 21 during the Phase I investigation. Two shallow-soil samples and four deeper subsurface-soil samples were also collected from off-site borings. Phase II sample locations were positioned to characterize additional areas not sampled during Phase I. Ten shallow-soil samples were collected during the Phase II RI. Table 5-9 summarizes the results of the investigations. Chemicals detected at Site 21 included VOCs, SVOCs, TPH, pesticides, herbicides, PCBs, and metals above MCAS El Toro background levels.

5.10 SITE 22

Site 22 is located in the southwest quadrant of MCAS El Toro. The site is a former aircraft fuel storage and dispensing facility. Fuel storage was first observed in aerial photographs dating from approximately 1952 and historically occurred in two areas: an eastern fuel-dispensing area and a western fuel-dispensing area. Heavy staining was observed at both locations (SAIC 1993) and the western fueling area has a documented history of spills.

Seven surface-soil samples and 22 subsurface-soil samples were collected during the Phase I investigation. An additional nine shallow-soil samples were taken during the Phase II RI. Sampling results are summarized in Table 5-10. Chemicals detected at

Table 5-9
Summary of Shallow-Soil Data for Site 21 – Unit 1 and Catch Basin
(units reported in milligrams per kilogram)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
UNIT 1				
Volatile Organic Compounds				
Acetone	13	8	0.007 – 1	0.0898
Toluene	15	7	0.0007 – 0.0078	0.00426
Semivolatile Organic Compounds				
Benz(a)anthracene	4	1	0.0059	0.00294
Benzo(a)pyrene	4	1	0.011	0.00417
Benzo(b)fluoranthene	4	1	0.014	0.00496
Benzo(g,h,i)perylene	4	2	0.012 – 0.023	0.0111
Benzo(k)fluoranthene	4	1	0.007	0.00321
Chrysene	4	1	0.012	0.00443
Dibenz(a,h)anthracene	4	1	0.01	0.006
Fluoranthene	5	2	0.012 – 0.019	0.009
Pyrene	7	1	0.01	0.00546
Pesticides and Polychlorinated Biphenyls				
4,4′-dichlorodiphenyldichloroethane	19	6	0.00113 – 0.018	0.00324
4,4′-dichlorodiphenyldichloroethene	19	6	0.0033 – 0.051	0.00624
4,4′-dichlorodiphenyltrichloroethane	19	7	0.029 – 0.18	0.0322
alpha-chlordane	18	1	0.0011	0.000944
Aroclor 1260	17	1	0.06	0.0207
Endosulfan I	18	1	0.002	0.000994
Endrin aldehyde	18	2	0.0021 – 0.0062	0.00208
gamma-hexachlorocyclohexane (lindane)	1	1	0.000138	0.000138
gamma-chlordane	2	2	0.000222 – 0.000356	0.000289
Herbicides				
2,4,5-trichlorophenoxyacetic acid	14	2	0.03 – 0.0673	0.014
2,4,5-TP	13	1	0.013	0.00583
Dalapon	17	4	0.167 – 0.609	0.128
2-(2-methyl-4-chlorophenoxy)-propionic acid	17	1	16	7.93

(table continues)

Table 5-9 (continued)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
Metals				
Aluminum	12	12	3,690 – 18,200	11,000
Arsenic	12	12	1.6 – 9.5	4.61
Barium	12	12	56.5 – 213	133
Chromium	12	12	4.7 – 16.3	11
Cobalt	12	12	2.9 – 8.2	5.83
Copper	12	12	4.7 – 12.1	8.42
Manganese	12	12	122 – 326	255
Nickel	12	12	4.2 – 14.2	8.31
Thallium	10	7	0.17 – 0.43	0.26
Vanadium	12	12	10 – 53.2	34.1
Zinc	12	12	21.6 – 63.5	45.3
CATCH BASIN				
Volatile Organic Compounds				
2-methylnaphthalene	1	1	0.15	0.15
Acetone	1	1	0.46	0.46
Anthracene	1	1	1.9	1.9
Dibenzofuran	1	1	0.49	0.49
Methylene chloride	1	1	0.38	0.38
Phenanthrene	1	1	14	14
Toluene	1	1	0.027	0.027
Semivolatile Organic Compounds				
Acenaphthene	1	1	1.2	1.2
Acenaphthylene	1	1	0.17	0.17
Benz(a)anthracene	1	1	1.8	1.8
Benzo(a)pyrene	1	1	2	2
Benzo(b)fluoranthene	1	1	2.1	2.1
Benzo(g,h,i)perylene	1	1	0.67	0.67
Benzo(k)fluoranthene	1	1	2	2
bis(2-ethylhexyl)phthalate	1	1	1.3	1.3
Butyl benzyl phthalate	1	1	0.18	0.18
Carbazole	1	1	2.8	2.8
Chrysene	1	1	3.1	3.1

(table continues)

Table 5-9 (continued)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
Dibenz(a,h)anthracene	1	1	0.57	0.57
Fluoranthene	1	1	10	10
Fluorene	1	1	1.3	1.3
Indeno(1,2,3-c,d)pyrene	1	1	1.1	1.1
Pyrene	1	1	6.2	6.2
Pesticides and Polychlorinated Biphenyl				
4,4'-dichlorodiphenyldichloroethane	1	1	0.109	0.109
4,4'-dichlorodiphenyldichloroethene	1	1	0.109	0.109
4,4'-dichlorodiphenyltrichloroethane	1	1	0.557	0.557
alpha-chlordane	1	1	0.00597	0.00597
Dieldrin	1	1	0.0106	0.0106
Endosulfan II	1	1	0.00827	0.00827
Endosulfan sulfate	1	1	0.0108	0.0108
Endrin	1	1	0.0223	0.0223
Endrin ketone	1	1	0.00487	0.00487
gamma-chlordane	1	1	0.00775	0.00775
Methoxychlor	1	1	0.00631	0.00631
Metals				
Arsenic	1	1	9.9	9.9
Barium	1	1	227	227
Cadmium	1	1	4.1	4.1
Cobalt	1	1	11.5	11.5
Copper	1	1	41.4	41.4
Lead	1	1	171	171
Mercury	1	1	0.95	0.95
Nickel	1	1	20.4	20.4
Zinc	1	1	507	507

Table 5-10
Summary of Shallow-Soil Data for Site 22 – Units 1 and 2
(units reported in milligrams per kilogram)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
UNIT 1				
Volatile Organic Compounds				
2-hexanone	1	1	0.004	0.004
Acetone	9	7	0.012 – 0.044	0.0187
Phenanthrene	12	1	1	0.324
Toluene	6	6	0.002 – 0.004	0.00333
Semivolatile Organic Compounds				
Benz(a)anthracene	12	2	0.02 – 0.39	0.27
Benzo(a)pyrene	4	2	0.033 – 0.32	0.0892
Benzo(b)fluoranthene	11	2	0.027 – 0.37	0.259
Benzo(g,h,i)perylene	3	2	0.018 – 0.028	0.017
Benzo(k)fluoranthene	4	2	0.013 – 0.24	0.0643
bis(2-ethylhexyl)phthalate	9	3	0.15 – 1.8	0.573
Carbazole	1	1	0.17	0.17
Chrysene	12	2	0.029 – 0.4	0.272
Dibenz(a,h)anthracene	3	1	0.018	0.00918
Fluoranthene	12	3	0.055 – 1.2	0.325
Indeno(1,2,3-c,d)pyrene	4	1	0.2	0.0535
Pyrene	12	3	0.04 – 0.85	0.294
Pesticides and Polychlorinated Biphenyls				
4,4′-dichlorodiphenyldichloroethane	2	1	0.00571	0.0038
4,4′-dichlorodiphenyldichloroethene	2	1	0.00746	0.00468
4,4′-dichlorodiphenyltrichloroethane	2	1	0.00437	0.00314
Metals				
Aluminum	9	9	6,650 – 13,100	9,140
Arsenic	9	9	1.4 – 5	3.6
Barium	9	9	76.7 – 170	106
Chromium	9	9	6.8 – 12.9	10.3
Copper	9	9	4.7 – 11.4	7.8
Lead	9	9	1.5 – 39.6	15.4
Nickel	9	9	4.6 – 10	7.27
Vanadium	9	9	22.7 – 34.3	28.8
Zinc	9	9	30.1 – 52.9	39.9

(table continues)

Table 5-10 (continued)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
UNIT 2				
Volatile Organic Compounds				
2-butanone	3	3	0.003 – 0.005	0.00367
2-hexanone	1	1	0.004	0.004
2-methylnaphthalene	10	2	8.3 – 29	4.03
Naphthalene	12	1	5.4	0.737
Toluene	8	1	0.009	0.00613
Semivolatile Organic Compounds				
Isophorone	9	1	7.1	1.12
Metals				
Aluminum	8	8	5,170 – 18,000	11,000
Barium	8	8	57 – 178	130
Chromium	8	8	4.4 – 16.3	11.1
Cobalt	8	8	3.5 – 13.6	7.2
Copper	8	8	3.5 – 11.7	8
Manganese	8	8	94.5 – 319	239
Nickel	8	8	4.2 – 13.4	9.06
Vanadium	8	8	12.7 – 52.8	35.4
Zinc	8	8	17.7 – 63.5	45.5

Site 22 included VOCs, SVOCs, TPH, pesticides, and metals above MCAS El Toro background levels.

5.11 SITE 25

Site 25 consists of four main drainage channels that flow through or adjacent to the Station. The site was included in the IRP because it was not known whether the major drainages were acting as a source of regional VOC contamination in the Irvine Groundwater Subbasin. Investigation data presented in the draft final Phase II RI for Site 24 demonstrated that Site 24, not Site 25, is responsible for the observed VOC groundwater contamination.

Phase I sampling consisted of 36 surface water samples, 29 sediment samples, and 60 soil samples. Soil gas samples were also collected at depths between 5 and 30 feet bgs at 27 locations near Agua Chinon and Bee Canyon Washes. Phase II samples were taken in the same media to confirm and supplement Phase I results.

- Thirteen surface water samples were taken from all four drainages. Both upstream and downstream locations were sampled in order to evaluate the impact of runoff from the Station.

- Sediment samples were collected at two locations along Marshburn Channel.
- Thirty-four soil samples were collected from four soil borings. Three of the four borings were located adjacent to the downstream end of Agua Chinon Wash. The fourth boring was located near the downstream end of Bee Canyon Wash.
- Ten soil gas samples were taken from three locations along Agua Chinon Wash at depths between 47 and 90 feet bgs. Soil gas samples were used to assess potential contribution of the drainages to the regional VOC contamination.

Tables 5-11 and 5-12 summarize the results of surface-water sampling at San Diego Creek and sediment sampling at Agua Chinon Wash, Bee Canyon Wash, Borrego Canyon Wash, and Marshburn Channel, respectively. These data were used for the human-health and ecological risk assessments as discussed in Section 6. Results of soil sampling are not presented because, as discussed in Section 6 of this report, there is no complete exposure pathway to chemicals in soil below 2 feet at Site 25.

Soil and soil gas analytical results were evaluated to characterize the potential contribution of the Site 25 drainages to the regional VOC groundwater contamination. Of the 94 soil samples collected during the Phase I and Phase II RIs, none had reportable concentrations of TCE or PCE. Chemicals detected in soil gas included TCE, PCE, cis-1,2-dichloroethene, trans-1,2-dichloroethene, toluene, xylenes, and total volatile hydrocarbons. TCE was reported in 3 of 68 soil gas samples at a maximum concentration of 53.1 micrograms per liter (µg/L). PCE was reported in 1 of 68 soil gas samples at a maximum concentration of 1.6 µg/L. Based on these findings and the high concentrations of TCE and PCE in soil and soil gas at Site 24, it was concluded that Site 24, not Site 25, is the source of the regional groundwater contamination.

Table 5-11
Summary of Surface Water Data for San Diego Creek
(units reported in milligrams per liter)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
Volatile Organic Compounds				
1,3-dichlorobenzene	15	1	0.0001	0.0001
Acetone	12	4	0.005 – 0.015	0.00959
Chloromethane	12	3	0.0007 – 0.001	0.0008
2-methylnaphthalene	15	1	0.0005	0.0005
Semivolatile Organic Compounds				
2-nitrophenol	15	1	0.0001	0.0001
4,6-dinitro-2-methylphenol	15	1	0.0003	0.0003
4-nitrophenol	15	4	0.0003 – 0.008	0.00294
bis(2-ethylhexyl)phthalate	15	2	0.002 – 0.003	0.0016
Butyl benzyl phthalate	15	6	0.0001 – 0.003	0.00108
di-n-butyl phthalate	15	3	0.001 – 0.002	0.000883
Pesticides and Polychlorinated Biphenyls				
gamma-chlordane	15	1	0.00001	0.00001
Metals				
Aluminum	15	12	0.0706 – 158	21.8
Antimony	15	4	0.0032 – 0.0184	0.00701
Arsenic	15	11	0.0039 – 0.0163	0.00597
Barium	15	15	0.0719 – 1.85	0.311
Beryllium	15	9	0.00044 – 0.01	0.00163
Cadmium	15	12	0.0012 – 0.0224	0.00531
Chromium	15	12	0.0057 – 0.148	0.0265
Cobalt	15	10	0.0052 – 0.0734	0.0144
Copper	15	12	0.0079 – 0.131	0.0295
Lead	15	12	0.001 – 0.0401	0.0129
Manganese	15	15	0.0147 – 3.37	0.69
Nickel	15	15	0.0079 – 0.156	0.0292
Selenium	15	1	0.00094	0.000386
Silver	15	2	0.00085 – 0.0011	0.00081
Thallium	15	3	0.001 – 0.0026	0.000877
Vanadium	15	15	0.0063 – 0.415	0.0753
Zinc	15	15	0.0103 – 0.702	0.158
Inorganics				
Ammonia	3	3	0.53 – 0.66	0.583
Cyanide	8	1	0.0034 – 0.005	0.00245
Fluoride	3	3	0.4	0.4

Table 5-12
Summary of Sediment Data for Site 25
(units reported in milligrams per kilogram)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
AGUA CHINON WASH				
Metals				
Aluminum	1	1	1,510	1,510
Arsenic	1	1	0.84	0.84
Barium	1	1	21.6	21.6
Cadmium	1	1	0.32	0.32
Chromium	1	1	2.5	2.5
Cobalt	1	1	1.6	1.6
Copper	1	1	1.9	1.9
Lead	1	1	1.4	1.4
Manganese	1	1	51.3	51.3
Mercury	1	1	0.23	0.23
Vanadium	1	1	6	6
Zinc	1	1	13.1	13.1
BEE CANYON WASH				
Semivolatile Organic Compound				
bis(2-ethylhexyl)phthalate	1	1	0.27	0.27
Metals				
Aluminum	1	1	1,920	1,920
Arsenic	1	1	2.6	2.6
Barium	1	1	30.6	30.6
Cadmium	1	1	0.64	0.64
Chromium	1	1	2.8	2.8
Cobalt	1	1	1.9	1.9
Copper	1	1	6.8	6.8
Lead	1	1	5	5
Manganese	1	1	52.7	52.7
Mercury	1	1	0.22	0.22
Nickel	1	1	2.2	2.2
Vanadium	1	1	8.6	8.6
Zinc	1	1	26.1	26.1

(table continues)

Table 5-12 (continued)

Chemical	Number of Analyses	Number of Detections	Range of Positive Detections	Arithmetic Mean
BORREGO CANYON WASH				
Metals				
Aluminum	1	1	1,020	1,020
Barium	1	1	13.8	13.8
Chromium	1	1	1.6	1.6
Lead	1	1	1.1	1.1
Manganese	1	1	62.8	62.8
Mercury	1	1	0.18	0.18
Vanadium	1	1	4.7	4.7
Zinc	1	1	10.9	10.9
MARSHBURN CHANNEL				
Volatile Organic Compounds				
Methylene chloride	1	1	0.048	0.048
Pesticides				
4,4'-DDD[a]	2	1	0.0036	0.00289
4,4'-DDE[b]	2	2	0.019 – 0.0472	0.0331
4,4'-DDT[c]	2	2	0.01 – 0.0516	0.0308
Herbicides				
2,4'-DB[d]	1	1	0.0759	0.0759
Dichloroprop	1	1	0.28	0.28
Metals				
Aluminum	2	2	3,170 – 6,720	4,950
Arsenic	2	1	3.7	2.18
Barium	2	2	28.9 – 65.9	47.4
Beryllium	2	1	0.11	0.09
Cadmium	2	1	0.78	0.407
Chromium	2	2	6.3 – 8.5	7.4
Cobalt	2	2	1.6 – 4.7	3.15
Copper	2	2	11.6 – 12.4	12
Lead	2	2	3.7 – 6.1	4.9
Manganese	2	2	221 – 241	231
Mercury	2	1	0.45	0.226
Nickel	2	2	2.6 – 5.1	3.85
Selenium	2	1	0.22	0.22
Vanadium	2	2	12.3 – 22.6	17.5
Zinc	2	2	24.4 – 41.1	32.8

Notes:
[a] DDD – dichlorodiphenyldichloroethane
[b] DDE – dichlorodiphenyldichloroethene
[c] DDT – dichlorodiphenyltrichloroethane
[d] DB – dichlorophenoxybutyric acid

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Section 6
SUMMARY OF SITE RISKS

A human-health risk assessment (HHRA) was conducted for Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25 using data collected during the Phase I and Phase II RIs. The human health evaluation methodology is provided in Section 6 of the draft final RI reports for these sites (BNI 1997a,b). An ecological risk assessment was also conducted for Site 25. The methodology is provided in Section 7 of the draft final RI report for Site 25 (BNI 1997b). An ecological risk assessment was not performed for the OU-3A sites because a habitat assessment performed for these sites in May 1995 indicated an absence of significant plant and wildlife habitat.

6.1 HUMAN-HEALTH RISK ASSESSMENT

During the RI, the Navy considered the potential human-health risks associated with the OU-3A sites and Site 25. The HHRA was based on exposure to soils at Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, and 22 and to sediment and surface water at Site 25. Exposure to groundwater was not included because the RI indicated that contamination is present only in the shallow-soil interval and does not extend to groundwater beneath any of the sites.

The HHRA was performed using residential and industrial scenarios for the OU-3A sites and residential and recreational scenarios for Site 25. Evaluation of the residential scenario at the OU-3A sites is considered conservative because the primary proposed reuses of the OU-3A sites addressed in this ROD are industrial and aviation-related (Table 1-1) and risks calculated for this type of scenario are usually less than risks calculated under the residential scenario. Evaluation of the residential scenario at Site 25 is conservative because this site consists of drainage channels and culverts that do not provide a suitable location for residences. Exposure of the industrial worker was considered to be limited to contaminants in surface soils (0 to 2 feet bgs), whereas it was considered that the resident could be exposed to contaminants present from 0 to 10 feet bgs (shallow soils). For Site 25, the recreational scenario is considered conservative because it was assumed that a child would play in the water at San Diego Creek (which receives runoff from the Site 25 drainages) 2 hours a day, 350 days a year for 7 years. Actual exposure is likely to be much less.

Possible exposure pathways examined for the chemicals at the surface and in shallow soil at the OU-3A sites were ingestion of soil, inhalation of vapors and dust, and direct contact with the skin. Exposure conditions used in the estimation of risk were chosen to represent what is known as "reasonable maximum exposure" (RME). Use of these exposure conditions tends to overestimate risk. This effort to overestimate risk is deliberate; it provides risk managers a margin of safety when making cleanup decisions. The combination of the intake variables, expressing the exposure conditions for each receptor at each site, results in a chronic daily dose. The dose is an estimate of exposure for each pathway.

Risks were calculated by integrating the chronic daily dose with toxicity factors. Toxicity factors are numbers developed by U.S. EPA for each COPC that indicate the toxicity of the chemicals. The toxicity factor for carcinogenic effects is called a cancer

slope factor (CSF) and the toxicity factor for noncarcinogenic effects is called a reference dose (RfD). Chemicals that show a potential for both carcinogenic and noncarcinogenic health effects are assigned both slope factors and reference doses. In addition to the U.S. EPA derived CSFs, Cal-EPA has developed CSFs for a group of carcinogens. Following DON policy, both U.S. EPA and Cal-EPA slope factors were used in the estimation of the risk from those chemicals when present. CSFs and RfDs are derived from the results of human epidemiological studies or chronic animal bioassays to which animal-to-human extrapolation and uncertainty factors have been applied. These uncertainty factors help ensure that the toxicity values will not underestimate the potential for carcinogenic and adverse noncarcinogenic effects to occur.

Excess lifetime cancer risks are probabilities that are generally expressed in scientific notation (e.g., 1×10^{-6} or 1E-6). An excess lifetime cancer risk of 1×10^{-6} indicates that, as a plausible upper bound, an individual has a one in a million chance of developing cancer as a result of site-related exposure to a carcinogen over a 70-year lifetime under the specific exposure conditions at a site. Guidelines for managing cancer risks are promulgated in the NCP (40 CFR 300. 430 (e)(2)(i)(A)(2)). According to these regulations, excess cancer risks in the range of between 10^{-6} and 10^{-4} or less are considered generally acceptable.

Potential noncarcinogenic effects of a single contaminant in a single medium are expressed as hazard quotients (HQs). By adding the HQs for all contaminants within a medium or across all media to which a given population may reasonably be exposed, the hazard index (HI) can be generated. The HI provides a useful reference point for gauging the potential significance of multiple contaminant exposures within a single medium or across media. The U.S. EPA has also established guidelines for noncancer risks. Using these guidelines, an HI of less than 1 is generally considered protective of human health. If the HI is greater than 1, an assessment of the chemicals is performed to determine whether the HI represents an unacceptable noncarcinogenic human-health risk.

At Site 25, the Phase I RI results showed that under the recreational scenario the cumulative excess cancer risk from sediment was less than 1×10^{-6} and the noncarcinogenic HIs were less than 1.0 (Jacobs Engineering 1993b). A qualitative HHRA was performed with the Phase II sediment data at the drainages to strengthen the Phase I RI results. Phase II sediment data were compared to the Phase I data and to background values established in the Final Technical Memorandum on Background and Reference Levels (BNI 1996b). This comparison showed that among the Phase II downstream sediment sample results, only copper (11.6 milligrams per kilogram [mg/kg]) exceeded the background level of 10.5 mg/kg. The Phase II result for copper was less than the Phase I concentration of 12.4 mg/kg. These data corroborate the Phase I results and suggest that the additional sample results would not increase the cumulative cancer risk to a level greater than 1×10^{-6}, and the HI would remain less than 1.

An additional human-health risk assessment was performed for Site 25 based on dermal contact with chemicals reported in surface water at San Diego Creek. As shown on Figure 1-2, this creek receives runoff from the OU-2A major drainages. The risk assessment was based on a recreational scenario. The results of the risk assessment are shown in Table 6-1 and indicate that, if no remediation occurred, carcinogenic risks due to surface water in San Diego Creek are in the range of 10^{-6} to 10^{-7}.

Table 6-1
Summary of Total Lifetime Cancer Risk and Chronic Hazard Index Due to Surface Water Recreational Use of Site 25

Risk[a]	Downstream Surface Water	Upstream Surface Water
Cancer Risk U.S. EPA[b,c]	3.8E-07	3.6E-07
Cancer Risk California State[c]	1.8E-06[d]	1.0E-06[e]
Hazard Index	1.2[f]	0.051

Notes:
[a] risk based on dermal contact with surface water
[b] U.S. EPA – United States Environmental Protection Agency
[c] risk was calculated by using U.S. EPA or California Environmental Protection Agency toxicity values
[d] the majority of the risk is due to chromium, as hexavalent chromium (78 percent), and arsenic (14 percent)
[e] the majority of the risk is due to chromium, as hexavalent chromium (66 percent), and arsenic (20 percent)
[f] the majority of the hazard index is due to aluminum (92 percent)

Surface water from San Diego Creek exhibited a chronic HI slightly greater than 1 (1.2). This HI was primarily associated with dermal exposure to aluminum in the surface-water medium and overestimates actual risk because the acid which is used in preservation of surface-water samples causes the suspended aluminum silicate minerals present in the turbulent-flow samples to be dissolved in the water. Normally, aluminum present as aluminum silicate is not available as elemental aluminum for dermal exposure.

The results of the risk assessment for exposure to soils at the OU-3A no action sites are summarized in Table 6-2. The table identifies the total cancer and/or noncancer risk for each receptor. In addition, it identifies the chemicals contributing the majority of the cancer risk and HI. Cancer risks are based on U.S. EPA and Cal-EPA CSFs, as appropriate. Risks to an excavation worker at the OU-3A sites were qualitatively assessed. Cancer risk to these individuals was estimated to be at least seven times less than the risk to a resident adult and ten times less than the risk to a resident child. Therefore, risks to the excavation worker are considerably less than the risks to the resident (Table 6-2).

The results of the human health risk assessment indicate that, if no remediation occurred, risks at Sites 4, 6, 9, 10, 13, 15, 19, 20, and 22 would fall below 1×10^{-4} for both the residential and industrial scenarios. The risks to the resident due to the catch basin at

Site 21 are slightly higher than 1×10^{-4} based on samples of the sediment. However, the sediment in the catch basin was removed subsequent to the completion of the RI for OU-3A and these risks no longer exist.

Table 6-2 shows that the HIs for all OU-3A sites are less than 1 under the industrial scenario. Although the HIs exceed 1 for some sites under the residential scenario, these exceedances were analyzed further and found to be primarily associated with manganese. Manganese is naturally occurring at the Station and is not believed to be related to site activities. It was determined that manganese levels at the sites fall within the naturally occurring range, or background, for this metal. Therefore, manganese concentrations reflect the natural variation in the concentration of this metal both on and off the Station, and not contamination resulting from past activities at the Station.

The RIs concluded that human-health risks posed by COPCs in soils (OU-3A no action sites) and sediment and surface water (Site 25) are within the risk range considered acceptable by the U.S. EPA. This is the basis of the no action recommendation for these sites.

6.2 ECOLOGICAL RISK ASSESSMENT

The only site for which an ecological risk assessment was required was Site 25. The purpose of the risk assessment was to assess current and potential hazards to ecological receptors posed by sediment in the drainages. Exposure to surface water at the drainages was not evaluated because flow is sporadic and lasts only a few hours or days following a heavy rainfall.

The potential for mobilization of chemicals of potential ecological concern (COPECs) in the food chain was evaluated by modeling plant, invertebrate, deer mouse, California quail, American robin, coyote, and red-tailed hawk. The primary exposure pathway was ingestion. Deer mouse, American robin, and California quail are assumed to ingest COPECs from sediment, invertebrates, and plants. The coyote is assumed to ingest COPECs from sediment, macroinvertebrates, plants, deer mice, and quail. The red-tailed hawk is assumed to ingest COPECs from sediment, deer mice, and quail.

Ecological receptors may also be exposed to COPECs in sediment via dermal contact (e.g., while burrowing). However, because of the paucity of data regarding dermal exposure for wildlife organisms, this pathway was not evaluated in the risk assessment. Receptors may also be exposed to COPECs through inhalation of organic vapors and fugitive dust. Inhalation of organic vapors was assumed to be limited to those receptors living at or below the ground surface. Intake through inhalation of fugitive dust was considered minimal relative to other pathways and was not considered in the risk assessment.

Like human-health hazards, ecological hazards are also characterized using an HQ approach. The effects of a single contaminant in a single medium is expressed as the HQ. By adding HQs for all contaminants within a medium or across all media to which a given population may reasonably be exposed, the HI is developed. HIs less than 1 for

Table 6-2
OU[a]-3A No Action Sites – Summary of Human-Health Risk Results

Site Number	Site Name	Unit Number	PHASE II RI RISK ASSESSMENT: EXCESS LIFETIME CANCER RISK: Residential Scenario (0 to 10 feet bgs[b])[c] U.S. EPA[d]/ Cal-EPA[e]	Residential Scenario Risk Drivers[f]	Industrial Scenario (0 to 2 feet bgs) U.S. EPA/ Cal-EPA	Industrial Scenario Risk Drivers[f]	NONCANCER RISK (Hazard Index): Residential Scenario (0 to 10 feet bgs)[g]	Residential Scenario Risk Drivers[f]	Industrial Scenario (0 to 2 feet bgs)	Industrial Scenario Risk Drivers[f]
4	Ferrocene Spill Area	1	1.9E-5[h]	arsenic (99%)	5.7E-6	arsenic (99%)	1.4	manganese (44%)	0.049	—
		2	3.0E-5/3.6E-5	arsenic (67%/56%) benzo(a)pyrene (23%/31%) dieldrin (6%/5%) benzo(k)fluoranthene (–/4%)	1.4E-5/1.8E-5	arsenic (57%/44%) benzo(a)pyrene (32%/41%) dieldrin (7%/6%)	0.75	—	0.12	—
		Catch Basin	1.9E-7/5.8E-7	—	3.0E-8/9.1E-8	—	0.31	—	0.021	—
6	Drop Tank Area No. 1	1, 2, 3[i]	1.9E-5/2.0E-5	arsenic (68%/65%) beryllium (23%/22%) benzo(a)pyrene (6%/9%)	1.1E-5/1.3E-5	benzo(a)pyrene (44%/55%) arsenic (28%/21%) dibenz(a,h)anthracene (12%/9%)	1.4	manganese (41%)	0.11	—
		Catch Basin	3.1E-8	—	1.6E-8	—	0.084	—	0.0072	—
9	Crash Crew Pit No. 1[j]	1, 2	1.7E-5	arsenic (82%) benzo(a)pyrene (–/6%)	1.1E-5/1.3E-5	arsenic (50%/42%) benzo(a)pyrene (30%/42%)	1.4	manganese (45%)	0.11	—
10	Petroleum Disposal Area	1, 2, 3	1.3E-5	arsenic (92%)	1.3E-5/1.8E-5	benzo(a)pyrene (55%/67%) arsenic (26%/19%)	1.2	manganese (50%)	0.049	—
		4	3.2E-5	arsenic (75%) beryllium (23%)	5.8E-6	arsenic (98%)	2.2	manganese (42%) aluminum (24%)	0.036	—
13	Oil Change Area	1, 2	1.8E-5/2.3E-5	arsenic (53%/42%) benzo(a)pyrene (36%/48%)	5.3E-6/8.8E-6	benzo(a)pyrene (81%/80%)	1.1	manganese (53%)	0.012	—
15	Suspended Fuel Tank Area	2	4.2E-6/5.1E-6	dibenz(a,h)anthracene (40%/33%) benzo(a)pyrene (29%/37%) Aroclor 1260 (24%/20%)	1.1E-5/1.2E-5	arsenic (70%/64%) dibenz(a,h)anthracene (10%/9%) benzo(a)pyrene (–/11%)	1.1	manganese (54%)	0.12	—
19	Aircraft Expeditionary Refueling Site	2, 3	1.3E-5	arsenic (85%) dibenz(a,h)anthracene (8%)	3.9E-6/4.1E-6	arsenic (92%/88%)	0.95	manganese (60%)	0.036	—
20	Hobby Shop	1	1.5E-5	arsenic (93%)	1.3E-8/4.0E-8	—	1.3	manganese (45%)	0.086	—
		4	3.4E-6/3.5E-6	Aroclor 1254 (88%/86%)	2.2E-6	Aroclor 1254 (91%)	0.61	—	0.043	—
		Catch Basin	4.7E-6/6.0E-6	bis(2-ethylhexyl)phthalate (83%/65%) cadmium (–/30%)	2.4E-6/2.6E-6	bis(2-ethylhexyl)phthalate (96%/88%)	1.2	cadmium (45%)	0.098	—

(table continues)

Table 6-2 (continued)

			PHASE II RI RISK ASSESSMENT							
			EXCESS LIFETIME CANCER RISK				NONCANCER RISK (Hazard Index)			
Site Number	Site Name	Unit Number	Residential Scenario (0 to 10 feet bgs)[b][c] U.S. EPA[d]/ Cal-EPA[e]	Residential Scenario Risk Drivers[f]	Industrial Scenario (0 to 2 feet bgs) U.S. EPA/ Cal-EPA	Industrial Scenario Risk Drivers[f]	Residential Scenario (0 to 10 feet bgs)[g]	Residential Scenario Risk Drivers[f]	Industrial Scenario (0 to 2 feet bgs)	Industrial Scenario Risk Drivers[f]
21	Materials Management Group	1	2.5E-5	arsenic (88%) Aroclor 1260 (8%)	1.1E-5	arsenic (91%)	2.0	manganese (33%) MCPP[j] (21%) arsenic (19%)	0.15	—
		Catch Basin	1.3E-4/1.8E-4	benzo(a)pyrene (48%/56%) dibenz(a,h)anthracene (14%/10%) arsenic (25%/18%) benzo(k)fluoranthene (–/5%) benzo(b)fluoranthene (5%/4%) benz(a)anthracene (4%/3%) indeno(1,2,3-c,d)pyrene (3%/2%) chrysene (–/1%)	7.5E-5/1.1E-4	benzo(a)pyrene (55%/61%) dibenz(a,h)anthracene (16%/11%) arsenic (15%/10%) benzo(k)fluoranthene (–/6%) benzo(b)fluoranthene (6%/4%) benz(a)anthracene (5%/3%) indeno(1,2,3-c,d)pyrene (3%/2%) chrysene (–/1%)	0.91	arsenic (60%)	0.11	—
22	Tactical Air Fuel Dispensing System	1	2.7E-5/3.5E-5	arsenic (52%/40%) benzo(a)pyrene (37%/46%) benzo(k)fluoranthene (–/3%) benz(a)anthracene (4%/3%) benzo(b)fluoranthene (4%/3%)	1.4E-5/1.9E-5	benzo(a)pyrene (46%/58%) arsenic (36%/26%)	0.52	—	0.048	—
		2	2.3E-8/9.8E-8	—	4.7E-6	arsenic (100%)	1.2	manganese (59%)	0.031	—

Notes:

[a] OU – operable unit
[b] bgs – below ground surface
[c] cancer risk results shown are for the hypothetical residential adult; adult cancer risks are higher than the child cancer risks
[d] U.S. EPA – United States Environmental Protection Agency
[e] Cal-EPA – California Environmental Protection Agency
[f] as determined by human-health risk assessment, number in parentheses is percentage of risk the risk driver accounts for (U.S. EPA/Cal-EPA)
[g] systemic toxicity results shown are for the hypothetical resident child; child noncancer risks are higher than the adult cancer risk
[h] risk listed once when U.S. EPA derived risks equal state derived risks
[i] multiple units listed under Unit Number column are addressed as one area of concern
[j] Octachlorodibenzo-p-dioxin was the particular dioxin isomer found at Site 9. Octachlorodibenzo-p-dioxin was not determined to be a risk driver because the cancer risk associated with this compound was estimated to be 5.5×10^{-9} under a residential land use scenario. The cancer slope factor (CSF) for octachlorodibenzo-p-dioxin was derived by multiplying the CSF for 2,3,7,8-tetrachlorodibenzo-p-dioxin by a toxicity equivalency factor (TEF). The TEF relates the toxicity of octachlorodibenzo-p-dioxin to that of 2,3,7,8-tetrachlorodibenzo-p-dioxin. The TEF used in this risk assessment (0.001) was defined in an 1989 international scheme, adopted by U.S. EPA as an interim procedure for assessing the risks associated with exposures to mixtures of chlorinated dioxins and dibenzofurans.
[k] MCPP – 2-(2-methyl-4-chlorophenoxy)-propionic acid

each mechanism of action or target organ are reasonably good indicators that adverse effects are unlikely. If an HI is greater than 1, the hazards of exposure through individual pathways are generally examined in greater detail to evaluate the primary sources of risk.

The HQs for the deer mouse, American robin, California quail, coyote, and red-tailed hawk are presented in Table 6-3. Chemical levels at Borrego Canyon Wash and Agua Chinon Wash are at or below background levels. Ecological HIs at Bee Canyon Wash are estimated at less than 1.0. At Marshburn Channel, with the exception of the American robin and red-tailed hawk, the HIs were generally less than or slightly greater than 1.

Table 6-3
Hazard Quotients for Selected Ecological Receptors at Site 25

Chemical	Deer Mouse	American Robin	California Quail	Coyote	Red-Tailed Hawk
Bee Canyon Wash					
bis(2-ethylhexyl)phthalate	1.19E-03	1.04E-01	4.68E-03	6.70E-04	5.34E-03
Total (Hazard Index)	**1.19E-03**	**1.04E-01**	**4.68E-03**	**6.70E-04**	**5.34E-03**
Marshburn Channel					
2,4-DB[a]	8.19E-04	6.67E-02	4.62E-03	4.25E-03	4.96E-02
4,4'-DDD[b]	7.96E-03	8.25E+00	1.93E-01	3.52E-02	5.69E+00
4,4'-DDE[c]	1.04E-01	1.08E+02	2.53E+00	4.61E-01	7.46E+01
4,4'-DDT[d]	1.14E-01	1.18E+02	2.73E+00	3.00E-01	4.74E+01
Dichloroprop	1.22E-02	9.84E-01	6.71E-02	6.40E-02	7.78E-01
Mercury	7.75E-03	1.00E+00	7.82E-02	1.39E-02	2.44E-02
Methylene chloride	3.54E-03	2.43E-01	3.04E-02	1.92E-02	2.19E-01
Total (Hazard Index)	**2.50E-01**	**2.37E+02**	**5.62E+00**	**8.98E-01**	**1.29E+02**

Notes:
[a] DB – dichlorophenoxybutyric acid
[b] DDD – dichlorodiphenyldichloroethane
[c] DDE – dichlorodiphenyldichloroethene
[d] DDT – dichlorodiphenyltrichloroethane

At Marshburn Channel, the HIs of 237 for the American robin and 129 for the red-tailed hawk were associated almost exclusively with exposures to pesticides, 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT, and were less than the HIs associated with exposures to regional background levels of these chemicals. The concentrations of these pesticides in this channel are within the background range of pesticides in the vicinity of MCAS El Toro. The channel is also shallow and concrete-lined with little vegetation resulting in a low quality habitat for wildlife.

The Phase II RI concluded that historical agricultural practices and natural geologic conditions can account for the chemicals reported in sediment samples in the Site 25 drainages. Minor concentrations of oil can be attributed to runoff from parking areas and

roadways. These chemical characteristics appear to be similar to other drainages in the area. These data suggest that activities at MCAS El Toro do not contribute a significant adverse effect on sediment beyond what is expected given the geologic character of the watershed, the historical agricultural practices, and fairly heavy motor-vehicle traffic. Based on the results of the ecological risk assessment at Site 25, the Marine Corps has concluded that the risk to the wildlife in all four drainages is not significant and no cleanup is proposed.

Section 7
DESCRIPTION OF NO ACTION ALTERNATIVE

Based on the Phase I and Phase II RIs and the baseline HHRA, Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25 do not pose an unacceptable risk to human health or the environment. Accordingly, no remedial action is appropriate for the RI sites. DON will not conduct monitoring or periodic reviews of the sites. The DTSC, RWQCB, and U.S. EPA agree with this determination. The DON's selection of no action for these sites reflects the determination that the overall condition of the sites is protective of human health and the environment.

Section 121(d) of CERCLA states that remedial actions at CERCLA sites must, upon completion, attain any federal (or state if more stringent) environmental standards, requirements, criteria, or limitations that are determined to be applicable or relevant and appropriate requirements (ARARs). ARARs do not apply unless remedial action is being taken at a site and are therefore not applicable to the no action sites addressed in this ROD.

Although no deed restrictions are required because of chemicals present in soils at the no action sites, shallow groundwater underlying Sites 9, 10, 13, 15, 21, 22, and portions of Site 25 is contaminated by TCE and PCE. Remedial investigations have shown that the contamination does not originate from these sites but from Site 24, the VOC source area. Use restrictions for several sites (including Site 24 and the no action sites listed above) prohibiting drilling of wells and/or extraction of groundwater and allowing access for groundwater monitoring and maintenance of equipment associated with groundwater remediation will be addressed in the Proposed Plan(s) and Record(s) of Decision for OU-1 and 2A regarding groundwater.

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Section 8
DOCUMENTATION OF SIGNIFICANT CHANGES

The Proposed Plan for Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25 was released for public comment in May 1997. The Proposed Plan identified no action as the appropriate response for these sites. DON reviewed all written and verbal comments submitted during the comment period. Upon review of these comments, it was determined that no significant changes to the response, as it was originally identified in the Proposed Plan, were necessary.

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Section 9
REFERENCES

Bechtel National, Inc. 1995. Final Work Plan Phase II Remedial Investigation/Feasibility Study. Marine Corps Air Station El Toro, California.

———. 1996a. Final Updated Community Relations Plan, Marine Corps Air Station El Toro, CA.

———. 1996b. Final Technical Memorandum. Background Concentrations and Reference Levels Study. Marine Corps Air Station El Toro, CA.

———. 1997a. Draft Final Phase II Remedial Investigation Report, Operable Unit 3A. Marine Corps Air Station El Toro, CA.

———. 1997b. Draft Final Phase II Remedial Investigation Report, Operable Unit 2A - Site 25. Marine Corps Air Station El Toro, CA.

BNI. *See* Bechtel National, Inc.

Brown and Caldwell. 1986 Initial Assessment Study of Marine Corps Air Station El Toro, California. CLE-C01-01F018-A2-016.

California Regional Water Quality Control Board. 1995. Water Quality Control Plan. Santa Ana River Basin (8).

Federal Facilities Agreement. 1990. Federal Facility Agreements between the U.S. Marine Corps, U.S. EPA Region IX, California Department of Health Services, and State Water Resources Control Board.

Herndon, R.L., and J.F. Reilly. 1989. Phase I Report – Investigation of TCA Contamination in the Vicinity of the Marine Corps Air Station El Toro. Prepared for the Orange County Water District.

Jacobs Engineering Group Inc. 1993a. Marine Corps Air Station El Toro: Installation Restoration Program Phase I Remedial Investigation Draft Technical Memorandum.

———. 1993b. Marine Corps Air Station El Toro: Installation Restoration Program Final RCRA Facility Assessment Report.

———. 1994a. Marine Corps Air Station El Toro: Installation Restoration Program Draft Remedial Investigation Report for Operable Unit 1.

———. 1994b. Contract Task Order No. 145 technical exchange meeting. Marine Corps Air Station El Toro, El Toro, California. 27 June.

James M. Montgomery Engineers, Inc. 1988. MCAS El Toro and Tustin Site Inspection Plan of Action.

———. 1990. Marine Corps Air Station El Toro Off-Station Remedial Investigation Final Work Plan.

JMM. *See* James M. Montgomery Engineers, Inc.

Marine Corps Air Station El Toro. 1991. The Environmental Cleanup of Marine Corps Air Station El Toro. Facilities Management Department, U.S. Marine Corps Air Station El Toro, Santa Ana, California.

Marine Corps Air Station El Toro Local Redevelopment Authority. 1996. MCAS El Toro Community Reuse Plan. August.

MCAS El Toro. *See* Marine Corps Air Station El Toro.

RWQCB. *See* California Regional Water Quality Control Board.

SAIC. *See* Science Applications International Corporation.

Science Applications International Corporation. 1993. Final Report. Aerial Photograph Assessment. MCAS El Toro. 25 October.

RESPONSIVENESS SUMMARY

RESPONSES TO COMMENTS RECEIVED DURING PUBLIC COMMENT PERIOD

RESPONSIVENESS SUMMARY
MARINE CORPS AIR STATION – EL TORO, CALIFORNIA
PROPOSED PLAN, OPERABLE UNITS 2A AND 3A, NO ACTION SITES

Letters Received During Public Comment Period

Comments by: ***Gary Simon, MCAS El Toro Master Development Program, in a letter dated 15 August 1997***

Number	Comments	Response
1A	The Marine Corps Air Station (MCAS) El Toro Master Development Program staff have completed a review of the proposed plan for environmental restoration at the Installation Restoration Program (IRP) Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25 (Operable Unit [OU]-3A "No Further Action" sites) at MCAS El Toro in light of the County of Orange's adopted community reuse plan. This review was done in consideration of Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) § 120(h)(3) and Section 330 of the 1993 National Defense Authorization Act, which provide that the Marine Corps is, and will remain responsible for any contamination on the site at the time of transfer of these parcels, and that the Marine Corps will indemnify and defend the County and the County's tenants from any liability and economic loss that results from any preexisting contamination, or any contamination and economic loss that results from any preexisting contamination, or any contamination which is caused or contributed to by the Marine Corps or its operations at these sites. The Local Redevelopment Authority (LRA) submits the following comments: 1. At the 06 August 1997 Restoration Advisory Board meeting, Andy Piszkin, Remedial Project Manager, Naval Facilities Engineering Command, Southwest Division, implied that while the referenced sites would not have any restrictions as to their reuse, some of these sites may overlie contaminated groundwater and that it was possible that these sites might be constrained from utilizing any underlying groundwater. As you know, it is generally the policy of the United States Environmental Protection Agency (U. S. EPA) and California Environmental Protection Agency (Cal-EPA) to require disclosure of any institutional controls or land-use restrictions imposed as part of any proposed plan. While the LRA recognizes the need to	Shallow groundwater beneath Sites 9, 10, 13, 15, 21, 22, and portions of Site 25 is contaminated by trichloroethene (TCE) and tetrachloroethene (PCE). Remedial investigations have shown that the contamination does not originate from these sites but from Site 24, the volatile organic compound (VOC) source area. The nature and extent of contamination at Site 24 is discussed in the Remedial Investigation (RI) report for that site. The RI report is available in the Administrative Record at MCAS El Toro and at the information repository located at the Heritage Park Regional Library in Irvine, California. Remediation of groundwater and restrictions on drilling and use of groundwater will be addressed in the Proposed Plan for Site 24 Groundwater. This plan is currently scheduled to be issued for public review in March 1998. These restrictions were not addressed in the Proposed Plan for the No Action sites because the groundwater contamination is not related to Marine Corps activities that occurred at these sites. However, a statement will be added to the No Action Record of Decision (ROD) to clarify that restrictions may be placed on some of the No Action sites because of groundwater contamination that originates elsewhere on Station.

Letters Received During Public Comment Period		
Comments by:	***Gary Simon, MCAS El Toro Master Development Program, in a letter dated 15 August 1997***	
Number	**Comments**	**Response**
1A (continued)	limit use of potentially contaminated groundwater under these sites, the LRA needs to know, as soon as possible, the nature, extent, and characteristics of any and all restrictions associated with these No Further Action sites. The final plan for environmental restoration at these sites and future proposed plans for other sites must describe *any* and all possible land-use restrictions.	
1B	2. During redevelopment of the base, many of these sites may require some excavation and the possible export of soil. It is the LRA's understanding that there is no limitation on the LRA's ability to excavate and export soil at these sites. We would appreciate your confirmation of our understanding.	The Local Redevelopment Agency's (LRA's) understanding is correct. The No Action sites will have no restrictions that would limit the LRA's ability to excavate and export soil at these sites.
1C	3. The community's ability to reuse these sites will depend upon the Marine Corps development of an acceptable response contingency plan. While the LRA recognizes that these response contingency plans are generally not prepared until after approval of the ROD, the LRA requests an outline of the parameters of a response contingency plan prior to the completion of the ROD.	The Marine Corps does not plan to develop a response contingency plan for the No Action sites because the remedial investigation and risk assessments show that the sites do not present a risk to human health or the environment and no action is required.
1D	4. Some of these sites show the presence of manganese and arsenic in the soils. The Proposed Plan indicates that the levels of these metals are "within the background range of these metals in the vicinity of MCAS El Toro." If further studies determine that these metals do in fact limit the reuse of this property or pose a potential risk to the community, the Marine Corps must commit to remediate these metals.	Metals such as manganese and arsenic occur naturally in soil and rock. The concentration of these metals varies from place to place depending on geologic factors. The Department of the Navy (DON) is not responsible for the presence of, or remediation of naturally occurring background levels of inorganics. The DON is responsible for remediation of releases that occurred because of Marine Corps activities. This responsibility does not end when the property is transferred. According to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Section 120(h), the DON retains responsibility for remedial action found to be necessary after property is transferred provided the need for remedial action is attributable to Marine Corps activities. If further studies were to show that metals at a given site exceed background as the result of releases due to Marine Corps activities and that these exceedances present a risk to human

Letters Received During Public Comment Period		
Comments by:	*Gary Simon, MCAS El Toro Master Development Program, in a letter dated 15 August 1997*	
Number	**Comments**	**Response**
1D (continued)		health, the DON would be required to conduct remedial action as necessary. This responsibility is clarified in a letter from the U.S. EPA to Joseph Joyce, dated 05 June 1997. The letter is available in the Administrative Record at MCAS El Toro.
Comments by:	*Larry Agran on behalf of Project '99, in a letter dated 12 August 1997*	
2	Project '99 has prepared the following comments on the Proposed Plan for No Further Action at 11 Installation Restoration Program (IRP) sites at MCAS El Toro (Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25). The Human Health Risk Assessment conducted for these sites has concluded that the potential cancer risks for these sites range from 2 to 4 additional cases per 100,000 exposed population (with the exception of Site 15, which is less). We understand that the No Further Action proposal is based in part on the U.S. EPA terminology of "generally acceptable risk" at these calculated risk levels. It is our position that the stricter U.S. EPA risk range of "acceptable risk" (less than 1 additional cancer case per 1 million exposed population) should be applied to the No Further Action decision to protect the health of future occupants and workers at these sites.	No Action decisions at MCAS El Toro conform to regulatory requirements established in the CERCLA and in the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). According to NCP (Section 300.430(e)(2)(i)(2), excess cancer risks in the range of 1 in 100,000 to 1 in 1,000,000 are considered to be generally acceptable. The risk assessments performed for the No Action sites during the Phase II Remedial Investigation (RI) were very conservative. The assessments performed for the OU-3A sites (Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, and 22) assumed that each site could be used as a residence or as a commercial business place. The assessments performed for Site 25 assumed that the drainages could be used for residential or recreational purposes. The resident was assumed to live in the house on-site from birth to age 30 and to be exposed to contaminants in the soil through ingestion, dermal exposure, and inhalation. A soil ingestion rate of 100 milligrams a day was assumed for an adult and 200 milligrams a day for a child, 350 days a year. For dermal exposure, 25 percent of the resident's skin was assumed to be in contact with soil for 100 days a year. The resident was also assumed to inhale soil particulates and gases 24 hours a day, 350 days a year. Risk assessments are also inherently conservative because the concentration of contaminants used to calculate risk is not an average concentration, but either the highest detected concentration or the 95th percentile upper confidence limit of the mean. It is also assumed that this concentration remains constant for the entire period over which the risk is calculated (e.g., 30 years), when in fact many chemicals degrade over time. Uncertainties in the risk assessment are discussed in more detail in the RI reports for the No Action sites and for Site 25. These reports are available in the Administrative Record at MCAS El Toro.

Letters Received During Public Comment Period		
Comments by:	***Larry Agran on behalf of Project '99, in a letter dated 12 August 1997***	
Number	**Comments**	**Response**
2 (continued)		Even under these conservative assumptions, the highest risk at any site was 4 additional chances of contracting cancer in a population of 100,000. The human-health risk assessment performed for Site 25 estimated potential cancer risks for residents exposed to sediment over 30 years to be less than 1 additional case in 1,000,000. It is also possible that the risk may not increase at all, because of the conservative nature of the assumptions. Considering regulatory requirements and the conservative nature of the risk assessment process, the DON, U.S. EPA, Department of Toxic Substances Control (DTSC), and the Regional Water Quality Control Board (RWQCB) concur that the excess cancer risk at all of these sites is acceptable and no action is required.
Comments by:	***Gail Reavis, Mission Viejo resident, in a letter dated 10 August 1997***	
3	I have some questions for the public record regarding the "No Further Action at Eleven Sites", specifically directed at those eleven sites. Are there any buildings or structures of any kind on any of these eleven sites? Do any of these buildings/structures contain any asbestos (friable or otherwise), lead-based paint or any other now environmentally prohibited substances? If the answer is yes to any of these questions, what (if any) are the Navy's plans for cleanup/ remediation? If these buildings are left on the property with stipulations regarding hazardous substances, who will be financially and physically responsible for their cleanup/removal at some later date should these buildings require tearing down, moving, etc.? Nowhere in the June 1997 Restoration Advisory Board (RAB) newsletter did it make any mention whatsoever of any structures or plans for remediation. It would lead one to assume that either there are no structures on the sites, or that their remediation would be addressed at future Public Comment Periods.	Buildings containing asbestos and lead-based paint present on Station are addressed under the Base Realignment and Closure (BRAC) program, not under the Installation Restoration Program. The BRAC program is described in the BRAC Cleanup Plan, issued in March 1997. According to this plan, the Station is required to document all available information concerning asbestos-containing materials (ACM) prior to property transfer. Identified ACM will be remediated only if it is not in compliance with applicable laws and regulations or if it poses a threat to human health at the time of property transfer. Transfer of federal property for residential use will be conducted in accordance with the Residential Lead-Based Paint Hazard Reduction Act of 1992 (Title X of Public Law 102-550). Under this provision, housing constructed before 1978 must be inspected for lead-based paint and lead-based paint hazards. Results of the inspection must be provided to the prospective transferee of the property. Abatement is required for housing constructed prior to 1960 and a description of the abatement activities must be provided to the prospective transferee. Abatement is not required for

Letters Received During Public Comment Period		
Comments by:	***Gail Reavis, Mission Viejo resident, in a letter dated 10 August 1997***	
Number	**Comments**	**Response**
3 (continued)		housing constructed between 1960 and 1978. However, the prospective transferee must be provided with a lead-hazard information pamphlet, and the contract for sale or lease must include a lead-warning statement. The reason that remediation of asbestos and lead-based paint is not addressed in the Proposed Plans for the IRP sites is that asbestos and paint are not considered releases and are not addressed under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or the IRP. Remediation of these substances is handled under the BRAC program as described above.
Comments by:	***Fred and Cheryl Heinecko, Irvine residents, in a letter dated 25 July 1997***	
4	I am writing to express my concern about the 11 sites on the El Toro Marine Base that you are proposing to clean up. El Toro Marine Corps has been designated as a Superfund site. Therefore, it is the government's responsibility and duty to clean all of the base before it is turned over for civilian use in 1999. If local government officials are telling you it is not necessary to clean all the sites on the base because it is going to be turned into an airport, let me assure you that this is not necessarily the case. Many other alternative uses are being considered that would require all contamination to be removed. In addition, there is more involved than surface contamination. Unless all sites are cleaned, there is the continued threat of contamination to the groundwater of the surrounding communities. Therefore, I urge you to change your recommendations and clean up all contaminated sites at El Toro MCAS.	MCAS El Toro is a National Priorities List site. No moneys from the federal Superfund are used at MCAS El Toro. The 11 No Action sites were investigated thoroughly to determine if there were any chemicals present in the soil that could present a risk to human health or the environment either directly through ingestion, dermal contact, or inhalation, or indirectly by migrating or traveling to groundwater. The investigations of the sites included more than surface samples. Each site was sampled down to 10 feet below ground surface (bgs) or farther. This investigation showed that the chemicals potentially released at the 11 No Further Action sites do not present a threat to groundwater. Risk assessments were performed for the sites assuming that houses would be built on the sites and the residents would live in the houses for 30 years. Residents were assumed to be exposed to soil down to 10 feet bgs at the Operable Unit (OU)-3A sites and to sediment in the washes at Site 25. Exposure was assumed to occur through ingestion, inhalation, and dermal contact with soils and sediment. These risk assessments showed that the chemicals present at the No Action sites do not present an unacceptable risk to human health under a residential reuse scenario. The decision whether remedial action is required at a particular site is independent of future use of the Station. Each of the 11 No Action sites was evaluated and found safe to use for residential purposes.

Letters Received During Public Comment Period		
Comments by:	***Joseph R. Bonfiglio, P.E., in a letter dated 20 June 1997***	
Number	**Comments**	**Response**
5	Received your last memo brochure concerning "No Further Action at Eleven Sites." I heartily agree with this decision. I plan to attend the Public Meeting on July 31 at 4:30 p.m. in the Irvine City Hall. As far as I can see, the effects of solvents on the sites advocated are minor. A general cleanup will do the trick. The general risk factor has been overplayed. The conclusions of your article on "Human Health and Ecological Risk Assessments" are valid! Too much concern has overplayed all issues. Let us move forward and complete the job.	Thank you for your support. For clarification, the remedial investigations and risk assessments performed for the No Action sites show that no remediation, not even a general cleanup, is required. These sites are acceptable for use as they currently exist.
Comments by:	***Gregg James, Laguna Niguel resident, in a letter faxed 19 August 1997***	
6	Do the right thing. Am I mistaken or isn't the base on the Superfund list due to the extent of toxic contamination? I find it very hard to believe that now that the Marines will be leaving that the problems continue to be minimized. An example of this is the statement that one of the sites is no more than a 5-gallon fuel spill. Things like this would hardly qualify the base to be number 24 on the list of the 50 top sites in the country to be cleaned up. I was glad to see that it was recommended that the site that is contaminating groundwater under the base and Irvine's Woodbridge area will be cleaned up. If it won't need to be cleaned up the remaining 13 [sites] must pose significant health risks to put the base on the Superfund list. I hope and pray that the Marines will do the needed cleanup and not just contain the problems they leave. We must be able to develop this land to any use and have it be safe for homes to industrial use. I just hope we don't see the same type of studies that were done at Miramar where the Navy admitted that they lied on environmental studies there and were given political instructions as to the desired outcomes.	The United States Environmental Protection Agency (U.S. EPA) recommended adding MCAS El Toro to the National Priorities List because of the presence of volatile organic compound (VOC) contamination at the Station boundary and the detection of VOCs in agricultural wells west of the Station. This VOC contamination has been investigated and found to have its source at Site 24, the VOC Source Area. Soil and groundwater at Site 24 are addressed in separate Records of Decision (RODs). The sites that are addressed in this ROD for the No Action Sites have also been investigated thoroughly. Soil samples were taken at all sites to determine the types and locations of chemicals present. Sediment and surface water samples were also taken at Site 25 because this site consists of 4 major drainages which occasionally contain runoff water during storm events. Risk assessments were then performed to determine if the chemicals reported at the sites present a risk to human health. The risk assessments showed that Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, and 22 do not present an unacceptable risk to human health under a residential scenario or an industrial scenario. This means that the sites are safe for homes or industrial use. Site 25 was analyzed under a residential scenario even though this site consists of drainage channels which are

Letters Received During Public Comment Period		
Comments by:	*Gregg James, Laguna Niguel resident, in a letter faxed 19 August 1997*	
Number	**Comments**	**Response**
6 (continued)	The wording also frightens me, just what is considered a significant health threat? Or a major cancer risk? Or being put at any greater risk? The Marines may feel that a much higher level is no risk than those who live in the area. Just how much is some contamination, and just what is needed to pose a major cancer risk, or a significant health threat? How are these things gauged? What is significant to one may to you be just fine. The Niagara River contains high levels of pollutants at its source of industry but dissipates as it flows downstream. Even though levels downstream are fine, at the point of where pollutants are flowing into the river the levels are anything but acceptable. Is this the case with the Base? I would like some answers that the problems at the base will be corrected at the site of the contamination. I for one don't give a damn that those in Newport will not face any problem, I am concerned about the future development for the base, and those that will be affected by the pollutants won't be put into the Big Picture to lessen the impact. As was the case when air pollution was addressed in the Environmental Impact Report (EIR) report, to put the pollution studies based on how it will affect the L.A. Basin doesn't address how that air pollution will affect those of us in South Orange County. Please just give us information that shows how these things will impact local residents. That is the real issue. How would you feel if your doctor told you that you have cancer, but at this time he doesn't feel it's a significant health threat? Wouldn't you want all of your cancer gone, or would you feel it would be OK to keep just a little bit of it?	not suitable locations for homes or industrial buildings. Site 25 was also analyzed for human-health risks due to surface water in San Diego Creek (which receives runoff from the 4 Site 25 drainages). This analysis assumed the water in the creek was used for recreational, not residential, purposes. The risk assessment showed that Site 25 does not present an unacceptable risk to human health under the residential or recreational scenario. Based on the remedial investigation and risk assessments, the Department of the Navy (DON), U.S. EPA, Department of Toxic Substances Control (DTSC), and the Regional Water Quality Control Board (RWQCB) concur that No Action is required at Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25. The U.S. EPA has established that excess cancer risks over 1 in 10,000 are generally considered a significant health threat. The criteria for judging the significance of cancer risks is provided in regulations promulgated by the U.S. Government in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). At Marine Corps Air Station (MCAS) El Toro, risks are calculated for individuals present at each site. For example, the risk at Site 4 is calculated assuming that a resident builds a house on the site and lives in the house for 30 years. Contact with contaminants would occur through breathing vapors and dust, ingesting soils, and having a contaminant absorbed through the skin. Using these assumptions, risks to the resident at Site 4 are less than 1 in 10,000. Risks to individuals who come to the site for a short time or live away from the site would be much less than the risks to a resident. The examples you provide are cases where risk is calculated at a distance away from the source of contamination. This is not the case in the human-health risk assessments performed for MCAS El Toro. The remaining Installation Restoration Program (IRP) sites will be addressed in future Proposed Plans with the opportunity for public comment.

Letters Received During Public Comment Period		
Comments by:	***Arline Chenarides, Aliso Viejo resident, in a letter to Captain Matthew Morgan and Joseph Joyce, dated 23 June 1997***	
Number	**Comments**	**Response**
7	Harry and I missed getting to meet and talk with you at the last public comment meeting on June 18th. We were on vacation and were unable to make the meeting, but hope to see you at the next regular RAB meeting. We were very grateful to get to speak with you in length on May 15th at the last public comment meeting. We were very convinced by yourself and Mr. Joyce about the integrity and intentions of the U.S. Government regarding the level to which MCAS El Toro will be cleaned up. We believe we heard you both very clearly state that the base will be cleaned up to a level of "residential use" not to the level of intended "reuse". Of course there are some exceptions, like the two landfill sites discussed. However, after attending an airport forum meeting on June 4th in Laguna Niguel at which Courtney Wiercioch, Orange County Assistant Chief Executive Officer and El Toro Project Manager, was one of the primary speakers, we are again confounded. Ms. Wiercioch clearly stated that one of the reasons for the County going forward with the airport proposal for El Toro was that the DECA was running out of money to clean up the closed bases and that millions of dollars would be saved by the Government in cleanup costs if the reuse was an airport. She also indicated that the County of Orange could not afford to finish the cleanup of the base to "residential" standards after the Marine Corps vacates it in 1999. What are we to believe? Please confirm that we were not incorrect in our assumptions of what both yourself and Mr. Joyce repeatedly tried to convince us was so.	The majority of the Marine Corps Air Station (MCAS) El Toro sites are characterized by small amounts of surface soil contamination. Remediation, where required, will allow for flexibility in future land use, including use for residential purposes. The landfill sites will be addressed in future Proposed Plans. These plans will address the types of restrictions necessary to protect human health and maintain the integrity of the proposed remedy.

Comments from Public Meeting		
Comments by:	*Donald Rez, Leisure World resident, at the Public Meeting on 31 July 1997*	
Number	**Comments**	**Response**
8	I'm a resident at Leisure World. I'm very unpopular at Leisure World, because I am vocal in my objection to the fact that our Board of Directors saw fit to produce a half a million dollars-plus into the — Proposition A, was it? Don't have an airport at El Toro. And they didn't ask me or anybody else. They lost the thing. But my treasury and funds that I have in there that maintain my house are gone. And they've raised — twice since they've raised our monthly dues. And I feel like the Board of Directors that took that money should pay it back to our treasury. So I am very unpopular with the Board of Directors. I am an inventor. I have a process — two processes for producing structural concrete out of polluted soil or sand. I've done it a number of times. And I can do everything that is necessary except pass a [U.S.] EPA test, which requires you to reduce the material to — so fine, it's just a little more coarse than face powder. It has to pass through a 300-mesh screen, which it doesn't matter how you have encapsulated this oil or pollutant, they're going to grind it up so that it is now bare again and reduced in size so much that it spreads so easily that it — you can't pass their [U.S.] EPA test. The Federal Government has seen fit a few years back, along with Exxon, to try to get oil out of oil-bearing shale in Colorado. I think it was twenty-some years ago. And they have never been successful enough to get enough oil to even supply the process expenditure of energy. So there's no value realized from getting the oil out of the oil-bearing shale. The thing that put me on to this process is I make oil-bearing shale out of this other material. And so, it is necessary that I find something that I can produce out of this polluted soil or sand that has the same characteristics of oil-bearing shale and acceptance by the [U.S.] EPA; that if they were to grind up that oil-bearing shale, they'd get oil out of it. And they would have a pollutant. So I feel like their rules are too restrictive. And I sure would like to find some way of nudging them a little.	Comment noted.

Comments from Public Meeting		
Comments by:	***Gail Reavis, Restoration Advisory Board member, at the Public Meeting on 31 July 1997***	
Number	**Comments**	**Response**
9A	My first comment is I'd like an answer to my comment. I'd also like an answer to last time's comment [this refers to a comment made by Ms. Reavis at the Public Meeting for the Site 24 Vadose Zone Proposed Plan].	Public comments about the proposed plans are formally addressed in the form of a Responsiveness Summary that is attached to the Record of Decision (ROD) for a particular site. Responses are not sent directly back to the person making the comment. Responses to all comments are reviewed by the Department of the Navy (DON), the United States Environmental Protection Agency (U.S. EPA), Department of Toxic Substances Control (DTSC), and the Regional Water Quality Control Board (RWQCB) as part of the ROD process. This process is not complete until the ROD is accepted and signed. Responses to individual comments could change up until this time. Ms. Reavis' comment and the response to the comment made at the last public meeting have been incorporated in the Site 24 Vadose Zone ROD.
9B	Okay. I brought up one of the concerns. And that was about the manganese. The fact sheet refers to the use of manganese being within background range in the vicinity. I think that's very vague. I realize this is a summary report. But I don't believe that that information is held up in the individual documents. So it's misleading to the general public, who is not even likely to read all of this.	Metals such as manganese and arsenic occur naturally in soil and rock. The concentration of these metals varies from place to place depending on geologic factors. Concentrations of metals can also be impacted by site-specific activities which can introduce additional metals into the soils. Background studies are used to determine whether the concentrations of metals are the result of natural variations or are due to site-specific activities. This is important because the DON is not required to remediate metals if the concentration levels are naturally occurring and are not a result of activities that occurred at the site. To perform the background study, samples of uncontaminated soils were gathered from areas in the foothills above Marine Corps Air Station (MCAS) El Toro and from areas around the Station. These samples were analyzed for metals and the concentrations of metals were statistically analyzed to determine the range of natural variation in soils throughout the Station. The results of this analysis are presented in a technical memorandum titled "Background and Reference Levels" dated October 1996. This document was reviewed and received concurrence from the U.S. EPA, DTSC, and the RWQCB and is available for review in the Public Administrative Record at MCAS El Toro.

Comments from Public Meeting		
Comments by:	***Gail Reavis, Restoration Advisory Board member, at the Public Meeting on 31 July 1997***	
Number	**Comments**	**Response**
9B (continued)		When the Proposed Plan states that the levels of metals are within the background range of these metals in the vicinity of MCAS El Toro, this means that the concentration of metals at the site does not exceed natural concentrations in the area and is most likely due to natural variations and not due to any activities that occurred at the sites.
9C	I disagree with no cleanup action proposed at eleven sites. I believe if there were private parties in possession of these properties, and that they were being sold to another private property outside of the Government, they would probably need more than no cleanup action proposed. Well, I can't think of what I was going to say. That'll do for the time being.	No Action decisions at MCAS El Toro conform to regulatory requirements established in the CERCLA and in the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). These regulatory requirements are the same whether the property is privately owned or owned by the federal government. Remedial investigations and remedial actions taken at MCAS El Toro are carefully monitored by the U.S. EPA, the DTSC, and the RWQCB. These agencies assisted in the development and review of the work plan, sampling plan, remedial investigation reports, and other documents associated with the Installation Restoration Program (IRP) site investigations. All of these agencies have concurred that No Action is appropriate for Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25.
Comments by:	***Andrew Bain, U.S. EPA, at the Public Meeting on 31 July 1997***	
10	My name is Andrew Bain, with the U.S. EPA, asking Gail if she wanted a written letter in response to her comments.	According to Superfund Amendments and Reauthorization Act of 1986 (SARA) § 113 and 117(b) and National Oil and Hazardous Substances Pollution Contingency Plan (NCP) § 300.430(f)(3)(i)(F), the Department of the Navy (DON) is required to prepare a response to significant comments, criticisms, and new data submitted in written or oral form during the comment period. This response document must accompany the final remedial action plan or other decision document (e.g., the Record of Decision [ROD]). The responsiveness summary is thoroughly reviewed by all agencies signing the final document. It is not the DON's policy to issue a separate response to each individual outside of the ROD.
Comments by:	***Gail Reavis, Restoration Advisory Board member, at the Public Meeting on 31 July 1997***	
11A	For both meetings.	Please see response to Comment 9A.

Comments from Public Meeting		
Comments by:	***Gail Reavis, Restoration Advisory Board member, at the Public Meeting on 31 July 1997***	
Number	**Comments**	**Response**
11B	Oh, I'd also like to go on record that I don't consider these to be meetings. They are and have been termed as "open houses." I'd appreciate it if they were called such on the public information that they put out. There's no forum for the people who do come to the meeting to be able to convey their interests, their concerns, or their questions to other people. And I think that process of thinking is necessary, because some people don't know what their questions are. So we need to be able to hear other people's thoughts, to work off of that. While this satisfies the Government's requirements of going through the process and making the information available to the public, I think that it's less than the public needs to become informed. I also never saw anything published in the paper on this. If it was in the paper, it wasn't very well handled. And that is nothing against Matthew. I know he's in charge of this. He's a nice guy. But beyond fulfilling the legal requirements of what the government wants, I just don't think that it's what the public needs.	The public meeting held on 31 July 1997 conforms to guidance in CERCLA and NCP and was chosen because it allowed residents and other interested parties to meet and converse with DON and agency personnel to obtain information and ask questions which they might have regarding the No Action sites. It was felt that this type of meeting would allow all people attending the meeting, even those who are generally reluctant to speak before a large group, to have an opportunity to ask questions, raise issues, and voice their concerns. The positive response from the public on both the questionnaires and in interviews with the public recorder attest to the effectiveness of the meeting format. The public meeting was announced in the *Los Angeles Times* (Orange County edition) and the *Orange County Register* on 10 June 1997. The public meeting was also announced in the Proposed Plan for the No Action sites which was mailed to approximately 1,800 households, public officials and agencies, and businesses.
Comments by:	***Don Zweifel, Restoration Advisory Board member, at the Public Meeting on 31 July 1997***	
12	I enjoyed talking with Lynn Hornecker. She's with the Engineering Command. And I found it marvelous. She gave a wonderful explanation about that program, and the IRP. I also talked to Dante Tedaldi. He's with Bechtel. And I found he was very helpful in regard to risk assessment. And I also talked with Andrea Temeshy. She's the toxicologist for Bechtel, and I found that her conversation with me was terribly valuable. And Andy Piszkin, I think I enjoyed Andy Piszkin's comments. And Joseph Joyce, I'd also like to add, he was very helpful, too. And I feel this was a wonderful opportunity to see the overall — the big picture. It really showed the big picture. And I think it's absolutely necessary to have this type of forum.	Comment noted. Please see the response to Comment 11B for a discussion of the meeting format and responses to Comments 2, 4, and 6 for a discussion of risks at the No Action sites. Methyl-tert-butyl ether (MTBE) is a synthetic organic ether that has been used to enhance the octane level in gasoline since the early 1980s. MTBE has recently become more widely used as a result of the Clean Air Act Amendments of 1990, which require use of oxygenated fuels or reformulated gasoline in certain metropolitan areas where atmospheric concentrations of ozone or carbon monoxide exceed national ambient air quality standards. Soil samples taken from the No Action sites were not analyzed for MTBE because the fuel materials which were known to be released at these sites (e.g., JP-5, diesel oil, diesel fuel) do not contain MTBE. In

Comments from Public Meeting		
Comments by:	*Don Zweifel, Restoration Advisory Board member, at the Public Meeting on 31 July 1997*	
Number	**Comments**	**Response**
12 (continued)	However, there was one — I did have, at one time, some very major misgivings regarding this type of forum. And now, I think I was mistaken. And — But I do believe that this is just one mode of making a presentation on this particular subject. But there's — There are other modes, but this is definitely needed. I found it extremely illuminating and very insightful. And it helped me to understand the big picture, as I said earlier. I think what I'm concerned about right now is methyl-tert-butyl ether (MTBE) concentrations. And I'm also concerned about leachability of the — I'm talking about the leachate emissions. That's a worrisome thing to me. I'm still not, maybe, totally convinced that the — that the human — The risk to human health — I haven't really made — I don't have enough information to determine whether the risk to human health is a factor here in this presentation that I've seen this evening or not. I'm inclined to think that — As I said, Andrea Temeshy's presentations indicate to me that pica factor is — has been considered, and that they felt that it was not a risk. So I would — I would say that we need to have more of these. And I think that I approve of it wholeheartedly. However, a public forum with a dog and pony show where we can participate and where we can have a microphone, each individual can come up and maybe make a presentation as to how they feel about — rather than just doing it, you know, through a Court Reporter. This is fine. This is one mode. But I think it's necessary — Other people want to know how other people feel. And in this particular instance, this isn't reflected. This particular forum or presentation or exhibition can't reflect that, because it's not set up that way.	addition, the releases that were known to have occurred at the sites generally took place before 1990 when the use of MTBE became widespread.

Comments from Public Meeting		
Comments by:	***Don Zweifel, Restoration Advisory Board Member, at the Public Meeting on 31 July 1997***	
Number	**Comments**	**Response**
12 (continued)	But all in all, it's imperative that you have this exhibition, this public demonstration, you might say, a dog and pony show, on a finite level, mind you. So — It's great as far as it goes, but you must consider that there is another forum where people actually — the participatory factor needs to be considered. Once you have that, then people feel that they've been — that they've had their day in court, you might say. And as Andy Piszkin was saying, everybody likes to get up on their soapbox, or maybe Joseph Joyce said that. And I think it's important to — for people to have that forum, too.	

Public Comment Forms		
Comments by:	***Arline Chenarides, Aliso Viejo resident, submitted on Public Comment Form on 31 July 1997***	
Number	**Comments**	**Response**
13	Being a resident of Aliso Viejo I am very concerned about the base turning into an International Airport. However, I am very concerned that both pro-airport and anti-airport proponents are confusing the quality of cleanup with the reuse. Regardless of the reuse, I am confident the U.S. Government has the welfare of the future of our children's children in mind when expending all funds available now and in the future for residential cleanup.	The Department of the Navy (DON) agrees that the issues of remediation and reuse need to be considered separately. It has always been the DON's intent to remediate property to the extent required under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) regardless of future land use. In most cases, this means that the property could be used for residential, recreational, or commercial purposes. The risk assessment performed for these sites showed these sites are acceptable for unrestricted use as they are, without remediation.
Comments by:	***Charles Bennett, Fullerton resident, submitted on Public Comment Form on 31 July 1997***	
Number	**Comments**	**Response**
14A	I see no problem with the No Action plan. It is a cost-effective approach to remediation at El Toro. If other sites are not significantly impacted above background, a similar approach should be implemented.	Comment noted. Thank you for your support.
14B	The meeting structure is adequate for answering questions, but it does not provide an opportunity for community action and participation.	Please see the response to Comment 11B.

Acronyms/Abbreviations:

ACM – asbestos-containing material
BRAC – Base Realignment and Closure
Cal-EPA – California Environmental Protection Agency
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act
DON – Department of the Navy
DTSC – Department of Toxic Substances Control
EIR – Environmental Impact Report
IRP – Installation Restoration Program
LRA – Local Redevelopment Authority
MCAS – Marine Corps Air Station
MTBE – methyl-tert-butyl ether
NCP – National Oil and Hazardous Substances Pollution Contingency Plan
OU – operable unit
PCE – tetrachloroethene
RAB – Restoration Advisory Board
RI – Remedial Investigation
ROD – Record of Decision
RWQCB – Regional Water Quality Control Board
SARA – Superfund Amendments and Reauthorization Act of 1986
TCE – trichloroethene
U.S. EPA – United States Environmental Protection Agency
VOC – volatile organic compound

ATTACHMENT A

ADMINISTRATIVE RECORD FOR NO ACTION SITES

TECHNICAL DOCUMENTS

MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. DOC.NO. DOCUMENT.TYPE... CONTR/GUID..NO.. APPROX.#.OF.PAGES	PRC.DATE DOC.DATE CTO.NO.. EPA.CAT#	FROM..... FROM.SIGNATURE..... TO..... TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 000187 LTR 000000000000000	11/01/93 09/11/85 00000 01.1	J. B. LEAP MCAS EL TORO COMMANDING OFFICER NAV PORT HUENEME	INITIAL ASSESSMENT STUDY OF MCAS EL TORO	ADMIN RECORD INFO REPOSITORY	PA TECH/GUID DOC. NFA	1,2,3,4,5, 6,7,8,9,10 11,12,13, 14,15,16, 17,18,19, 20,21,22 OU1,OU2, OU2A,OU2B, OU2C, OU3	SOUTHWEST DIVISION MCAS EL TORO
M60050 000684 MISC NEESA 13-074 0200	04/05/95 05/01/86 00000 01.1	NEESA PORT HUENEME E.B. LUECKER SOUTHWEST DIVISION	INITIAL ASSESSMENT STUDY OF MCAS EL TORO	ADMIN RECORD	IAS EE/CA(*) AM EL TORO TECH/GUID DOC. NFA	4,7,11,13, 14,19,20 OU3	SOUTHWEST DIVISION MCAS EL TORO
M60050 000784 LTR 000000000000000 0002	07/07/95 08/05/86 00000 01.2	DHS LOS ANGELES S. SIMPSON MCAS EL TORO W.L. HOBY	COMMENTS ON THE INSTALLATION ASSESSMENT STUDY OF MCAS EL TORO	ADMIN RECORD	COMMENTS TECH/GUID DOC. NFA	OU1,18	SOUTHWEST DIVISION MCAS EL TORO
M60050 001152 LTR 000000000000000 0005	12/22/95 10/29/86 00000 01.6	EPA SAN FRANCISCO L. MARTIN MCAS EL TORO	COMMENTS ON THE REVIEW OF INSTALLATION ASSESSMENT STUDY OF MCAS EL TO	ADMIN RECORD	COMMENTS IAS TECH/GUID DOC. NFA	OU1	SOUTHWEST DIVISION MCAS EL TORO
M60050 000793 LTR 000000000000000 0018	07/07/95 11/04/86 00000 01.2	EPA SAN FRANCISCO J. JOHNSON MCAS EL TORO	REVIEW COMMENTS ON THE INITIAL ASSESSMENT STUDY	ADMIN RECORD	COMMENTS IAS TECH/GUID DOC. NFA	4,6,7,8,10 12,13,15 OU3	SOUTHWEST DIVISION MCAS EL TORO
M60050 000225 DATA 000000000000000 0018	06/30/94 05/29/87 00000 04.4	MCAS EL TORO J.R. APPLEGATE MCM WASHINGTON D.C.	VOLATILE ORGANIC COMPOUNDS (VOC) COMPLIANCE.	ADMIN RECORD	VOA TECH/GUID DOC. NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 000783 LTR 000000000000000 0007	07/07/95 06/20/88 00000 01.2	EPA SAN FRANCISICO J. CLIFFORD MCAS EL TORO BG SHUTER	CORRESPONSECE REGARDING PLACEMENT OF MCAS EL TORO ON THE NPL	ADMIN RECORD	NPL TECH/GUID DOC. NFA	OU1,18	SOUTHWEST DIVISION MCAS EL TORO
M60050 001139 LTR 000000000000000 0002	12/22/95 07/03/88 00000 01.6	EPA SAN FRANISCO J. ANDERSON WESTERN DIVISION W.H. BOSSERT	DOCUMENTATION FOR FACILITIES PROPOSED FOR INCLUSION ON THE NATIONAL PRIORITIES LIST	ADMIN RECORD	NPL TECH/GUID DOC. NFA	OU1	SOUTHWEST DIVISION MCAS EL TORO
M60050 000788 PLAN N624785C5592 0250	07/07/95 08/01/88 00000 01.2	JMM J. GOODELL MCAS EL TORO	SITE INSPECTION PLAN OF ACTION IRP MCAS TUSTIN AND EL TORO	ADMIN RECORD	SI EE/CA(*) TECH/GUID DOC. NFA	1,2,3,5,6 7,9,10,11 13,14,16, 17,4,19,8 OU2A,OU2B, OU2C,OU3, OU2	SOUTHWEST DIVISION

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UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO.	PRC.DATE / DOC.DATE / CTO.NO.. / EPA.CAT#	FROM..... / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 RPT 000000000000000 0175	000777	07/07/95 03/29/89 00000 01.2	OCWD J. REILLY	PHASE I REPORT INVESTIGATION OF TRICHLOROETHYLENE CONTAMINATION IN THE VICINITY OF THE MCAS EL TORO	ADMIN RECORD	TECH/GUID DOC. NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 RPT N6871189D9296 0007	000306	07/01/94 11/16/89 00018 03.3	SOUTHWEST DIVISION MCAS EL TORO	WORK PLAN, REMEDIAL INVESTIGATION/ FEASIBILITY STUDY INSTALLATION RESTORATION PROGRAM.	ADMIN RECORD	SOS RI FS SOW NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000	000151	11/01/93 11/21/89 00000 01.1	A. B. FREEMAN SOUTHWESTDIV COMMANDING OFFICER MCAS EL TORO	EVALUATION OF ADDITIONAL INSTALLATION RESTORATION PROGRAM SITES	ADMIN RECORD	RI FS NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000	000154	11/01/93 11/29/89 00000 01.1	J. R. FAUNCE MCAS EL TORO COMMANDING OFFICER SOUTHWESTDIV	INSTALLATION RESTORATION (IR) PROGRAM MCAS EL TORO	ADMIN RECORD	IRP TCE CLEANUP NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 RPT N6871189D9296	000162	11/01/93 12/01/89 00018 03.3	 JACOBS SOUTHWESTDIV	WORK PLAN FOR A REMEDIAL INVESTIGATION/FEASIBILITY STUDY AT MCAS EL TORO	ADMIN RECORD	RI FS NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 RPT N687189D9296 0200	000009	10/29/93 01/01/90 00018 03.3	JACOBS ENGINEERING SOUTHWEST DIVISION	IMPLEMENTATION PLAN - WORK PLAN FOR A REMEDIAL INVESTIGATION/FEASIBILITY STUDY AT THE MCAS, EL TORO	ADMIN RECORD	RI FS TECH/GUID DOC. NFA	001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 018 019	SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000 0008	000787	07/07/95 01/11/90 00000 01.2	OCWD R.L. HERNDON MCAS EL TORO M.W. REHOR	COMMENTS ON MCAS EL TORO OFF-STATION DRAFT RI WORK PLAN (NOVEMBER 1989)	ADMIN RECORD	COMMENTS NFA	OU1,OU2, OU3	SOUTHWEST DIVISION MCAS EL TORO

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M60050 000114 XMTL 000000000000000	11/01/93 01/30/90 00018 03.3	E. ROGAN CH2M HILL L. NUZUM SOUTHWESTDIV	DRAFT FINAL FOR RI/FS WORK PLAN FOR YOUR REVIEW	ADMIN RECORD	RI FS NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 000013 RPT N6871185C5592 0200	10/29/93 03/01/90 00000 03.3	JMM SOUTHWEST DIVISION	FINAL WORK PLAN OFF-SITE REMEDIAL INVESTIGATION MCAS EL TORO INSTALLATION RESTORATION PROGRAM MCAS TUSTIN & EL TORO	ADMIN RECORD	RI PCE TCE DCE OU-I OU-II OU-III NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 000790 LTR 000000000000000 0003	07/07/95 03/31/90 00000 01.2	JMM SOUTHWEST DIVISION	JMM'S RESPONSE TO COMMENTS FROM EPA	ADMIN RECORD	COMMENTS NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 000791 LTR 000000000000000 0001	07/07/95 03/31/90 00000 01.2	JMM SOUTHWEST DIVISION	JMM'S RESPONSE TO COMMENTS FROM OCWD	ADMIN RECORD	COMMENTS NFA	OU3,OU4 OU1,OU2	SOUTHWEST DIVISION MCAS EL TORO
M60050 000015 RPT N6871189D9296 0200	10/29/93 04/04/90 00018 03.3	JACOBS ENGINEERING SOUTHWEST DIVISION	REVISED IMPLEMENTATION PLAN FOR REMEDIAL INVESTIGATION AND FEASIBILITY STUDY WORK PLAN FOR MCAS EL TORO REVISED PER MODIFICATION #03 (16 MARCH 1990)	ADMIN RECORD	RI FS TECH/GUID DOC. NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 000016 RPT N6871189D9296 0200	10/29/93 04/09/90 00018 03.3	JACOBS ENGINEERING SOUTHWEST DIVISION	DRAFT SUMMARY REPORT - COMPREHENSIVE WORK PLAN FOR REMEDIAL INVESTIGATION/FEASIBILITY STUDY AT MCAS EL TORO	ADMIN RECORD	RI FS TECH/GUID DOC. NFA	001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 021 022	SOUTHWEST DIVISION

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M60050	000023	10/29/93	JACOBS	DRAFT SITE SAMPLING AND ANALYSIS PLAN - CTO #0018	ADMIN RECORD	RI	001	SOUTHWEST DIVISION
RPT		09/10/90		COMPREHENSIVE WORK PLAN FOR REMEDIAL INVESTIGATION/		SAP	002	
N6871189D9296		00018	SOUTHWEST DIVISION	FEASIBILITY STUDY AT MCAS EL TORO		TCE	003	
		03.1				VOC	004	
						FS	005	
						AAL	006	
						OU-3	007	
						TECH/GUID DOC.	008	
						NFA	009	
							010	
							011	
							012	
							013	
							014	
							015	
							016	
							017	
							018	
							019	
							020	
							021	
M60050	000024	10/29/93	JACOBS	DRAFT REMEDIAL INVESTIGATION FEASIBILITY STUDY WORK	ADMIN RECORD	RI	001	SOUTHWEST DIVISION
RPT		09/10/90		PLAN - CTO #0018 AT MCAS EL TORO		VOC	002	
N6871189D9296		00018	SOUTHWEST DIVISION			PCB	003	
		03.3				FS	004	
						TECH/GUID DOC.	005	
						NFA	006	
							007	
							008	
							009	
							010	
							011	
							012	
							013	
							014	
							015	
							016	
							017	
							018	
							019	
							020	
							021	
							022	
M60050	000190	03/03/94	SOUTHWEST DIVISION	MCAS EL TORO INSTALLATION RESTORATION PROGRAM	ADMIN RECORD	SI	1	SOUTHWEST DIVISION
RPT		11/01/90	ENVIRONMENTAL	STATUS REPORT SITE HISTORY		TCE	2	MCAS EL TORO
000000000000000		00000	SOUTHWEST DIVISION			RI	3	
		07.1	FILE			FS	4	
						IRP	5	
						TECH/GUID DOC.	6	
						NFA	7	
							8	

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M60050 000190 continued						9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 OU1 OU2 OU3 OU4	
M60050 000680 RPT N6871189D2001 0150	04/05/95 01/22/91 DO 21 04.2	DAMES & MOORE SOUTHWEST DIVISION	DRAFT FEASIBILITY STUDY MCAS EL TORO	ADMIN RECORD	FS TECH/GUID DOC. NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 000214 RPT N6871189D9296 0500	06/30/94 02/28/91 00018 03.1	SOUTHWEST DIVISION MCAS EL TORO	MCAS EL TORO INSTALLATION RESTORATION PROGRAM DRAFT FINAL SAMPLING AND ANALYSIS PLAN.	ADMIN RECORD	SAP EE/CA(*) NFA	4,7,11,13 14,19,20	SOUTHWEST DIVISION
M60050 000672 PLAN N6871189D9296 0350	04/05/95 02/28/91 00018 03.3	JACOBS ENGINEERING E. ROGER SOUTHWEST DIVISION	DRAFT FINAL RI/FS WORK PLAN MCAS EL TORO	ADMIN RECORD	RI FS TECH/GUID DOC. NFA	OU1,OU2 18,2,3,5, 10,1, OU 3 4,6,7,8,9, 11,12,13, 14,15,16, 19,20,21, 22	SOUTHWEST DIVISION MCAS EL TORO
M60050 000977 PLAN N6871189D9296 0950	08/30/95 02/28/91 00018 03.1	JACOBS ENGINEERING J. DOLEGOWSKI SOUTHWEST DIVISION	DRAFT FINAL SAMPLING AND ANALYSIS PLAN	ADMIN RECORD	SAP TECH/GUID DOC. NFA	OU1,OU2, OU3 18,2,3,5, 10,17,1,4, 6,7,8,9,11 12,13,14, 15,16,19, 20,21,22	SOUTHWEST DIVISION MCAS EL TORO

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M60050 RPT N6871189D9296	000030 10/29/93 03/22/91 00018 01.1	JACOBS ENGINEERING SOUTHWEST DIVISION		DRAFT FINAL SITE MANAGEMENT PLAN MCAS EL TORO	ADMIN RECORD	SMP TECH/GUID DOC. NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 PLAN N6871189D9296 0075	000106 11/01/93 03/22/91 00018 01.1	J. DOLEGOWSKI JACOBS H. PADRO SOUTHWESTDIV		DRAFT FINAL SITE MANAGEMENT PLAN MCAS EL TORO	ADMIN RECORD	SMP TECH/GUID DOC. NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 RPT N6871189D9296	000041 10/29/93 07/09/91 00145 01.1	JACOBS SOUTHWESTDIV		GEOPHYSICAL SURVEY REPORT INSTALLATION RESTORATION PROGRAM MCAS EL TORO	ADMIN RECORD	IRP NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR N6871189D9296 0012	001016 12/08/95 03/16/92 00145 01.6	SOUTHWEST DIVISION J. DOLEGOWSKI SOUTHWEST DIVISION		MEETING MINUTES WITH REGULATORY AGENCIES ON PRELIMINARY RESULTS OF SOIL SAMPLES FROM AGUA CHINON W WASH, AND OWCD DESALTER PROJECT	ADMIN RECORD	MTG MINS NFA	OU1 18	SOUTHWEST DIVISION
M60050 MISC CLEC0101F14512 0005	001483 05/21/96 12/10/92 00145 03.0	JACOBS ENGINEERING C. PLAGG SOUTHWEST DIVISION A. PISZKIN		MEETING MINUTES FOR REMEDIAL PROJECT MANAGER'S MEETING TO DISCUSS REMEDIAL INVESTIGATION/FEASIBILITY STUDY AND RCRA FACILITY ASSESSMENT	ADMIN RECORD	MTG MINS RI FS RCRA RFA NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 GUID CA6170023208	000079 11/01/93 02/08/93 00000 11.4	ROBERT C. WILLIAMS DEPT H & H DANA SAKAMOTO SOUTHWESTDIV		AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY, PUBLIC HEALTH ASSESSMENT-PUBLIC COMMENT RELEASE FOR MCAS EL TORO	ADMIN RECORD	PUBNOT ATSDR COMMENTS AM EL TORO NFA		SOUTHWEST DIVIISON MCAS EL TORO
M60050 RPT N6871189D9296 0054	000867 07/18/95 02/08/93 00145 08.1	ASTDR		HUMAN HEALTH RISK ASSESSMENT FOR MCAS EL TORO	ADMIN RECORD	HRA TECH/GUID DOC. NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 MEMO 000000000000000 0004	000815 07/07/95 02/15/93 00145 01.6	JACOBS ENGINEERING SOUTHWEST DIVISION		DEFINITION OF OU 1, 2, 3 AND 4 MCAS EL TORO	ADMIN RECORD	OU NFA	OU1,OU2, OU3, OU4	SOUTHWEST DIVISION MCAS EL TORO
M60050 MEMO N6871189D9296 0018	000824 07/07/95 02/15/93 00145 01.6	JACOBS ENGINEERING J. DOLEGOWSKI SOUTHWEST DIVISION A. PISZKIN		DRAFT POSITION PAPER ON THE PRELIMINARY RISK ASSESSMEN T FOR OU 1, 2, 3 AND THE PROPOSED EL TORO BASELINE HUMAN HEALTH RISK ASSESSMENT FOR OU 1	ADMIN RECORD	RA TECH/GUID DOC. NFA	OU1,OU2, OU3	SOTUHWEST DIVISION MCAS EL TORO

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M60050 000125 LTR 000000000000000	11/01/93 02/26/93 00000 08.1	G. HOLMES DEPT TOXIC SUB A. PISZKIN SOUTHWESTDIV	DRAFT POSITION PAPER ON THE PRELIMINARY RISK ASSESS. FOR OPERABLE UNITS (OUs)-1, 2 AND 3 AND THE PROPOSED EL TORO BASELINE HUMAN HEALTH RISK ASSESS. FOR OU-1	ADMIN RECORD	OU RISK NFA	OU1,OU2, OU3	SOUTHWEST DIVISION MCAS EL TORO
M60050 000821 MEMO N6871189D9296 0020	07/07/95 04/30/93 00145 01.6	JACOBS ENGINEERING SOUTHWEST DIVISION	RISK ASSESSMENT MEETING HELD ON 30 APRIL 1993	ADMIN RECORD	RA NFA	OU1,OU2 OU3	SOUTHWEST DIVISION MCAS EL TORO
M60050 001174 LTR 000000000000000 0020	12/26/95 04/30/93 00000 01.1	JACOBS ENGINEERING SOUTHWEST DIVISION	APRIL 30, 1993 RISK ASSESSMENT MEETING CONDUCTED FOR OU1, OU2 & OU3	ADMIN RECORD	MTG MINS RA NFA	OU1,OU2 OU3	SOUTHWEST DIVISION MCAS EL TORO
M60050 000083 RPT N6871189D9296	11/01/93 05/07/93 00145 01.1	 JACOBS SOUTHWESTDIV	PHASE I REMEDIAL INVESTIGATION DRAFT TECHNICAL MEMO MCAS EL TORO VOLUME I	ADMIN RECORD	RI OU-1 OU-2 OU-3 EE/CA(*) TECH/GUID DOC. NFA	001 002 003 004 005 006 007 008 009 009 010 011 012 013 014 015 016 017 018 019 020 021 022	SOUTHWEST DIVISION MCAS EL TORO
M60050 000084 RPT N6871189D9296	11/01/93 05/07/93 00145 01.1	 JACOBS SOUTHWESTDIV	PHASE I REMEDIAL INVESTIGATION DRAFT TECHNICAL MEMO MCAS EL TORO VOLUME II	ADMIN RECORD	RI OU-1 OU-2 OU-3 EE/CA(*) TECH/GUID DOC. NFA	001 002 003 004 005 006 007 008 009 010 011 012 013 014	SOUTHWEST DIVISION MCAS EL TORO

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M60050	000084 continued					015 016 017 018 019 020 021 022	
M60050 RPT N6871189D9296	000085 11/01/93 05/07/93 00145 01.1	JACOBS SOUTHWESTDIV	PHASE I REMEDIAL INVESTIGATION DRAFT TECHNICAL MEMO MCAS EL TORO VOLUME III	ADMIN RECORD	RI EE/CA(*) WELLS MONITORING TECH/GUID DOC. NFA	001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 021 022	SOUTHWEST DIVISION MCAS EL TORO
M60050 RPT N6871189D9296	000086 11/01/93 05/07/93 00145 01.1	JACOBS SOUTHWESTDIV	PHASE I REMEDIAL INVESTIGATION DRAFT TECHNICAL MEMO MCAS EL TORO VOLUME IV	ADMIN RECORD	RI EE/CA(*) TECH/GUID DOC. NFA	4,7,11,13, 14,19,20	SOUTHWEST DIVISION MCAS EL TORO
M60050 RPT N6871189D9296 0800	000713 04/05/95 05/07/93 00145 03.4	JACOBS ENGINEERING A. MATIN SOUTHWEST DIVISION	PHASE I RI DRAFT TECHNICAL MEMORANDUM VOLUME I & III AND IV	ADMIN RECORD	TECH MEMO RI TECH/GUID DOC. NFA	1,2,3,4,5 6,7,8,9,10 11,12,13, 14,15,16, 17,18,19, 20,21, OU1 OU2,OU3	SOUTHWEST DIVISION MCAS EL TORO
M60050 MM N6871189D9296 0010	000814 07/07/95 05/10/93 00145 01.6	JACOBS ENGINEERING SOUTHWEST DIVISION	DQO MEETING HELD ON 10-11 MAY 1993	ADMIN RECORD	DQOP NFA		SOUTHWEST DIVISION MCAS EL TORO

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MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO. / PRC.DATE / DOC.DATE / CTO.NO.. / EPA.CAT#	FROM..... / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 LTR 000000000000000	000132 11/01/93 05/13/93 00000 04.1	A. PISZKIN SOUTHWESTDIV J. J. ZARNOCH EPA	IDENTIFICATION OF STATE "APPLICABLE" OR "RELEVANT AND APPROPRIATE" REQUIREMENTS (ARARs) FOR THE REMEDIAL INVESTIGATION AND FEASIBILITY STUDY MCAS EL TORO	ADMIN RECORD	ARAR RI FS EE/CA(*) TECH/GUID DOC. NFA	OU1,OU2, OU3,1,2,3, 4,5,6,7,8, 9,10,11,12 13,14,15, 16,17,18, 19,20,21 22,24,25 25,26,27	SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000	000133 11/01/93 05/20/93 00000 08.1	A. PISZKIN SOUTHWESTDIV J. J. ZARNOCH EPA	ENVIRONMENTAL HEALTH HAZARD ASSESSMENT OF THE CALIF. ENVIRONMENTAL PROTECTION AGENCY (CALEPA) MEMORANDUM ENTITLED "CALIFORNIA CANCER POTENCY FACTORS"	ADMIN RECORD	CANCER CCPF TECH/GUID DOC. NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 MEMO N6871189D9296 0002	000877 07/18/95 06/28/93 00145 11.5	JACOBS ENGINEERING J. DOELGOWSKI SOUTHWEST DIVISION A. PISZKIN	POSITION PAPER ON SOIL CUTOFF DEPTH	ADMIN RECORD	NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000	000121 11/01/93 07/08/93 00000 01.6	J. HAMILL EPA A. PISZKIN SOUTHWESTDIV	EPA COMMENTS ON THE OF THE MCAS EL TORO PHASE I RI DRAFT TECHNICAL MEMORANDUM	ADMIN RECORD	TECH MEMO RI COMMENTS NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 RPT N6871189D9296	000087 11/01/93 07/16/93 00193 01.1	JACOBS SOUTHWESTDIV	FINAL RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) FACILITIY ASSESSMENT RPT MCAS EL TORO VOLUME I	ADMIN RECORD INFO REPOSITORY	RCRA RFA EE/CA(*) NFA	4,7,11,13, 14,19,20	SOUTHWEST DIVISION MCAS EL TORO
M60050 RPT N6871189D9296	000089 11/01/93 07/16/93 00193 01.1	JACOBS SOUTHWESTDIV	FINAL RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) FACILITIY ASSESSMENT RPT MCAS EL TORO VOLUME III (DRAFT PRELIMINARY REVIEW/VISUAL SITE INSPECTION RPT)	ADMIN RECORD	RFA RCRA SI EE/CA(*) NFA	4,7,11,13, 14,19,20	SOUTHWEST DIVISION MCAS EL TORO
M60050 RPT N6871189D9296	000090 11/01/93 07/16/93 00193 01.1	JACOBS SOUTHWESTDIV	FINAL RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) FACILITIY ASSESSMENT RPT MCAS EL TORO VOLUME IV (DRAFT PRELIM. REVIEW/VSI RPT VOLUME II)	ADMIN RECORD INFO REPOSITORY	RFA RCRA SI EE/CA(*) NFA	4,7,11,13, 14,19,20	SOUTHWEST DIVISION MCAS EL TORO
M60050 RPT N6871189D9296	000091 11/01/93 07/16/93 00193 01.1	JACOBS SOUTHWESTDIV	FINAL RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) FACILITIY ASSESSMENT RPT MCAS EL TORO VOLUME V (FINAL SAMPLING VISIT WORK PLAN 03/10/92)	ADMIN RECORD INFO REPOSITORY	RFA RCRA UST SAP EE/CA(*) NFA	4,7,11,13, 14,19,20	SOUTHWEST DIVISION MCAS EL TORO

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MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO.	PRC.DATE / DOC.DATE / CTO.NO.. / EPA.CAT#	FROM..... / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 RPT N6871191D4658 0350	000663	04/05/95 08/02/93 DO 02 01.1	SAIC SOUTHWEST DIVISION	FINAL REPORT AERIAL PHOTOGRAPH ASSESSMENT MCAS EL TORO	ADMIN RECORD	TECH/GUID DOC. NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000 0006	001097	12/22/95 08/09/93 00000 01.6	OCWD FOUNTAIN VALLEY R.L. HERNDON SOUTHWEST DIVISION A. PISZKIN	COMMENTS TO MCAS EL TORO DRAFT RI TECHNICAL MEMORANDUM AND REQUEST FOR DIGITAL RI DATA	ADMIN RECORD	COMMENTS TECH MEMO DATA NFA	OU1	SOUTHWEST DIVISION
M60050 MEMO 000000000000000 0002	001530	07/10/93 08/12/93 00000 10.1	DTSC REGION IV J. ZARNOCH SOUTHWEST DIVISION	DTSC COMMENTS ON PHASE I REMEDIAL INVESTIGATION (RI) DRAFT TECHNICAL MEMORANDUM, DATA QUALITY OBJECTIVES INSTALLATION RESTORATION PROGRAM, MCAS EL TORO	ADMIN RECORD	COMMENTS TECH MEMO RI NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 MEMO N6871189D9296 0025	000849	07/18/95 08/20/93 00145 03.4	DTSC LONG BEACH J. ZARNOCH MCAS EL TORO L. SERAFINI	DRAFT AGENCY COMMENTS DRAFT TECHNICAL MEMORANDUM I-IV PHASE I RI	ADMIN RECORD	COMMENTS RI NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 MEMO 000000000000000 0003	001531	07/10/93 08/23/93 00000 10.1	OFF. OF SCI. AFFAIRS J. CHRISTOPHER DTSC REGION IV J. ZARNOCH	STATE OF CALIFORNIA, OFFICE OF SCIENTIFIC AFFAIRS COMMENTS ON POSITION PAPERS RELATED TO DATA QUALITY OBJECTIVES FOR THE PHASE II RI/FS	ADMIN RECORD	COMMENTS DQO RI NFA	OU2,OU3,1, 2,3,4,5,6, 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000 0014	001164	12/26/95 08/26/93 00000 01.1	EPA SAN FRANCISCO J. HAMILL SOUTHWEST DIVISION A. PISZKIN	COMMENTS ON POSITION PAPERS OF AUGUEST 6, 11, & 12, 1993 FOR DRAFT PHASE II WORK PLAN FOR OUs 2 & 3	ADMIN RECORD	COMMENTS NFA	OU2,OU3	SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000	000147	11/01/93 08/27/93 00000 01.6	J. J. ZARNOCH DEPT TOXIC SUB L. SERAFINI MCAS EL TORO	PART I COMMENTS MCAS EL TORO INSTALLATION RESTORATION PROGRAM PHASE I REMEDIAL INVESTIGATION,DRAFT TECHNICAL MEMORANDUM	ADMIN RECORD	RI IRP NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000 0005	001154	12/26/95 08/27/93 00000 01.1	DTSC LONG BEACH J.J. ZARNOCH SOUTHWEST DIVISION A. PISZKIN	COMMENTS ON THE DATA QUALITY OBJECTIVES POSITION PAPER	ADMIN RECORD	COMMENTS DQOP NFA	OU1	SOUTHWEST DIVISION MCAS EL TORO
M60050 MEMO N6871189D9296 0012	000848	07/18/95 08/31/93 00145 03.4	DTSC LONG BEACH J. ZARNOCH MCAS EL TORO L. SERAFINI	COMMENTS ON THE DRAFT TECHNICAL MEMORANDUM VOLUME I-IV PHASE I RI	ADMIN RECORD	COMMENTS RI NFA		SOUTHWEST DIVISION MCAS EL TORO

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MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. DOC.NO. DOCUMENT.TYPE... CONTR/GUID..NO.. APPROX.#.OF.PAGES	PRC.DATE DOC.DATE CTO.NO.. EPA.CAT#	FROM..... FROM.SIGNATURE..... TO..... TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 000847 MEMO N6871189D9296 0011	07/18/95 09/01/93 00145 03.4	DTSC LONG BEACH J. ZARNOCH MCAS EL TORO L. SERAFINI	COMMENTS ON THE DRAFT TECHNICAL MEMORANDUM VOLUME I-IV PHASE I RI	ADMIN RECORD	COMMENTS RI NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 000846 MEMO N6871189D9296 0014	07/17/95 09/13/93 00145 03.4	DTSC J. ZARNOCH SOUTHWEST DIVISION	DTSC COMMENTS DRAFT TECHNICAL MEMO VOLUME I-IV PHASE I RI	ADMIN RECORD	TECH MEMO NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 000695 RPT N6871191D4658 0300	04/05/95 10/25/93 DO 02 01.1	SAIC SOUTHWEST DIVISION	FINAL REPORT AERIAL PHOTOGRAPH ASSESSMENT MCAS EL TORO	ADMIN RECORD	EE/CA(*) TECH/GUID DOC. NFA	4,7,11,13, 14,19,20	SOUTHWEST DIVISION MCAS EL TORO
M60050 001026 MM N6871189D9296 0019	12/08/95 11/01/93 00145 01.6	JACOBS ENGINEERING J. DOLEGOWSKI SOUTHWEST DIVISION	DQO MEETING MINUTES WITH REGULATORY AGENCIES	ADMIN RECORD	MTG MINS DQOP TECH/GUID DOC. NFA	OU1,18 24,12 OU2,OU2A OU3 1,2,3,4,5, 6,7,8,9,10 11,13,14, 15,16,17, 18,19,20, 21,22,25	SOUTHWEST DIVISION
M60050 001157 LTR 000000000000000 0003	12/26/95 11/01/93 00000 01.1	EPA SAN FRANCISCO J.A. HAMILL SOUTHWEST DIVISION A. PISZKIN	REQUEST FOR REMOVAL ACTION AT AGUA CHINON WASH, AND FOR TIMELY SOIL GAS SURVEY	ADMIN RECORD	RA TECH/GUID DOC. NFA	OU1	SOUTHWEST DIVISION MCAS EL TORO
M60050 001735 LTR 000000000000000 0001	03/04/97 11/08/93 00000 01.6	MCAS EL TORO J.P. CHESSUM EPA SAN FRANCISCO J. HAMILL	DRAFT SAMPLING AND ANALYSIS PLAN, WORK PLAN, QUALITY ASSURANCE PROJECT PLAN, AND HEALTH AND SAFETY PLAN FOR PHASE II OF THE RI SENT FOR REVIEW & COMMENTS W/O ENCL	ADMIN RECORD INFO REPOSITORY	SAP WORK PLAN QAPP H&SP RI TECH/GUID DOC. NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 000703 PLAN N6871189D9296 0200	04/05/95 11/09/93 00145 03.1	JACOBS ENGINEERING M. BITNER SOUTHWEST DIVISION	SAP DRAFT PHASE II RI/FS IRP FOR MCAS EL TORO	ADMIN RECORD	SAP EE/CA(*) NFA	4,7,11,13, 14,19,20	SOUTHWEST DIVISION MCAS EL TORO
M60050 000714 PLAN N6871189D9296 0200	04/05/95 11/09/93 00145 03.3	JACOBS ENGINEERING M. BITNER SOUTHWEST DIVISION	PHASE II RI/FS DRAFT WORK PLAN MCAS EL TORO VOLUME I, II, III APPENDIX A DATA QUALITY OBJECTIVES SITES 12 THRU 25	ADMIN RECORD	RI FS EE/CA(*) TECH/GUID DOC. NFA	4,7,11,13, 14,19,20	SOUTHWEST DIVISION MCAS EL TORO

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MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. DOC.NO. DOCUMENT.TYPE... CONTR/GUID..NO.. APPROX.#.OF.PAGES	PRC.DATE DOC.DATE CTO.NO.. EPA.CAT#	FROM..... FROM.SIGNATURE..... TO..... TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 001074 PLAN N6871189D9296 0550	12/14/95 11/09/93 00145 04.2	JACOBS ENGINEERING M. BITNER SOUTHWEST DIVISION	PHASE II RI/FS DRAFT QUALITY ASSURANCE PROJECT PLAN DRAFT WORK PLAN (VOLUME II) APPENDIX A DQO SITES 1 THROUGH 11	ADMIN RECORD	DQOP NFA	1,2,3,4,5 6,7,8,9,10 11, OU2 OU2B,OU2C OU3	SOUTHWEST DIVISION
M60050 000651 LTR 000000000000000 0053	01/27/95 12/17/93 00059 03.3	EPA SAN FRANCISCO J. HAMILL SOUTHWEST DIVISION A. PISZKIN	COMMENTS FROM THE EPA ON THE THE WORK PLAN AND DATA QUALITY OBJECTIVES APPENDICES PHASE II REMEDIAL INVESTIGATION MCAS EL TORO	ADMIN RECORD	COMMENTS EE/CA(*) NFA	4,7,11,13, 14,19,20	SOUTHWEST DIVISION MCAS EL TORO
M60050 000652 LTR 000000000000000 0075	01/27/95 12/17/93 00059 03.3	DTSC LONG BEACH J.J. ZARNOCH SOUTHWEST DIVISION A. PISZKIN	COMMENTS FROM THE CALIFORNIA DTSC ON THE WORK PLAN AND DATA QUALITY OBJECTIVIES APPENDICES PHASE II REMEDIAL INVESTIGATION MCAS EL TORO	ADMIN RECORD	COMMENTS EE/CA(*) NFA	4,7,11,13, 14,19,20	SOUTHWEST DIVISION MCAS EL TORO
M60050 001116 LTR 000000000000000 0099	12/22/95 12/17/93 00000 01.6	DTSC LONG BEACH J.J. ZARNOCH SOUTHWEST DIVISION A. PISZKIN	COMMENTS ON THE MCAS EL TOR IRP PHASE II RI/FS DRAFT WORK PLAN	ADMIN RECORD	COMMENTS IRP NFA	OU1	SOUTHWEST DIVISION
M60050 001534 LTR 000000000000000 0023	07/10/93 12/17/93 00000 10.1	US EPA REGION IX J. HAMILL SOUTHWEST DIVISION A. PISZKIN	US ENVIRONMENTAL PROTECTION AGENCY'S COMMENTS ON MCAS EL TORO INSTALLATION RESTORATION PROGRAM PHASE II RI/FS STUDY DRAFT WORK PLAN	ADMIN RECORD	COMMENTS RI FS NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 000841 MEMO N6871189D9296 0012	07/17/95 03/10/94 00145 03.4	CH2M HILL J. DOLEGOWSKI SOUTHWEST DIVISION	RI CONCEPTUAL APPROACH AND RESPONSE TO COMMENTS SOIL GAS SURVEY FOR SITES 24 & 25	ADMIN RECORD INFO REPOSITORY	RI TECH/GUID DOC. NFA	24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 000954 PLAN N6871189D9296 1500	08/17/95 03/21/94 00284 01.1	JACOBS ENGINEERING SOUTHWEST DIVISION	BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP PLAN FOR MCAS EL TORO	ADMIN RECORD	BRAC EE/CA(*) NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 000691 PLAN N6871189D9296 0250	04/05/95 04/18/94 00145 03.3	JACOBS ENGINEERING M. BITNER SOUTHWEST DIVISION	DRAFT SOIL GAS SURVEY WORK PLAN RI/FS IRP SITES 24 & 25 MCAS EL TORO	ADMIN RECORD	RI FS TECH/GUID DOC. NFA	24,25	SOUTHWEST DIVISION
M60050 000782 PLAN N6871189D9296 0250	07/07/95 05/16/94 00145 01.2	JACOBS ENGINEERING J. DOLEGOWSKI SOUTHWEST DIVISION	FINAL SOIL GAS SURVEY WORK PLAN SITES 24 & 25 REVISION 0	ADMIN RECORD INFO REPOSITORY	TECH/GUID DOC. NFA	24,25	SOUTHWEST DIVISION MCAS EL TORO

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These bibliographic citations are considered to be part of this AR but may not be cited separately in the index.

MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. DOC.NO. DOCUMENT.TYPE... CONTR/GUID..NO.. APPROX.#.OF.PAGES	PRC.DATE DOC.DATE CTO.NO.. EPA.CAT#	FROM..... FROM.SIGNATURE..... TO..... TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 000709 RPT N6871189D9296 0350	04/05/95 05/19/94 00145 03.4	JACOBS ENGINEERING M. BITNER SOUTHWEST DIVISION	RI REPORT DRAFT OU 1 RI/FS MCAS EL TORO	ADMIN RECORD INFO REPOSITORY	RI TECH/GUID DOC. NFA	OU1	SOUTHWEST DIVISION MCAS EL TORO
M60050 000983 MEMO N6871189D9296 0015	10/04/95 06/27/94 00145 01.6	JACOBS ENGINEERING SOUTHWEST DIVISION	TECHNICAL EXHANGE MEETING	ADMIN RECORD INFO REPOSITORY	MTG MINS EE/CA(*) TECH/GUID DOC. NFA	4,7,11,13, 14,19,20	SOUTHWEST DIVISION MCAS EL TORO
M60050 001034 MM N6871189D9296 0020	12/08/95 06/28/94 00284 01.6	JACOBS ENGINEERING M. ARENDS SOUTHWEST DIVISION R. GREEN	INTERVIEW WITH ACTIVE AND RETIRED PERSONNEL FROM MCAS EL TORO REGARDING PROCEDURES FOR STORAGE AND DISPOSAL OF HAZARDOUS MATERIALS AND WASTE	ADMIN RECORD	DISPOSAL AM EL TORO TECH/GUID DOC. NFA	5,2,17,3,4 13,10,9,8, 12,1,3,5,7 11,14,15, 16,19,21, 22, OU1,OU2 OU2A,OU2B OU2C,OU3	SOUTHWEST DIVISION
M60050 000647 RPT N6871189D9296 0200	07/19/94 07/01/94 00145 03.0	SOUTHWEST DIVISION JACOBS ENG. MCAS EL TORO	INSTALLATION RESTORATION PROGRAM REMEDIAL INVESTIGATION/FEASIBILITY STUDY DRAFT OPERABLE UNIT I REMEDIAL INVESTIGATION REPORT.	ADMIN RECORD	RI FS OU TECH/GUID DOC. NFA	OU1	SOUTHWEST DIVISION MCAS EL TORO
M60050 000979 GUID 000000000000000 0020	10/03/95 07/06/94 00000 11.6	SOUTHWEST DIVISION	ENGINEERING EVALUATION/COST ANALYSIS (EE/CA) OUTLINE FOR NON-TIME-CRITICAL REMOVAL ACTION	ADMIN RECORD	EE\CA RA EE/CA(*) NFA	4,7,11,13, 14,19,20	SOUTHWEST DIVISION MCAS EL TORO
M60050 001302 LTR 000000000000000 0001	03/14/96 07/12/94 00059 02.7	BECHTEL NATIONAL INC T. LATAS BECHTEL NATIONAL INC D. COSWER	20 JUNE 1994 MEETING MINUTES FOR MEETING TO DISCUSS RESULTS FOR ROUND I SOIL GAS SURVEY SAMPLING AT SITES 24 AND 25	ADMIN RECORD	MTG MINS NFA	24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001303 MISC 000000000000000 0003	03/14/96 07/13/94 00059 02.7	BECHTEL NATIONAL INC T. LATAS BECHTEL NATIONAL INC D. COWSER	MEETING MINUTES FOR THE 7 JULY 1994 MEETING TO DISCUSS SOIL GAS SURVEY RESULTS FOR SITES 24 AND 25	ADMIN RECORD	MTG MINS NFA	24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 000871 MM N6871189D9296 0007	07/18/95 07/15/94 00145 11.5	JACOBS ENGINEERING J. DOLEGOWSKI SOUTHWEST DIVISION	SOIL GAS SURVEY MEETING MINUTES	ADMIN RECORD	MTG MINS NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 000875 MM N6871189D9296 0004	07/18/95 07/28/94 00145 11.5	JACOBS ENGINEERING SOUTHWEST DIVISION	20 JUNE 1994 SOIL GAS INVESTIGATION MEETING	ADMIN RECORD	MTG MINS NFA		SOUTHWEST DIVISION MCAS EL TORO

This Administrative Record (AR) Index includes references to documents which cite bibliography sources.
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UIC No. DOC.NO. DOCUMENT.TYPE... CONTR/GUID..NO.. APPROX.#.OF.PAGES	PRC.DATE DOC.DATE CTO.NO.. EPA.CAT#	FROM..... FROM.SIGNATURE..... TO..... TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 001541 MEMO 000000000000000 0022	07/10/96 08/19/94 00059 03.0	KLEINFELDER T. LATAS BECHTEL NATIONAL INC D. COWSER	MEETING MINUTES FROM THE PROGRESS MEETING TO DISCUSS OVERALL APPROACH AND SAMPLING STRATEGIES FOR THE RI/FS WORK PLANS FOR OU-2, OU-3, AND VOC SOURCE AREA (24,25)	ADMIN RECORD	MTG MINS RI FS VOC OU NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13, 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001829 LTR 00000000000000 0001	03/24/97 08/31/94 00000 01.6	MCAS EL TORO W. LEE EPA SAN FRANCISCO B. ARTHUR	TRANSMITTAL OF DRAFT SOIL GAS SURVEY TECHNICAL MEMO W/O ENCL.	ADMIN RECORD INFO REPOSITORY	SOIL TECH MEMO NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 000780 RPT 000000000000000 0009	07/07/95 09/23/94 00000 01.2	DTSC S. BEARD	GOV'T COMMENTS ON "DRAFT SOIL GAS SURVEY TECHNICAL MEMORANDUM"	ADMIN RECORD	TECH MEMO NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 000726 LTR 000000000000000 0006	06/15/95 09/26/94 00000 01.6	EPA SAN FRANCISCO B. ARTHUR MCAS EL TORO W.D. LEE	COMMENTS ON THE DRAFT SOIL GAS SURVEY TECHNICAL MEMORANDUM SITES 24 & 25	ADMIN RECORD	COMMENTS TECH MEMO NFA	24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 000724 LTR 000000000000000 0014	06/15/95 09/29/94 00000 01.6	DTSC LONG BEACH J.M. JIMENEZ MCAS EL TORO W.D. LEE	COMMENTS ON THE DRAFT SOIL GAS SURVEY TECHNICAL MEMORANDUM STIES 24 & 25	ADMIN RECORD	COMMENTS TECH MEMO NFA	24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 000840 MEMO N6871189D9296 0002	07/17/95 09/29/94 00145 03.4	CRWQCB SANTA ANA L. VITLE SOUTHWEST DIVISION	GOVERNMENT (AGENCY) COMMENTS DRAFT SOIL GAS SURVEY - TECHNICAL MEMORANDUM SITES 24 & 25	ADMIN RECORD	COMMENTS NFA	24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001191 DATA N6871189D9296 1200	01/22/96 09/30/94 00145 01.1	JACOBS ENGINEERING SOUTHWEST DIVISION	GROUNDWATER QUALITY DATA REPORT IRP RI/FS	ADMIN RECORD	GW RI DATA NFA	1,2,3,4,5, 6,7,8,9,10 11,12,13, 14,15,16, 17,18,19, 20,21,22, OU1,OU2, OU2A,OU2B, OU2C,OU3	SOUTHWEST DIVISION
M60050 000968 LTR N6871192D4658 0007	08/29/95 10/04/94 DO 03 01.1	SAIC J.A. CLARKE SOUTHWEST DIVISION L. HORNECKER	REVISED DRAFTS OF THE OIL & HAZARDOUS SUBSTANCES SPILL PREVENTION, CONTROL AND COUNTERMEASURE PLAN AND SPILL CONTINGENCY PLAN, MCAS TUSTIN AND EL TORO	ADMIN RECORD	SPCC NFA		SOUTHWEST DIVISION MCAS EL TORO

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MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO.	PRC.DATE / DOC.DATE / CTO.NO.. / EPA.CAT#	FROM..... / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 MISC 000000000000000 0030	001291	03/13/96 10/12/94 00059 03.6	BECHTEL NATIONAL INC T. LATAS BECHTEL NATIONAL INC D. COMSER	MEETING MINUTES FOR THE 12-13 OCTOBER PROGRES MEETING PHASE II RI/FS WORKPLANS DISCUSSED APPROACHES FOR RI/FS ACTIVITIES, FIELD SAMPLING PLAN AND QAPP,	ADMIN RECORD	RI FS MTG MINS NFA	1,2,3,4,5 6,7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0011	001277	03/13/96 10/24/94 00059 03.6	BECHTEL NATIONAL INC SOUTHWEST DIVISION	PROGRESS MEETING MINUTES FOR PHASE II REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORK PLAN	ADMIN RECORD	RI FS MTG MINS NFA	1,2,3,4,5 6,7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 RPT N6871192D4670 0002	001268	02/09/96 11/15/94 00059 02.4	BECHTEL NATIONAL INC J. KLEUSENER SOUTHWEST DIVISION J. ASHMAN	SUBMITTAL OF DRAFT RISK ASSESSMENT WORK PLAN FOR THE PHASE II RI/FS	ADMIN RECORD	RI FS NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000 0006	001307	03/14/96 12/20/94 00059 03.6	DTSC REGION IV J. JIMENEZ MCAS EL TORO W. LEE	DTSC'S REVIEW COMMENTS ON THE HEALTH AND SAFETY PLAN PORTION OF THE PHASE II REMEDIAL INVESTIGATION WORK PLAN	ADMIN RECORD	H&SP RI FS COMMENTS NFA	1,2,3,4,5 6,7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 RPT N6871192D4670 0037	001215	01/30/96 01/01/95 00059 02.5	BECHTEL NATIONAL INC SOUTHWEST DIVISION	DRAFT ACTION MEMORANDUM NON-TIME CRITICAL REMOVAL ACTION FOR UNIT 2 OF SITE 19 - AIRCRAFT EXPEDITIONARY	ADMIN RECORD	ACTMEMO NON TCRA NFA	OU3,19,1,4 6,7,8,9,10 11,12,13 14,15,16 19,20,21 22	SOUTHWEST DIVISION
M60050 MISC 000000000000000 0004	001285	03/13/96 01/24/95 00059 08.3	US EPA REGION IX B. ARTHUR MCAS EL TORO W. LEE	US EPA COMMENTS TO DRAFT RISK ASSESSMENT PLAN	ADMIN RECORD	COMMENTS RISK NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 MEMO 000000000000000 0001	001548	07/10/96 01/27/95 00000 10.1	RWQCB L. VITALE DTSC REGION IV J. JIMENEZ	MEMO FROM RWQCB TO DTSC APPROVING INSTALLATION RESTORATION PROGRAM FINAL CONFIRMATION SAMPLING AND ANALYSIS PLAN	ADMIN RECORD	SAP NFA		SOUTHWEST DIVISION MCAS EL TORO

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These bibliographic citations are considered to be part of this AR but may not be cited separately in the index.

MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO.	PRC.DATE / DOC.DATE / CTO.NO.. / EPA.CAT#	FROM..... / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 RPT N6871192D4670 0200	000715	04/06/95 02/01/95 00059 03.0	BECHTEL NATIONAL T.W. LATAS SOUTHWEST DIVISION	DRAFT QUALITY ASSURANCE PROJECT PLAN PHASE II RI/FS	ADMIN RECORD	QA RI FS NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 PLAN N6871192D4670 0065	000835	07/17/95 02/01/95 00059 03.4	BECHTEL NATIONAL J.M. GILBERT SOUTHWEST DIVISION	DRAFT QUALITY ASSURANCE PROJECT PLAN PHASE II RI/FS	ADMIN RECORD	QA RI FS NFA		SOUTHWEST DIVISION
M60050 MEMO 000000000000000 0010	001549	07/10/96 02/01/95 00000 10.1	DTSC J. CHRISTOPHER DTSC REGION IV J. JIMENEZ	DTSC'S OFFICE OF SCIENTIFIC AFFAIRS COMMENTS ON RISK ASSESSMENT WORK PLAN DATED NOVEMBER 1994	ADMIN RECORD	RISK NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000 0010	001797	03/20/97 02/07/95 00000 10.1	DTSC LONG BEACH J. JIMENEZ MCAS EL TORO W. LEE	REVIEW OF RISK ASSESSMENT WORK PLAN, NOVEMBER 1994	ADMIN RECORD INFO REPOSITORY	COMMENTS RISK WORK PLAN NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 PLAN N6871192D4670 0034	001184	01/22/96 03/01/95 00059 03.3	BECHTEL NATIONAL INC T.W. LATAS SOUTHWEST DIVISION	FINAL DATA MANAGEMENT PLAN PHASE II RI/FS	ADMIN RECORD INFO REPOSITORY	DMP RI FS TECH/GUID DOC. NFA	OU1	SOUTHWEST DIVISION MCAS EL TORO
M60050 PLAN N6871192D4670 1200	001190	01/22/96 03/01/95 00059 03.3	BECHTEL NATIONAL INC T.W. LATAS SOUTHWEST DIVISION	REVISED DRAFT WORK PLAN PHASE II RI/FS	ADMIN RECORD	RI FS TECH/GUID DOC. NFA	OU1 OU2,OU3,	SOUTHWEST DIVISION
M60050 RPT N6871192D4670 0200	001234	01/31/96 03/01/95 00059 03.2	BECHTEL NATIONAL INC T. LATAS SOUTHWEST DIVISION	DRAFT FIELD SAMPLING PLAN PHASE II RI/FS	ADMIN RECORD	RI FS TECH/GUID DOC. NFA	OU1,OU2 OU3,1,2,3, 4,5,6,7,8 9,10,11,12 13,14,15 16,17,18 19,20,21 22,23,24 25	SOUTHWEST DIVISION
M60050 RPT N6871192D4670 0002	001261	02/09/96 03/01/95 00059 02.7	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION J. ASHMAN	SUBMITTAL OF DRAFT QUALITY ASSURANCE PROJECT PLAN FOR THE PHASE II RI/FS	ADMIN RECORD INFO REPOSITORY	RI FS TECH/GUID DOC. NFA	OU2,OU3,1 2,3,4,5,6, 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO

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MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. DOC.NO. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	PRC.DATE / DOC.DATE / CTO.NO.. / EPA.CAT#	FROM..... / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 000917 PLAN N6871189D9296 0750	07/20/95 03/03/95 00284 01.1	JACOBS ENGINEERING B. ARTHUR SOUTHWEST DIVISION J. JOYCE	BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP PLAN	ADMIN RECORD	BRAC EE/CA(*) NFA	OU1,OU2, OU2A,24,25 OU2B,OU2C, OU3,1,6,7, 8,9,10,11, 12,14,15, 16,19,20, 21,22,OU3B 4,13,2,17, 3,5	SOUTHWEST DIVISION MCAS EL TORO
M60050 001173 LTR 000000000000000 0006	12/26/95 03/08/95 00000 01.1	BECHTEL NATIONAL INC D.K. COWSER SOUTHWEST DIVISION A. PISZKIN	FEBRUARY 21, 1995 MEETING MINUTES ON THE REVIEW OF THE DRAFT HEALTH AND ECOLOGICAL RISK ASSESSMENT WORK PLAN	ADMIN RECORD	MTG MINS NFA	OU 2 OU 3	SOUTHWEST DIVISION MCAS EL TORO
M60050 001260 MISC N6871192D4670 0005	02/09/96 03/08/95 00059 08.3	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION A. PISZKIN	REVIEW OF DRAFT HEALTH AND ECOLOGICAL RISK ASSESSMENT WORK PLAN	ADMIN RECORD	PRG NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 000653 PLAN N6871192D4670 1500	03/27/95 03/17/95 00059 03.3	BECHTEL NATIONAL INC T.W. LATAS SOUTHWEST DIVISION	REVISED DRAFT WORK PLAN PHASE II RI/FS MCAS EL TORO	ADMIN RECORD INFO REPOSITORY	RI FS TECH/GUID DOC. NFA	OU2,OU3	SOUTHWEST DIVISION MCAS EL TORO
M60050 001257 LTR N6871192D4670 0005	02/09/96 03/31/95 00059 02.1	BECHTEL NATIONAL INC J. KLEUSENER SOUTHWEST DIVISION J. ASHMAN	DRAFT FIELD SAMPLING PLAN FOR THE PHASE II RI/FS	ADMIN RECORD	RI FS NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001258 RPT N6871192D4670 0003	02/09/96 03/31/95 00059 03.5	BECHTEL NATIONAL INC J. KLEUSENER SOUTHWEST DIVISION J. ASHMAN	FINAL HEALTH AND SAFETY SUPPLEMENT PHASE II RI/FS AND RESPONSE TO COMMENTS ON HEALTH AND SAFETY SUPPLEMENT	ADMIN RECORD INFO REPOSITORY	H&SP COMMENTS TECH/GUID DOC. NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001282 MISC 000000000000000 0025	03/13/96 03/31/95 00059 03.6	BECHTEL NATIONAL INC T. LATAS REGULATOR AGENCIES VARIOUS	RESPONSE TO REGULATORY AGENCY (DTSC, RWQCB, USEPA) COMMENTS ON REVISED DRAFT WORK PLAN PHASE II RI/FS	ADMIN RECORD	RI FS COMMENTS NFA	1,2,3,4,5 6,7,8,9,10 11,12,13, 14,15,16 17,19,20, 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO

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These bibliographic citations are considered to be part of this AR but may not be cited separately in the index.

MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO. / DOC.DATE / CTO.NO.. / EPA.CAT#	PRC.DATE / FROM.SIGNATURE..... / TO.SIGNATURE.....	FROM..... / TO.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 PLAN N6871192D4670 0020	001679 10/01/96 04/06/95 00075 03.3		BNI SAN DIEGO C. CARLISLE SOUTHWEST DIVISION	FINAL DATA MANAGEMENT PLAN	ADMIN RECORD INFO REPOSITORY	DATA QA QC TECH/GUID DOC. NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR N6871192D467000 0005	001562 07/10/96 05/01/95 00080 10.1		BECHTEL NATIONAL INC D. TEDALDI SOUTHWEST DIVISION J. JOYCE	BNI'S TECHNICAL REVIEW COMMENTS ON THE QUALITY ASSURANCE PROJECT PLAN (DRAFT) PHASE II REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)	ADMIN RECORD	QAPP COMMENTS NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0045	001367 03/19/96 05/02/95 00059 02.7		BECHTEL NATIONAL INC P. WEIGAND VARIOUS	COPY OF MEETING HANDOUT "RECOMMENDED NO FURTHER ACTION AND REMOVAL ACTION OU-3 SITES", PHASE II RI/FS	ADMIN RECORD	RI FS OU NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10, 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC N6871192D4670 0012	001254 02/09/96 05/03/95 00059 02.7		BECHTEL NATIONAL INC J. KLEUSENER SOUTHWEST DIVISION J. ASHMAN	APRIL 25, 1995 MEETING MINUTES FOR CTO-0059	ADMIN RECORD	MTG MINS RI FS NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000 0011	000931 08/07/95 05/05/95 00000 01.6		EPA SAN FRANCISCO B. ARTHUR SOUTHWEST DIVISION J. JOYCE	COMMENTS ON THE DRAFT QUALITY ASSURANCE PROJECT PLAN PHASE II RI/FS	ADMIN RECORD	COMMENTS QA NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR N6871192D4670 0012	001256 02/09/96 05/05/95 00059 10.2		BECHTEL NATIONAL INC J. KLEUSENER SOUTHWEST DIVISION J. ASHMAN	RESPONSE TO REGULATORY AGENCY COMMENTS TO THE DRAFT DATA MANAGEMENT PLAN PHASE II RI/FS	ADMIN RECORD	RI FS COMMENTS NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0018	001677 10/01/96 05/05/95 00059 10.1		BNI SAN DIEGO L. HANUSIAK USEPA B. ARTHUR	RESPONSE TO COMMENTS DRAFT QAPP	ADMIN RECORD INFO REPOSITORY	COMMENTS QAPP NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000 0001	001564 07/11/96 05/16/95 00000 01.1		US EPA REGION IX B. ARTHUR MCAS EL TORO J. JOYCE	EPA COMMENTS ON THE FINAL DATA MANAGEMENT PLAN DATED MARCH 1995	ADMIN RECORD	DMP COMMENTS NFA		SOUTHWEST DIVISION MCAS EL TORO

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These bibliographic citations are considered to be part of this AR but may not be cited separately in the index.

MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. DOC.NO. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	PRC.DATE / DOC.DATE / CTO.NO.. / EPA.CAT#	FROM..... / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 001259 RPT N6871192D4670 0003	02/09/96 05/17/95 00059 02.0	BECHTEL NATIONAL INC J. KLEUSENER SOUTHWEST DIVISION J. ASHMAN	REVISED DRAFT WORK PLAN FOR THESE PHASE II RI/FS	ADMIN RECORD	RI FS NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001403 LTR N6871192D4670 0020	03/20/96 05/17/95 00080 03.6	BECHTEL NATIONAL INC D. TEDALDI DTSC REGION IV J. JIMENEZ	BECHTEL TECHNICAL REVIEW COMMENTS ON DRAFT WORK PLAN AND FIELD SAMPLING PLAN FOR PHASE II RI/FS	ADMIN RECORD	RI FS COMMENTS NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20, 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001375 LTR N6871192D4670 0009	03/19/96 05/22/95 00080 03.3	BECHTEL NATIONAL INC D. TEDALDI RWQCB REGION IX L. VITALE	BECHTEL'S TECHNICAL REVIEW COMMENTS ON DRAFT WORK PLAN AND FIELD SAMPLING PLAN FOR PHASE II RI/FS	ADMIN RECORD	FS COMMENTS RI NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001376 LTR N6871192D4670 0009	03/19/96 05/22/95 00080 03.3	BECHTEL NATIONAL INC D. TEDALDI US EPA REGION IX B. ARTHUR	BECHTEL'S TECHNICAL REVIEW COMMENTS ON DRAFT WORK PLAN AND FIELD SAMPLING PLAN FOR PHASE II RI/FS	ADMIN RECORD	COMMENTS SAP NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001565 MEMO 000000000000000 0008	07/11/96 05/22/95 00000 10.1	RWQCB DTSC REGION IV J. JIMENEZ	REGIONAL WATER QUALITY CONTROL BOARD (RWQCB) COMMENTS ON THE PHASE II DRAFT REMEDIAL INVESTIGATION WORK PLAN	ADMIN RECORD	COMMENTS RI NFA	OU2,OU3,1 2,3,4,5,6, 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001292 LTR 000000000000000 0000	03/13/96 05/23/95 00059 03.3	DTSC REGION IV J. JIMENEZ MCAS EL TORO J. JOYCE	DTSC'S REVIEW COMMENTS ON THE REVISED DRAFT WORK PLAN PHASE II RI/FS WORKPLAN	ADMIN RECORD	COMMENTS RI FS NFA	1,2,3,4,5 6,7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 29	SOUTHWEST DIVISION MCAS EL TORO

This Administrative Record (AR) Index includes references to documents which cite bibliography sources.
These bibliographic citations are considered to be part of this AR but may not be cited separately in the index.

MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. DOC.NO. DOCUMENT.TYPE... CONTR/GUID..NO.. APPROX.#.OF.PAGES	PRC.DATE DOC.DATE CTO.NO.. EPA.CAT#	FROM..... FROM.SIGNATURE..... TO..... TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 000945 LTR 000000000000000 0042	08/07/95 05/24/95 00000 03.6	EPA SAN FRANCISCO B. ARTHUR SOUTHWEST DIVISION J. JOYCE	COMMENTS ON THE REVISED DRAFT WORK PLAN PHASE II RI/ FS STUDY AND DRAFT FIELD SAMPLING PLAN PHASE II RI/FS	ADMIN RECORD	COMMENTS NFA	2,3,5,17, 13,24,4,7 8,9,10,11, 12,22,23	SOUTHWEST DIVISION MCAS EL TORO
M60050 001293 LTR 000000000000000 0018	03/13/96 05/24/95 00059 03.3	US EPA REGION IX B. ARTHUR MCAS EL TORO J. JOYCE	US EPA EVIEW COMMENTS ON THE REVISED DRAFT WORK PLAN PHASE II RI/FS WORKPLAN AND DRAFT FIELD SAMPLING PLAN	ADMIN RECORD	COMMENTS RI FS NFA	1,2,3,4,5 6,7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 000946 LTR 000000000000000 0032	08/07/95 05/25/95 00000 03.6	DTSC LONG BEACH J.M. JIMENEZ SOUTHWEST DIVISION J. JOYCE	REVIEW COMMENTS ON THE REVISED DRAFT WORK PLAN PHASE II RI/FS WORK PLAN	ADMIN RECORD	COMMENTS NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 000940 LTR 000000000000000 0007	08/07/95 06/20/95 00000 03.6	DTSC SACRAMENTO J.M. JIMENEZ SOUTHWEST DIVISION J. JOYCE	REVIEW COMMENTS ON THE REVISED FIELD SAMPLING PLAN PHASE II RI/FS	ADMIN RECORD	COMMENTS RI FS NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 001194 PLAN N6871192D4670 1800	01/22/96 07/01/95 00059 03.3	BECHTEL NATIONAL INC T.W. LATAS SOUTHWEST DIVISION	FINAL WORK PLAN PHASE II RI/FS	ADMIN RECORD	RI FS TECH/GUID DOC. NFA	OU1,OU2, OU2A,OU2B OU2C,OU3 1,2,3,4,5, 6,7,8,9,10 11,12,13, 14,15,16, 17,19,20, 21,22,24 25	SOUTHWEST DIVISION
M60050 001233 RPT N6871192D4670 0200	01/31/96 07/01/95 00059 03.3	BECHTEL NATIONAL INC T. LATAS SOUTHWEST DIVISION	FINAL WORK PLAN PHASE II RI/FS	ADMIN RECORD	RI FS TECH/GUID DOC. NFA	OU2A,OU2B OU3 1,2,4,6,7 8,9,10,11 12,13,14, 16,17,19 20,21,22 24,25	SOUTHWEST DIVISION
M60050 001670 PLAN N6871192D4670 0050	09/30/96 07/13/95 00059 04.4	BNI SAN DIEGO T. LATAS SOUTHWEST DIVISION	FINAL INVESTIGATION-DERIVED WASTE MANAGEMENT PLAN	ADMIN RECORD INFO REPOSITORY	INVESTIGATION TECH/GUID DOC. NFA	IDWMP	SOUTHWEST DIVISION MCAS EL TORO
M60050 001193 PLAN N6871192D4670 1500	01/22/96 08/01/95 00059 03.3	BECHTEL NATIONAL INC T.W. LATAS SOUTHWEST DIVISION	FINAL FIELD SAMPLING PLAN PHASE II RI/FS	ADMIN RECORD	RI FS TECH/GUID DOC. NFA	OU1,OU2, OU2A,OU2B OU2C, OU3 1,2,3,4,5, 6,7,8,9,10	SOUTHWEST DIVISION

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These bibliographic citations are considered to be part of this AR but may not be cited separately in the index.

MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO. / DOC.DATE / CTO.NO.. / EPA.CAT#	PRC.DATE / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	FROM.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050	001193 continued						11,12,13, 14,15,16, 17,19,20, 21,22,24, 25	
M60050 RPT N6871192D4670 0002	001244	02/09/96 08/01/95 00059 01.1	BECHTEL NATIONAL INC J. KLEUSENER SOUTHWEST DIVISION J. ASHMAN	FINAL QUALITY ASSURANCE PROJECT PLAN, PHASE II RI/FS	ADMIN RECORD INFO REPOSITORY	QAPP RI FS TECH/GUID DOC. NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR N6871192D4670 0015	001245	02/09/96 08/01/95 00059 10.1	BECHTEL NATIONAL INC J. KLEUSENER SOUTHWEST DIVISION J. ASHMAN	RESPONSE TO COMMENTS, DRAFT QUALITY ASSURANCE PROJECT PLAN PHASE II RI/FS	ADMIN RECORD INFO REPOSITORY	RI FS QAPP COMMENTS TECH/GUID DOC. NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 RPT N6871192D4670 0075	001373	03/19/96 08/01/95 00059 03.4	BECHTEL NATIONAL INC D. CONSER SOUTHWEST DIVISION J. ASHMAN	FINAL QUALITY ASSURANCE PROJECT PLAN PHASE II RI/FS	ADMIN RECORD INFO REPOSITORY	QAPP TECH/GUID DOC. NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13, 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 RPT N6871192D467000 0075	001465	05/21/96 08/01/95 00059 08.0	BECHTEL NATIONAL INC T. LATAS SOUTHWEST DIVISION	FINAL RISK ASSESSMENT WORK PLAN (DOCUMENT SIGNED 8/29/95)	ADMIN RECORD INFO REPOSITORY	RISK TECH/GUID DOC. NFA	OU1,OU2A OU2B,OU2C OU3,1,2,3, 4,5,6,7,8, 9,10,11,12 13,14,15 16,17,18 19,20,21 22,24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR N6871192D4670 0002	001243	02/08/96 08/09/95 00059 10.1	BECHTEL NATIONAL INC J. KLEUSENER SOUTHWEST DIVISION J. ASHMAN	RESPONSE TO COMMENTS FOR WORK PLAN AND FIELD SAMPLING PLAN PHASE II RI/FS	ADMIN RECORD	RI FS COMMENTS NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20, 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO

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MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. DOC.NO. DOCUMENT.TYPE... CONTR/GUID..NO.. APPROX.#.OF.PAGES	PRC.DATE DOC.DATE CTO.NO.. EPA.CAT#	FROM..... FROM.SIGNATURE..... TO..... TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 001242 RPT N6871192D4670 0002	02/08/96 08/16/95 00059 03.2	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION J. ASHMAN	FINAL FIELD SAMPLING PLAN PHASE II RI/FS	ADMIN RECORD INFO REPOSITORY	RI FS TECH/GUID DOC. NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001297 LTR 000000000000000 0001	03/13/96 08/25/95 00059 02.7	US EPA REGION IX B. ARTHUR MCAS EL TORO J. JOYCE	EPA LETTER STATING CONCERN OVER PLANS TO CONDUCT CPT SOIL GAS TESTING AND HYDROPUNCH SAMPLING BEFORE APPROVAL OF PHASE II RI/FS, QAPP AND FSP	ADMIN RECORD	RI FS QAPP NFA	1,2,3,4,5 6,7,8,9,10 11,12,13, 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001339 MISC 000000000000000 0007	03/18/96 08/30/95 00076 03.6	BECHTEL NATIONAL INC T. LATAS SOUTHWEST DIVISION	30 AUGUST 1995 MINUTES FOR WEEKLY BASE CLEANUP TEAM MEETING HELD TO DISCUSS FINDINGS AND DECISIONS FOR RI/FS AT SITES 2,3,5,17,24,25	ADMIN RECORD	RI FS BCP NFA	2,3,5,17 24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001239 LTR N6871192D4670 0003	02/08/96 09/06/95 00059 10.1	BECHTEL NATIONAL J. KLEUSENER SOUTHWEST DIVISION P. KENNEDY	RESPONSE TO COMMENTS DOCUMENT, PREPARED IN CONJUNCTION WITH THE FINAL RISK ASSESSMENT WORK PLAN PHASE II RI/FS	ADMIN RECORD	COMMENTS RISK RI FS NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001240 LTR N6871192D4670 0002	02/08/96 09/06/95 00059 08.2	BECHTEL NATIONAL J. KLEUSENER SOUTHWEST DIVISION J. ASHMAN	FINAL RISK ASSESSMENT WORK PLAN PHASE II RI/FS	ADMIN RECORD	RI FS NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001341 MISC 000000000000000 0007	03/18/96 09/06/95 00076 03.6	BECHTEL NATIONAL INC T. LATAS SOUTHWEST DIVISION	MEETING MINUTES FOR 6 SEPTEMBER 1994 WEEKLY BRAC CLEANUP TEAM MEETING HELD TO DISCUSS FINDINGS AND DECISIONS REGARDING RI/FS AT SITES 2,3,5,17,24, AND 25	ADMIN RECORD INFO REPOSITORY	RI FS MTG MINS BCP TECH/GUID DOC. NFA	2,3,4,5,17 24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001352 MISC N6871192D4670 0003	03/18/96 09/06/95 00080 10.0	BECHTEL NATIONAL INC D. TEDALDI SOUTHWEST DIVISION J. ASHMAN	SUBMITTAL OF DRAFT FORMER EMPLOYEE INTERVIEW COMMENTS OF 17 AUGUST 1995 CLEAN II AQ/QC FOR MCAS EL TORO	ADMIN RECORD INFO REPOSITORY	COMMENTS TECH/GUID DOC. NFA		SOUTHWEST DIVISION MCAS EL TORO

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MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. / DOC.NO. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	PRC.DATE / DOC.DATE / CTO.NO.. / EPA.CAT#	FROM..... / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 001370 RPT N6871192D4670 0130	03/19/96 09/06/95 00059 08.0	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION J. ASHMAN	FINAL RISK ASSESSMENT WORK PLAN PHASE II RI/FS	ADMIN RECORD INFO REPOSITORY	RISK RI FS TECH/GUID DOC. NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10, 11,12,13, 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001371 MISC N6871192D4670 0020	03/19/96 09/06/95 00059 10.1	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION J. ASHMAN	RESPONSES TO VARIOUS AGENCIES COMMENTS ON THE FINAL RISK ASSESSMENT WORKPLAN FOR PHASE II RI/FS	ADMIN RECORD INFO REPOSITORY	RI FS COMMENTS RISK TECH/GUID DOC. NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001569 MM 000000000000000 0005	07/11/96 09/06/95 00000 01.1	BECHTEL NATIONAL INC K. LYONS BCT MEMBERS	MINUTES FROM BRAC CLEANUP TEAM (BCT) MEETING HELD TO DISCUSS FINDINGS OF OU-2 FIELD INVESTIGATIONS, SCHEDULE OF UPCOMING INVESTIGATIONS, AND BCT DECISIONS	ADMIN RECORD INFO REPOSITORY	BCT MTG MINS TECH/GUID DOC. NFA	OU2,2,3,5 17,24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001340 MISC 000000000000000 0015	03/18/96 09/13/95 00076 03.6	BECHTEL NATIONAL INC T. LATAS SOUTHWEST DIVISION	MEETING MINUTES FOR 13 SEPTEMBER 1995 BRAC CLEANUP TEAM MEETING TO DISCUSS FINDINGS AND DISCUSSIONS FOR RI/FS AT SITES 2,3,5,17,24, AND 25	ADMIN RECORD INFO REPOSITORY	RI FS MTG MINS BCT TECH/GUID DOC. NFA	2,3,5,17 24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001300 MISC 000000000000000 0001	03/14/96 09/15/95 00000 03.6	US EPA REGION IX BECHTEL NATIONAL INC D. COWSER	US EPA COMMENTS ON THE MCAS EL TORO FINAL WORK PLAN AND FIELD SAMPLING PLAN PHASE II RI/FS	ADMIN RECORD	COMMENTS RI FS NFA	1,2,3,4,5 6,7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001059 LTR 000000000000000 0002	12/11/95 09/19/95 00000 03.3	EPA SAN FRANCISCO B. ARTHUR SOUTHWEST DIVISION J. JOYCE	COMMENTS ON THE FINAL PHASE II RI/FS WORKPLAN AND FIELD SAMPLING PLAN IN EITHER REVISED PAGES OR BY ADDENDUM	ADMIN RECORD	COMMENTS RI NFA	3,7,12,24, OU2,OU2A, OU3	SOUTHWEST DIVISION
M60050 001237 LTR N6871192D4670 0008	02/08/96 11/06/95 00059 10.1	BECHTEL NATIONAL D. COWSER SOUTHWEST DIVISION P. KENNEDY	RESPONSE TO COMMENTS FOR FINAL QUALITY ASSURANCE PROJECT PLAN PHASE II RI/FS	ADMIN RECORD	RI FS COMMENTS QAPP NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO

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MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO.	PRC.DATE / DOC.DATE / CTO.NO.. / EPA.CAT#	FROM..... / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 LTR N6871192D4670 0004	001229	01/31/96 11/27/95 00063 10.1	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION P. KENNEDY	RESPONSE TO COMMENTS FOR DRAFT FINAL WORK PLAN AND FIELD SAMPLING PLAN PHASE II REMEDIAL INVESTIGATION/ FEASIBILITY STUDY	ADMIN RECORD	RI FS COMMENTS NFA	4,7,11,13, 14,19,20	SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR N6871192D4670 0008	001236	02/08/96 11/27/95 00059 10.1	BECHTEL NATIONAL D. COWSER SOUTHWEST DIVISION P. KENNEDY	RESPONSE TO COMMENTS FOR DRAFT FINAL WORKPLAN AND FIELD SAMPLING PLAN PHASE II RI/FS	ADMIN RECORD	RI NFA	OU2,OU3,1 2,3,4,5,6 7,8,9,10 11,12,13, 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR N6871189D9296 0010	001177	12/26/95 11/29/95 00145 01.1	JACOBS ENGINEERING SOUTHWEST DIVISION A. BARKER	RESPONSE TO COMMENTS RECEIVED FROM THE DTSC AND EPA REGARDING THE RI/FS DRAFT OU1 BASELINE HUMAN HEALTH RISK ASSESSMENT REPORT OF 01 JULY 1994	ADMIN RECORD	COMMENTS HRA NFA	OU1	SOUTHWEST DIVISION
M60050 LTR N6871192D4670 0012	001205	01/23/96 01/09/96 00008 05.4	BECHTEL NATIONAL INC D. TEDALDI SOUTHWEST DIVISION P. KENNEDY	SUBMITTAL OF FINAL RESULTS OF EMPLOYEE INTERVIEW AT MCAS EL TORO	ADMIN RECORD	NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR N6871192D4670 0008	001357	03/18/96 01/09/96 00080 10.0	BECHTEL NATIONAL INC D. TEDALDI MCAS EL TORO J. JOYCE	SUBMITTAL OF FINAL RESULTS OF EMPLOYEE INTERVIEW AUGUST 17, 1995	ADMIN RECORD	COMMENTS NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC N6871192D4670 0020	001276	03/12/96 02/06/96 00000 11.3	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION P. KENNEDY	MEETING MINUTES 30 JANUARY 1996 WEEKLY BRAC CLEANUP TEAM (BCT) FOR PHASE II RI/FS MCAS EL TORO	ADMIN RECORD INFO REPOSITORY	MTG MINS BRAC TECH/GUID DOC. NFA	1,2,3,4,5 6,7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25,OU2,OU3	SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC N6871192D4670 0003	001399	03/20/96 02/14/96 00079 05.4	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION P. KENNEDY	MEETING MINTUES 07 FEBRUARY 1996 WEEKLY BCT BRIEFING HELD TO DISCUSS OU3, THE BCP, LANDFILL SITES, OU2A, OU2B	ADMIN RECORD INFO REPOSITORY	MTG MINS BCP NFA TECH/GUID DOC.	OU3,OU2A, OU2B,1,2,4 7,8,9,10 11,12,13, 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC N6871192D4670 0250	001401	03/20/96 02/28/96 00079 05.4	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION P. KENNEDY	BASE REALIGNMENT AND CLOSRURE PLAN (BCP) DATED MARCH 1, 1996	ADMIN RECORD INFO REPOSITORY	BCP TECH/GUID DOC. NFA	OU1,OU2, OU3,1,2,3, 4,5,6,7,8 9,10,11, 12,13,14 15,16,17 18,19,20	SOUTHWEST DIVISION MCAS EL TORO

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MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO. / DOC.DATE / CTO.NO.. / EPA.CAT#	PRC.DATE / FROM.SIGNATURE..... / TO.SIGNATURE.....	FROM..... / TO.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050	001401 continued						21,22,24 25	
M60050 MISC N6871192D4670 0023	001400	03/20/96 02/29/96 00079 05.4	BECHTEL NATIONAL INC D. CONSER SOUTHWEST DIVISION P. KENNEDY	MEETING MINTUES 21 FEBRUARY 1996 WEEKLY BCT BRIEFING HELD TO DISCUSS OU2A, OU2B, AND OU3 FIELDWORK, INCLUDES MEETING MATERIALS	ADMIN RECORD INFO REPOSITORY	MTG MINS BCP BCT TECH/GUID DOC. NFA	OU2A,OU2B OU3,1,2,4 6,7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC N6871192D4670 0009	001396	03/20/96 03/05/96 00079 05.4	BECHTEL NATIONAL INC D. CONSER SOUTHWEST DIVISION P. KENNEDY	MEETING MINUTES FOR THE 28 FEBRUARUY 1996 BASE CLEANUP TEAM MEETING HELD TO DISCUSS OU3, THE BCP, OU2A, AND THE LANDFILL SITES	ADMIN RECORD INFO REPOSITORY	MTG MINS BCP TECH/GUID DOC. NFA	OU3,OU2A 1,4,6,7,8 9,10,11,12 13,14,15 16,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC N6871192D4670 0020	001382	03/20/96 03/12/96 00079 05.4	BECHTEL NATIONAL INC D. CONSER SOUTHWEST DIVISION P. KENNEDY	MEETING MINUTES FOR 6 MARCH 1996 BASE CLEANUP TEAM MEETING HELD TO DISCUSS SITES 24,25, LANDFILL SITES, AND OU3 FIELD WORK; MEETING MATERIALS	ADMIN RECORD INFO REPOSITORY	MTG MINS CLEANUP TECH/GUID DOC. NFA	OU3,24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000 0006	001617	09/06/96 03/12/96 00080 10.1	DTSC LONG BEACH T. MAHMOUD MCAS EL TORO J. JOYCE	COMMENTS AND RECOMMENDATIONS ON THE FINAL RESULTS OF EMPLOYEE INTERVIEW, AUGUST 17, 1996 FOR THE NO FURTHER ACTION DETERMINATIONS W/ENCL	ADMIN RECORD INFO REPOSITORY	COMMENTS NFA	6 7 8 9 10 12 14 17 19 23 24	SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC N6871192D4670 0003	001418	04/03/96 03/18/96 00079 03.1	BECHTEL NATIONAL INC D. CONSER SOUTHWEST DIVISION P. KENNEDY	MEETING MINUTES FOR 13 MARCH 1996 BRAC CLEANUP TEAM MEETING HELD TO DISCUSS OU2A, OU2B, AND OU3	ADMIN RECORD INFO REPOSITORY	MTG MINS BCT TECH/GUID DOC. NFA	OU2A,OU2B OU3,1,2,4 6,7,8,9,10 11,12,13 14,15,16 17,19,20 21,22,24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC N6871192D4670 0003	001412	03/25/96 03/21/96 00079 05.4	BECHTEL NATIONAL INC D. CONSER SOUTHWEST DIVISION P. KENNEDY	MEETING MINUTES FOR 20 MARCH 1996 WEEKLY BRAC CLEANUP TEAM MEETING HELD TO DISCUSS OU2A,OU2B, OU3, AND EMPLOYEE INTERVIEWS	ADMIN RECORD INFO REPOSITORY	MTG MINS BCT TECH/GUID DOC. NFA	OU2A,OU2B OU3,1,2,4, 6,7,8,9,10 11,12,13, 14,15,16, 17,19,20 21,22,24,	SOUTHWEST DIVISION MCAS EL TORO

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MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

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M60050	001412 continued					25	
M60050 MISC N6871192D4670 0007	001331 03/18/96 04/01/96 00079 03.6	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION P. KENNEDY	MEETING MINUTES FOR 27 MARCH 1996 WEEKLY BASE CLEANUP TEAM MEETING HELD TO DISCUSS SITES 24 AND 25, THE LANDFILL SITES, AND OU3 (SITE 15) FIELDWORK	ADMIN RECORD INFO REPOSITORY	BCT MTG MINS OU TECH/GUID DOC. NFA	OU2A,OU2B, OU3,1,2,3, 4,5,6,7,8, 9,10,11,12 13,14,15 16,17,19 20,21,22 24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 MM N6871192D467000 0004	001017 06/19/96 04/05/96 00079 00.0	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION P. KENNEDY	MINUTES FROM 3 APRIL 1996 BRAC CLEANUP TEAM MEETING HELD TO DISCUSS OU2A, OU2B AND OU3	ADMIN RECORD INFO REPOSITORY	MTG MINS BCT TECH/GUID DOC. NFA	OU2A,OU2B OU3,1,2, 4,6,7,8,9, 10,11,12 13,14,15 16,17,19 20,21,22 24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 MM N6871192D467000 0005	000365 06/19/96 04/17/96 00079 00.0	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION P. KENNEDY	MINUTES FROM 10 APRIL 1996 WEEKLY BRAC CLEANUP TEAM MEETING HELD TO DISCUSS OU2A, OU2B, OU3, AND RCRA FACILITY ASSESSMENT ADDENDUM	ADMIN RECORD INFO REPOSITORY	MTG MINS BCT RFA TECH/GUID DOC. NFA	OU2A,OU2B OU3,1,2,3, 4,6,7,8,9 10,11,12 13,14,15 16,17,19 20,21,22, 24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 MM N6871192D467000 0015	000159 06/19/96 04/29/96 00079 00.0	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION P. KENNEDY	MINUTES FROM 17 MARCH 1996 WEEKLY BRAC CLEANUP TEAM MEETING HELD TO DISCUSS OU2A, OU2B, AND OU3	ADMIN RECORD INFO REPOSITORY	MTG MINS BCT OU TECH/GUID DOC. NFA	OU2A,OU2B OU3,1,2, 4,6,7,8,9 10,11,12, 13,14,15 16,17,19 20,21,22 24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 MM N6871192D467000 0022	000386 06/19/96 05/02/96 00079 00.0	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION P. KENNEDY	MINUTES FROM 24 APRIL 1996 BRAC CLEANUP TEAM MEETING HELD TO DISCUSS OU2A, OU2B, OU3, AND MCLS FOR TRICHLOROETHYLENE	ADMIN RECORD INFO REPOSITORY	MTG MINS BCT TCE TECH/GUID DOC. NFA	OU2A,OU2B OU3,1,2, 4,6,7,8,9 10,11,12 13,14,15 16,17,19 20,21,22, 24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 MM N6871192D4670 0005	001505 06/06/96 05/28/96 00073 01.1	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION P. KENNEDY	MINUTES FROM WEEKLY BRAC CLEANUP TEAM MEETING HELD ON 15 MAY 1996 TO DISCUSS OU1, OU2A, OU2B, AND OU3	ADMIN RECORD INFO REPOSITORY	GW BCT MTG MINS TECH/GUID DOC. NFA	OU1,OU2A OU3,1,2, 4,6,7,8,9 10,11,12, 13,14,15 16,18,19	SOUTHWEST DIVISION MCAS EL TORO

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M60050 001505 continued						20,21,22 24,25	
M60050 001506 MM N6871192D4670 0011	06/06/96 05/31/96 00079 01.1	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION P. KENNEDY	MINUTES FROM WEEKLY BRAC CLEANUP TEAM MEETING HELD 22 MAY 1996 TO DISCUSS OU1, OU2A, OU2B, AND OU3	ADMIN RECORD INFO REPOSITORY	OU MTG MINS BCT TECH/GUID DOC. NFA	OU1,OU2A OU2B,OU3 1,2,3,4,5 6,7,8,9,10 11,12,13 14,15,16 17,18,19, 20,21,22 24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001508 RPT N6871192D4670 0075	06/06/96 06/01/96 00076 01.1	BECHTEL NATIONAL INC T. LATAS SOUTHWEST DIVISION P. KENNEDY	TECHNICAL MEMORANDUM BACKGROUND AND REFERENCE LEVELS REMEDIAL INVESTIGATIONS (BACKGROUND CONCENTRATIONS - METALS; REFERENCE LEVELS - HERBICIDES, PESTICIDES)	ADMIN RECORD	TECH MEMO RI NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 001515 RPT N687192D4670000 0030	07/03/96 06/01/96 00079 01.1	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION P. KENNEDY	TECHNICAL MEMORANDUM REVISED RISK ASSESSMENT PROCEDURES (DOCUMENT SIGNED 10 JUNE 1996)	ADMIN RECORD	TECH MEMO RISK NFA	OU3,1,4,6 7,8,9,10, 11,12,13 14,15,16 19,20,21 22,23	SOUTHWEST DIVISION MCAS EL TORO
M60050 001510 MM N6871192D467000 0003	06/14/96 06/06/96 00079 01.1	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION P. KENNEDY	MEETING MINUTES FROM 29 MAY 1996 BRAC CLEANUP TEAM MEETING HELD TO DISCUSS OU 1, OU2A, OU2B, AND OU3	ADMIN RECORD INFO REPOSITORY	MTG MINS BCT TECH/GUID DOC. NFA	OU1,OU2A, OU2B,OU3,1 2,4,6,7,8, 9,10,11,12 13,14,15, 16,17,18 19,20,21 22,24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001517 MM N687192D4670000 0009	07/03/96 06/20/96 00079 01.1	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION P. KENNEDY	MEETING MINUTES FROM 12 JUNE 1996 BRAC CLEANUP TEAM (BCT) MEETING HELD TO DISCUSS OU 1, 2A, 2B, AND OU 3	ADMIN RECORD INFO REPOSITORY	BCT MTG MINS TECH/GUID DOC. NFA	OU1,OU2A OU2B,OU3,1 2,4,6,7,8, 9,10,11,12 13,14,15, 16,17,18 19,20,21 22,24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001646 XMTL N6871192D4670 0022	09/27/96 07/08/96 00079 10.5	BNI SAN DIEGO D.K. COWSER SOUTHWEST DIVISION P. KENNEDY	JUNE 19, 1996 BCT MEETING MINUTES W/ENCL	ADMIN RECORD INFO REPOSITORY	MTG MINS TECH/GUID DOC. NFA	6 8 15 3 5 OU1 OU2A 25	SOUTHWEST DIVISION MCAS EL TORO

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M60050 001599 LTR 000000000000000 0020	09/04/96 07/24/96 00000 10.1	DTSC LONG BEACH T. MAHMOUD MCAS EL TORO J. JOYCE	COMMENTS ON TECHNICAL MEMORANDUM BACKGROUND AND REFERENCE LEVELS REMEDIAL INVESTIGATION W/ENCL	ADMIN RECORD INFO REPOSITORY	COMMENTS NFA	400055-45	SOUTHWEST DIVISION MCAS EL TORO
M60050 001600 LTR 000000000000000 0004	09/04/96 07/24/96 00000 10.1	DTSC LONG BEACH T. MAHMOUD MCAS EL TORO J. JOYCE	COMMENTS ON TECHNICAL MEMORANDUM RISK ASSESSMENT PROCEDURES W/ENCL	ADMIN RECORD INFO REPOSITORY	COMMENTS NFA	OU3	SOUTHWEST DIVISION MCAS EL TORO
M60050 001644 RPT N6871192D4670 0050	09/27/96 07/30/96 00065 06.3	BNI SAN DIEGO D. COWSER SOUTHWEST DIVISION R. SELBY	FINAL REPORT ANTHROPOGENIC PAH REFERENCE-LEVEL STUDY	ADMIN RECORD INFO REPOSITORY	BACKGROUND DIOXIN LAB NFA		SOUTHWEST DIVISION MCAS EL TORO
M6Q050 001650 XMTL N6871192D4670 0044	09/27/96 07/30/96 00079 10.6	BNI SAN DIEGO D.K. COWSER SOUTHWEST DIVISION R. SELBY	JULY 10, 1996 BCT MEETING MINUTES W/ENC	ADMIN RECORD INFO REPOSITORY	MTG MINS TECH/GUID DOC. NFA	OU1 24 OU2A OU2B OU3 OU2C 18 25 2 17 3 5	SOUTHWEST DIVISION MCAS EL TORO
M60050 001651 XMTL N6871192D4670 0009	09/27/96 07/30/96 00079 10.6	BNI SAN DIEGO D.K. COWSER SOUTHWEST DIVISION R. SELBY	JULY 17, 1996 BCT MEETING MINUTES W/ENC	ADMIN RECORD INFO REPOSITORY	MTG MINS TECH/GUID DOC. NFA	OU1 24 2 17 OU3 OU3A OU3B OU2B OU2C	SOUTHWEST DIVISION MCAS EL TORO
M60050 001652 XMTL N6871192D4670 0003	09/27/96 07/30/96 00079 10.6	BNI SAN DIEGO D.K. COWSER SOUTHWEST DIVISION R. SELBY	JULY 24, 1996 BCT MEETING MINUTES	ADMIN RECORD INFO REPOSITORY	MTG MINS TECH/GUID DOC. NFA	OU1 OU2A 24 25 2 17 OU3 OU2B OU2C	SOUTHWEST DIVISION MCAS EL TORO
M60050 001653 XMTL N6871192D4670 0003	09/27/96 08/07/96 00080 10.6	BNI SAN DIEGO D.K. COWSER SOUTHWEST DIVISION R. SELBY	JULY 25, 1996 BCT MEETING MINUTES	ADMIN RECORD INFO REPOSITORY	MTG MINS TECH/GUID DOC. NFA		SOUTHWEST DIVISION MCAS EL TORO

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MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. DOC.NO. DOCUMENT.TYPE... CONTR/GUID..NO.. APPROX.#.OF.PAGES	PRC.DATE DOC.DATE CTO.NO.. EPA.CAT#	FROM..... FROM.SIGNATURE..... TO..... TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 001654 XMTL N6871192D4670 0018	09/27/96 08/07/96 00079 10.6	BNI SAN DIEGO D.K. COWSER SOUTHWEST DIVISION R. SELBY	JULY 16, 1996 BCT MEETING MINUTES W/ENCL	ADMIN RECORD INFO REPOSITORY	MTG MINS TECH/GUID DOC. NFA	OU3 24 OU3 25 OU3B OU2A 2 17 OU1	SOUTHWEST DIVISION MCAS EL TORO
M60050 001655 XMTL N6871192D4670 0003	09/27/96 08/14/96 00079 10.6	BNI SAN DIEGO D.K. COWSER SOUTHWEST DIVISION R. SELBY	AUGUST 7, 1996 BCT MEETING MINUTES	ADMIN RECORD INFO REPOSITORY	MTG MINS TECH/GUID DOC. NFA	OU1 OU2 24 OU2B OU2C OU3 25 OU3B	SOUTHWEST DIVISION MCAS EL TORO
M60050 001658 XMTL N6871192D4670 0005	09/27/96 08/27/96 00079 10.6	BNI SAN DIEGO D.K. COWSER SOUTHWEST DIVISION R. SELBY	AUGUST 21, 1996 BCT MEETING MINUTES W/ENCL	ADMIN RECORD INFO REPOSITORY	MTG MINS TECH/GUID DOC. NFA	OU1 24 17 2 3 5 OU3A OU3B	SOUTHWEST DIVISION MCAS EL TORO
M60050 001671 XMTL N6871192D4670 0013	09/30/96 09/11/96 0063B 10.5	BNI SAN DIEGO D. COWSER SOUTHWEST DIVISION R. SELBY	SEPTEMBER 25, 1996, DRAFT RAB MEETING AGENDA SITE (B) BASEWIDE COMMUNITY RELATIONS SUPPORT MEETING MAILER & JULY 31, 1996 DRAFT MEETING MINUTES	ADMIN RECORD INFO REPOSITORY	MTG MINS CRP RAB NFA	B 2 17 4 7 11 13 14 19 20 OU2A	SOUTHWEST DIVISION MCAS EL TORO
M60050 001673 XMTL N6871192D4670 0003	09/30/96 09/19/96 00079 10.5	BNI SAN DIEGO D. COWSER SOUTHWEST DIVISION R. SELBY	SEPTEMBER 17, 1996 BCT MEETING MINUTES	ADMIN RECORD INFO REPOSITORY	MTG MINS ARAR TECH/GUID DOC. NFA	OU1 OU2B OU2C BLDG. 368	SOUTHWEST DIVISION MCAS EL TORO
M60050 001706 MM N6871192D4670 0013	11/13/96 10/15/96 00079 10.4	BNI SAN DIEGO D. COWSER SOUTHWEST DIVISION R. SELBY	SEPTEMBER 25, 1996 BCT MEETING MINUTES	ADMIN RECORD INFO REPOSITORY	MTG MINS TECH/GUID DOC. NFA	2 17 19 UNIT 2	SOUTHWEST DIVISION MCAS EL TORO

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MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO. / DOC.DATE / CTO.NO.. / EPA.CAT#	PRC.DATE / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	FROM.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050	001707	11/13/96	BNI SAN DIEGO	OCTOBER 9, 1996 BCT MEETING MINUTES	ADMIN RECORD	MTG MINS	2	SOUTHWEST DIVISION
XMTL		10/15/96	D. COWSER		INFO REPOSITORY	TECH/GUID DOC.	17	MCAS EL TORO
N6871192D4670		00079	SOUTHWEST DIVISION			NFA	3	
0004		10.4	R. SELBY				5	
M60050	001864	03/26/97	DTSC LONG BEACH	FINAL TECHNICAL MEMORANDUM APPROVAL: BACKGROUND AND REFERENCE LEVELS RI (REFER DOC# 001945)	ADMIN RECORD	TECH MEMO		SOUTHWEST DIVISION
LTR		11/01/96	J. SCANDURA		INFO REPOSITORY	RI		MCAS EL TORO
000000000000000		00000	MCAS EL TORO			NFA		
0002		10.1	J. JOYCE					
M60050	001729	01/29/97	BECHTEL NATIONAL	DRAFT PHASE II REMEDIAL INVESTIGATION/FEASIBILITY STUDY ADDENDUM SITE 25	ADMIN RECORD	RI	1	SOUTHWEST DIVISION
RPT		01/21/97	G.P.BROOKS		INFO REPOSITORY	FS	4	MCAS EL TORO
N6871192D4670		00073	SOUTHWEST DIVISION			ADPM	6	
2000		03.4				NFA	16	
							19	
							20	
							21	
							22	
							24	
							25	
							5	
							18	
							2	
							3	
							OU 1	
							OU 2A	
							OU 2B	
							OU 2C	
							OU 3	
							15	
							17	
							8	
							9	
							10	
							11	
							12	
							13	
M60050	001745	03/17/97	BECHTEL NATIONAL INC	BASE REALIGNMENT AND CLOSURE CLEANUP PLAN (BCP) DATED MARCH 1997	ADMIN RECORD	BCP	1	SOUTHWEST DIVISION
PLAN		01/30/97	J. KLUESENER		INFO REPOSITORY	CLEANUP	2	MCAS EL TORO
N6871192D4670		00103	VARIOUS AGENCIES			TECH/GUID DOC.	3	
2000		04.2				NFA	4	
							5	
							6	
							7	
							8	
							9	
							10	
							11	
							12	
							13	
							14	
							15	

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MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO. / PRC.DATE / DOC.DATE / CTO.NO.. / EPA.CAT#	FROM..... / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050	001745 continued					16 17 18 19 20 21 22 24 25 OU 1 OU 2 OU 3 OU 2A OU 2B OU 2C OU 3A OU 3B	
M60050 XMTL N6871192D4670 0015	001751 	03/19/97 03/06/97 00103 04.4	BECHTEL NATIONAL INC C. CARLISLE VARIOUS AGENCIES	REPLACEMENT PAGES FOR THE BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP PLAN (BCP) DATED MARCH 1997	ADMIN RECORD INFO REPOSITORY	CLOSURE BRAC CLEANUP BCP TECH/GUID DOC. NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 XMTL N6871192D4670 003B	001844 	03/24/97 03/18/97 00079 10.1	BECHTEL NATIONAL INC C. CARLISLE VARIOUS AGENCIES	RESPONSE TO COMMENTS DOCUMENTS, DRAFT PHASE II RI REPORT OU 3A SITES (VARIOUS DATES)	ADMIN RECORD INFO REPOSITORY	RESPONSE. COMMENTS RI NFA	OU 3A 4 6 8 9 10 11 12 13 15 16 19 20 21 22	SOUTHWEST DIVISION MCAS EL TORO
M60050 MEMO N6871192D4670 0017	001995 	09/23/97 04/03/97 00063 10.0	SOUTHWEST DIVISION A. PISZKIN BECHTEL NATIONAL INC C. CARLISLE	REVIEW OF DRAFT PROPOSED PLAN FOR CLEANUP OF CONTAMINATED SOIL AT SITE 24, MCAS EL TORO DATED MARCH 12, 1997	ADMIN RECORD INFO REPOSITORY	CLEANUP SOIL NFA TECH/GUID DOC.	24 OU 2A	SOUTHWEST DIVISION MCAS EL TORO
M60050 RPT N6871192D4670 0067	001994 	09/23/97 04/04/97 00076 10.1	BECHTEL NATIONAL INC D. TEDALDI VARIOUS AGENCIES	RESPONSE TO COMMENTS ON DRAFT FINAL PHASE II FEASIBILITY STUDY REPORTS-SITES 2,3,4, AND 17 (VARIOUS DATES)	ADMIN RECORD INFO REPOSITORY	RESPONSE COMMENTS FS NFA TECH/GUID DOC.	2 3 5 17	SOUTHWEST DIVISION MCAS EL TORO

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MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. / DOC.NO. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	PRC.DATE / DOC.DATE / CTO.NO.. / EPA.CAT#	FROM..... / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 001824 RPT N6871192D4670 1500	06/01/97 06/01/97 00079 04.2	BECHTEL NATIONAL INC D. TEDALDI VARIOUS AGENCIES	DRAFT FINAL PHASE II RI REPORT OU 3A SITES (REF. DOCS. 001825 AND 001826) VOLUME I	ADMIN RECORD INFO REPOSITORY	RI OU CONTAM* SOIL NFA	OU 3A 4 6 8 9 10 11 12 13 15 16 19 20 21 22	SOUTHWEST DIVISION MCAS EL TORO
M60050 001825 RPT N6871192D4670 1500	06/01/97 06/01/97 00079 04.2	BECHTEL NATIONAL INC D. TEDALDI VARIOUS AGENCIES	DRAFT FINAL PHASE II RI REPORT OU 3A SITES VOL. II ATTACHMENTS E-I (REF. DOC. 001824 AND 001826)	ADMIN RECORD INFO REPOSITORY	RI SOIL SLUDGE NFA	OU 3A 10 11 12 13 15 4 6 8 9 16 19 20 21 22	SOUTHWEST DIVISION MCAS EL TORO
M60050 001826 RPT N6871192D4670 1500	06/01/97 06/01/97 00079 04.2	BECHTEL NATIONAL INC D. TELDALDI VARIOUS AGENCIES	DRAFT FINAL PHASE II RI REPORT OU 3A SITES VOL. III ATTACHMENTS J-N (REF. DOC. 001824 AND 001825)	ADMIN RECORD INFO REPOSITORY	RI OU SOIL VOC GW FUEL RISK PCB NFA	OU 3A 16 19 20 21 22 4 6 8 9 10 11 12 13 15	SOUTHWEST DIVISION MCAS EL TORO
M60050 001957 LTR 000000000000000 0000	06/12/97 06/01/97 00000 01.6	MCAS EL TORO J. JOYCE VARIOUS AGENCIES	CLARIFICATION OF SITE 25 BOUNDARY	ADMIN RECORD	NFA	OU 2A 25	SOUTHWEST DIVISION MCAS EL TORO

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MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. DOC.NO. DOCUMENT.TYPE... CONTR/GUID..NO.. APPROX.#.OF.PAGES	PRC.DATE DOC.DATE CTO.NO.. EPA.CAT#	FROM..... FROM.SIGNATURE..... TO..... TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 001950 PLAN 000000000000000 0000	06/06/97 06/16/97 00000 01.6	BECHTEL NATIONAL INC D. TEDALDI SOUTHWEST DIVISION T. MARTIN	PROPOSED PLAN MCAS EL TORO NO FURTHER ACTION SITES	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI NFA	4 6 9 10 13 15 19 20 21 22 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001969 MM 000000000000000 0010	09/18/97 07/31/97 00000 10.4	HAHN BOWERSOCK CORP J. BURGNER MCAS EL TORO	JULY 31, 1997, PUBLIC COMMENT MEETING PROPOSED PLAN FOR ENVIRONMENTAL RESTORATION NO FURTHER ACTION SITES IRP	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI PUBNOT NFA IRP TECH/GUID DOC.		SOUTHWEST DIVISION MCAS EL TORO
M60050 001970 MM 000000000000000 0017	09/18/97 07/31/97 00000 10.4	MCAS EL TORO MEMBERS	JULY 31, 1997, PUBLIC COMMENT MEETING NO FURTHER ACTION SITES HANDOUTS INCLUDES, PUBLIC COMMENT FORMS, MEETING EVALUATION, AND SIGN-UP SHEETS	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI TECH/GUID DOC. COMMENTS NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 001971 MISC 000000000000000 0001	09/18/97 07/31/97 00000 10.6	ORANGE COUNTY REGIST PUBLIC INTEREST	PUBLIC NOTICE "PRESENTATION AND DISCUSSION MEETING" DATED JULY 31, 1997	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI NFA PUBNOT		SOUTHWEST DIVISION MCAS EL TORO
M60050 001979 MISC 000000000000000 0004	09/18/97 07/31/97 00000 10.3	MCAS EL TORO CO BECHTEL NATIONAL INC B. COLEMAN	FAXED COPIES OF VARIOUS NEWS CLIPPINGS: PUBLIC NOTICE DATED JULY 31, 1997 PRESENTATION & DISCUSSION MTG.,IRP PROPOSED PLAN OU 2A-SITE 24,NRA , OU 3A	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI TECH/GUID DOC. OU NFA	OU 2A 24 OU 3A	SOUTHWEST DIVISION MCAS EL TORO
M60050 001967 RPT N6871192D4670 0129	09/18/97 08/13/97 00135 05.0	BECHTEL NATIONAL INC D. TEDALDI VARIOUS AGENCIES	DRAFT RECORD OF DECISION OPERABLE UNITS 2A AND 3A NO ACTION SITES	ADMIN RECORD INFO REPOSITORY	ROD OU NFA TECH/GUID DOC.	OU 2A OU 3A	SOUTHWEST DIVISION MCAS EL TORO
M60050 001977 MISC 000000000000000 0015	09/18/97 09/16/97 00000 10.1	MCAS EL TORO	DRAFT RESPONSIVENESS SUMMARY MCAS EL TORO PROPOSED PLAN, OUS 2A AND OU 3A, NO ACTION SITES	ADMIN RECORD INFO REPOSITORY	NFA OU TECH/GUID DOC.	4 6 9 10 13 15 19 20 21 22 25	SOUTHWEST DIVISION MCAS EL TORO

This Administrative Record (AR) Index includes references to documents which cite bibliographical sources.
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MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA SITES (DDTD)

UIC No. DOC.NO. DOCUMENT.TYPE... CONTR/GUID..NO.. APPROX.# OF.PAGES	PRC.DATE DOC.DATE CTO.NO.. EPA.CAT#	FROM..... FROM.SIGNATURE..... TO..... TO.SIGNATURE.....	....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 001993 RPT N6871193D1459 2000	09/23/97 09/23/97 DO#59 01.6	OHM REMEDIATION W. SEDLAK EPA SAN FRANCISCO G. KISTNER	ON SCENE COORDINATOR REPORT NON-TIME CRITICAL REMOVAL FOR SITE 19, UNIT 2 AIRCRAFT EXPEDITIONARY REFUELING SITE	ADMIN RECORD INFO REPOSITORY	NTCRA NFA TECH/GUID DOC.	19	SOUTHWEST DIVISION MCAS EL TORO
M60050 002006 LTR 000000000000000 0004	09/24/97 09/24/97 DO#70 01.6	OHM REMEDIATION J. JOYCE VARIOUS AGENCIES	TECHNICAL MEMORANDUM REGARDING CATCH BASIN CLEAN-OUT WEST OF IRP SITE 21-MATERIALS MANAGEMENT GROUP, BUILDING 320	ADMIN RECORD INFO REPOSITORY	TECH MEMO IRP TECH/GUID DOC. NFA	21 BLDG. 320	SOUTHWEST DIVISION MCAS EL TORO

This Administrative Record (AR) Index includes references to documents which cite bibliographical sources.
These bibliographic citations are considered to be part of this AR but may not be cited separately in the index.

TOTAL RECORDS PRINTED: 220

REPORT SPECIFICATION FOR: RPT056

TITLE: MCAS EL TORO TECHNICAL DOCUMENTS DRAFT A.R.FILE INDEX UPDATE-NFA

FILE: COMBINED Key Info. with Activity File

SELECTION CRITERIA:
[01] Key Words CONTAINS "NFA"
& Key Words IS "NFA * "AAL * & Doc.No. FROM "000001"
& UIC.No. IS "M60050 *
& Subject IS NOT "DOCUMENT NUMBER NOT USED *

SORT CRITERIA:
01 Doc. Date

PAGE BREAK LEVEL:
00 NO PAGEBREAK

TYPE REPORT FORM
PAPER COMBO KEY INFO(master activity rpt form)

This Administrative Record (AR) Index includes references to documents which cite bibliography sources.
These bibliographic citations are considered to be part of this AR but may not be cited separately in the index.

PUBLIC PARTICIPATION DOCUMENTS

PUBLIC PARTICIPATION DOCUMENTS- MCAS EL TORO (SORT BY DOCUMENT DATE)

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO. / PRC.DATE / DOC.DATE / CTO.NO.. / EPA.CAT#	FROM..... / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 RPT N6871189D9296 0075	000896 07/19/95 11/01/85 00018 01.2	W.R. MILLS ASSOC.	FINAL REPORT TO ORANGE COUNTY WATER DISTRICT TRICHLOROETHYLENE INVESTIGATION NEAR THE EL TORO MARINE AIR STATION	ADMIN RECORD	TCE PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO MCAS EL TORO
M60050 LTR 000000000000000 0001	001134 12/22/95 03/31/88 00000 01.6	MCAS EL TORO CRWQCB RIVERSIDE	MEMBERSHIP FOR THE MCAS EL TORO TRC IS BEING SOUGHT	ADMIN RECORD	TRC PUB. PARTICIPATI	OU1	SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000	000155 11/01/93 12/21/89 00000 10.1	J. R. FAUNCE MCAS EL TORO B. MAVITY WVHA	TCE CLEANUP CITIZENS ADVISORY COMMITTEE REQUEST FOR MCAS EL TORO REMEDIAL INVESTIGATION WORK PLAN	ADMIN RECORD	TCE CLEANUP RI PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 RPT 000000000000000 0005	000417 07/05/94 02/01/91 00000 10.1	MCAS EL TORO	RESPONSES TO PUBLIC COMMENTS CONCERNING MCAS EL TORO FEDERAL FACILITY AGREEMENT.	ADMIN RECORD INFO REPOSITORY	FFA COMMENTS PIM PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000	000097 11/01/93 02/13/91 00000 10.1	M. ALONZO DEPT. H & H L. NUZUM SOUTHWESTDIV	RESPONSE TO PUBLIC COMMENTS CONCERNING MCAS EL TORO FEDERAL FACILITY AGREEMENT	ADMIN RECORD	FFA COMMENTS PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MM N6871189D9296 0005	001014 12/08/95 04/03/91 00018 01.6	JACOBS ENGINEERING J. DOLEGOWSKI SOUTHWEST DIVISION	MARCH 20, 1991 TRC MEETING MINUTES	ADMIN RECORD	MTG MINS TRC PUB. PARTICIPATI	OU1 18	SOUTHWEST DIVISION
M60050 MISC 000000000000000 0005	000546 07/07/94 11/01/91 00000 09.3	MCAS EL TORO	FACT SHEET: THE ENVIRONMENTAL CLEANUP OF MARINE CORPS AIR STATION EL TORO.	ADMIN RECORD	HAZ WASTE PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0006	000892 07/19/95 11/01/91 00000 10.6	SOUTHWEST DIVISION	FACT SHEET "DESCRIBING INVESTIGATION OF POSSIBLE HAZARDOUS WASTE CONTAMINATION"	ADMIN RECORD	HAZ WASTE PUB. PARTICIPATI	1,2,3,4,5, 6,7,8,9,10 11,12,13, 14,15,16, 17,18,19, 20,21,22	SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 00000000000000 0011	001834 03/24/97 11/18/91 00000 10.4	MCAS EL TORO	PUBLIC FORUM AGENDA WITH HANDOUTS	ADMIN RECORD INFO REPOSITORY	OU CERCLA RI PUB. PARTICIPATI	OU 1 OU 2 OU 4 18 2 3 5 10 17 1 4	SOUTHWEST DIVISION MCAS EL TORO

This Administrative Record (AR) Index includes references to documents which cite bibliography sources.
These bibliographic citations are considered to be part of this AR but may not be cited separately in the index.

PUBLIC PARTICIPATION DOCUMENTS- MCAS EL TORO (SORT BY DOCUMENT DATE)

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO. / DOC.DATE / CTO.NO.. / EPA.CAT#	DATE / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	FROM.....	....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 001#J4 continued							6 7 8 9 11 12 13 14 15 16 19 20 21 22	
M60050 LTR 000000000000000 0004	000555	06/19/96 12/09/91 00000 10.5	MCAS EL TORO L.G. SERAFINI US EPA J. HAMILL	MINUTES FROM THE NOVEMBER 18, 1991 PUBLIC FORUM HELD TO DISCUSS THE REMEDIAL INVESTIGATION	ADMIN RECORD	RI TCE PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0002	000891	07/19/95 12/01/92 00000 10.6	SOUTHWEST DIVISION	FACT SHEET "UPDATE OF THE ENVIRONMENTAL INVESTIGATIONS AT MCAS EL TORO"	ADMIN RECORD	PUBNOT PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MM N6871189D9296 0026	001028	12/08/95 12/17/92 00145 01.6	JACOBS ENGINEERING SOUTHWEST DIVISION	DECEMBER 17, 1992 TRC MEETING MINUTES	ADMIN RECORD	TRC MTG MINS PUB. PARTICIPATI	OU1,OU2, OU3,OU2A OU2B,OU2C 1,2,3,4,5, 6,7,8,9,10 11,12,13, 14,15,16, 17,18,19, 20,21,22 24,25	SOUTHWEST DIVISION
M60050 MISC 000000000000000 0008	000890	07/19/95 12/01/93 00000 10.6	SOUTHWEST DIVISION	FACT SHEET "UPDATE OF THE ENVIRONMENTAL INVESTIGATIONS AT MCAS EL TORO"	ADMIN RECORD	PUBNOT PUB. PARTICIPATI	1,2,3,4,5, 6,7,8,9,10 11,12,13, 14,15,16, 17,19,20, 21,22	SOUTHWEST DIVISION MCAS EL TORO
M60050 MEMO N6871189D9296 0043	000861	07/18/95 03/11/94 00145 10.5	JACOBS ENGINEERING J. DOLEGOWSKI SOUTHWEST DIVISION A. PISZKIN	TECHNICAL REVIEW COMMITTEE (TRC) RAB MEETING SUMMARY	ADMIN RECORD	TRC MTG MINS PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 XMTL N6871189D9296 0034	000865	07/18/95 05/20/94 00145 10.4	JACOBS ENGINEERING J. DOLEGOWSKI SOUTHWEST DIVISION A. PISZKIN	RAB MEETING SUMMARY	ADMIN RECORD	RAB MTG MINS PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO

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PUBLIC PARTICIPATION DOCUMENTS- MCAS EL TORO (SORT BY DOCUMENT DATE)

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M60050 MISC 000000000000000 0025	001437	04/08/96 08/16/94 00063 10.0	MCAS EL TORO GENERAL PUBLIC	2 JUNE 1994 MCAS EL TORO RESTORATION ADVISORY BOARD MEETING AGENDA, MINUTES, HANDOUTS AND MATERIALS FOR PRESENTATIONS, AND PUBLIC NOTICE ANNOUNCING MEETING	ADMIN RECORD	RAB MTG MINS PUBNOT PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000 0046	000734	06/15/95 08/25/94 00000 10.4	MCAS EL TORO J.JOYCE RAB MEMBERS	RAB MEETING MINUTES, AGENDA AND RAB CHARTER DRAFT	ADMIN RECORD INFO REPOSITORY	MTG MINS PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 LTR 000000000000000 0002	000728	06/15/95 09/19/94 00000 10.4	MCAS EL TORO D. CHANDLER RAB MEMEBERS	RAB MEMBERS RESIGNATIONS, PRIORITIES, ISSUES & COMMUNITY CONCERNS SITE 16	ADMIN RECORD INFO REPOSITORY	MTG MINS PUB. PARTICIPATI	16	SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0015	001438	04/08/96 10/12/94 00063 10.0	MCAS EL TORO GENERAL PUBLIC	12 OCTOBER 1994 MCAS EL TORO RESTORATION ADVISORY MEETING AGENDA, MINUTES, HANDOUTS AND MATERIALS FOR PRESENTATIONS, AND PUBLIC NOTICE ANNOUNCING MEETING	ADMIN RECORD INFO REPOSITORY	RAB MTG MINS PUBNOT PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0015	001439	04/08/96 12/13/94 00063 10.0	MCAS EL TORO GENERAL PUBLIC	13 DECEMBER 1994 MCAS EL TORO RESTORATION ADVISORY MEETING AGENDA, MINUTES, HANDOUTS AND MATERIALS FOR PRESENTATIONS, AND PUBLIC NOTICE ANNOUNCING MEETING	ADMIN RECORD INFO REPOSITORY	RAB MTG MINS PUBNOT PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0020	001440	04/08/96 01/31/95 00063 10.0	MCAS EL TORO GENERAL PUBLIC	31 JANUARY 1995 MCAS EL TORO RESTORATION ADVISORY MEETING AGENDA, MINUTES, HANDOUTS AND MATERIALS FOR PRESENTATIONS, AND PUBLIC NOTICE ANNOUNCING MEETING	ADMIN RECORD	RAB MTG MINS PUBNOT PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0020	001441	04/08/96 02/28/95 00063 10.0	MCAS EL TORO GENERAL PUBLIC	28 FEBRUARY 1995 MCAS EL TORO RESTORATION ADVISORY MEETING AGENDA, MINUTES, HANDOUTS AND MATERIALS FOR PRESENTATIONS, AND PUBLIC NOTICE ANNOUNCING MEETING	ADMIN RECORD	RAB MTG MINS PUBNOT PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0003	001422	04/03/96 03/24/95 00063 10.0	VARIOUS NEWSPAPERS PUBLIC	PUBLIC NOTICE ANNOUNCING THE 30 MARCH 1995 RESTORATION ADVISORY BOARD MEETING PRINTED IN ORANGE COUNTY REGISTER, LOS ANGELES TIMES, AND THE IRVINE WORLD NEWS	ADMIN RECORD INFO REPOSITORY	PUBNOT RAB PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0020	001444	04/08/96 03/25/95 00063 10.0	MCAS EL TORO GENERAL PUBLIC	22 MAY 1995 MCAS EL TORO RESTORATION ADVISORY MEETING AGENDA, MINUTES, HANDOUTS AND MATERIALS FOR PRESENTATIONS, AND PUBLIC NOTICE ANNOUNCING MEETING	ADMIN RECORD INFO REPOSITORY	RAB MTG MINS PUBNOT PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0003	001423	04/03/96 04/20/95 00063 10.0	VARIOUS NEWSPAPERS PUBLIC	PUBLIC NOTICE ANNOUNCING THE 27 APRIL 1995 RESTORATION ADVISORY BOARD MEETING PRINTED IN ORANGE COUNTY REGISTER, LOS ANGELES TIMES, AND THE IRVINE WORLD NEWS	ADMIN RECORD INFO REPOSITORY	PUBNOT RAB PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO

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M60050 MISC 000000000000000 0020	001443	04/08/96 04/27/95 00063 10.0	MCAS EL TORO GENERAL PUBLIC	27 APRIL 1995 MCAS EL TORO RESTORATION ADVISORY MEETING AGENDA, MINUTES, HANDOUTS AND MATERIALS FOR PRESENTATIONS, AND PUBLIC NOTICE ANNOUNCING MEETING	ADMIN RECORD INFO REPOSITORY	RAB MTG MINS PUBNOT PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0003	001424	04/03/96 05/19/95 00063 10.0	VARIOUS NEWSPAPERS PUBLIC	PUBLIC NOTICE ANNOUNCING THE 25 MAY 1995 RESTORATION ADVISORY BOARD MEETING PRINTED IN ORANGE COUNTY REGISTER	ADMIN RECORD INFO REPOSITORY	PUBNOT RAB PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0014	001321	03/14/96 05/31/95 00059 10.0	BECHTEL NATIONAL INC SOUTHWEST DIVISION	MAY 31, 1995 RESTORATION ADVISORY BOARD MEETING MINUTES AND MEETING SIGN-IN SHEETS	ADMIN RECORD INFO REPOSITORY	MTG MINS RAB PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0001	001425	04/03/96 07/20/95 00063 10.0	OC REGISTER PUBLIC	PUBLIC NOTICE ANNOUNCING THE 27 JULY 1995 RESTORATION ADVISORY BOARD MEETING PRINTED IN ORANGE COUNTY REGISTER	ADMIN RECORD INFO REPOSITORY	PUBNOT RAB PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC N6871192D4670 0030	001369	03/19/96 07/25/95 00063 10.6	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION J. PAYNE	FINAL MCAS EL TORO FACT SHEET #3 AND MAILING LIST	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MM 000000000000000 0016	000966	08/29/95 07/27/95 00000 10.4	RAB MEMBERS	JULY 27, 1995 RAB MEETING MINUTES	ADMIN RECORD INFO REPOSITORY	MTG MINS PUB. PARTICIPATI	OU2 24,25,2,3, 5,17 OU3	SOUTHWEST DIVISION MCAS EL TORO
M60050 MM 000000000000000 0007	001067	12/11/95 07/27/95 00000 10.4	MCAS EL TORO RAB MEMBERS	JULY 27, 1995 RAB MEETING MINUTES	ADMIN RECORD	MTG MINS RAB PUB. PARTICIPATI	OU1,OU2 OU2A,OU2B OU2C,OU3 1,2,3,4,5, 6,7,8,9,10 11,12,13, 14,15,16 17,18,19 20,21,22 24,25	SOUTHWEST DIVISION
M60050 MISC 000000000000000 0020	001445	04/08/96 07/27/95 00063 10.0	MCAS EL TORO GENERAL PUBLIC	27 JULY 1995 MCAS EL TORO RESTORATION ADVISORY MEETING AGENDA, MINUTES, HANDOUTS AND MATERIALS FOR PRESENTATIONS, AND PUBLIC NOTICE ANNOUNCING MEETING	ADMIN RECORD INFO REPOSITORY	RAB MTG MINS PUBNOT PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0005	001426	04/03/96 08/24/95 00063 10.0	VARIOUS NEWSPAPERS PUBLIC	PUBLIC NOTICE ANNOUNCING THE 31 AUGUST 1995 RESTORATION ADVISORY BOARD MEETING PRINTED IN THE ORANGE COUNTY REGISTER, TUSTIN WEEKLY, AND LA TIMES	ADMIN RECORD INFO REPOSITORY	PUBNOT RAB PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO

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M60050 001446 LTR 000000000000000 0046	04/08/96 08/31/95 00063 10.0	MCAS EL TORO RAB MEMBERS	31 AUGUST 1995 RESTORATION ADVISORY BOARD MEETING AGENDA, MINUTES, HANDOUTS AND MATERIALS FOR PRESENTATION AND PUBLIC NOTICE ANNOUNCING MEETING	ADMIN RECORD INFO REPOSITORY	RAB MTG MINS PUBNOT PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001427 MISC 000000000000000 0003	04/03/96 09/18/95 00063 10.0	VARIOUS NEWSPAPERS PUBLIC	PUBLIC NOTICE ANNOUNCING THE 28 SEPTEMBER 1995 RESTORATION ADVISORY BOARD MEETING AND APPLICATION PERIOD APPEARING IN VARIOUS LOCAL NEWSPAPERS	ADMIN RECORD INFO REPOSITORY	PUBNOT RAB PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001326 MISC N6871192D4670 0004	03/18/96 09/20/95 00063 10.0	BECHTEL NATIONAL INC A. SCHWARTZ MCAS EL TORO D. CHANDLER	MCAS TUSTIN/MCAS EL TORO RESTORATION ADVISORY BOARD MEMBERSHIP RECRUITMENT PACKAGE AND PUBLIC NOTICE ANNOUNCING MEMBERSHIP	ADMIN RECORD INFO REPOSITORY	RAB PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001447 MISC 000000000000000 0020	04/08/96 09/28/95 00063 10.0	MCAS EL TORO GENERAL PUBLIC	28 SEPTEMBER 1995 MCAS EL TORO RESTORATION ADVISORY MEETING AGENDA, MINUTES, HANDOUTS AND MATERIALS FOR PRESENTATIONS, AND PUBLIC NOTICE ANNOUNCING MEETING	ADMIN RECORD INFO REPOSITORY	RAB MTG MINS PUBNOT PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001327 MISC N6871192D4670 0014	03/18/96 10/09/95 00063 10.5	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION P. KENNEDY	27 JULY 1995 AND 31 AUGUST 1995 RESTORATION ADVISORY BOARD MEETING MINUTES AND RAB SUBCOMMITTEE ROSTER	ADMIN RECORD INFO REPOSITORY	RAB MTG MINS PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001386 MISC N6871192D4670 0025.	03/20/96 10/09/95 00063 10.0	BECHTEL NATIONAL INC J. KLEUSENER SOUTHWEST DIVISION P. KENNEDY	FINAL MCAS EL TORO FACT SHEET #4, INCLUDES MAILING LIST	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001429 MISC 000000000000000 0004	04/03/96 10/19/95 00063 10.0	VARIOUS NEWSPAPERS PUBLIC	PUBLIC NOTICE ANNOUNCING 26 OCTOBER RESTORATION ADVISORY BOARD MEETING FOUND IN LA TIMES AND ORANGE COUNTY REGISTER	ADMIN RECORD INFO REPOSITORY	PUBNOT RAB PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001199 MISC N6871192D4670 0003	01/23/96 11/01/95 00063 10.6	MCAS EL TORO COMMUNITY MEMBERS	FACT SHEET NO. 5 UPDATE ON ENIRONMENTAL RESTORATION PROGRAM AT MCAS EL TORO	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001385 MISC 000000000000000 0025	03/20/96 11/30/95 00063 10.0	BECHTEL NATIONAL INC RAB	PUBLIC INFORMATION MATERIALS FOR 11/30/95 RAB MEETING INCLUDING 10/26/95 RAB MEETING MINUTES AND 30 NOVEMBER 1995 RAB MEETING HANDOUTS	ADMIN RECORD INFO REPOSITORY	RAB MTG MINS PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001449 MISC 000000000000000 0020	04/08/96 11/30/95 00063 10.0	MCAS EL TORO GENERAL PUBLIC	30 NOVEMBER 1995 MCAS EL TORO RESTORATION ADVISORY MEETING AGENDA, MINUTES, HANDOUTS AND MATERIALS FOR PRESENTATIONS, AND PUBLIC NOTICE ANNOUNCING MEETING	ADMIN RECORD INFO REPOSITORY	RAB MTG MINS PUBNOT PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO

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M60050 001409 LTR 000000000000000 0007	03/20/96 01/11/96 00063 10.1	RAB MEMBER L. SIEVERS RAB M. RUDOLPH	RAB MEMBER COMMENTS ON DRAFT FINAL UPDATED COMMUNITY RELATIONS PLAN FOR MCAS TUSTIN AND MCAS EL TORO	ADMIN RECORD INFO REPOSITORY	CRP COMMENTS PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001213 MISC N6871192D4670 0011	01/30/96 01/17/96 0063B 10.5	BECHTEL NATIONAL INC H. MASRI SOUTHWEST DIVISION P. KENNEDY	31 JANUARY 1996 RESTORATION ADVISORY BOARD DRAFT MEETING AGENDA, PROPOSED CHANGES TO RAB; MISSION STATEMENT AND OPERATING PROCEDURES, 1996 SCHEDULE	ADMIN RECORD INFO REPOSITORY	RAB PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001411 LTR 000000000000000 0002	03/25/96 01/18/96 00063 10.1	CITY OF LAKE FOREST R. WOODINGS RAB M. RUDOLPH	CITY OF LAKE FOREST COMMENTS ON DRAFT FINAL UPDATED COMMUNITY RELATIONS PLAN FOR MCAS TUSTIN AND MCAS EL TORO	ADMIN RECORD INFO REPOSITORY	COMMENTS CRP PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001408 LTR 000000000000000 0002	03/20/96 01/22/96 00063 10.1	RAB M. RUDOLPH MCAS EL TORO J. JOYCE	RESTORATION ADVISORY BOARD COMMENTS TO DRAFT FINAL UPDATED COMMUNITY RELATIONS PLAN	ADMIN RECORD INFO REPOSITORY	COMMENTS CRP PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001410 LTR 000000000000000 0004	03/25/96 01/22/96 00063 10.1	RAB MEMBER A. OLQUIN RAB M. RUDOLPH	RAB MEMBER COMMENTS ON DRAFT FINAL UPDATED COMMUNITY RELATIONS PLAN FOR MCAS TUSTIN AND MCAS EL TORO	ADMIN RECORD INFO REPOSITORY	COMMENTS CRP PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001430 MISC 000000000000000 0003	04/03/96 01/24/96 00063 10.0	VARIOUS NEWSPAPERS PUBLIC	PUBLIC NOTICE ANNOUNCING 31 JANUARY RESTORATION ADVISORY BOARD MEETING FOUND IN LA TIMES AND ORANGE COUNTY REGISTER	ADMIN RECORD INFO REPOSITORY	PUBNOT RAB PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001450 MISC 000000000000000 0040	04/08/96 01/31/96 00063 10.0	MCAS EL TORO GENERAL PUBLIC	31 JANUARY 1996 MCAS EL TORO RESTORATION ADVISORY MEETING AGENDA, MINUTES, HANDOUTS AND MATERIALS FOR PRESENTATIONS, AND PUBLIC NOTICE ANNOUNCING MEETING	ADMIN RECORD INFO REPOSITORY	RAB MTG MINS PUBNOT PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001431 MISC 000000000000000 0001	04/03/96 02/21/96 00063 10.0	OC REGISTER PUBLIC	PUBLIC NOTICE ANNOUNCING 28 FEBRUARY RESTORATION ADVISORY BOARD MEETING FOUND IN ORANGE COUNTY REGISTER	ADMIN RECORD INFO REPOSITORY	PUBNOT RAB PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001434 MISC N6871192D4670 0015	04/03/96 02/21/96 0063B 10.0	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION P. KENNEDY	28 FEBRUARY 1996 RESTORATION ADVISORY BOARD MEETING AGENDA AND PUBLIC NOTICE, RAB INSTALLATION RESTORATION PROGRAM TOUR ANNOUNCEMENT AND MAIL LIST ALSO INCLUDED	ADMIN RECORD INFO REPOSITORY	RAB PUBNOT PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO
M60050 001274 MISC N6871192D4670 0015	03/07/96 02/23/96 0063B 10.0	BECHTEL NATIONAL INC D. COWSER SOUTHWEST DIVISION P. KENNEDY	BASEWIDE COMMUNITY RELATIONS SUPPORT - 1/31/96 RESTORATION ADVISORY BOARD MEETING MAILER INCLUDES DRAFT MEETING MINUTES	ADMIN RECORD INFO REPOSITORY	RAB PUB. PARTICIPATI	SOUTHWEST DIVISION MCAS EL TORO

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M60050 001402 MISC 000000000000000 0025	03/20/96 02/27/96 00063 10.0	MCAS EL TORO C. WIEMERT BECHTEL NATIONAL INC B. COLEMAN	DOCUMENTS FOR 23 AND 24 FEBRUARY 1996 MCAS EL TORO RAB TOUR INCLUDES TOUR INFORMATION, PUBLIC NOTICE AND TOWN HALL FLIER	ADMIN RECORD INFO REPOSITORY	RAB PUB. PARTICIPATI	OU1,OU2, OU3,1,2,3, 4,5,6,7,8, 9,10,11,12 13,14,15 16,17,18 19,20,21 24,25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001451 RPT N6871192D4670 0080	04/08/96 03/01/96 00063 10.2	BECHTEL NATIONAL INC A. SCHWARTZ SOUTHWEST DIVISION	FINAL UPDATED COMMUNITY RELATIONS PLAN FOR MCAS EL TORO	ADMIN RECORD INFO REPOSITORY	CRP PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 001432 MISC 000000000000000 0001	04/03/96 03/06/96 00063 10.0	MCAS EL TORO BASE RESIDENTS	FLIER ANNOUNCING A "TOWN HALL MEETING" FOR RESIDENTS OF MCAS EL TORO HELD ON 6 MARCH 1996 TO DISCUSS CLEANUP OF CONTAMINATED SOILS, USTS USING TECHNOLOGIES	ADMIN RECORD INFO REPOSITORY	PUBNOT PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 001524 MISC N6871192D4670 0005	07/03/96 04/25/96 00063 10.0	BECHTEL NATIONAL INC D. CONSER SOUTHWEST DIVISION P. KENNEDY	FINAL MCAS EL TORO FACT SHEET #6, UPDATE ON ENVIRONMENTAL RESTORATION PROGRAM AT MCAS EL TORO	ADMIN RECORD INFO REPOSITORY	FACTSHEET PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 000543 MISC 000000000000000 0005	06/19/96 05/19/96 00063 10.3	MCAS EL TORO J. JOYCE BECHTEL NATIONAL INC B. COLEMAN	PUBLIC NOTICES ANNOUNCING THE APRIL 24, 1996 RESTORATION ADVISORY BOARD MEETING	ADMIN RECORD INFO REPOSITORY	PUBNOT RAB PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 000909 MISC N6871192D4670 0010	07/19/95 05/21/96 0063B 10.0	BECHTEL NATIONAL INC D. CONSER SOUTHWEST DIVISION P. KENNEDY	SITE B BASEWIDE COMMUNITY RELATIONS SUPPORT - 5/29/96 RAB MEETING MAILER INCLUDES DRAFT AGENDA AND MINUTES FROM 24 APRIL 1996 RAB AND PUBLIC NOTICE/MTG ANNOUNCE	ADMIN RECORD INFO REPOSITORY	RAB PUBNOT PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 001504 MISC 000000000000000 0003	06/06/96 05/22/96 00000 10.3	VARIOUS NEWSPAPERS GENERAL PUBLIC	PUBLIC NOTICES APPEARING IN THE ORANGE COUNTY REGISTER IRVINE WORLD NEWS AND LA TIMES ANNOUNCING 29 MAY 1996 RESTORATION ADVISORY BOARD MEETING	ADMIN RECORD INFO REPOSITORY	RAB PUBNOT UST PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 001514 MISC N687192D4670000 0030	07/03/96 05/29/96 0063B 10.0	MCAS EL TORO RAB ATTENDEES	29 MAY 1996 RESTORATION ADVISORY BOARD AGENDA, MINUTES FROM 24 APRIL 1996 RAB MEETING, AND HANDOUTS FROM 29 MAY 1996 RAB MEETING	ADMIN RECORD INFO REPOSITORY	RAB MTG MINS UST PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 001513 MISC N687192D4670000 0010	07/03/96 06/28/96 0063B 10.0	BECHTEL NATIONAL INC J. KLEUSENER SOUTHWEST DIVISION P. KENNEDY	BASEWIDE COMMUNITY RELATIONS SUPPORT - MAILER OF DRAFT MEETING MINUTES FROM 29 MAY 1996 RESTORATION ADVISORY BOARD MEETING, INCLUDES MAILING LIST	ADMIN RECORD INFO REPOSITORY	RAB MTG MINS UST PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO

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M60050 001775 MISC 000000000000000 0001	03/20/97 07/24/96 00000 10.6	ORANGE CO. REGISTER PUBLIC INTEREST	JULY 31, 1996 PUBLIC NOTICE OF MCAS EL TORO AND TUSTIN RAB MEETING	ADMIN RECORD INFO REPOSITORY	PRESS REL RAB OU PUBNOT PUB. PARTICIPATI	13 18	SOUTHWEST DIVISION MCAS EL TORO
M60050 001649 MISC 000000000000000 0003	09/27/96 07/25/96 00000 10.6	LOS ANGELES TIMES ORANGE CO.REG. PUBLIC NOTIFICATION	NEWSPAPER ARTICLES " PUBLIC NOTICE NEWS ADS OF JULY 31, 1996 RAB MEETING"	ADMIN RECORD INFO REPOSITORY	PUBNOT PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 001818 MISC 000000000000000 0001	03/21/97 07/31/96 00000 10.4		RAB MISSION STATEMENT AND OPERATING PROCEDURES	ADMIN RECORD INFO REPOSITORY	RAB PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 001980 MISC 000000000000000 0100	09/18/97 07/31/96 00000 10.3	MCAS EL TORO RAB MEMBERS	PUBLIC INFORMATION MATERIALS FOR JULY 31, 1996, RAB MEETING-AGENDA, HANDOUTS, & MINUTES FROM MAY 29, 1996 RAB MEETING	ADMIN RECORD INFO REPOSITORY	RAB MTG MINS PUB. PARTICIPATI PUBNOT	3 OU 2C 5 OU 2A 24 TANK 398 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001703 MISC 000000000000000 0001	11/13/96 08/26/96 00000 10.6	RAB COMMUNITY CO-CHR M. RUDOLPH ALL RAB MEMBERS	FAXED ANNOUNCEMENT REGARDING FUTURE RAB SUB-COMMITTEE MEETING TO BE HELD ON WEDNESDAY, AUGUST 28, 1996	ADMIN RECORD	RAB PUB. PARTICIPATI		SOUTHWEST DIVISION
M60050 001674 XMTL N6871192D4670 0005	09/30/96 09/20/96 0063B 10.5	BNI SAN DIEGO D. COWSER SOUTHWEST DIVISION R. SELBY	SITE (B) BASEWIDE COMMUNTIY RELATIONS SUPPORT-IR UPDATE AND MAINTENANCE DTE SEPTEMBER 20, 1996	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI	OU1	SOUTHWEST DIVISION MCAS EL TORO
M60050 001983 MISC 000000000000000 0050	09/18/97 09/25/96 00000 10.4	MCAS EL TORO RAB MEMBERS	PUBLIC INFORMATION MATERIALS FOR SEPTEMBER 25, 1996, MEETING-AGENDA, HANDOUTS, & MINUTES OF JULY 31, 1996 RAB MTG., SIGN-IN SHEETS, REV. "BLUE SHEET"	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI PUBNOT MTG MINS TECH/GUID DOC.	TANK 398 OU 1 OU 2A 18 24 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 001727 MM N6871192D4670 0006	11/21/96 11/20/96 0063B 10.4	BECHTEL NATIONAL D. COWSER SOUTHWEST DIVISION R. SELBY	SITE (B) BASEWIDE CRS- RAB MEETING MAILER-REVISED DRAFT RAB MEETING AGENDA FOR 12/4/96 EL RAB MEETING	ADMIN RECORD INFO REPOSITORY	RAB MTG MINS PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 001848 MISC 000000000000000 0156	03/24/97 12/04/96 00000 10.4		DECEMBER 4, 1996 RAB MEETING PUBLIC INFO. MATERIALS INCLDS: MTG. AGENDA, DRP MTG. MIN., MEMBER SIGN-UP SHEET, FACT SHT.#7, EXEC.SUMRY ON DRFT RI OU 3A, ETC.	ADMIN RECORD INFO REPOSITORY	RAB IRP PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO

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PUBLIC PARTICIPATION DOCUMENTS- MCAS EL TORO (SORT BY DOCUMENT DATE)

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO.	PRC.DATE / DOC.DATE / CTO.NO.. / EPA.CAT#	FROM..... / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050	001849	03/24/97	MCAS EL TORO	PUBLIC NOTICES OF DECEMBER 4, 1996 RAB MEETING	ADMIN RECORD	PUBNOT		SOUTHWEST DIVISION
MISC		12/04/96	J. JOYCE	IN LOCAL NEWSPAPERS	INFO REPOSITORY	RAB		MCAS EL TORO
000000000000000		00000	BECHTEL NATIONAL INC			PUB. PARTICIPATI		
0003		10.3	B. COLEMAN					
M60050	001981	09/18/97	MCAS EL TORO	PUBLIC INFORMATION MATERIALS FOR DECEMBER 4, 1996,RAB	ADMIN RECORD	PUB. PARTICIPATI	OU 3A	SOUTHWEST DIVISION
MISC		12/04/96		MEETING-AGENDA, HANDOUTS, & MINUTES OF SEPTEMBER 25,	INFO REPOSITORY	PUBNOT	OU 2B	MCAS EL TORO
000000000000000		00000	RAB MEMBERS	1996, REVISED "BLUE SHEET" FOR 12/4/96 MTG.		MTG MINS	OU 2C	
0075		10.4				RAB	OU 1	
						OU	2	
							17	
							18	
							3	
							5	
							4	
							6	
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							10	
							11	
							12	
							13	
							15	
							16	
							19	
							21	
							21	
							22	
M60050	001850	03/24/97	BECHTEL NATIONAL INC	SITE (B) BASEWIDE COMMUNITY RELATIONS SUPPORT - FINAL	ADMIN RECORD	CLEANUP		SOUTHWEST DIVISION
XMTL		12/12/96	H. MASRI	FACT SHEET NO. 7 (NO. 5 UNDER CLEAN II)	INFO REPOSITORY	PUB. PARTICIPATI		MCAS EL TORO
N6871192D4670		0063B	VARIOUS AGENCIES	WITH ENCLS.				
0056		10.6						
M60050	001762	03/20/97	BECHTEL NATIONAL INC	MARCH 26, 1996, REPLACEMENT PAGES TO FINAL UPDATED	ADMIN RECORD	CRP		SOUTHWEST DIVISION
XMTL		01/10/97	H. MASRI	COMMUNITY RELATIONS PLAN	INFO REPOSITORY	IRP		MCAS EL TORO
N6871192D4670		0063B	SOUTHWEST DIVISION			PUB. PARTICIPATI		
0004		10.2	R. SELBY					
M60050	001854	03/25/97	BECHTEL NATIONAL INC	SITES (B) BASEWIDE COMMUNITY RELATIONS SUPPORT-INCLDS.	ADMIN RECORD	MTG MINS		SOUTHWEST DIVISION
XMTL		01/15/97	D. CONSER	DRAFT RAB MEETING AGENDA, DRAFT PUBLIC NOTICE OF	INFO REPOSITORY	RAB		MCAS EL TORO
N6871192D4670		0063B	RAB MEMEBERS	1/30/97, DRAFT MEETING MINUTES, SIGN-UP SHEET		PUB. PARTICIPATI		
0030		10.4						
M60050	001764	03/20/97		RESTORATION ADVISORY BOARD MEETING	ADMIN RECORD	RAB		SOUTHWEST DIVISION
MISC		01/30/97		W/O ENCL (REF. DOC. #001813 THRU 001822)	INFO REPOSITORY	PUB. PARTICIPATI		MCAS EL TORO
N6871192D4670		00000						
0001		10.4						

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PUBLIC PARTICIPATION DOCUMENTS- MCAS EL TORO (SORT BY DOCUMENT DATE)

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.# OF.PAGES	DOC.NO. / DOC.DATE / CTO.NO.. / EPA.CAT#	PRC.DATE / FROM..... / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 MISC 000000000000000 0001	001813 03/21/97 01/30/97 00000 10.4	MCAS EL TORO RAB	JANUARY 30, 1997, RAB MEETING AGENDA	ADMIN RECORD INFO REPOSITORY	RAB PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 XMTL N6871192D4670 0031	001756 03/20/97 02/06/97 00073 10.4	BECHTEL NATIONAL INC P. BROOKS VARIOUS AGENCIES	JANUARY 30, 1997, MEETING MINUTES	ADMIN RECORD INFO REPOSITORY	MTG MINS BCP CERCLA PUB. PARTICIPATI	2 17 19	SOUTHWEST DIVISION MCAS EL TORO
M60050 XMTL N6871192D4670 0010	001845 03/24/97 03/26/97 0063B 10.1	BECHTEL NATIONAL INC C. CARLISLE VARIOUS AGENCIES	SITES (B) BASEWIDE COMMUNITY RELATIONSHIPS SUPPORT - INCLUDES: MARCH 26, 1997 AGENDA, PUBLIC NOTICE, JANUARY 30, 1997 DRFT MTG. MIN. (RAB MAILER IN CONFID)	ADMIN RECORD INFO REPOSITORY	PUBNOT RAB MTG MINS PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MM 000000000000000 0000	001949 06/06/97 03/28/97 00000 10.4	BECHTEL NATIONAL INC D. TEDALDI SOUTHWEST DIVISION T. MARTIN	PUBLIC INFORMATION MATERIALS- MARCH 28, 1997 RAB MEETING	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI RAB	4 6 9 10 13 15 19 20 21 22 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 PLAN 000000000000000 0008	001925 04/29/97 04/23/97 00000 04.3	BECHTEL NATIONAL INC C. CARLISLE VARIOUS AGENCIES	PROPOSED PLAN FOR OPERABLE UNIT 2A SITE 24 SOIL VADOSE ZONE CLEANUP	ADMIN RECORD INFO REPOSITORY	OU SOIL CLEANUP TECH/GUID DOC. PUB. PARTICIPATI	2A 24 OU 2A	SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0002	001936 05/28/97 05/14/97 00000 10.6	ORANGE CO. REGISTER PUBLIC INTEREST	NEWSPAPER ARTICLE "PUBLIC TO COMMENT ON BASE CLEANUP"	ADMIN RECORD INFO REPOSITORY	PUBNOT CLEANUP COMMENTS PUB. PARTICIPATI		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0001	001975 09/18/97 05/22/97 00000 10.3	ORANGE COUNTY REGIST PUBLIC INTEREST	PUBLIC NOTICE "RAB MEETING FOR MAY 29, 1996"	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI PUBNOT RAB MTG MINS		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0150	001974 09/18/97 05/28/97 00000 10.3	MCAS EL TORO RAB MEMBERS	PUBLIC INFORMATION MATERIALS FOR MAY 28,1997, RAB MEETING-AGENDA, HANDOUTS & DRAFT MEETING MINUTES FROM MARCH 26, 1997 RAB MEETING	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI RAB PUBNOT MTG MINS	24 OU 2A OU 3 OU 2B 2 17 OU 3A 25 15 19	SOUTHWEST DIVISION MCAS EL TORO

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PUBLIC PARTICIPATION DOCUMENTS- MCAS EL TORO (SORT BY DOCUMENT DATE)

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO. / PRC.DATE / DOC.DATE / CTO.NO.. / EPA.CAT#	FROM..... / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050	001974 continued					20 4 6 8 9 10 11 12 13 15 16 19 20 21 22	
M60050 PLAN 000000000000000 0000	001950 06/06/97 06/16/97 00000 01.6	BECHTEL NATIONAL INC D. TEDALDI SOUTHWEST DIVISION T. MARTIN	PROPOSED PLAN MCAS EL TORO NO FURTHER ACTION SITES	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI NFA	4 6 9 10 13 15 19 20 21 22 25	SOUTHWEST DIVISION MCAS EL TORO
M60050 MM 000000000000000 0010	001969 09/18/97 07/31/97 00000 10.4	HAHN BOWERSOCK CORP J. BURGNER MCAS EL TORO	JULY 31, 1997, PUBLIC COMMENT MEETING PROPOSED PLAN FOR ENVIRONMENTAL RESTORATION NO FURTHER ACTION SITES IRP	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI PUBNOT NFA IRP TECH/GUID DOC.		SOUTHWEST DIVISION MCAS EL TORO
M60050 MM 000000000000000 0017	001970 09/18/97 07/31/97 00000 10.4	MCAS EL TORO MEMBERS	JULY 31, 1997, PUBLIC COMMENT MEETING NO FURTHER ACTION SITES HANDOUTS INCLUDES, PUBLIC COMMENT FORMS, MEETING EVALUATION, AND SIGN-UP SHEETS	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI TECH/GUID DOC. COMMENTS NFA		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0001	001971 09/18/97 07/31/97 00000 10.6	ORANGE COUNTY REGIST PUBLIC INTEREST	PUBLIC NOTICE "PRESENTATION AND DISCUSSION MEETING" DATED JULY 31, 1997	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI NFA PUBNOT		SOUTHWEST DIVISION MCAS EL TORO
M60050 MISC 000000000000000 0002	001972 09/18/97 07/31/97 00000 10.6	IRVINE WORLD NEWS PUBLIC INTEREST	NEWSPAPER ARTICLE "MARINES INVITE PUBLIC TO ASK, COMMENT ABOUT CLEANUP OF GROUND CONTAMINATION"	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI COMMENTS CLEANUP PUBNOT	25	SOUTHWEST DIVISION MCAS EL TORO

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UIC No. DOC.NO. DOCUMENT.TYPE... CONTR/GUID..NO.. APPROX.#.OF.PAGES	PRC.DATE DOC.DATE CTO.NO.. EPA.CAT#	FROM..... FROM.SIGNATURE..... TO..... TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
M60050 001979 MISC 000000000000000 0004	09/18/97 07/31/97 00000 10.3	MCAS EL TORO CO BECHTEL NATIONAL INC B. COLEMAN	FAXED COPIES OF VARIOUS NEWS CLIPPINGS: PUBLIC NOTICE DATED JULY 31, 1997 PRESENTATION & DISCUSSION MTG.,IRP PROPOSED PLAN OU 2A-SITE 24,NRA , OU 3A	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI TECH/GUID DOC. OU NFA	OU 2A 24 OU 3A	SOUTHWEST DIVISION MCAS EL TORO
M60050 001973 MISC 000000000000000 0133	09/18/97 08/06/97 00000 10.3	MCAS EL TORO RAB MEMBERS	PUBLIC INFORMATION MATERIALS FOR AUGUST 6, 1997, RAB MEETING-AGENDA, HANDOUTS & DRAFT MEETING MINUTES FROM MAY 28, 1997 RAB MEETING	ADMIN RECORD INFO REPOSITORY	PUB. PARTICIPATI PUBNOT RAB MTG MINS	25 OU 3A 24 OU 2A 4 6 8 9 10 11 12 13 15 16 19 20 21 22	SOUTHWEST DIVISION MCAS EL TORO
M60050 001978 MISC N6871192D4670 0015	09/18/97 09/24/97 0063B 10.4	BECHTEL NATIONAL INC D. TEDALDI VARIOUS AGENCIES	SITE (B) BASEWIDE COMMUNITY RELATIONS SUPPORT RAB MTING MAILER-RAB MTING AGENDA & PUBLIC NOTICE 9/24/97 RAB MTG. MIN. 8/6/97 RAB MTG.(MAILER IN CONFIDTL FILE)	ADMIN RECORD INFO REPOSITORY	CRP RAB MTG MINS TECH/GUID DOC. PUB. PARTICIPATI	24 OU 2A OU 3 OU 3A 25 4 6 9 10 13 15 19 20 21 22 25	SOUTHWEST DIVISION MCAS EL TORO

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These bibliographic citations are considered to be part of this AR but may not be cited separately in the index.

TOTAL RECORDS PRINTED: 94

REPORT SPECIFICATION FOR: RPT442

TITLE: PUBLIC PARTICIPATION DOCUMENTS- MCAS EL TORO (SORT BY DOCUMENT D

FILE: COMBINED Key Info. with Activity File

SELECTION CRITERIA:
(01) Key Words CONTAINS "PUB. PARTICIPATI"
& Key Words CONTAINS ALL "PUB. PARTICIPATI" & UIC.No. IS "M60050 "

SORT CRITERIA:
01 Doc. Date

PAGE BREAK LEVEL:
00 NO PAGEBREAK

TYPE REPORT FORM
PAPER COMBO KEY INFO(master activity rpt form)

This Administrative Record (AR) Index includes references to documents which cite bibliography sources.
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RELEVANT GUIDANCE DOCUMENTS

RELEVANT GUIDANCE DOCUMENTS-OU2A, SITE 24, SOIL CLEANUP, MCAS EL TORO

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO. / DOC.DATE / CTO.NO.. / EPA.CAT#	PRC.DATE / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	FROM.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
COMPDM GUID E 1527 0001	000001	09/16/94	AMERCIAN SOCIETY	STANDARD PRACTICE FOR ENVIRONMENTAL SITE ASSESSMENTS: PHASE I ENVIRONMENTAL SITE ASSESSMENT PROCESS	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION SALTON SEA
COMPDM GUID E 1528-93 0031	000002	11/17/94	AMERICAN SOCIETY	STANDARD PRACTICE FOR ENVIRONMENTAL SITE ASSESSMENTS: TRANSACTION SCREEN PROCESS	COMPENDIUM	TECH/GUID DOC.	1,2,3,4,5 6,7,8,9,10 11,12,13, 14,15,16 17,18,19, 20,21,22 23,24,25	SOUTHWEST DIVISION SALTON SEA
COMPDM GUID TITLE 22 0000	000020	11/21/94		CALIFORNIA CODE OF REGUALTIONS (22 CFR) CHAPTER 14, ARTICLE 7 TITLE 22	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 000000000000000 0000	000021	11/21/94		SARA SECTION 211, CHAPTER 160, PARAGRAPH 2705C	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 000000000000000 0000	000022	11/21/94		CALIFORNIA CODE OF REGULATIONS, TITLE 22, (22 CFR) DIVISION 4.5	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION NASNI SAN DIEGO
COMPDM GUID 000000000000000 0000	000023	11/21/94		RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) AND HAZAROUS AND SOLID WASTE AMENDMENTS OF 1984	COMPENDIUM	GUID RCRA HSWA TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID NIOSH 85-115 0000	000029	11/21/94	NIOSH	OCCUPATIONAL SAFETY AND HEALTH GUIDANCE MANUAL FOR HAZARDOUS WASTE SITE ACTIVITIES	COMPENDIUM	GUID HAZ WASTE TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 29 CFR 1926.65 0000	000030	11/21/94	USDOL/OSHA	CODE OF FEDERAL REGUALTIONS TITLE 29, PART 1926.65	COMPENDIUM	GUID CFR TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 000000000000000 0000	000033	11/21/94		STATE OF CALIFORNIA HEALTH AND SAFETY CODE SECTION 41805.5	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 15 CFR 0000	000034	11/28/94		15 CFR PART 930 SECTION 930.33(b)	COMPENDIUM	CFR TECH/GUID DOC.		SOUTHWEST DIVISION

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RELEVANT GUIDANCE DOCUMENTS-OU2A, SITE 24, SOIL CLEANUP, MCAS EL TORO

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OP.PAGES	DOC.NO. / DOC.DATE / CTO.NO.. / EPA.CAT#	PRC.DATE / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	FROM.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
COMPDM GUID 40 CFR 0000	000035	11/28/94		40 CFR SECTION 146.4	COMPENDIUM	CFR TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 40 CFR 0000	000036	11/28/94		40 CFR SECTION 131.12	COMPENDIUM	CFR TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 000000000000000 0008	000055	11/28/94		VQ1 NCP REQUIREMENTS FOR ARAR'S	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID CONF 8710756 0013	000078	11/28/94		IMPLEMENTATION OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID EPA 540/G87/003 0000	000133	12/15/94	EPA	DATA QUALITY OBJECTIVES FOR REMEDIAL RESPONSE ACTIVITIES 2 PARTS VOL. 1: DEVELOPMENT PROCESS [EPA 540/G87/003] VOL. 2 EXAMPLE SCENARIO [EPA 540/G87/004]	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION NAF EL CENTRO
COMPDM GUID 000000000000000 0000	000277	12/27/94		CALIFORNIA CODE OF REGULATIONS, TITLE 23, DIVISION 3 CHAPTER 15 [DISCHARGES TO WASTE TO LAND] ARTICLE 2, ARTICLE 5, ARTICLE 8	COMPENDIUM	TECH/GUID DOC.		SOUTHWEST DIVISION NAF EL CENTRO
COMPDM GUID PL 95-510 0000	000027	11/21/94 01/01/80		COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT OF 1980	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 000000000000000 0250	000169	12/22/94 01/01/80		EPA NATIONAL OIL AND HAZARDOUS SUBSTANCES POLLUTION CONTINGENCY PLAN UNDER THE CERCLA OF 1980	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 0200	000326	05/15/95 01/01/84	US GEOLOGIAL SURVEY	ELEMENT CONCENTRATIONS IN SOILS AND OTHER SURFICIAL MATERIALS OF THE CONTERMINOUS UNITED STATES US GEOLOGICAL SURVEY PROFESSIONAL PAPER 1270	COMPENDIUM	TECH/GUID DOC.		SALTON SEA
COMPDM GUID 000000000000000 0000	000103	12/01/94 04/01/85	EPA	LABORATORY DATA VALIDATION - FUNCTIONAL GUIDELINES FOR EVALUATING ORGANICS ANALYSIS	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION

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RELEVANT GUIDANCE DOCUMENTS-OU2A, SITE 24, SOIL CLEANUP, MCAS EL TORO

UIC No. DOC.NO. DOCUMENT.TYPE... CONTR/GUID..NO.. APPROX.#.OF.PAGES	PRC.DATE DOC.DATE CTO.NO.. EPA.CAT#	FROM..... FROM.SIGNATURE..... TO..... TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site... ....Location.....
COMPDM 000108 GUID NEESA 20.2-047B 0000	12/01/94 09/01/85	NEESA PORT HUENEME	SAMPLING AND CHEMICAL ANALYSIS QUALITY ASSURANCE REQUIREMENTS FOR THE NAVY INSTALLATION RESTORATION PROGRAM	COMPENDIUM	GUID IRP TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000145 GUID NEESA 20.2-047 0078	12/15/94 09/01/85	NEESA PORT HUENEME	SAMPLING AND CHEMICAL ANALYSIS QUALITY ASSURANCE GUIDE FOR NAVY ASSESSMENT AND CONTROL OF NACIP PROGRAM	COMPENDIUM	GUID TECH/GUID DOC.	SOUTHWEST DIVISION NAF EL CENTRO
COMPDM 000102 GUID 000000000000000 0000	12/01/94 11/01/85	EPA	LABORATORY DATA VALIDATION - FUNCTFIONAL GUIDELINES FOR EVALUATING INORGANICS ANALYSIS	COMPENDIUM	GUID DATA TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000366 GUID 000000000000000 0050	04/04/96 10/17/86		COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT OF 1980 CERCLA AS AMENDED THROUGH PL 99-499	COMPENDIUM	GUID TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000251 MISC P.L.96-510 0300	09/23/96 12/01/86	US SENATE	THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT OF 1980 (SUPERFUND)P.L. 96-510 AS AMENDED BY THE SARA ACT OF 1986 P.L. 99-499	COMPENDIUM	CERCLA HAZ WASTE TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000081 GUID EPA 540G87003 0220	11/28/94 03/01/87	EPA WASHINGTON	DATA QUALITY OBJECTIVES FOR REMEDIAL RESPONSE ACTIVITIES DEVELOPMENT PROCESS	COMPENDIUM	GUID TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000388 GUID PB90272634 0300	04/05/96 03/01/87	EPA WASHINGTON	DATA QUALITY OBJECTIVES FOR REMEDIAL RESPONSE ACTIVITIES EXAMPLE SCENARIO: RI/FS ACTIVITIES AT A SITE WITH CONTAMINATED SOILS & GROUND WATER	COMPENDIUM	GUID DATA TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000057 GUID 000000000000000 0006	11/28/94 08/01/87	EPA	THE NEW SUPERFUND WHAT IT IS, HOW IT WORKS	COMPENDIUM	GUID TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000113 GUID EPA 600887044 0100	12/01/94 08/01/87	EPA	ROLE OF ACUTE TOXICITY BIOASSAYS IN THE REMEDIAL ACTION PROCESS AT HAZARDOUS WASTE SITES (PB88125430)	COMPENDIUM	GUID HAZ WASTE TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000253 MISC 0012	09/23/96 08/01/87	JACOBS ENGINEERING	STANDARD OPERATING PROCEDURE SAMPLE DOCUMENTATION VOL. III, SEC: 30	COMPENDIUM	SOP TECH/GUID DOC.	SOUTHWEST DIVISION

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UIC No. DOC.NO. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	PRC.DATE / DOC.DATE / CTO.NO.. / EPA.CAT#	FROM..... / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
COMPDM 000259 MISC 0009	09/23/96 08/01/87	JACOBS ENGINEERING	STANDARD OPERATING PROCEDURE SOIL GAS SAMPLING VOL:III, SEC: 44	COMPENDIUM	SOP TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM 000109 GUID EPA 540 P870001 0400	12/01/94 12/01/87	EPA WASHINGTON	A COMPENDIUM OF SUPERFUND FIELD OPERATIONS METHODS (PB88181557)	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM 000131 GUID NEESA 20.2-047B 0000	12/15/94 01/01/88	NEESA PORT HUENEME	SAMPLING AND CHEMICAL ANALYSIS QUALITY ASSURANCE REQUIREMENTS FOR THE NAVY IRP REVISED AUGUST.	COMPENDIUM	QA IRP TECH/GUID DOC.		SOUTHWEST DIVISION NAF EL CENTRO
COMPDM 000238 GUID 000000000000000 0000	12/23/94 01/01/88	NEESA PORT HUENEME	SAMPLING AND CHEMICAL ANALYSIS QUALITY ASSURANCE REQUIREMENTS FOR THE NAVY INSTALLATION RESTORATION PROGRAM	COMPENDIUM	QA TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM 000216 GUID 000000000000000 0000	12/22/94 02/01/88	EPA	LABORATORY DATA VALIDATION FUNCTIONAL GUIDELINES FOR EVALUATING ORGANIC ANALYSIS	COMPENDIUM	DATA TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM 000240 RPT EPA540/1-88/001 0157	09/23/96 04/01/88	EPA-OSWER	SUPERFUND EXPOSURE ASSESSMENT MANUAL REF#OSWER DIRECTIVE 9285.5-1	COMPENDIUM	EXPOSURE GW HAZ WASTE TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM 000134 GUID 0000	12/16/94 05/01/88	ATI, INC.	LABORATORY QUALITY ASSURANCE MANUAL	COMPENDIUM	QA TECH/GUID DOC.		SOUTHWEST DIVISION NAF EL CENTRO
COMPDM 000141 GUID NEASSA 202047B 0000	12/15/94 06/01/88	NEESA PORT HUENEME	SAMPLING AND CHEMICAL ANALYSIS QUALITY ASSURANCE REQUIREMENTS FOR THE INSTALLATION RESTORATION PROGRAM	COMPENDIUM	QA TECH/GUID DOC.		SOUTHWEST DIVISION NAF EL CENTRO
COMPDM 000361 GUID 000000000000000 0014	04/04/96 06/23/88	CINPACFLT	DEPARTMENT OF THE NAVY CERCLA/SARA/IR REQUIREMENTS AND PROCEDURES	COMPENDIUM	CERCLA GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM 000215 GUID 000000000000000 0000	12/22/94 07/01/88	EPA	LABORATORY DATA VALIDATION FUNCTIONAL GUIDELINES FOR EVALUATING INORGANIC ANALYSIS	COMPENDIUM	DATA TECH/GUID DOC.		SOUTHWEST DIVISION

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RELEVANT GUIDANCE DOCUMENTS-OU2A, SITE 24, SOIL CLEANUP, MCAS EL TORO

UIC No. DOC.NO. DOCUMENT.TYPE... CONTR/GUID..NO.. APPROX.#.OF.PAGES	PRC.DATE DOC.DATE CTO.NO.. EPA.CAT#	FROM..... FROM.SIGNATURE..... TO..... TO.SIGNATURE.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site... ....Location.....
COMPDM 000175 GUID PB89-184626 0300	12/22/94 10/01/88	EPA WASHINGTON	GUIDANCE FOR CONDUCTING REMEDIAL INVESTIGATIONS AND FEASIBILITY STUDIES UNDER CERCLA, INTERIM FINAL, OFFICE OF EMERGENCY AND REMEDIAL RESPONSE	COMPENDIUM	GUID CERCLA TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000201 GUID PB89184626 0250	12/22/94 10/01/88	EPA WASHINGTON DC	GUIDANCE FOR CONDUCTION REMEDIAL INVESTIGATIONS AND FEASIBILITY STUDIES UNDER CERCLA	COMPENDIUM	GUID RI TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000213 GUID 000000000000000 0000	12/22/94 01/01/89	EPA	EPA RISK ASSESSMENT GUIDANCE FOR SUPERFUND (RAGS). VOLUME I HUMAN HEALTHE EAP/540/1-89/002	COMPENDIUM	RA TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000274 GUID 000000000000000 0000	12/27/94 01/01/89	USEPA	OSWER DIRECTIVE NO. 9200.5-302	ADMIN RECORD COMPENDIUM	TECH/GUID DOC.	SOUTHWEST DIVISION NAP EL CENTRO
COMPDM 000211 GUID 9285.701A 0200	09/20/96 01/07/89	EPA - OSWER	RISK ASSESSMENT GUIDANCE FOR SUPERFUND HUMAN HEALTH EVALUATION MANUAL PART A INTERIM FINAL PRE-PUBLICATION COPY	COMPENDIUM	RISK HA RI FS TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000127 GUID 000000000000000 0000	12/01/94 02/01/89	EPA	METHODS FOR EVALUATING THE ATTAINMENT OF CLEANUP STANDARDS OFFICE OF POLICY, PLANNING AND EVALUATION FEBRUARY, 1989(a)	COMPENDIUM	GUID TECH/GUID DOC.	SOUTHWEST DIVISION NASNI SAN DIEGO
COMPDM 000069 GUID EPA 540189001 0150	11/28/94 03/01/89	EPA WASHINGTON	RISK ASSESSMENT GUIDANCE FOR SUPERFUND VOLUME IIIAL ENVIRONMENTAL EVALUATION MANUAL INTERIM FINAL	COMPENDIUM	GUID RA TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000200 GUID EPA 540189001 0050	12/22/94 03/01/89	EPA WASHINGTON DC	RISK ASSESSMENT GUIDANCE FOR SUPERFUND VOLUME II ENVIRONMENTAL EVALUATION MANUAL INTERIM FINAL	COMPENDIUM	GUID TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000100 GUID 000000000000000 0000	12/01/94 05/01/89	DON	NAVY INSTALLATION RESTORATION (IR) MANUAL	COMPENDIUM	GUID IRP TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000257 RPT PB89-195184 0087	09/23/96 06/01/89	EPA-ORD	STATE OF TECHNOLOGY REVIEW SOIL VAPOR EXTRACTION SYSTEMS EPA/600/2-89/024	COMPENDIUM	SVEI TECH/GUID DOC.	SOUTHWEST DIVISION

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RELEVANT GUIDANCE DOCUMENTS-OU2A, SITE 24, SOIL CLEANUP, MCAS EL TORO

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COMPDM 000336 GUID 9355302 0250	08/18/95 06/01/89	EPA WASHINGTON, D.C.	INTERIM FINAL GUIDANCE ON PREPARING SUPERFUND DECISION DOCUMENTS THE PROPOSED PLAN THE ROD EXPLANATION OF SIGNIFICANT DIFFERENCES THE ROD AMENDMENT	COMPENDIUM	ROD TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM 000194 GUID EPA 540G89007 0150	12/22/94 07/01/89	EPA WASHINGTON DC	GUIDANCE ON PREPARING SUPERFUND DECISION; THE PROPOSED PLAN THE RECORD OF DECISION EXPLANATION OF SIGNIFICANT DIFFERENCES THE ROD AMENDMENT INTERIM FINAL	COMPENDIUM	ROD TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM 000377 GUID 000000000000000 0350	04/05/96 07/01/89	EPA WASHINGTON	GUIDANCE ON PREPARING SUPERFUND DECISION DOCUMENTS; THE PROPOSED PLAN THE RECORD OF DECISION EXPLANTIONS OF SIGNINFICANT DIFFERENCE THE ROD AMENDMENT	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM 000221 GUID EPA 540 G-89009 0150	12/22/94 08/01/89	EPA	CERCLA COMPLICANCE WITH OTHER LAWS MANUAL; PART II CLEAN AIR ACT AND OTHER ENVIRONMENTAL STATUTES & STATE REQUIREMENTS	COMPENDIUM	GUID CERCLA TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM 000338 GUID EPA540G89009 0200	11/30/95 08/01/89	EPA WASHINGTON DC	CERCLA COMPLICANCE WITH OTHER LAWS MANUAL; PART II CLEAN AIR ACT AND OTHER ENVIRONMENTAL STATUES AND STATE REQUIREMENTS	COMPENDIUM	CERCLA CAA TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM 000382 GUID PB90 14861 0400	04/05/96 08/01/89	EPA WASHINGTON	CERCLA COMPLIANCE WITH OTHER LAWS MANUAL; PART II CLEAN AIR ACT AND OTHER ENVIRONMENTAL STATUTES AND STATE REQUIREMENTS	COMPENDIUM	CERCLA TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM 000138 GUID 9QA0389 0000	12/15/94 09/01/89	EPA	GUIDANCE FOR PREPARING QUALITY ASSURANCE PROJECT PLANS FOR SUPERFUND REMEDIAL PROJECTS (REGION 9)	COMPENDIUM	QA TECH/GUID DOC.		SOUTHWEST DIVISION NAF EL CENTRO
COMPDM 000185 GUID 9234202FS 0002	12/22/94 09/01/89	EPA	GUIDE TO MANUAL CERCLA COMPLICANCE WITH OTHER LAWS MANUAL	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM 000182 GUID DIR 9335302FS2 0003	12/22/94 11/01/89	EPA	A GUIDE TO DEVELOPING SUPERFUND PROPOSED PLANS	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM 000352 GUID EPA 540189002 0300	01/10/96 12/01/89	EPA WASHINGTON DC	RISK ASSESSMENT GUIDANCE FOR SUPERFUND VOLUME I HUMAN HEALTH EVALUATION MANUAL (PART A) INTERIM FINAL	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION

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COMPDM GUID 000000000000000 0000	000217 12/22/94 01/01/90	EPA	CONTRACT LABORATORY PROGRAM STATEMENT OF WORK FOR ORGANIC ANALYSES	COMPENDIUM	TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 9285.7-05FS 0008	000041 09/20/96 01/09/90	EPA-OSWER	GUIDANCE FOR DATA USEABILITY IN RISK ASSESSMENT	COMPENDIUM	DATA RISK TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM MISC 9319.0-01FS 0003	000264 09/23/96 02/01/90	EPA- OSWER	THE FINAL NATIONAL CONTINGENCY PLAN: NEW DIRECTIONS FOR SUPERFUND QUICK REFERENCE FACT SHEET	COMPENDIUM	NCP HAZ WASTE TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 000000000000000 0200	000220 12/22/94 03/08/90	EPA	40 CFR PART 300 NATIONAL OIL & HAZARDOUS SUBSTANCES POLLUTION CONTINGENCY PLAN; FINAL RULE PART II EPA	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 000000000000000 0090	000343 12/06/95 03/08/90 GUID 11.2		NATIONAL OIL HAZARDOUS SUBSTANCES POLLUTION CONTINGENCY PLAN U.S. CODE OF FEDERAL REGULATIONS 40 CFR PART 300	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID OSWER 9285.701 0200	000322 05/15/95 04/01/90		RISK ASSESSMENT GUIDANCE FOR SUPERFUND VOLUME I HUMAN HEALTH EVALUTATION MANUAL PART A	COMPENDIUM	TECH/GUID DOC.		SALTON SEA
COMPDM GUID TITLE 22 0650	000344 12/06/95 04/01/90 00000 11.3	STATE OF CALIFORNIA	TITLE 22, DIVISION 4.5 ENVIRONMENTAL HEALTH STANDARDS FOR THE MANAGEMENT OF HAZARDOUS WASTE	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM MISC 9335.3-02FS-2 0003	000263 09/23/96 05/01/90	EPA OSWER	A GUIDE TO DEVELOPING SUPERFUND PROPOSED PLANS QUICK REFERENCE FACT SHEET	COMPENDIUM	GUID CERCLA TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 0011	000442 04/24/97 10/01/90	PHS SANTA ANA	GUIDELINES FOR SITE INVESTIGATIONS AND MITIGATION	ADMIN RECORD	GUID SI TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 5090.1A 0450	000288 01/04/95 10/02/90	DON	ENVIRONMENTAL AND NATURAL RESOURCES PROGRAM MANUAL OPNAVINST 5090.1A	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION

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UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO. / DOC.DATE / CTO.NO.. / EPA.CAT#	PRC.DATE / FROM.SIGNATURE..... / TO..... / TO.SIGNATURE.....	FROM.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
COMPDM GUID 92005008I 0001	000153	12/15/94 11/01/90	EPA	SUPERFUND BLUEPRINT	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 92005008K 0001	000154	12/15/94 11/01/90	EPA	SUPERFUND TECHNOLOGY	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM RPT 92005008D 0001	000155	12/15/94 11/01/90	EPA	SUPERFUND: FACT vs. FICTION	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 92005008C 0001	000156	12/15/94 11/01/90	EPA	THE SUPERFUND CLEANUP PROCESS	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM RPT 92005008B 0001	000157	12/15/94 11/01/90	EPA	HISTORY OF SUPERFUND	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID OSWER 9833JA1 0400	000120	12/01/94 12/03/90	EPA WASHINGTON	FINAL GUIDANCE ON ADMINISTRATIVE RECORDS FOR SELECTING CERCLA RESPONSE ACTIONS	COMPENDIUM	GUID CERCLA TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID DIR 9200311 0085	000195	12/22/94 12/27/90	EPA WASHINGTON DC	FINAL POLICY ON SETTING RI/FS PRIORITIES	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID EPA540P91002 0150	000066	11/28/94 01/01/91	EPA WASHINGTON	USER'S GUIDE TO THE CONTRACT LABORATORY PROGRAM	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 5090.1A 0100	000219	12/22/94 01/17/91	COMNAVBASE	COMNAVBASESANDIEGO REGIONAL OIL & HAZARDOUS SUBSTANCE POLLUTION CONTINGENCY PLAN	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 9355302FS3 0006	000149	12/15/94 04/01/91	EPA	GUIDE TO DEVELOPING SUPERFUND NO ACTION, INTERIM ACTION AND CONTINGENCY REMEDY RODs	COMPENDIUM	GUID ROD TECH/GUID DOC.		SOUTHWEST DIVISION

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RELEVANT GUIDANCE DOCUMENTS-OU2A, SITE 24, SOIL CLEANUP, MCAS EL TORO

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COMPDM 000420 MEMO 000000000000000 0004	12/23/96 04/16/91	EPA-OERW	LDR APPLICABILITY FOR INVESTIGATIVE DERIVED WASTE	COMPENDIUM	INVESTIGATION TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000072 GUID OERR 9345.3-02 0000	11/20/94 05/01/91	U.S. EPA	OFFICE OF EMERGENCY AND REMEDIAL RESPONSE (OERR) DIRECTIVE 9345.3-02 MANAGEMENT OF INVESTIGATION-DERIVED WASTES DURING SITE INSPECTIONS	COMPENDIUM	GUID TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000228 GUID 000000000000000 0002	12/22/94 10/25/91	NOAA	HABITAT PROTECTION POLICY (ADOPTED JUNE 8, 1978)	COMPENDIUM	GUID TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000199 GUID EPA 540R92003 0085	12/22/94 12/01/91	EPA WASHINGTON DC	RISK ASSESSMENT GUIDANCE FOR SUPERFUND: VOLUME I HUMAN HEALTH EVALUATION MANUAL (PART B, DEVELOPMENT OF RISK-BASED PRELIMINAY REMEDIATION GOALS) INTERIM	COMPENDIUM	GUID TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000354 GUID EPA 540R92004 0075	01/10/96 12/01/91	EPA WASHINGTON DC	RISK ASSESSMENT GUDIANCE FOR SUPERFUND: VOLUME I HUMAN HEALTH EVALUATION MANUAL (PART C, RISK EVALUATION OF REMEDIAL ALTERNATIVES) INTERIM	COMPENDIUM	GUID TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000166 GUID EPA 540R92009 0250	12/22/94 01/01/92	EPA WASHINGTON DC	COMMUNITY REALTIONS IN SUPERFUND: A HANDBOOK PB92-963341	COMPENDIUM	GUID TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000248 PLAN 9200.2-14 0500	09/23/96 01/01/92	EPA-OERR	NATIONAL OIL AND HAZARDOUS SUBSTANCES POLLUTION CONTROL PLAN (THE NCP) WITH 1988 AND 1990 PREAMBLES	COMPENDIUM	NCP HAZ WASTE RSE SI RA RI FS TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000043 RPT 9285.7-06FS 0008	09/20/96 01/07/92	EPA-OSWER	UNDERSTANDING SUPERFUND RISK ASSESSMENT	COMPENDIUM	RISK EXPOSURE TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000125 MISC 9230.0-05FSB 0006	09/20/96 01/09/92	EPA- OSWER	SUPERFUND FACT SHEET: EXPOSURE PATHWAYS QUICK REFERENCE FACT SHEET	COMPENDIUM	HAZMAT EXPOSURE TECH/GUID DOC.	SOUTHWEST DIVISION

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RELEVANT GUIDANCE DOCUMENTS-OU2A, SITE 24, SOIL CLEANUP, MCAS EL TORO

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COMPDM MISC 9230.0-05FSH 0003	000135	09/20/96 01/09/92	EPA - OSWER	SUPERFUND FACT SHEET: AN OVERVIEW QUICK REFERENCE FACT SHEET	COMPENDIUM	HAZ WASTE PA SI REMOVAL TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM MISC 9230.0-05FSK 0004	000147	09/20/96 01/09/92	EPA -OSWER	SUPERFUND FACT SHEET: IDENTIFYING SITES QUICK REFERENCE FACT SHEET	COMPENDIUM	HAZ WASTE NPL TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM MISC 9203.1-021 0001	000115	09/20/96 01/11/92	EPA-OSWER	THE SUPERFUND ACCELERATED CLEANUP MODEL (SACM) INTERMITTENT BULLETIN VOL.1 NO.4	COMPENDIUM	HAZ WASTE TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 000000000000000 0000	000019	11/21/94 02/01/92		NAVY INSTALLATION RESTORATION PROGRAM MANUAL	COMPENDIUM	GUID IRP TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 5090.2 0000	000031	11/21/94 02/01/92	DEPARTMENT OF NAVY	NAVY/MARINE CORPS INSTALLATION RESTORATION MANUAL	COMPENDIUM	GUID IRP TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 0060	000441	04/24/97 03/01/92	STATE OF CALIFORNIA	HEALTH RISK ASSESSMENT PROGRAM, VERSION 1.1: OPERATING INSTRUCTIONS - AIR RESOURCES BOARD AND OFFICE OF ENVIRONMENTAL HAZARD ASSESSMENT	ADMIN RECORD	GUID HRA TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 9285.7-09FS 0008	000265	09/23/96 06/01/92	EPA-OWSER	GUIDANCE FOR DATA USEABILITY IN RISK ASSESSMENT QUICK REFERENCE FACT SHEET	COMPENDIUM	GUID RA DATA TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 000000000000000 0008	000172	12/22/94 07/01/92	EPA	CALIFORNIA EPA CRITERIA FOR CARCINOGENS	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM MISC 9230.0-05FSI 0004	000210	09/23/96 09/01/92	EPA-OSWER	SUPERFUND FACT SHEET: PCBS QUICK REFERENCE FACT SHEET	COMPENDIUM	PCB HAZ WASTE ATSDR TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 000000000000000 0200	000313	05/12/95 10/01/92	EPA SAN FRANCISCO	GUIDANCE ON CONDUCTING NON-TIME CRITICAL REMOVAL ACTION UNDER CERCLA	COMPENDIUM	RA TECH/GUID DOC.		NTC SAN DIEGO

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COMPDM 000421 DATA 000000000000000 0060	12/23/96 01/12/93	EPA-OERW	DRAFT PRELIMINARY ENDANGERMENT ASSESSMENT GUIDANCE MANUAL	COMPENDIUM	ASSESSMENT TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000330 GUID 0100	05/15/95 02/01/93	US AIR FORCE	NFRAP GUIDE: MAKING, DOCUMENTATION, AND EVALUATING NO FURTHER ACTION PLANNED DECISIONS. FINAL DRAFT	COMPENDIUM	TECH/GUID DOC.	SALTON SEA
COMPDM 000371 GUID 000000000000000 0500	04/05/96 07/01/93	EPA	CODE OF FEDERAL REGULATIONS 40 PARTS 300 TO 399	COMPENDIUM	GUID TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000018 GUID 9360.0-32 0068	11/21/94 08/01/93	EPA	GUIDANCE ON CONDUCTING NON-TIME-CRITICAL REMOVAL ACTIONS UNDER CERCLA (EPA 540-R-93-057)	COMPENDIUM	GUID CERCLA REMOVAL TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000242 MISC EPA540/R-93/071 0004	09/23/96 09/01/93	EPA-OSWER	DATA QUALITY OBJECTIVES PROCESS FOR SUPERFUND QUICK REFERENCE FACT SHEET REFER: PUBLICATION 9355.9-01 FS	COMPENDIUM	DQOP TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000262 MISC 9345.4-03PS 0008	09/23/96 09/01/93	EPA OSWER	SITE ASSESSMENT: EVALUATING RISK AT SUPERFUND SITES QUICK REFERENCE FACT SHEET	COMPENDIUM	SA RISK CERCLA TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000401 GUID EPA 540 G91009 0100	04/05/96 09/01/93	EPA WASHINGTON	MANAGEMENT OF INVESIGATION DERIVED WASTES DURING SITE INSPECTIONS	COMPENDIUM	GUID TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000404 GUID 000000000000000 0050	04/05/96 09/15/93	BECHTEL NATIONAL INC	QUALITY ASSURANCE PROJECT PLAN	COMPENDIUM	GUID TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000317 GUID 000000000000000 0200	05/12/95 10/01/93	DOD	BRAC CLEANUP PLAN (BCP) GUIDEBOOK: IMPLEMENTING PRESIDENT CLINTON'S DECISION TO PROMOTE EARLY REUSE OF CLOSING BASES BY EXPENDITING ENVIRONMENTAL CLEANUP	COMPENDIUM	BRAC TECH/GUID DOC.	NTC SAN DIEGO SALTON SEA
COMPDM 000224 GUID 000000000000000 0030	12/22/94 11/01/93	EPA SAN FRANCISCO	REGION IX PRELIMINARY REMEDIATION GOALS (PRGs) FOURTH QUARTER 1993	COMPENDIUM	GUID TECH/GUID DOC.	SOUTHWEST DIVISION

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COMPDM 000406 GUID 000000000000000 0150	04/05/96 01/07/94	BECHTEL NATIONAL INC	PROGRAM HEALTH AND SAFETY PLAN	COMPENDIUM	H&SP GUID TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000051 GUID 000000000000000 0002	11/28/94 03/01/94	EPA REGION IX	THE PROPOSED "NEW" SUPERFUND FASTER, FAIRER, MORE EFFICIENT	COMPENDIUM	GUID TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000223 GUID 000000000000000 0011	12/22/94 04/19/94	EPA WASHINGTON DC	MILITARY BASE CLOSURES; GUIDANCE ON EPA CONCURRENCE IN THE IDENTIFICATION OF UNCONTAMINATED PARCELS UNDER CERCLA SECTION 120(h)	COMPENDIUM	GUID CERCLA TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000053 GUID 000000000000000 0004	11/28/94 06/01/94	EPA REGION IX	ADDENDUM A FASTER, FAIRER, MORE EFFICIENT SUPERFUND ADVANCES IN CONGRESS	COMPENDIUM	GUID TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000307 GUID 000000000000000 0015	05/12/95 06/01/94	DOD	FINDINGS OF SUITABILITY TO TRANSFER FOR BRAC PROPERTY	COMPENDIUM	FOST TECH/GUID DOC.	NTC SAN DIEGO
COMPDM 000416 GUID 000000000000000 0009	12/23/96 06/01/94	DOD	DEFENSE ENVIRONMENTAL CLEANUP PROGRAM FACT SHEET THE RELATIVE RISK SITE EVALUATION CONCEPT	COMPENDIUM	CLEANUP RISK EVALUATION TECH/GUID DOC.	SOUTHWEST DIVISION
COMPDM 000334 GUID E094002PP 0200	05/15/95 07/01/94	CAL EPA DTSC	PUBLIC PARTICIPATION POLICY AND PROCEDURES MANUAL	COMPENDIUM	TECH/GUID DOC.	SALTON SEA
COMPDM 000300 GUID 000000000000000 0047	01/27/95 08/01/94	DTSC	CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL GUIDANCE FOR ECOLOGICAL RISK ASSESSMENT AT HAZARDOUS WASTE SITES AND PERMITTED FACIILITIES PARTS "A" & "B"	COMPENDIUM	TECH/GUID DOC.	SALTON SEA
COMPDM 000332 GUID 0100	05/15/95 08/01/94	EPA	REGION IX PRELIMINARY REMEDIATION GOALS (PRG) SECOND HALF 1994	COMPENDIUM	PRG TECH/GUID DOC.	SALTON SEA
COMPDM 000333 GUID EPA QA/G4D 0100	05/15/95 08/01/94	EPA	DATA QUALITY OBJECTIVES DECISION ERROR FEASIBILITY TRAILS (DQO/DEFT) USER'S GUIDE VERSION 4.0	COMPENDIUM	TECH/GUID DOC.	SALTON SEA

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RELEVANT GUIDANCE DOCUMENTS-OU2A, SITE 24, SOIL CLEANUP, MCAS EL TORO

UIC No. / DOCUMENT.TYPE... / CONTR/GUID..NO.. / APPROX.#.OF.PAGES	DOC.NO. / DOC.DATE / CTO.NO.. / EPA.CAT#	PRC.DATE / FROM.SIGNATURE..... / TO.SIGNATURE.....	FROM..... / TO.....	.....SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...	....Location.....
COMPDM GUID 000000000000000 0051	000267	12/27/94 09/07/94	DTSC SACRAMENTO	DRAFT GUIDANCE FOR ECOLOGICAL RISK ASSESSMENT AT HAZARDOUS WASTE SITES AND PERMITTED FACILITIES PART A: OVERVIEW AUGUST 1994 & PART B: SCOPING ASSESSMENT	COMPENDIUM	GUID HAZ WASTE TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 5090.1B 0450	000289	01/04/95 11/01/94	DON	ENVIRONMENTAL AND NATURAL RESOURCES PROGRAM MANUAL OPNAVINST 5090.1B	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID EPA 540R94083 0026	000112	12/01/94 12/01/94	EPA WASHINGTON	LABORATORY DATA VALIDATION FUNCTIONAL GUIDLINES FOR EVALUATING INORGANICS ANALYSIS	COMPENDIUM	GUID DATA TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 000000000000000 0037	000357	02/28/96 02/01/95	USEPA	USEPA REGION IX PRELIMINARY REMEDIATION GOALS	COMPENDIUM	CERCLA TECH/GUID DOC.		SOUTHWEST DIVISION NTC SAN DIEGO
COMPDM LTR 0007	000449	04/24/97 10/13/95	DON	ENVIRONMENTAL REQUIREMENTS FOR FEDERAL AGENCY TO AGENCY PROPERTY TRANSFER AT BRAC INSTALLATIONS	ADMIN RECORD	GUID BRAC TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 000000000000000 0150	000409	04/05/96 02/01/96	NFESC PORT HUNEMEN	NAVY INSTALLATION RESTORATION LABORATORY QUALITY ASSURANCE GUIDE ITERIM GUIDANCE DOCUMENT	COMPENDIUM	GUID TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM GUID 0200	000439	04/24/97 07/01/96	DOD	RELATIVE RISK SITE EVALUATION PRIMER	ADMIN RECORD	GUID RISK SI TECH/GUID DOC.		SOUTHWEST DIVISION
COMPDM LTR 0003	000440	04/24/97 10/14/96	ERM-WEST, INC.	FACT SHEET DESCRIBING USEPA'S NEW CANCER RISK GUIDELINES AND THEIR POTENTIAL IMPACT ON SITE CLEANUPS	ADMIN RECORD	GUID CANCER CLEANUP TECH/GUID DOC.		SOUTHWEST DIVISION

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TOTAL RECORDS PRINTED: 127

REPORT SPECIFICATION FOR: RPT440

TITLE: RELEVANT GUIDANCE DOCUMENTS-OU2A, SITE 24, SOIL CLEANUP, MCAS EL

FILE: COMBINED Key Info. with Activity File

SELECTION CRITERIA:
[01] Key Words CONTAINS "TECH/GUID DOC." & UIC.No. IS "COMPDM "

SORT CRITERIA:
01 Doc. Date

PAGE BREAK LEVEL:
00 NO PAGEBREAK

TYPE REPORT FORM
PAPER COMBO KEY INFO(master activity rpt form)

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