

FINAL

**RECORD OF DECISION/REMEDIAL ACTION PLAN
INSTALLATION RESTORATION PROGRAM
SITES 11, 12, AND 13
FORMER LONG BEACH NAVAL SHIPYARD
LONG BEACH, CALIFORNIA**

August 2006

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DECLARATION FOR THE RECORD OF DECISION

Site Name and Location

Installation Restoration (IR) Sites 11, 12, and 13 are located at the former Long Beach Naval Complex (LBNC), Los Angeles County, California. IR Site 11 is located within Operable Unit (OU)-5 at the LBNC in the former Long Beach Naval Shipyard (LBNSY). IR Sites 12 and 13 are located within OU-4 in the former LBNSY. The Navy Unit Identification Code (UIC) number for the Naval Shipyard is N60258, and the Federal Facility ID is CA9170023190. A parcel of real property encompassing IR Sites 11, 12, and 13 reverted to the City of Long Beach in 1998.

Statement of Basis and Purpose

This decision document presents the United States Department of the Navy's (DON's) selected remedy for IR Sites 11, 12, and 13. The remedy was selected 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 (SARA), and in accordance with the process in the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) (40 Code of Federal Regulations [CFR] Part 300). It is consistent with the authority of the Defense Environmental Restoration Program (DERP).

The remedy was selected based on the information in the administrative record for the LBNC. The primary documents used as the basis for this decision are the *Final Remedial Investigation (RI) Report, Installation Restoration Program for Sites 8 through 13, Long Beach Naval Shipyard, Long Beach, California* (Bechtel National, Inc. [BNI], 1997); the *Final Feasibility Study for Installation Restoration Sites 8, 10, and 11, Long Beach Naval Complex, Long Beach, California* (Battelle, 2001); and the *Final Feasibility Study Report Installation Restoration Program Sites 9, 12, and 13, Former Long Beach Naval Shipyard, Long Beach, California* (BNI, 2001).

Base Realignment and Closure (BRAC) Program Management Office (PMO) West is issuing this Record of Decision (ROD). The DON, with state regulatory oversight, is the lead federal agency for IR site activities. As the lead federal agency, the DON has the final decision-making authority over the remedy selections and over public participation activities.

The DON is working in cooperation with the California Department of Toxic Substances Control (DTSC); the California Regional Water Quality Control Board, Los Angeles Region (RWQCB) in accordance with the Federal Facility Site Remediation Agreement (FFSRA) (SWDIV, 2000b); and the United States Environmental Protection Agency (U.S. EPA) in implementing this remedy. As established by United States Department of Defense policy (DoD, 1997), this decision was coordinated with the Base Realignment and Closure (BRAC) Cleanup Team (BCT). The BCT consists of remedial project managers (RPMs) representing the DON, RWQCB, U.S. EPA, and DTSC. The RWQCB, DTSC, and U.S. EPA all agree with the selected remedy for IR Sites 11, 12, and 13 as outlined in this ROD.

Assessment of the Sites

Hazardous substances at IR Sites 11, 12, and 13, if not addressed by implementing the remedial action selected in this ROD, may endanger public health and welfare and the environment.

Description of the Selected Remedy

This ROD addresses soil and groundwater contamination at IR Sites 11, 12, and 13. The City of Long Beach, CA, Local Redevelopment Authority (LRA) developed a Reuse Plan (City of Long Beach, 1995), which designates the former LBNC for port-related and industrial use.

The results of sampling and testing show that, under an industrial exposure scenario, soil and groundwater at IR Site 11 do not pose a threat to the environment or to human health. The remedy for IR Site 11 is to use institutional controls in the form of land use covenants (LUCs) to maintain port-related and industrial land use and to prevent unauthorized disturbance of soil and groundwater. In addition, groundwater monitoring will be performed to monitor whether groundwater contaminants in excess of California Ocean Plan limits (State of California Water Resources Control Board [SWRCB], 2001) are migrating to surface waters. Details such as sampling location and frequency, chemical analyses, and data quality objectives of the groundwater monitoring program will be developed during the remedial design/remedial action (RD/RA) phase.

The results of sampling and testing show that, under an industrial exposure scenario, direct exposure to soil at IR Site 12 could pose some risk to industrial workers. Thus, in addition to LUCs applied to IR Sites 12 and 13 to maintain port-related and industrial land use and to prevent disturbance of soil and groundwater, the remedy for IR Site 12 includes maintenance of pavement and other surface improvements made by the Port of Long Beach at IR Site 12 in order to prevent human exposure. The RD/RA Work Plan will include a description of how the remedy will be implemented to maintain protectiveness and meet requirements of the RAOs. In addition, groundwater monitoring will be performed to monitor whether groundwater contaminants in excess of California Ocean Plan limits (SWRCB, 2001) or other risk-based criteria are migrating to surface waters. Details such as sampling location and frequency, chemical analyses, and data quality objectives of the groundwater monitoring program will be developed during the RD/RA phase.

The comparison values for metals in soil were their calculated background threshold concentrations, which were determined during the RI (BNI, 1997). The comparison values for organics were the U.S. EPA preliminary remediation goals (PRGs) for industrial land use (U.S. EPA, 1995a). Because contaminants in concentrations that exceed risk-based criteria for protection of human health and the environment will be left in place at IR Sites 11, 12, and 13, without further analysis, these sites cannot be considered suitable for residential or other sensitive uses.

IR Sites 11, 12, and 13 are located within the Terminal Island Planning District of the Port of Long Beach, and are subject to the Port Master Plan for the Long Beach Harbor District (Port of Long Beach, 1999). The Port Master Plan permits uses of these sites as “primary port facilities” and eight other uses, none of which include residential or other sensitive uses. Any use not currently permitted would require an amendment to the Port Master Plan.

Chapter 8 of the California Coastal Act requires that any amendment to the Port Master Plan be approved by the California Coastal Commission, which would be expected to deny approval on the basis that it would not be consistent with the intent of the Act. Furthermore, the Tidelands Trust grant of harbor lands to the City of Long Beach prohibits residential development.

The Reuse Plan (City of Long Beach, 1995) designates the former LBNC for port-related and industrial use. Because IR Sites 11, 12, and 13 will be used by the Port of Long Beach for port purposes only, the human health risk assessment (HHRA) in the RI (BNI, 1997) assumed an industrial exposure scenario for the sites. The excess lifetime cancer risks (ELCRs) calculated in the HHRA for both industrial workers and utility maintenance workers at IR Site 11 are either below or within the U.S. EPA's acceptable range of 1×10^{-6} to 1×10^{-4} for managing cancer risks at sites where industrial scenarios apply. The DON has adopted the upper limit of U.S. EPA's acceptable risk, 10^{-4} , as the acceptable level of cancer risk for exposures at IR Sites 11, 12, and 13. Thus, the ELCRs for industrial and utility maintenance workers at IR Site 11 are below the DON's acceptable limit of 1×10^{-4} .

The ELCR calculated in the HHRA for industrial workers at IR Site 12, assuming the site was unpaved, was 3.9×10^{-4} , which exceeds the U.S. EPA's acceptable range of 1×10^{-6} to 1×10^{-4} and the DON's acceptable limit of 1×10^{-4} . The ELCR calculated for the utility maintenance worker at IR Site 12 was 4.8×10^{-5} , and the ELCRs calculated for industrial workers and utility maintenance workers at IR Sites 12 and 13 were 3.1×10^{-5} and 1.8×10^{-6} , respectively, which are within the U.S. EPA's acceptable range of 1×10^{-6} to 1×10^{-4} for managing cancer risks at sites where industrial scenarios apply.

The hazard indices for non-cancer health effects calculated in the HHRA are less than 1 for both industrial workers and utility maintenance workers at all of the sites. These non-cancer health risks fall within the U.S. EPA's index value of 0 to 1 and, therefore, are acceptable non-cancer health effects (U.S. EPA, 1989a). Controls in the form of LUCs will limit IR Sites 11, 12, and 13 to port-related and industrial uses and prohibit sensitive uses.

For industrial land use, both the HHRA and soil and groundwater analyses in the RI showed that there are no risks to human health and the environment present by the current levels of contaminants associated with IR Site 11. Moreover, leaching analysis showed that leaching of contaminants into groundwater from IR Site 11 would not lead to concentrations of contaminants that would exceed California Ocean Plan limits (SWRCB, 2001).

Because analyses showed that IR Site 11 posed no threat to the environment or to public health under an industrial use scenario, remedial action objectives (RAOs) for this site are based on maintaining port-related and industrial use of the site and preventing migration of contaminants in excess of California Ocean Plan limits to surface waters (SWRCB, 2001). The LUCs selected for IR Site 11 are consistent with the Reuse Plan of the City of Long Beach (City of Long Beach, 1995).

The HHRA in the RI showed that industrial workers, if not protected from contaminants in soil at IR Site 12, could experience excess cancer risk. The redevelopment of IR Sites 12 and 13 by

the City of Long Beach included the construction of roadways, parking areas, and planters to support parking and access to new administrative buildings. Thus, most of IR Sites 12 and 13 are currently paved or otherwise covered. As part of the remediation for IR Site 12, controls in the forms of LUCs will ensure that the current cover over IR Site 12 is maintained and will prevent future unauthorized disturbance of soils at the sites. The RD/RA Work Plan will include a description of how the remedy will be implemented to maintain protectiveness and meet requirements of the RAOs.

Groundwater analyses for IR Sites 12 and 13 showed several small plumes in which arsenic exceeded its risk-based criterion. Leaching analysis showed that leaching of contaminants into groundwater from the sites would not lead to contaminant concentrations exceeding California Ocean Plan limits (SWRCB, 2001) at points of entry to surface waters. However, because arsenic in groundwater at IR Sites 12 and 13 currently exceeds its risk-based criterion for protection of human health and the environment, the groundwater at the sites may pose some risk if it is extracted for use or otherwise reaches surface waters. As part of the remediation for these sites, controls in the forms of LUCs will prevent future unauthorized disturbance or use of groundwater at the sites. In addition, groundwater monitoring will ensure that contaminants left in place in the groundwater at both IR Site 11 and IR Sites 12 and 13 do not migrate to surface waters at concentrations in excess of California Ocean Plan limits (SWRCB, 2001).

Regional Board Resolution No. 98-18, adopted November 2, 1998, by the Los Angeles Regional Water Quality Control Board, modified the regulatory provisions of the Water Quality Control Plan for the Los Angeles Region (the Basin Plan) (RWQCB, 1975) by removing the municipal and domestic use (MUN) beneficial use designation from the aquifers underlying Terminal Island, which includes the former LBNC. The Basin Plan retains beneficial uses of industrial process supply (PROC), industrial service supply (IND), and agricultural supply (AGR) for the underlying groundwater (RWQCB, 1994). The California Office of Administrative Law approved the Resolution by their Notice of Approval dated February 9, 2000.

The rationale for selecting institutional controls in the form of LUCs for IR Sites 11, 12, and 13 is to maintain an industrial scenario. The LUCs serve to prevent future land and groundwater use at the sites that would pose a risk to human health.

Property containing IR Sites 11, 12, and 13 reverted to the City of Long Beach in August 1998. Associated with the reversion of the property is a Covenant to Restrict Use of Property (Covenant). This Covenant contains environmental restrictions and serves as a mechanism to implement the institutional control use restrictions set forth in Section 12.0 of the ROD in accordance with DON policy. The Covenant was finalized and executed on May 14, 2004, and recorded on July 9, 2004.

Remedial Action Plan

The California Health and Safety Code (HSC), Section 25356.1 Remedial Action Plan (RAP) requirements have been incorporated into this ROD to fulfill state requirements. A copy of the California HSC, Section 25356.1 is included in this ROD as Appendix A.

Statutory Determinations

The selected remedy is protective of human health and the environment, complies with federal and state requirements that are applicable or relevant and appropriate to the remedial action, is cost-effective, and uses permanent solutions and alternative treatment technologies to the maximum extent practicable.

Because this remedy will result in contaminants remaining on site above levels that allow for unlimited use and unrestricted exposure, a statutory review will be conducted within five years after initiation of the remedial action and no less often than every five years thereafter to ensure that the remedy is, or continues to be, protective of human health and the environment.

ROD Data Certification Checklist

The following information is included in the Decision Summary section of this ROD/RAP:

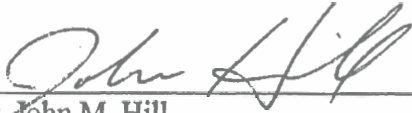
- Contaminants of potential concern (COPCs) and their respective concentrations, Section 5;
- Baseline risk represented by the contaminants of concern (COCs), Section 7;
- Remediation goals established for COCs and the bases for these goals, Section 8;
- How source materials constituting principal threats are addressed, Section 8;
- Current and reasonably anticipated future land use assumptions and current and potential future beneficial uses of groundwater used in the baseline risk assessment and ROD/RAP, Sections 6 and 7;
- Potential land and groundwater use that will be available at the site as a result of the selected remedy, Section 6;
- Estimated capital, annual operation and maintenance, total present worth costs, and the number of years over which the remedy cost estimates are projected, Section 10;
- Key factors that led to selecting the remedy, Sections 8, 9, and 10.

Additional information can be found in the administrative record file for this site.

FOR THE UNITED STATES DEPARTMENT OF THE NAVY
BASE REALIGNMENT AND CLOSURE
PROGRAM MANAGEMENT OFFICE WEST, SAN DIEGO:

2006 SEP 10 AM 10:11

CALIFORNIA REGIONAL WATER
QUALITY CONTROL BOARD
LOS ANGELES REGION



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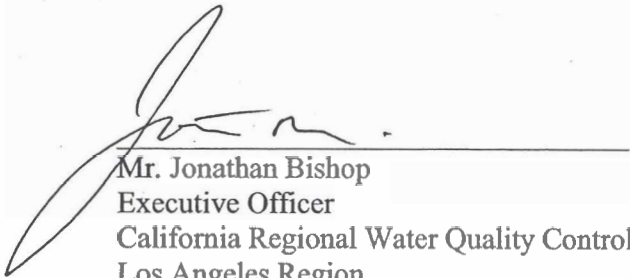
8-21-06
Date

FOR THE STATE OF CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY:



Mr. John E. Scandura, Chief
Department of Toxic Substances Control
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9/18/06
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Mr. Jonathan Bishop
Executive Officer
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10/10/06
Date

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ACRONYMS AND ABBREVIATIONS

AGR	Agricultural Supply
AOC	area of concern
AOPC	area of potential concern
APCD	Air Pollution Control District
ARAR	applicable or relevant and appropriate requirement
ARCO	Atlantic Richfield Company
BCP	BRAC Cleanup Plan
BCT	BRAC Cleanup Team
bgs	below ground surface
BNI	Bechtel National, Inc.
BRAC	Base Realignment and Closure (Act of 1990)
CAA	Clean Air Act of 1970
CCR	California Code of Regulations
CDI	chronic daily intake
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR	Code of Federal Regulations
COC	contaminant of concern
COPC	contaminant of potential concern
Covenant	Covenant to Restrict Use of Property
CPT	cone penetration test
Cr ⁺³	trivalent chromium
Cr ⁺⁶	hexavalent chromium
CRP	community relations plan
CZMA	Coastal Zone Management Act
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
DERP	Defense Environmental Restoration Program
DoD	(United States) Department of Defense
DON	(United States) Department of the Navy
DOT	(United States) Department of Transportation
DRMO	Defense Reutilization Marketing Office
DTSC	(California) Department of Toxic Substances Control
DWR	(State of California) Department of Water Resources
ELCR	excess lifetime cancer risk

FEMA	Federal Emergency Management Agency
FFSRA	Federal Facility Site Remediation Agreement
FS	Feasibility Study
HCH	hexachlorocyclohexane
HHRA	human health risk assessment
HI	hazard index
HQ	hazard quotient
HSC	(California) Health and Safety Code
HSWA	Hazardous and Solid Waste Amendments
IAS	Initial Assessment Study
IND	Industrial Service Supply
IR	Installation Restoration
IRP	Installation Restoration Program
JEG	Jacobs Engineering Group, Inc.
LBGS	Long Beach Generating Station
LBNC	Long Beach Naval Complex
LBNSY	Long Beach Naval Shipyard
LRA	Local Redevelopment Authority
LUC	land use covenant
mllw	mean low level water
MOA	memorandum of agreement
msl	mean sea level
MUN	municipal and domestic supply
NA	not applicable
NAAQS	National Ambient Air Quality Standards
NAVSTA	Naval Station
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
ND	not detected
NEESA	Naval Energy and Environmental Support Activity
NFA	no further action
NPDES	National Pollutant Discharge Elimination System
O&M	operation and maintenance
OU	operable unit
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PMO	Program Management Office
PRG	preliminary remediation goal

PROC	Industrial Process Supply
RAB	Restoration Advisory Board
RAGS	Risk Assessment Guidance for Superfund
RAO	remedial action objective
RAP	Remedial Action Plan
RCRA	Resource Conservation and Recovery Act
RD/RA WP	Remedial Design/Remedial Action Work Plan
RFA	RCRA Facility Assessment
RfD	reference dose
RFI	RCRA Facility Investigation
RI	Remedial Investigation
ROD	Record of Decision
RPM	remedial project manager
RWQCB	(California) Regional Water Quality Control Board, Los Angeles Region
SAP	Sampling and Analysis Plan
SARA	Superfund Amendments and Reauthorization Act of 1986
SCE	Southern California Edison
SF	slope factor
SI	Site Inspection
SIP	State Implementation Plan
STLC	soluble threshold limit concentration
Superfund	CERCLA and Amendments
SVOC	semi-volatile organic compound
SWDIV	Southwest Division Naval Facilities Engineering Command
SWRCB	State of California Water Resources Control Board
TAL	target analyte list
TBC	to be considered
TCE	trichloroethylene
TCLP	toxicity characteristic leaching procedure
TDS	total dissolved solids
TPH-D	total petroleum hydrocarbons quantified as diesel
TRPH	total recoverable petroleum hydrocarbons
TTLC	total threshold limit concentration
UIC	Unit Identification Code (for Navy property)
UNOCAL	Union Oil of California
USC	United States Code
U.S. EPA	United States Environmental Protection Agency
VOC	volatile organic compound
WET	waste extraction test

1.0: SITE NAME, LOCATION, AND DESCRIPTION

1.1 Name and Location of Installation Restoration Sites 11, 12, and 13

The former Long Beach Naval Complex (LBNC) is located on the south side of Terminal Island within the Los Angeles and Long Beach Harbor districts, about 24 miles south of downtown Los Angeles. It was made up of the former Naval Station (NAVSTA) Long Beach, located on the western part of the LBNC, and the former Long Beach Naval Shipyard (LBNSY), an industrial facility located on the east. The Unit Identification Code (UIC) for the Naval Shipyard is N60258, and the Federal Facility ID is CA9170023190. Figure 1-1 is a map of the former LBNC. The former LBNC is bounded by former oil fields and container yards to the north and the San Pedro Bay to the south. Currently, the Port of Los Angeles and the Port of Long Beach conduct port-related activities to the north and west of the former LBNC. The areas east and west of the LBNC are used for commercial shipping, liquid bulk handling, heavy industrial activities, and commercial fishing activities.

Installation Restoration (IR) Site 11 (hillside east of Dry Dock No. 1) is located within Operable Unit (OU) 5, and IR Site 12 (Parking Lot X, toxic sandblast disposal) and IR Site 13 (Tank Farm near Building 303) are located within OU 4 at the former LBNSY. Figure 1-2 shows the location of these sites at the former LBNC. Property including IR Sites 11, 12, and 13 reverted to the City of Long Beach in 1998. The redevelopment of the property to date has included the removal of all buildings and surface structures in the vicinity of the sites and the addition of landscaping, paved roads, and a parking area.

1.2 Regional and Area Setting

This section describes areas within and adjacent to the former LBNC. Figure 1-3 is a map of the former LBNC and surrounding area. Topics discussed in the following subsections include physiography, climate, geology, hydrology and flood potential, hydrogeology, groundwater and surface water use, seismic activity, and the surrounding land use and populations.

1.2.1 Physiography

The former LBNC property is located within the West Coast Basin, which extends from the Ballona Escarpment (at the south edge of the Ballona Gap) and Baldwin Hills on the northwest, to the San Gabriel River on the southeast. The former LBNC property is located within the Dominguez Gap area of the basin. Dominguez Gap consists of a nearly flat, broad, marine terrace platform that is incised by the roughly north-south-oriented river channel, and is eroded and partially backfilled by the ancestral Los Angeles River (BNI, 1997) (see Figure 1-4).

The former LBNC property is relatively flat, with less than 35 ft of total relief. The highest part of the former LBNC, the area along Pier T in the eastern part of the LBNSY, ranges from less than 15 ft above mean sea level (msl) at its northern end to more than 20 ft above msl at its southern end. The lowest part of the former LBNC, the area northeast of Dry Dock No. 1, is less than 10 ft below msl. The top of the “mole,” the breakwater that extends out into the Pacific Ocean to form Long Beach Harbor West Basin, is about 12 to 15 ft above msl (see Figure 1-1).

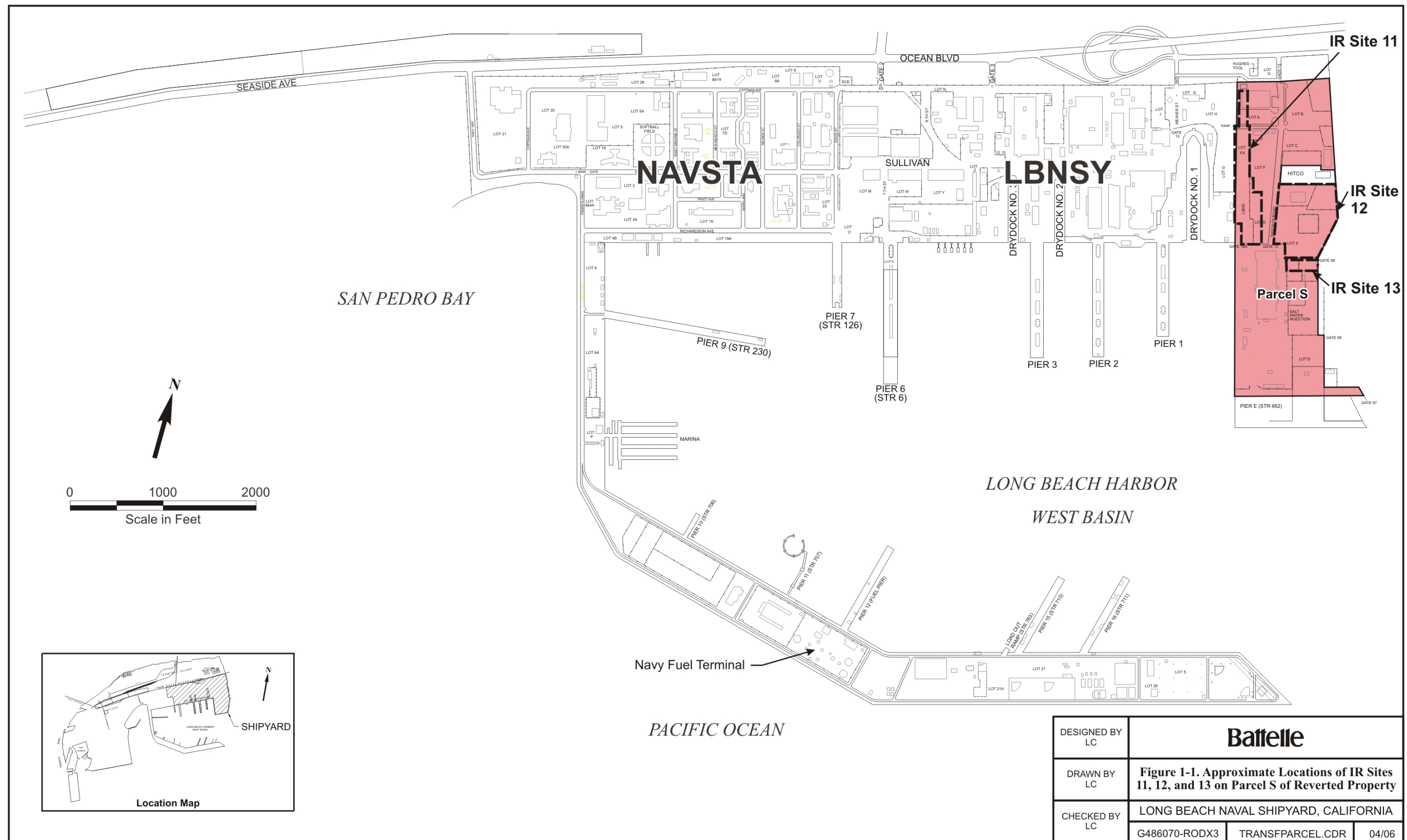


Figure 1-1. Approximate Locations of IR Sites 11, 12, and 13 on Parcel S of Reverted Property

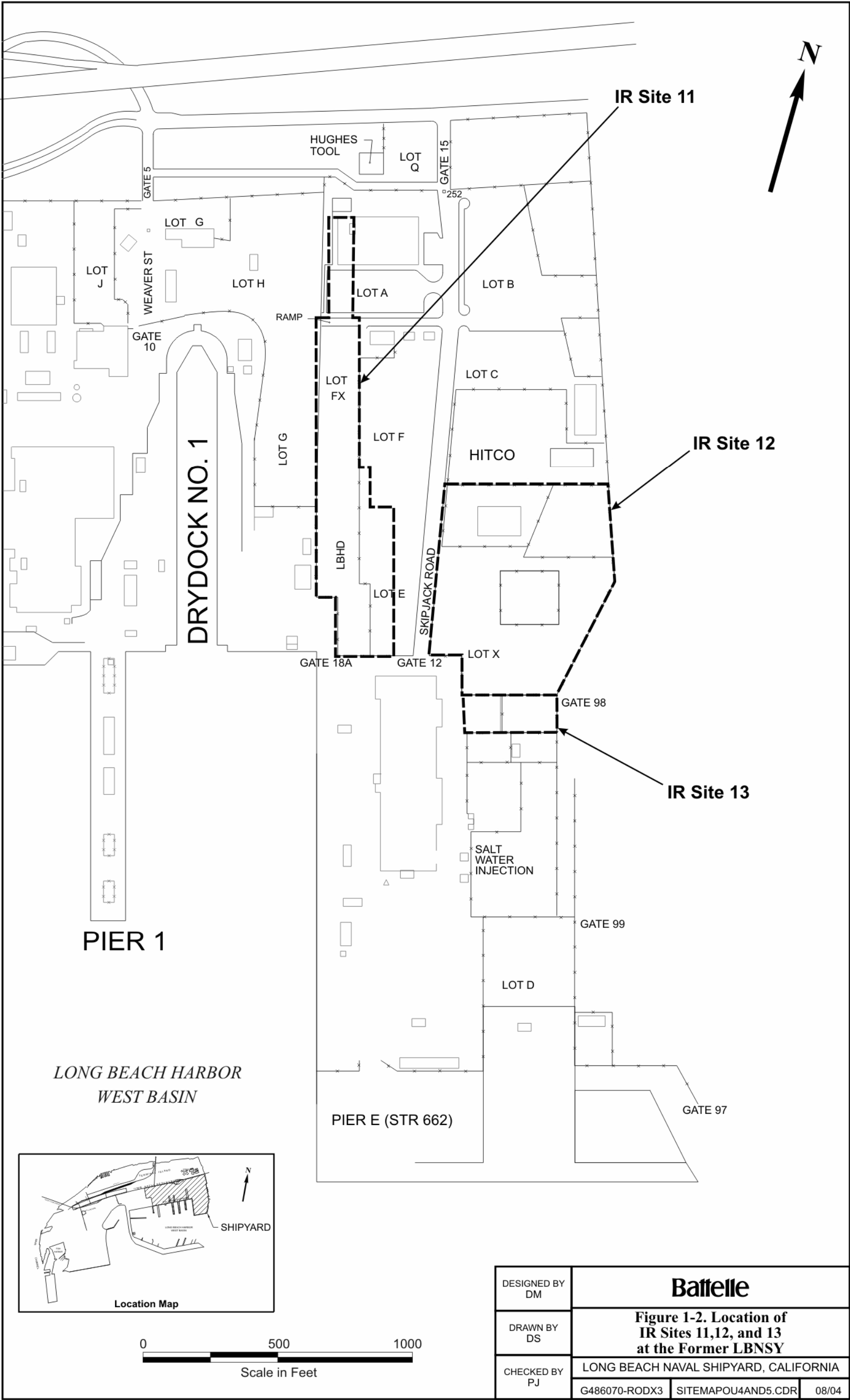


Figure 1-2. Location of IR Sites 11, 12, and 13 within OUs 4 and 5 at the Former LBNSY

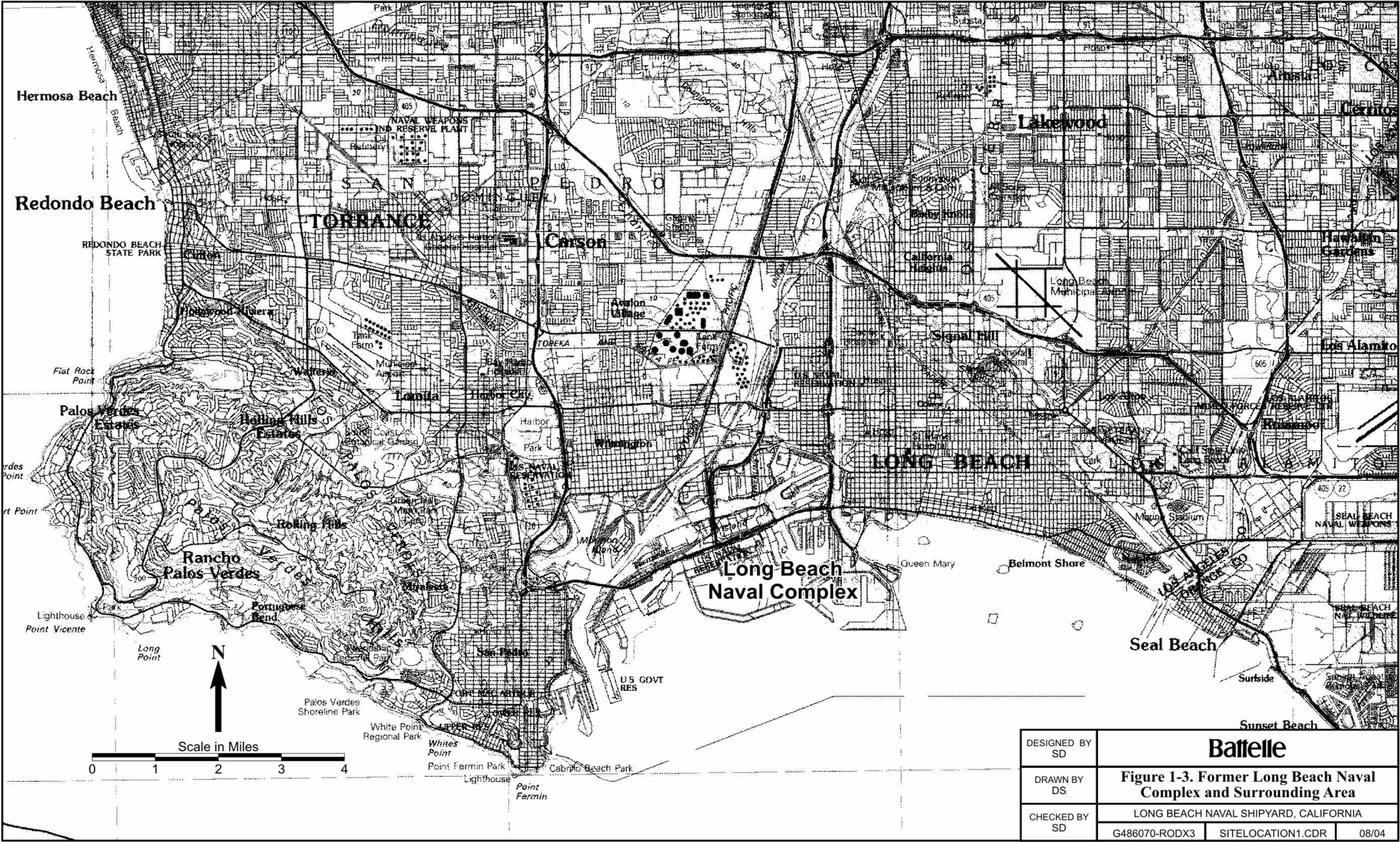


Figure 1-3. Former Long Beach Naval Complex and Surrounding Area

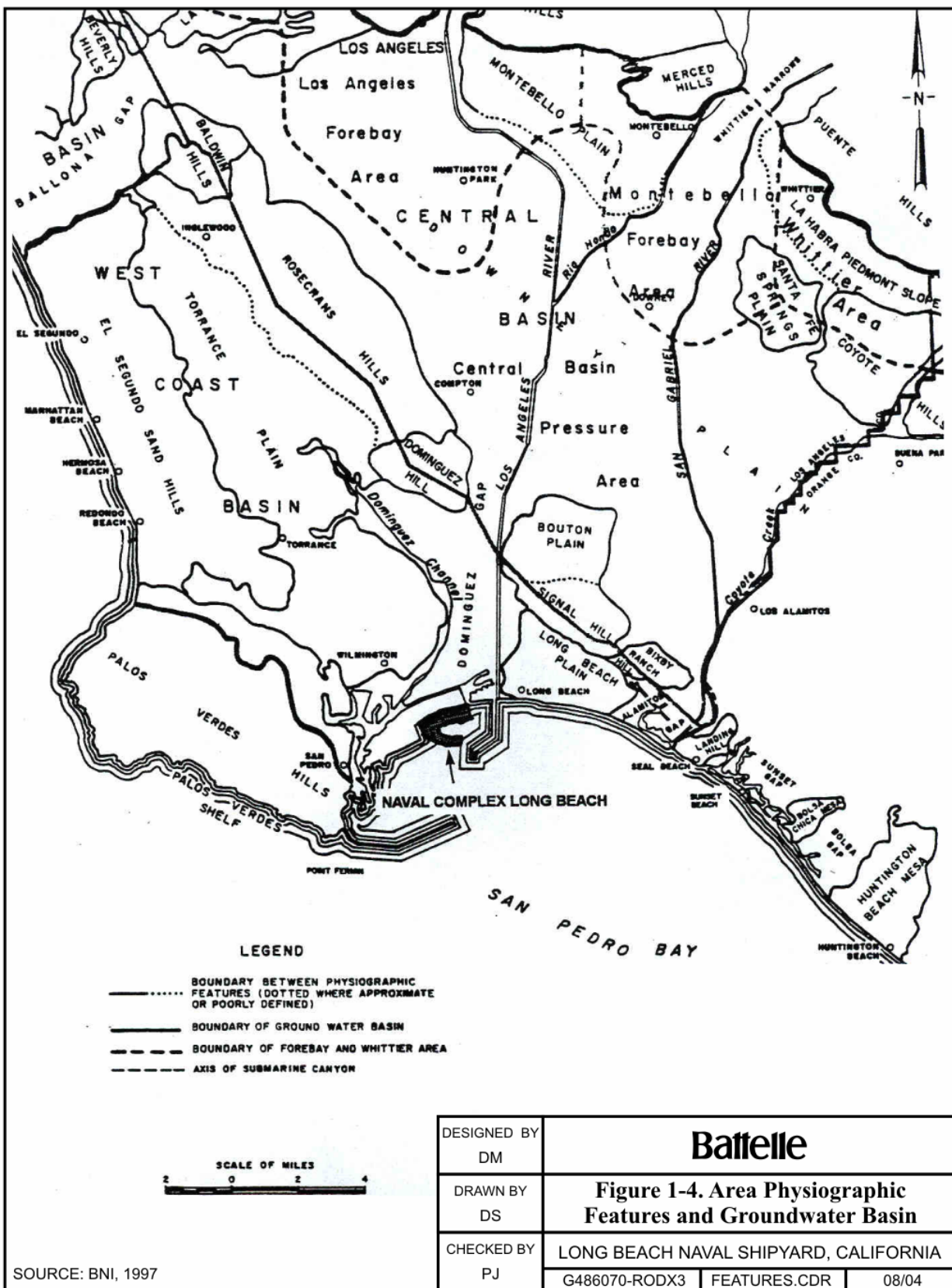


Figure 1-4. Area Physiographic Features and Groundwater Basin

1.2.2 Climate

The local climate of the West Coast Basin in California is classified as Mediterranean. It is characterized by warm, dry summers and mild winters. High pressure over the Los Angeles coastal basin blocks moist ocean air masses during most of the year. During winter months, however, the high-pressure systems weaken, allowing storms from the northern Pacific Ocean to move into the area. Precipitation usually occurs between November and March, and is generally less than 12 inches annually.

Wind direction is predominantly westerly (on shore), although a gentle, offshore flow typically occurs at night, as cooled air from the mountains and hills typically flows down the valleys to the coast. Northeasterly Santa Ana winds, which are high-speed, gusty winds that occasionally exceed 80 miles per hour, blow offshore during the late summer months (Naval Energy and Environmental Support Activity [NEESA], 1983).

1.2.3 Geology

The geology of the West Coast Basin consists of up to about 14,000 ft of Miocene to Recent marine and continental sediments that overlie pre-Miocene basement material. The upper 500 to 700 ft of the stratigraphic column are composed of the San Pedro Formation, Lakewood Formation, Holocene (Recent) sediments, and constructed fill. The Final Remedial Investigation (RI) report (BNI, 1997) includes detailed information about the stratigraphy of the area around the former LBNC.

The former LBNC is located in the northern part of the Peninsular Range Geomorphic Province, which is dominated by northwest-trending geologic structures. The dominant structural feature in the Long Beach area is the Newport-Inglewood Structural Zone, expressed 4 miles northeast of the former LBNC by a chain of elongated, low hills and fault scarps caused by northwest-trending, left-stepping, en echelon faulting (Randall et al., 1983). The RI report (BNI, 1997) includes detailed information about major subsurface features and subsidence problems near the former LBNC.

1.2.4 Hydrology and Flood Potential

Several surface water features, including beaches and rivers, are located within a 5-mile radius of the former LBNC. There are no reported surface intakes for drinking water within a 15-mile radius of the former LBNC. Terminal Island is surrounded by the following surface water bodies: Long Beach Middle Harbor West Basin, between the mole and mainland part of LBNC; Long Beach Outer Harbor (San Pedro Bay), south and west of the mole; Los Angeles Main Channel and Turning and East Basins, on the west and northwest sides of Terminal Island; Cerritos Channel, on the northeast; and Back Channel, on the east. A breakwater separating San Pedro Bay from the Pacific Ocean is located about 1.6 miles south of the mole. The Los Angeles River drains into San Pedro Bay at a point located about 1 mile east of the former LBNC. The Dominguez Channel drains into the East Basin on the north side of Terminal Island between the Cerritos and Los Angeles Main Channels. Except for the West Basin, there are no surface water bodies within the boundary of the former LBNC.

Surface water drainage within the main part of the LBNC generally is toward its lowest topographic area, northeast of Dry Dock No. 1. Storm drains located throughout the former LBNC collect surface water runoff. The storm drains convey the runoff from the main part of the former LBNC to pump stations, which then discharge the water to the West Basin. On the north side of the mole, storm drains convey runoff into the West Basin. On the south side, runoff is conveyed to the outer harbor (Jacobs Engineering Group, Inc. [JEG], 1992a).

According to Federal Emergency Management Agency (FEMA) flood insurance rate maps, Terminal Island is not within an area considered susceptible to flooding during a statistical 100-year or 500-year flood (JEG, 1992a). However, because of subsidence, parts of the former LBNSY are below msl. These areas could be susceptible to flooding during high tide conditions if there were a breach of a seawall, or in the event of high precipitation and a failure of the stormwater pumping system.

1.2.5 Hydrogeology

The *Water Quality Control Plan, Los Angeles River Basin (4B)* (RWQCB, 1975) designates the Wilmington/Long Beach area as part of the southern portion of the West Coast Basin. Several water supply production zones (aquifers) have been identified within the Recent deposits, the upper Pleistocene Lakewood Formation, and the low Pleistocene San Pedro Formation.

The shallowest water-bearing zone beneath Terminal Island is in the surficial deposits that comprise the constructed fills and near-surface native soils (upper Recent deposits). Groundwater is encountered in these areas generally at a depth between ground level and 25 ft below ground surface (bgs), with the depth depending, at least in part, on ground surface elevation. Recharge to the shallow water-bearing interval occurs from infiltration of precipitation and landscape irrigation water in areas that are not covered with pavement.

Detailed information about the major aquifers reported in the West Coast Basin can be found in the RI report (BNI, 1997). Although these major aquifers are important water-producing zones within the West Coast Basin, contamination by seawater intrusion has limited their usefulness in areas near the coast, including the Terminal Island area. Terminal Island is surrounded by saline surface waters and groundwater in the upper Recent deposits. The mineral content of the groundwater under Terminal Island approaches that of seawater (JEG, 1993a).

State of California Water Resources Control Board (SWRCB) Resolution 88-63 (“Sources of Drinking Water” policy) designates all waters of the state to be suitable or potentially suitable as sources of drinking water, except water with existing high dissolved solids (total dissolved solids [TDS] greater than 3,000 mg/L), low sustainable yield (less than 200 gallons per day for a single well), and waters with contamination that cannot be treated for domestic use by using best management practices or best economically achievable treatment practices.

Regional Board Resolution No. 98-18, adopted November 2, 1998 by the Los Angeles Regional Water Quality Control Board, modified the regulatory provisions of the Water Quality Control Plan for the Los Angeles Region (the Basin Plan) (RWQCB, 1975) by removing the municipal and domestic use (MUN) beneficial use designation from the aquifers underlying Terminal

Island, which includes the former LBNC. The Basin Plan retains beneficial uses of industrial process supply (PROC), industrial service supply (IND), and agricultural supply (AGR) for the underlying groundwater (RWQCB, 1994). The California Office of Administrative Law approved the Resolution by their Notice of Approval dated February 9, 2000.

Several pumping stations that may be influencing the groundwater flow regime have been identified on or near the eastern part of Terminal Island. These pumping activities are enumerated in the RI report (BNI, 1997).

1.2.6 Groundwater and Surface Water Use

The Dominguez Gap injection barrier, an approximately 3.5-mile-long barrier, is located about 1.5 miles to the northwest of the former LBNC. It has been used since 1971 to inject fresh water into nearby aquifers to mitigate saltwater intrusion.

Two active municipal groundwater wells are located within 4 miles of the former LBNC. Both wells are located inland of the Dominguez Gap injection barrier. They are operated by the Dominguez Water Corporation and reportedly produce from the Silverado aquifer. The wells are typically operated between March and August each year and are dormant between August and March, when it is less expensive to purchase imported water.

Several active industrial water supply wells are located within 5 miles of the former LBNC. These include at least seven active wells operated by the Atlantic Richfield Company (ARCO), two operated by Texaco Refining and Marketing, Inc., and two operated by Union Oil of California (UNOCAL) (DWR, 1994). The wells are located inland from the Dominguez Gap Injection Barrier, and generally produce from the Silverado aquifer.

The Cities of Long Beach and Los Angeles supply water to the former LBNC. The City of Long Beach supplies water for the former LBNSY. No groundwater is used for water supply at the former LBNC (BNI, 1997).

1.2.7 Seismic Activity

The former LBNC is located near two known major faults: The Newport-Inglewood fault zone, located about 4 miles northeast of the former LBNC; and the Palos Verdes fault, located about 1.2 miles southwest of the mole. The RI report (BNI, 1997) includes detailed information about historical seismic activity of the two faults.

The San Andreas and San Jacinto faults are more distant faults that could produce significant ground shaking at the former LBNC. Because no known active faults actually pass through the former LBNC, fault rupture at the complex is not considered to be a credible hazard. Shallow groundwater conditions and the presence of deep soils with relatively little cohesion make liquefaction a concern in the event of significant ground shaking (BNI, 1997).

1.2.8 Surrounding Land Use and Populations

Land use in the vicinity of the former LBNC is port-related, commercial, or industrial (see Figure 1-3). Residential areas are located more than 2 miles from the former LBNC. On Terminal Island, the areas east and west of the former LBNC are used for commercial shipping, liquid bulk handling, heavy industrial activities, and commercial fishing activities. The area north of the complex is used for oil production activities.

Land use for the areas adjacent to the former LBNC includes primarily port uses, tank farms, automobile terminals, a cement terminal, cargo handling, cargo terminals, and the Southern California Edison (SCE) Long Beach Generating Station (LBGS). Located west of Terminal Island is the Port of Los Angeles, which has general cargo, liquid bulk, commercial fishing, institutional, industrial, container handling, and other commercial and recreational uses.

1.3 Site Descriptions

This section describes the site arrangement and significant features associated with IR Sites 11, 12, and 13. Except as noted, the site descriptions in this section were summarized from corresponding descriptions in the Feasibility Study (FS) reports for the sites (Battelle, 2001; BNI, 2001).

1.3.1 IR Site 11

IR Site 11 is the hillside east of Dry Dock No. 1. It is a north-south strip of land about 1,700 ft long, located in the eastern part of the former LBNSY, as shown in Figure 1-5. IR Site 11 is bordered primarily by current or former parking lots, including Parking Lots A, E, and F to the east and Parking Lots G and H to the west. The middle part of IR Site 11 includes Parking Lot FX. Dry Dock No. 1 is located about 300 ft west of the site, and the West Basin of Long Beach Harbor is adjacent to the southwestern corner of the site.

IR Site 11 has a steep, west-facing embankment (hillside) along most of its western side. The embankment is made of soil and is covered by vegetation. It ranges in height from about 24 ft at its northern end to about 17 ft at a retaining wall in the middle. From the retaining wall to the southern end of the site, the embankment is only 4 to 5 ft high. The southern end of the site, referred to as the “level area,” is covered by shotcrete.

East of the embankment, IR Site 11 is essentially flat, at an elevation of about 16 ft above mean low level water (mllw). An asphalt roadway crosses the site between Parking Lots A and F. North of this roadway, IR Site 11 consists only of the embankment (northern hillside) adjacent to the eastern side of IR Site 10 (Parking Lot H). South of the roadway, IR Site 11 widens to a maximum width of about 250 ft and contains an oil production easement in which active oil production wells and associated pipelines are located. The middle part of the site, east of the southern embankment and oil production easement, is currently paved with asphalt. The southern part of the site, east of the shotcreted area (the oil production easement), is unpaved.

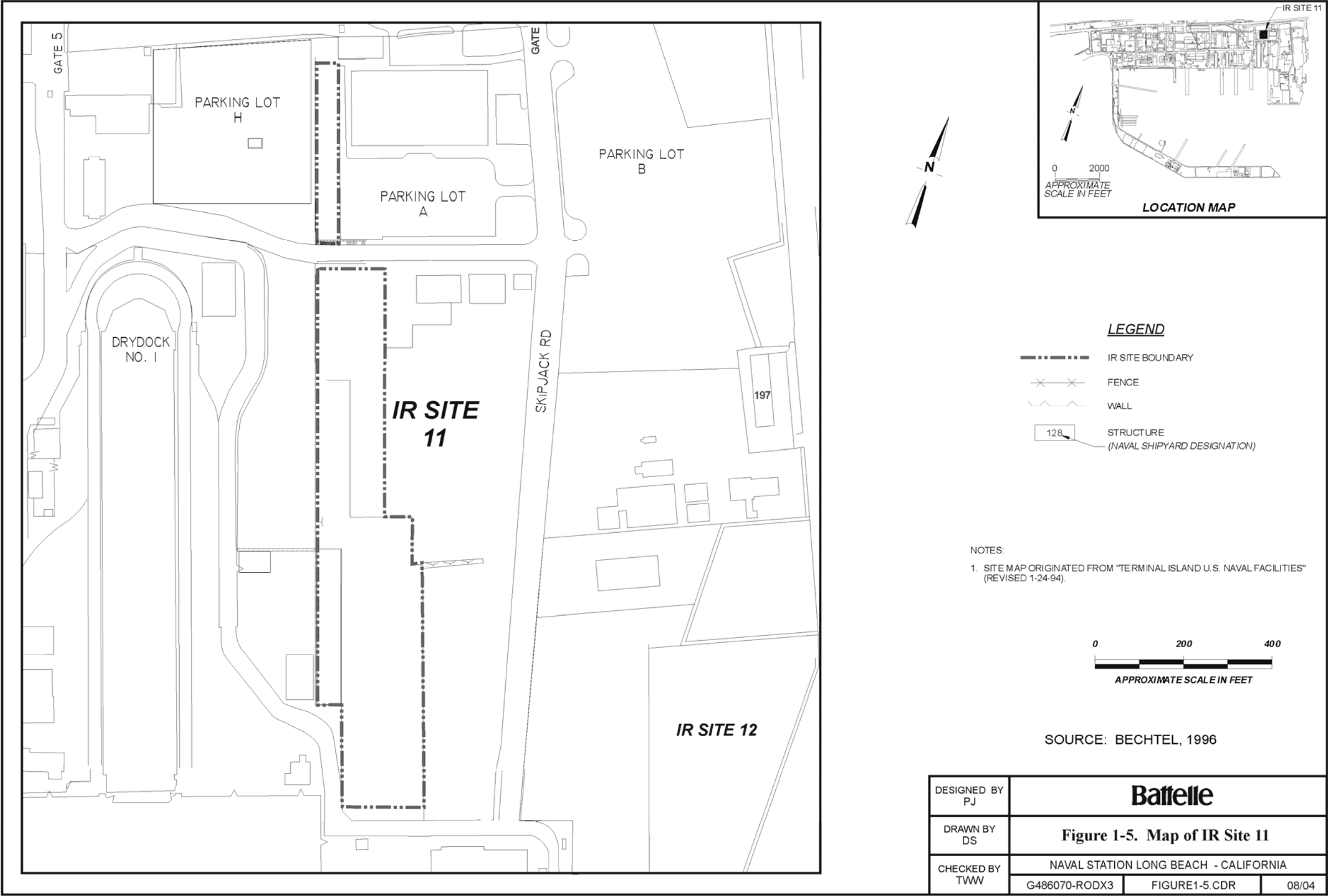


Figure 1-5. Map of IR Site 11

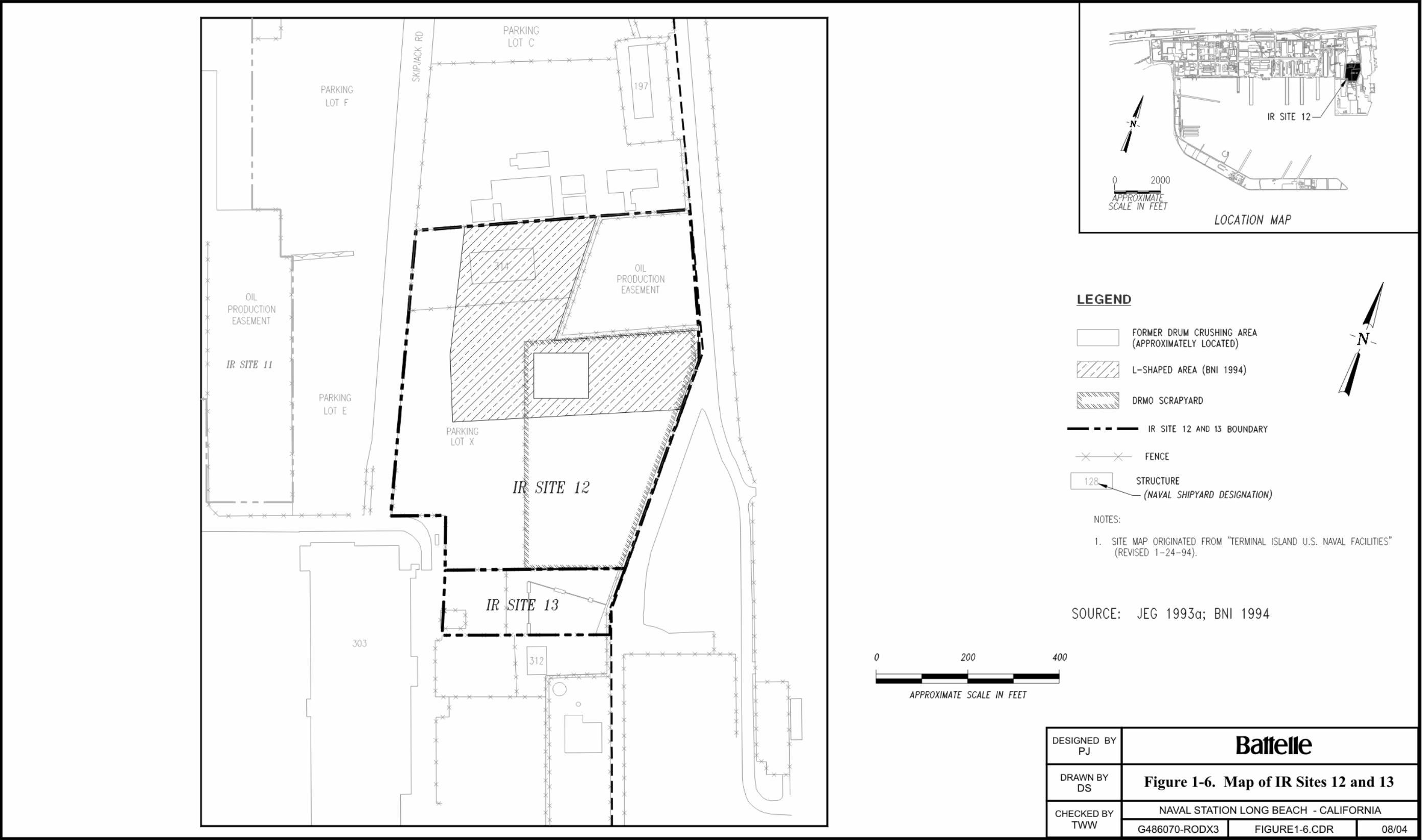


Figure 1-6. Map of IR Sites 12 and 13

1.3.2 IR Site 12

IR Site 12, Parking Lot X, toxic sandblast disposal, is about 800 ft by 600 ft in size. It originally included Parking Lot X, Building 314 (a hazardous storage facility), an oil product easement, and the Defense Reutilization Marketing Office (DRMO). The site is essentially flat and is located in the eastern portion of the LBNSY on Pier T (former Pier Echo) (see Figure 1-6).

IR Site 12 is contiguous with IR Site 13 along its southern border. Local oil exploration and production activities began in the area of IR Sites 12 and 13 in the early 1950s (NEESA, 1983). The exploration and production led to subsidence, and water injection was initiated as a mitigation measure. The estimated total subsidence at IR Site 12 ranges from 16 ft at the southern end of the site to 23 ft at the northern end of the site (BNI, 1997).

By 1971, IR Site 12 was used by the Navy principally as a parking lot. However, between 1971 and 1975, sandblast grit and paint chips that may have contained metals and organotins were disposed in Lot X (NEESA, 1983) (see Figure 1-6). In addition, drum-crushing operations at Lot X between 1986 and 1988 also may have resulted in waste disposal within IR Site 12. Drum contents reportedly included epoxy-based paints, cleaning solvents such as trichloroethylene (TCE), lubricating oils, and other petroleum-based products. However, the drums were empty prior to crushing.

In 1994, IR Site 12 was largely paved with asphalt. Thereafter, Parking Lot X was restricted to the western half of the site. The eastern half, south of the oil easement, was used as the DRMO scrap yard.

A Site Inspection (SI) report (JEG, 1992a) recommended further investigation of IR Site 12. As a result, IR Sites 12 and 13 were described and analyzed together in an FS (BNI, 2001).

1.3.3 IR Site 13

IR Site 13, Tank Farm near Building 303, is about 150 ft wide and up to 380 ft long. The site is essentially flat and is located in the eastern portion of the LBNSY on Pier T (former Pier Echo) (see Figure 1-6). It is contiguous with IR Site 12 along its northern border.

Local oil exploration and production activities began in the area of IR Sites 12 and 13 in the early 1950s (NEESA, 1983). The exploration and production led to subsidence, and water injection was initiated as a mitigation measure. The estimated total subsidence at IR Site 13 is about 16 ft (BNI, 1997).

Beginning in the early 1970s, IR Site 13 was used by the Navy as a hazardous waste storage area (tank farm) to store equipment and portable waste storage tanks containing sodium nitrite, citric acid, trisodium phosphate, fire-fighting foam, waste bilge oil, and sulfides (NEESA, 1983). No large leaks or spills were reported, but some asphalt areas were stained, indicating leakage from drums or releases from tank-flushing operations.

An SI report (JEG, 1992a) recommended further investigation of IR Site 12. Because IR Sites 12 and 13 are contiguous (the southern border of IR Site 12 is contiguous with the northern border of IR Site 13), they were described and analyzed together in an FS (BNI, 2001).

1.4 IR Sites 11, 12, and 13 Geology and Hydrogeology

This section describes the geology and hydrogeology of IR Sites 11, 12, and 13. Except as noted, in this section, geologic and hydrogeologic information for IR Sites 11, 12, and 13 is summarized from the RI report (BNI, 1997), which provides data and details of the geologic and hydrogeologic investigations of the sites.

1.4.1 IR Site 11

Native soils below IR Site 11 are entirely overlain by undifferentiated construction and hydraulic fill materials. The undifferentiated materials consist of mixtures of loose to medium-dense, predominantly fine-grained silty sand and sand, with lesser amounts of sandy silt, silt, and clay. Historic aerial photographs indicate that the fill was emplaced during at least three separate periods between the mid-1920s and the mid-1950s. The fill beneath IR Site 11 is between 22 ft thick (on the northwestern corner of the site) and 53 ft thick (on the southeastern corner of the site).

The geologic units within the upper Recent deposits at IR Site 11 comprise three water-bearing subunits. The subunits include an upper coarse-grained, water-bearing subunit; an underlying finer-grained, water-bearing subunit; and a lower coarse-grained, water-bearing subunit.

The depth to groundwater in the shallow water-bearing zone at IR Site 11 ranges from about 6 to 16 ft bgs. This range occurs because of the changes in surface elevation at the site. The average horizontal gradient within the upper coarse-grained, water-bearing subunit at IR Site 11 is about 0.010 ft/ft toward the north-northwest

1.4.2 IR Sites 12 and 13

Much of the Pier T (former Pier Echo) area, including IR Sites 12 and 13, is underlain by undifferentiated construction/hydraulic fill materials. This fill consists of mixtures of loose to medium-dense, predominantly fine-grained silty sand and sand with lesser amounts of sandy silt, silt, and clay. The basal contact between the fill and the underlying native materials is not easily discernable in soil borings and cone penetration test (CPT) soundings because of similarity in lithologies of the fill and the native materials. Aerial photographs and historical data suggest that the thickness of fill beneath IR Site 12 is about 47 ft along the northern part of the site to about 60 ft along the southern part of the site (BNI, 1999). Aerial photographs and historical data suggest that the thickness of fill beneath IR Site 13 is about 60 ft (BNI, 1999).

The geologic units within the upper Recent deposits at IR Sites 12 and 13 comprise four water-bearing subunits. The subunits include an upper coarse-grained, water-bearing subunit which includes fill materials and the underlying natural upper silty sand to sand subunit; an underlying finer-grained, water-bearing subunit; a lower coarse-grained, water-bearing subunit; and a lower fine-grained, water-bearing subunit.

The depth to groundwater in the shallow water-bearing zone at IR Sites 12 and 13 is about 18 ft bgs. The overall groundwater elevation gradient beneath IR Sites 12 and 13 appears relatively consistent at 0.006 ft/ft (BNI, 1999). The flow direction is toward the north, in the general direction of the regional gradient and the SCE dewatering system, north-northeast of the site.

The upper water-bearing aquifer at IR Site 12 has a hydraulic conductivity of 1.2×10^{-4} to 4.8×10^{-4} , which is typical for unconsolidated silty sands (Freeze and Cherry, 1979). The estimated groundwater flow velocity is 4 ft per year.

1.5 Tidal Influences at IR Sites 11, 12, and 13

To assess tidal influence on groundwater, groundwater levels were measured over a period of several days in 30 monitoring wells on the former LBNC. During this time, tides in the harbor fluctuated in a sinusoidal manner between approximately 0 and 7 ft mllw. Groundwater levels in the monitoring wells showed minor fluctuations but did not show corresponding sinusoidal fluctuations, with one exception. These results demonstrate that groundwater levels on Terminal Island are not significantly influenced by harbor tides. The absence of fluctuations in groundwater levels is attributed, in part, to the seawall along the shoreline of the island. This conclusion was substantiated by fluctuations that did not occur in one monitoring well located in an area with no seawall. Minor fluctuations of groundwater levels observed on Terminal Island are attributed to a porewater pressure response to the tide cycle.

2.0: SITE HISTORY

This section provides background information on the activities at IR Sites 11, 12, and 13 that have led to the current conditions, and on the investigations and activities at these sites that have been conducted to date under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and other environmental authorities.

2.1 History of IR Sites 11, 12, and 13

IR Sites 11, 12, and 13 are located within the former LBNSY, historically an industrial facility located on the eastern part of the former LBNC. Except as noted, the site histories in this section were summarized from the FS reports for the sites (Battelle, 2001 and BNI, 2001).

IR Site 11, Hillside East of Dry Dock No. 1. In 1975, spent black sandblast grit containing paint residues was reportedly used to fill the low areas within IR Site 11 and to extend the edge of the embankment westward (see Figure 1-5). No records were found to document the quantity of spent sandblast abrasives ultimately disposed of at the site. Sandblast material was reportedly removed from the southern hillside in 1997. In January and February 1994, about 1,400 cubic yards of additional sandblast-contaminated soil were removed from the southern hillside and placed in the level area to the south. The potential source of contamination at the site, spent sandblast grit, is still present at the site (BNI, 1997).

IR Site 12, Parking Lot X, Toxic Sandblast Disposal. IR Site 12 included Parking Lot X, three other fenced areas, and Building 314 located to the north of the parking lot (see Figure 1-6). IR Site 12 was offshore until the mid-1920s, when a jetty extending through the site was constructed, and fill from dredging was placed south of the SCE facility. Construction of the jetty resulted in a shoreline extending from near the approximate northern end of Dry Dock No. 1 through the northern part of IR Site 12. The remaining part of IR Site 12 was filled in the early 1940s, when the Navy constructed the LBNC.

Beginning in the early 1950s, oil exploration and production activities were conducted in the area of IR Site 12. Due to petroleum production, the area, including IR Site 12, was impacted by subsidence. The subsidence was mitigated by water injection initiated in the late 1950s.

Extension and filling of the southern portion of Pier T (former Pier Echo) began in 1953, along with emplacement of additional fill to elevate the older, northern part of the pier. The fill activities, completed in 1956, raised the ground surface to its present elevation. Active oil production wells were last located only in an easement in the northeastern corner of the site.

By 1971, the southern part of IR Site 12 was used as a parking area. Between 1971 and 1975, between 72 and 100 tons of used sandblast grit containing paint chips were disposed at a location in Lot X. This sandblast grit and paint chip mixture may have contained metals and organotins. The disposal volume was 15 ft by 15 ft by 10 ft deep (NEESA, 1983 and JEG, 1992a) and covered an L-shaped area in the northern portion of the site, next to the western and southern sides of the oil production easement (see Figure 1-6).

IR Site 13, Tank Farm near Building 303. Like IR Site 12, IR Site 13 was offshore until a jetty extending through the site was constructed and fill from dredging was placed south of the SCE facility. IR Site 13 also was filled in the early 1940s, when the Navy constructed the LBNC.

Beginning in the early 1950s, oil exploration and production activities were conducted in the area of IR Site 13. Due to petroleum production, the area, including IR Site 13, was impacted by subsidence. The subsidence was mitigated by water injection initiated in the late 1950s. Extension and filling of the southern portion of Pier T (former Pier Echo) began in 1953, along with emplacement of additional fill to elevate the older, northern part of the pier. The fill activities, completed in 1956, raised the ground surface to its present elevation.

Beginning in the early 1970s, IR Site 13 was used by the Navy as a hazardous waste storage area (tank farm). The site was used to store equipment and portable waste storage tanks containing sodium nitrite, citric acid, trisodium phosphate, fire-fighting foam, waste bilge oil, and sulfides (NEESA, 1983). No large leaks or spills were reported, but some asphalt areas were stained, indicating leakage from drums or releases from tank-flushing operations.

2.2 Site Investigations

Table 2-1 presents a chronological summary of environmental investigations at IR Sites 11, 12, and 13.

Table 2-1. Summary of Environmental Investigations at IR Sites 11, 12, and 13

Step	Type of Investigation	Date Completed
1	Industrial Waste Study	1969
2	Initial Assessment Study	1983
3	Parking Lot X Site Investigation (<i>IR Site 12</i>)	1989
4	RCRA Facility Assessment	1989
5	Site Inspection	1992
6	Phase I RCRA Facility Investigation (<i>IR Site 13</i>)	1992
7	Remedial Investigation	1997
8	Supplemental Groundwater Investigation (<i>IR Sites 12, 13</i>)	1999
9	Feasibility Studies	2001
10	Technical Memorandum (<i>IR Site 12</i>) (FS report Appendix G)	2002

Environmental investigations at IR Sites 11, 12, and 13 began as early as 1969, with the performance of an industrial waste study at the former LBNC by the Southwest Division Naval Facilities Engineering Command (SWDIV, 1969). One of the objectives of this study was to determine the nature and amount of all liquid and solid industrial wastes being discharged into the storm drain system, being discharged into the harbor, or being buried in the ground. This was the first environmental investigation of industrial waste at the former LBNC.

In 1983, NEESA completed an Initial Assessment Study (IAS) of the former LBNC in response to CERCLA. The IAS was conducted to identify and assess potential threats to human health or the environment caused by past storage, handling, or disposal of hazardous materials. It was the first comprehensive study by the United States Department of the Navy (DON) to identify contaminated sites resulting from past operations at the former LBNC. It included information on (1) waste-generating sources; (2) waste handling, storage, and transportation procedures; (3) waste processing procedures; and (4) descriptions of disposal sites and potentially contaminated areas.

IR Sites 11, 12, and 13 were identified based on the results of the IAS, and each site was assessed with respect to contamination characteristics, migration pathways, and potential receptors. The IAS concluded that none of the sites posed a significant threat to human health or the environment sufficient to warrant a confirmation study. However, it recommended precautionary measures, such as the use of protective clothing and equipment, for excavation for construction at the sites (NEESA, 1983).

In 1989, Earth Technology Corporation conducted a site investigation at the drum-crushing operations area of IR Site 12. Soil samples were collected and analyzed for total recoverable petroleum hydrocarbons (TRPH), volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs). The closure report resulting from the site investigation concluded that any environmental impacts resulting from the drum-crushing operations could have been masked by the presence of hydrocarbons from the asphalt pavement in the area (Earth Tech, 1989).

In 1991, an SI was conducted at the former LBNSY (JEG, 1992a). The SI verified the presence of contaminants at IR Sites 11, 12, and 13 that were initially identified by the IAS and by a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) conducted by the State of California Department of Health Services (1989). The SI also assessed whether contaminants at these sites existed at concentrations that warranted further action and evaluated potential contamination migration pathways. As a result of the SI, IR Sites 11, 12, and 13 were recommended for further investigation.

In December 1991, JEG (1992b) conducted a Phase I RCRA facility investigation at IR Site 13 to assess whether additional investigation or corrective measures were warranted. Results from soil and groundwater samples established the need for further action.

The RI report for IR Sites 11, 12, and 13 was completed in 1997 (BNI, 1997). The RI assessed potential soil and groundwater contamination at IR Sites 11, 12, and 13, and evaluated the fate and transport of contaminants, including the potential for leaching of hazardous constituents from vadose zone soil to groundwater, and the migration and persistence of contaminants in the saturated zone. The comparison values for metals in soil were their calculated background threshold concentrations, which were determined during the RI (BNI, 1997). The comparison values for organics were the U.S. EPA preliminary remediation goals (PRGs) for industrial land use (U.S. EPA, 1995a).

The RI identified and recommended for further investigation one soil area of potential concern (AOPC) and two groundwater AOPCs. Groundwater AOPC 1 was dissolved arsenic in the

upper coarse-grained water-bearing interval at IR Sites 12 and 13. Groundwater AOPC 2 was a dissolved manganese plume in the upper coarse-grained water-bearing interval at IR Sites 12 and 13.

BNI (1999) then completed a Supplemental Groundwater Investigation to define the extent of dissolved metals in the groundwater at the two groundwater AOPCs. Based on the analytical results of this investigation, Groundwater AOPC 1 was recommended for further action, and Groundwater AOPC 2 was recommended for no further action.

The FS reports for IR Sites 11, 12, and 13 were completed in 2001 (Battelle, 2001 and BNI, 2001), followed by a Technical Memorandum (BNI, 2002) for IR Site 12. The Technical Memorandum was incorporated into the FS report for IR Sites 12 and 13 (BNI, 2001) as Appendix G. Results of the RI and FSs for IR Sites 11, 12, and 13, and the Technical Memorandum for IR Site 12, are summarized, as appropriate, in subsequent sections of this document.

3.0: COMMUNITY PARTICIPATION

The Long Beach community is well informed about the progress of environmental programs at the former LBNC. A local, citizen-based Restoration Advisory Board (RAB) provides a good opportunity for public involvement at the former LBNC. The RAB is an advisory body designed to act as a focal point for the exchange of information between the DON and the local community regarding environmental activities at the former LBNC. The RAB meets semiannually. RAB meetings provide local citizens with the opportunity to provide the DON with input related to the remedy selection process for the former LBNC IR Program.

The RI report, the FS report, and the Proposed Plan for IR Site 11 were placed in the administrative record and made available to the public on January 16, 2002. The RI report, the FS report, and the Proposed Plan for IR Sites 12 and 13 were placed in the administrative record and made available to the public on July 21, 2004. The documents are available in the Administrative Record file located at SWDIV in San Diego, CA and at the information repository located at the Long Beach Public Library, Long Beach, CA. Other information is available on the World Wide Web at: www.bracpmo.navy.mil/bracbases/california/lbnc/default.aspx.

A public notice announcing the availability of the RI report, the FS report, and the Proposed Plan for IR Site 11; the comment period; and the public meeting was published in the *Long Beach Press-Telegram* newspaper, Long Beach, CA, on January 15, 2002. The Proposed Plan for IR Site 11 was prepared in fact-sheet format and mailed to the former LBNC project mailing list on January 2, 2002. The public comment period extended from January 16, 2002 to February 15, 2002.

A public notice announcing the availability of the RI report, the FS report, and the Proposed Plan for IR Sites 12 and 13; the comment period; and the public meeting was published in the *Long Beach Press-Telegram* newspaper, Long Beach, CA, on July 11, 2004. The Proposed Plan for IR Sites 12 and 13 was prepared in fact-sheet format and mailed to the former LBNC project mailing list on July 6, 2004. The public comment period extended from July 6, 2004 to August 6, 2004.

A public meeting was held on January 23, 2002 to present the Proposed Plan for IR Site 11 to the community, to answer questions, and to accept formal comments. Representatives from the DON, DTSC, RWQCB, U.S. EPA, POLB, and RAB were present at this meeting.

A public meeting was held on July 21, 2004 to present the Proposed Plan for IR Sites 12 and 13 to the community, to answer questions, and to accept formal comments. Representatives from the DON, DTSC, U.S. EPA, POLB, and RAB were present at this meeting.

The DON's responses to the comments received during the comment periods are summarized in Section 16.0, "The Responsiveness Summary," of this ROD. Copies of the public notices, the rosters of public meeting attendees, and the public meeting transcripts are included in Appendix C.

In October 1998, the SWDIV updated and finalized its community relations plan (CRP). The purpose of the CRP, and the community relations program that it describes, is to promote communication between the public and the DON about the status of remediation at the former LBNC. The program provides communities and public officials with accurate information about the IR Program underway at the former LBNC. It also provides citizens and public officials the opportunity to participate in the cleanup process.

4.0: SCOPE AND ROLE OF RESPONSE ACTION

Fifteen sites have been investigated at LBNC. Seven of these sites (IR Sites 1 through 7, including 6A and 6B) are associated with former LBNAVSTA. The remaining sites (Sites 8 through 14 and 16) are associated with former LBNSY. The current status of each site is summarized below.

The following are the former LBNAVSTA sites.

- IR Sites 1 and 2 were addressed in a ROD that was finalized in spring 2000. The selected remedial action for both sites was excavation, in situ air sparging, soil vapor extraction, land use controls in the form of deed use restrictions, and groundwater monitoring. Remedial action is currently underway.
- IR Sites 3, 4, 5, and 6A were addressed in a ROD that was finalized on May 19, 1999. The selected remedies for IR Sites 3, 4, and 6A were institutional controls and monitoring. The selected remedy for IR Site 5 was institutional controls. Groundwater monitoring is complete at IR Sites 3, 4, and 6A.
- Site 6B, Old Scrapyard, was considered under the initial IR program but was never designated as an IR site. Investigations showed that contaminant concentrations in soil and groundwater were below baseline sample results. Site closure was requested and approved by the regulatory agencies in July 1997.
- IR Site 7, Harbor Sediments, has a Draft Final Proposed Plan/Remedial Action Plan currently under regulatory review. The Feasibility Study Addendum currently is being finalized and the public comment period for the Proposed Plan is scheduled for fall/winter 2006/2007.

The following are the former LBNSY sites:

- IR Sites 8 and 10, Building 210, Trichloroethene (TCE) Disposal Site and Parking Lot H, are addressed in a final ROD/RAP that was issued in September 2004 (Battelle, 2004). The recommended remedy is to use institutional controls to maintain industrial land use and to prevent unauthorized disturbance of soil and groundwater.
- IR Site 9 is addressed in a final ROD/RAP that was finalized in July 2005.
- IR Site 11, East of Dry Dock No. 1; IR Site 12, Parking Lot X; and IR Site 13, Sandblast Grit and Tank Farm Near Building 303, are the subjects of this ROD/RAP.
- IR Site 14, Building 46, was the subject of an Action Memorandum finalized in September 2000. The selected removal action included soil excavation, enhanced natural attenuation, groundwater monitoring, and institutional controls.

- IR Site 16, the former plating area near Building 210, was addressed in an expanded site inspection report that was finalized on June 27, 2005. The report received regulatory approval and the site was closed with no further action.

The DON is currently responding to all 15 LBNC sites. The sites are divided into five operable units, as follows:

- OU 1 includes IR Sites 1, 2, 3, and 4
- OU 2 includes IR Sites 5 and 6A
- OU 3 includes IR Site 7
- OU 4 includes IR Sites 8, 9, 10, 12, and 13
- OU 5 includes IR Site 11.

There is no OU designation for IR Sites 6B, 14, and 16. The DON has selected the remedy for IR Sites 1 and 2 in a ROD signed on June 7, 2000; the remedy for IR Sites 3, 4, 5, and 6A in a ROD signed May 19, 1999; the remedy for IR Sites 8 and 10 in a ROD signed on September 29, 2004; and the remedy for Site 9 in a ROD finalized in July 2005.

The RI report (BNI, 1997), the FS reports (Battelle, 2001; BNI, 2001), and the Proposed Plans (Battelle, 2002 and 2004) for IR Sites 11, 12, and 13 have been completed. This ROD addresses soil and groundwater contamination at IR Sites 11, 12, and 13.

The remedial strategy for IR Site 11 consists of:

- Using institutional controls in the form of land use covenants (LUCs) to maintain port-related and industrial land use and to prevent unauthorized disturbance of soil and groundwater.
- Using groundwater monitoring to ensure that contaminants left in place in the groundwater do not migrate to surface waters at concentrations in excess of California Ocean Plan limits (SWRCB, 2001).

For IR Sites 12 and 13, in addition to LUCs and groundwater monitoring, the remedial strategy for IR Site 12 consists of maintaining pavement and other surface improvements made by the Port of Long Beach.

The RD/RA Work Plan will include a description of how the remedy will be implemented to maintain protectiveness and meet requirements of the RAOs.

For all sites, groundwater monitoring will be performed to monitor whether groundwater contaminants in excess of California Ocean Plan limits (SWRCB, 2001) are migrating to surface waters.

5.0: SITE CHARACTERISTICS

This section presents a brief overview of the scope of contamination at IR Sites 11, 12, and 13. More comprehensive information on the characteristics of IR Sites 11, 12, and 13 can be found in the RI report (BNI, 1997) and the FS reports (Battelle, 2001 and BNI, 2001) for the sites.

5.1 IR Site 11

IR Site 11 is the hillside east of Dry Dock No. 1. It is a north-south strip of land about 1,700 ft long, located in the eastern part of the LBNSY (Figure 1-5). Dry Dock No. 1 is located about 300 ft west of the site, and the West Basin of Long Beach Harbor is adjacent to the southwestern corner of the site.

IR Site 11 has a steep, west-facing embankment (hillside) along most of its western side. The embankment is made of soil and is covered by vegetation. It ranges in height from about 24 ft at its northern end to about 17 ft at a retaining wall in the middle. From the retaining wall to the southern end of the site, the embankment is only 4 to 5 ft high. The southern end of the site, referred to as the “level area,” is covered by shotcrete.

East of the embankment, IR Site 11 is essentially flat, at an elevation of about 16 ft above mllw. An asphalt roadway crosses the site between Parking Lots A and F. North of this roadway, IR Site 11 consists only of the embankment (northern hillside) adjacent to the eastern side of IR Site 10. South of the roadway, IR Site 11 widens to a maximum width of about 250 ft and contains an oil production easement in which active oil production wells and associated pipelines are located. The middle part of the site, east of the southern embankment and oil production easement, is currently paved with asphalt. The southern part of the site, east of the shotcreted area, is unpaved.

5.1.1 Site Inspection

Potential sources of contamination at IR Site 11 were identified based on the history of site use, information from previous studies and investigations, and the chemical characteristics of the site. The source of contamination at IR Site 11 is spent sandblast grit, which contains heavy metals and possibly tributyltin. Sandblast grit was removed to a level area of the site and covered with wire mesh and shotcrete as part of an earlier removal action. The potential currently exists for leaching of heavy metals, such as arsenic, copper, and lead, from sandblast grit into groundwater.

5.1.2 Remedial Investigation/Supplemental Groundwater Investigation

The RI for IR Site 11 (JEG, 1993a) specified the following objectives for the site:

- Estimate the volume/area of sandblast grit for a removal action
- Evaluate whether groundwater was impacted by the metals contamination of the sandblast grit

- If data from monitoring wells indicate that groundwater has been impacted, evaluate the lateral and vertical extent of contamination.

The RI for IR Site 11 (JEG, 1993a) specified the following field activities:

- Collect soil samples to identify sandblast grit
- Install monitoring wells up gradient and down gradient of the site
- Install wells to evaluate groundwater quality
- Analyze groundwater for metals, organotins, and other parameters.

Two AOPCs were defined for IR Site 11 (JEG, 1993a). AOPC 1 is the sandblast grit disposal area, and AOPC 2 is groundwater potentially impacted by the sandblast grit disposal area (see Figure 5-1).

5.1.2.1 Results of the Remedial Investigation/Supplemental Groundwater Investigation–Soil

Inorganic contaminants of potential concern (COPCs) at IR Site 11 were defined by comparing the target analyte list (TAL) of metals with a preliminary set of criteria. All organic chemicals representative of site conditions were included in the list of COPCs to be analyzed. The frequency, concentrations, and background data for the contaminants detected in soil at IR Site 11 are presented in Table 5-1.

5.1.2.2 Results of the Remedial Investigation/Supplemental Groundwater Investigation–Groundwater

All analytical data from groundwater samples at IR Site 11 were evaluated for usability in accordance with the United States Environmental Protection Agency's Risk Assessment Guidance for Superfund (RAGS) (U.S. EPA, 1991). All organic chemicals representative of site conditions were included in the list of COPCs to be analyzed. Metals were compared to a preliminary set of criteria to define COPCs.

All organics in groundwater samples from IR Site 11 were below detection limits. In addition, results of all organotin analyses were below detection limits. Thus, no organic COPCs were identified in groundwater beneath IR Site 11. The frequency, concentration, and background data for metal contaminants detected in groundwater at IR Site 11 are presented in Table 5-2.

5.1.2.3 Contaminant Fate and Transport

The migration analyses for IR Site 11 were limited to metals and organic COPCs detected at concentrations above their respective soil screening criteria. Soil COPCs were selected for leaching and transport modeling based on an initial screening calculation to identify the soil COPCs most likely to affect groundwater. The soil leaching model VLEACH (U.S. EPA, 1995b) provided estimates of time-varying leachate concentrations of soil COPCs reaching groundwater. The groundwater transport model AT123D (International Groundwater Modeling Center, 1993) provided estimates of resulting concentration in groundwater beneath the AOPCs and at the SCE wells downgradient of the AOPCs.

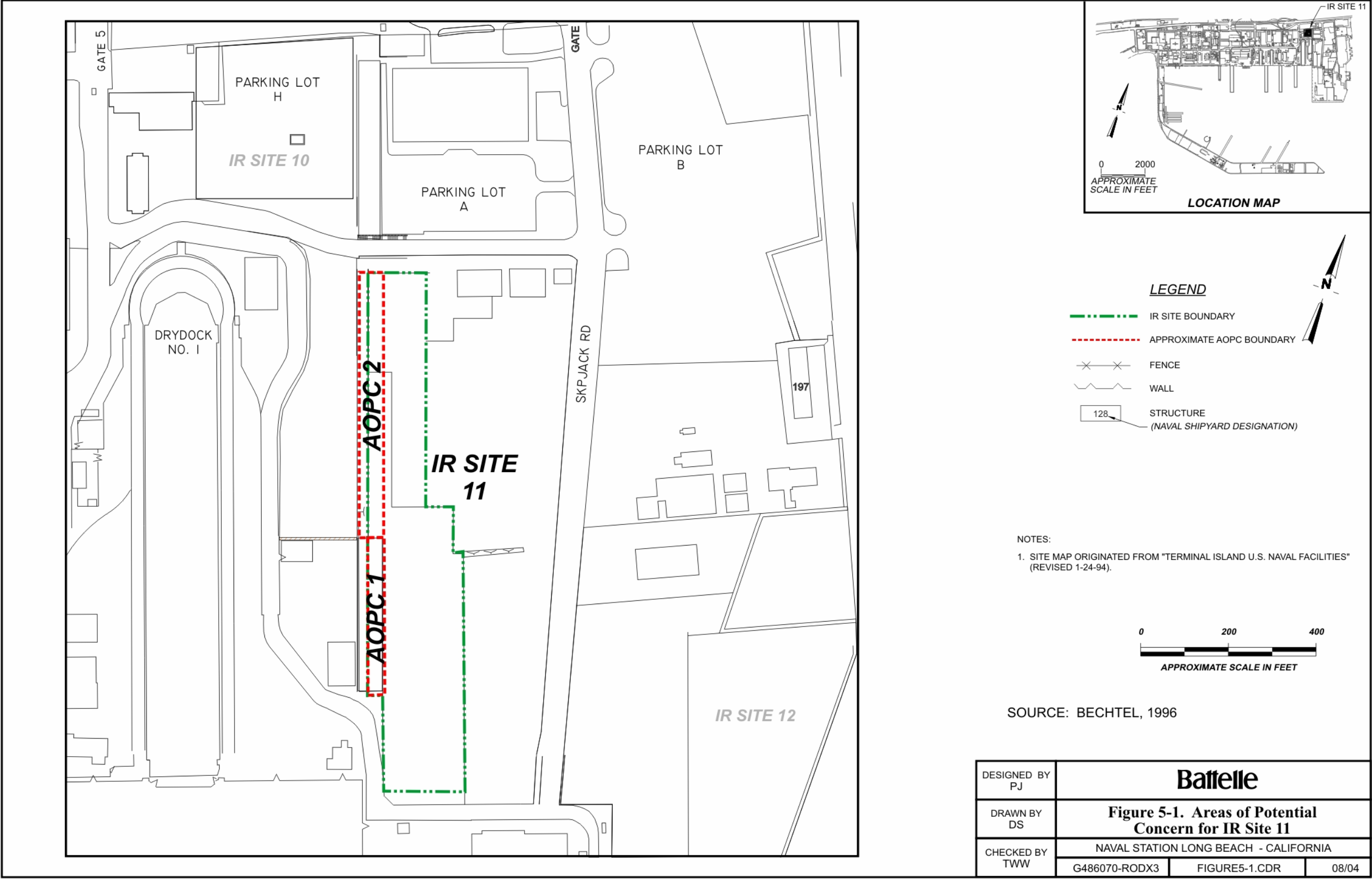


Figure 5-1. Areas of Potential Concern for IR Site 11

Table 5-1. Organic Analytes and Metals Detected in Soil at IR Site 11

Class/Analyte	Detection Frequency	Concentration Range (mg/kg)	Soil Industrial PRG or Background Threshold (mg/kg) ^(a)	Ratio of Maximum Concentration to PRG or Background
SVOCs				
2-Methyl naphthalene	1/5	ND to 0.039	800 ^(b)	<0.01
Acenaphthene	1/5	ND to 0.018	360	<0.01
Anthracene	1/5	ND to 0.063	19	<0.01
Benzo(a)anthracene	2/6	ND to 0.59	2.6	0.23
Benzo(a)pyrene	2/6	ND to 1	0.26	3.85
Benzo(b)fluoranthene	2/6	ND to 1.3	2.6	0.50
Benzo(g,h,i)perylene	2/6	ND to 2.8	800 ^(b)	<0.01
Benzo(k)fluoranthene	2/6	ND to 0.67	26	0.03
bis(2-ethylhexyl) phthalate	1/5	ND to 0.24	140	<0.01
Butylbenzylphthalate	1/5	ND to 0.12	100,000	<0.01
Carbazole	1/5	ND to 0.032	95	<0.01
Chrysene	3/6	ND to 0.76	24	0.03
Dibenz(a,h)anthracene	2/6	ND to 0.83	0.26	3.19
Dibutylphthalate	1/5	ND to 0.026	68,000	<0.01
Fluoranthene	2/5	ND to 0.67	27,000	<0.01
Indeno(1,2,3-cd)pyrene	2/6	ND to 1.1	2.6	0.42
Phenanthrene	2/5	ND to 0.25	800 ^(b)	<0.01
Pyrene	3/6	ND to 1.2	20,000	<0.01
Organotins				
Dibutyltin	2/10	ND to 0.001	20 ^(b)	<0.01
Tributyltin	2/10	ND to 0.004	20 ^(b)	<0.01
Metals				
Aluminum	20/20	6,180 to 29,600	28,850	1.03
Antimony	20/20	0.34 to 7.8	11.3	0.69
Arsenic	20/20	2.2 to 32.3	17.5	1.85
Barium	20/20	56.4 to 579	275	2.11
Beryllium	11/20	ND to 0.69	1.4	0.49
Cadmium	13/20	ND to 2	1.7	1.18
Calcium	20/20	2,240 to 113,000	NA	NA
Chromium (total)	20/20	10.4 to 244	60.9	4.00
Chromium ⁶⁺	1/1	0.003	NA	NA
Cobalt	20/20	5.3 to 65.5	24.5	2.67
Copper	20/20	7.1 to 3,360	798.7	4.21
Iron	20/20	11,400 to 121,000	48,500	2.49
Lead	20/20	2.4 to 285	185.2	1.54
Magnesium	20/20	3,070 to 17,300	NA	NA
Manganese	20/20	150 to 3,350	867	3.86
Mercury	16/20	ND to 0.8	2.5	0.32
Nickel	15/20	ND to 89.3	32.6	2.74
Potassium	10/20	ND to 4,200	NA	NA
Selenium	6/20	ND to 4.7	1.4	3.36
Silver	8/20	ND to 1.4	1.5	0.93
Sodium	8/20	ND to 1,440	NA	NA
Thallium	9/20	ND to 4.9	4.2	1.17
Vanadium	20/20	19.6 to 102	84.9	1.20
Zinc	18/20	ND to 3,630	844.9	4.30

(a) Industrial soil PRG (U.S. EPA, 2000) used for organic analytes, and background threshold determined during the RI (BNI, 1997) used for metals.

(b) Surrogate PRG assigned – naphthalene for PAHs without PRGs, and tributyltin oxide for organotins.

Note: Some organic chemicals may be eliminated from the COPC candidacy list as possible laboratory contaminants if (1) they are potential lab contaminants, or (2) they are detected at very low frequencies and low concentrations, and/or (3) they are reported only as estimated values.

Table 5-2. Metals Detected in Groundwater at IR Site 11

Class/Analyte	Detection Frequency	Concentration Range (µg/L)	Background Threshold (µg/L)	Ratio of Maximum Concentration to Background	California Ocean Plan Limiting Concentration (µg/L) ^(a)
<i>Metals</i>					
Antimony	2/3	ND to 2.8	61.6	0.05	NA
Arsenic	2/3	ND to 8.7	27.6	0.32	8
Barium	3/3	57.5 to 85.6	177.7	0.48	NA
Cadmium	1/3	ND to 0.22	1.7	0.13	1
Calcium	3/3	204,000 to 75,000	NA	NA	NA
Chromium (total)	2/3	ND to 2.6	2.9	0.90	2
Cobalt	2/3	ND to 1.5	7.1	0.21	NA
Iron	3/3	417 to 3,130	14,398	0.22	NA
Magnesium	3/3	373,000 to 1,190,000	NA	NA	NA
Manganese	3/3	182 to 895	4,710	0.19	NA
Mercury	1/3	ND to 0.047	0.9	0.05	0.04
Nickel	1/3	ND to 15.8	95.8	0.16	5
Potassium	3/3	195,000 to 498,000	NA	NA	NA
Silver	1/3	ND to 1.4	7.2	0.19	0.7
Sodium	3/3	4,180,000 to 9,830,000	NA	NA	NA
Thallium	2/3	ND to 4.4	7.5	0.59	NA
Vanadium	2/3	ND to 2.4	10.7	0.22	NA
Zinc	1/3	ND to 2.3	291.0	<0.01	1

(a) Water Quality Objectives (SWRCB, 2001) for protection of marine aquatic life. Six-month median limiting concentrations.

(b) Background thresholds determined during the RI (BNI, 1999) for metals.

Conceptual Model. The vadose zone beneath IR Site 11 is composed of undifferentiated construction/hydraulic fill of fine-grained silty sand and sand with lesser amounts of sandy silt, silt, and clay. The water table occurs within the fill, which overlies a silty sand and sand unit. The thickness of the upper sands (fill and underlying sand) ranges from about 30 to 60 ft. Within AOPC 1, along the southern end of IR Site 11 (see Figure 5-1), the shallow water table is 17 ft bgs. The leaching migration analysis assumed a water table depth of 15 ft.

Most of AOPC 2, north of AOPC 1 (see Figure 5-1), is a west-facing slope where the shallow water table is between 19 and 25 ft bgs beneath the crest of the slope, and between 1 and 3 ft bgs along most of the toe of the slope. Minor seepage occurs along a portion of the toe. The leaching analysis assumed a 6-ft-bgs average depth to groundwater for AOPC 2. In addition, sand-blast grit was assumed to be limited to the upper 3 ft of soil at AOPC 2. The transport analysis assumed a saturated thickness of 30 ft.

The general trend of groundwater flow for IR Site 11 is northward to the dewatering system at SCE. In addition, minor, localized influence on groundwater flow direction likely occurs in the vicinity of the groundwater seepage from the toe. Water-level data do not reflect any influence on groundwater flow by the Dry Dock No. 1 dewatering system.

Groundwater velocity at IR Site 11 was estimated as about 25 ft per year, assuming a hydraulic conductivity of 2.5 ft per day, a northward hydraulic gradient of 0.01, and an effective porosity of 0.35.

Contaminant Migration. Both organic chemicals and metals were COPCs for both AOPCs at IR Site 11.

Metal COPCs at AOPC 1. The concentrations of aluminum, arsenic, barium, chromium, cobalt, copper, lead, manganese, nickel, thallium, vanadium, and zinc in soil at IR Site 11, AOPC 1 exceed their soil background thresholds. A vadose-zone screening analysis was performed for these metals using the Summers model (U.S. EPA, 1989b). The results for the scenario of future soil leaching under existing, paved conditions showed that concentrations of three metals (copper, thallium, and zinc) might exceed California Ocean Plan limits and background thresholds in the groundwater under the AOPC. The leaching screening analysis for the unpaved scenario showed that six metals (arsenic, copper, lead, nickel, thallium, and zinc) may affect groundwater beneath AOPC 1 at concentrations above California Ocean Plan limits and above background thresholds.

These COPCs were analyzed further using the VLEACH model to calculate their leaching rates to groundwater. The AT123D model then was used to calculate the resulting groundwater concentrations beneath the AOPC and the nearest SCE dewatering wells. The modeling results for the scenario of future leaching under existing, paved conditions showed that copper and zinc would affect groundwater beneath AOPC 1 at concentrations above California Ocean Plan limits but below their respective groundwater background threshold concentrations. The modeling results also showed that thallium would affect groundwater at AOPC 1 at a concentration below its California Ocean Plan limit. For the SCE wells, the modeling results showed that the metals would affect groundwater at concentrations below California Ocean Plan limits.

For the unpaved scenario, the VLEACH and AT123D modeling results showed that two metals, copper and zinc, would affect groundwater at AOPC 1 at concentrations above California Ocean Plan limits, but below groundwater background threshold concentrations. The modeling results also showed that arsenic and thallium would affect groundwater at concentrations at slightly below California Ocean Plan limits. However, when combined with average detected groundwater concentrations, these metals would exceed California Ocean Plan limits. Arsenic would be below its groundwater background threshold concentration, and thallium would be above its groundwater background threshold concentration.

The average detected groundwater concentration for nickel beneath IR Site 11 presently exceeds its California Ocean Plan limit, but not its background threshold concentration. In addition, modeling results showed that future leaching would not significantly increase the existing detected concentration. For the SCE wells, the modeling results showed that the metals would affect groundwater at concentration below California Ocean Plan limits.

Organic COPCs at AOPC 1. The vadose-zone screening results for the scenario of existing, paved conditions at AOPC 1 showed that two PAHs, phenanthrene and pyrene, might affect groundwater at concentration above California Ocean Plan limits. For the unpaved scenario, the

screening analysis showed that one semivolatile organic compound (SVOC), tributyltin, and 11 polycyclic aromatic hydrocarbons (PAHs) might affect groundwater at AOPC 1 at concentrations above California Ocean Plan limits. These COPCs were further evaluated for transport in groundwater using the VLEACH and the AT123D modeling programs.

For scenarios of both existing, paved conditions and hypothetical 2-year unpaved conditions, the VLEACH and AT123D modeling results showed that the organic COPCs would affect groundwater beneath AOPC 1 and at the SCE wells at concentration below California Ocean Plan limits.

No further action was recommended for IR Site 11, AOPC 1 (BNI, 1997).

Metal COPCs at AOPC 2. The concentrations of arsenic, barium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, and zinc in the soil at IR Site 11, AOPC 2 exceed their soil background thresholds. A vadose-zone screening analysis was performed for these metals using the Summers model (U.S. EPA, 1989b). The results for both infiltration scenarios (existing, paved conditions and hypothetical 2-year unpaved conditions) showed that seven metals (arsenic, cadmium, copper, lead, nickel, selenium, and zinc) might affect groundwater at AOPC 2 at concentrations above California Ocean Plan limits and above groundwater background thresholds. These COPCs were analyzed further using the VLEACH modeling program to calculate their leaching rates to groundwater and the AT123D modeling program to calculate the resulting groundwater concentrations beneath AOPC 2 and the nearest SCE dewatering wells.

The modeling results for the scenario of existing, paved conditions showed that five metals (arsenic, cadmium, copper, nickel, and zinc) would affect groundwater beneath AOPC 2 at concentrations above California Ocean Plan limits and above background thresholds. For selenium, the modeling results showed that groundwater would be affected at a concentration above the California Ocean Plan limit, but that the groundwater background threshold would not be exceeded. With the existing, paved infiltration scenario for lead, the modeling results showed that groundwater would be affected at a concentration below the California Ocean Plan limit. For the SCE wells, the modeling results showed that all metals would affect groundwater at concentrations below California Ocean Plan limits.

For the unpaved scenario, the modeling results indicated that the metals would affect groundwater beneath AOPC 2 and at the SCE wells at concentrations below California Ocean Plan limits and below background thresholds. The average detected groundwater concentration for nickel beneath IR Site 11 presently exceeds its California Ocean Plan limit. However, modeling results show that future leaching would not significantly increase the existing detected concentrations.

Organic COPCs at AOPC 2. The Summers model (U.S. EPA, 1989b) was used to assess the leaching potential to groundwater for the organic COPCs in soil at IR Site 11, AOPC 2. Results of analyses for both infiltration scenarios (existing, paved conditions and hypothetical 2-year unpaved conditions) showed that nine PAHs (benzo[a]anthracene, benzo[b]fluoranthene, benzo[g,h,i]-perylene, benzo[k]fluoranthene, chrysene, dibenz[a,h]anthracene, indeno[1,2,3-c,d]-

pyrene, phenanthrene, and pyrene) might affect groundwater at AOPC 2 at concentrations above the California Ocean Plan limit for total PAHs. Thus, these COPCs were further evaluated for transport in groundwater using the VLEACH and AT123D modeling programs.

The modeling results for existing, paved conditions showed that individual PAHs would affect groundwater at AOPC 2 at concentrations below California Ocean Plan limits. However, the sum of all PAHs may affect groundwater at AOPC 2 at a concentration slightly above the California Ocean Plan limit. For the SCE wells, the modeling results for all PAHs showed that groundwater would be affected at concentrations below California Ocean Plan limits. For the unpaved scenario, the modeling results showed that individual PAHs would affect groundwater at AOPC 2 and at the SCE wells at concentrations below California Ocean Plan limits.

No further action was recommended for IR Site 11, AOPC 2 (BNI, 1997).

5.2 IR Site 12

IR Site 12 is located in the eastern part of the former LBNSY on Pier T (former Pier Echo) (see Figure 1-2). The dimensions of the site are approximately 800 ft by 600 ft. It is essentially flat and was largely paved with asphalt from 1994 until 2001. The redevelopment of the former LBNSY to date has included the removal of all buildings and surface structures in the site vicinity and added landscaping, paved roadways, and a parking area for the new Port of Long Beach Maintenance and Repair facility and shipping container storage yard.

The former LBNSY storm drain system collected surface drainage from the site vicinity and conveyed it to the West Basin of Long Beach Harbor, about 500 ft west of the southwestern corner of the site. The Long Beach Back Channel is from 500 to 700 ft east of the eastern border of the site.

Local oil exploration and production activities have been conducted throughout IR Site 12 since the early 1950s (NEESA, 1983). These activities led to subsidence and the initiation of water injection as a mitigation measure.

5.2.1 Site Investigation

Potential sources of contamination at IR Site 12 were identified based on the history of the site use, information from previous studies and investigations, and the chemical characteristics of the site.

Historically, sandblast grit/paint chips disposed at IR Site 12 may have contained metals and organotins. In addition, drum-crushing operations on the site may have led to contamination. Although drums were reportedly emptied before crushing, their original contents included epoxy-based paints and cleaning solvents such as TCE, lubricating oils, and other petroleum-based products.

Sources of contamination in the drum-crushing area of IR Site 12 included surface spills and asphalt material encountered beneath the surface. Subsurface soils at the site appeared to be contaminated from infiltration and leaching of wastes from the surface because the concentration

profile decreases with depth. Although the presence of tributyltin was not confirmed, sandblast grit contaminated with other metals and organotins was considered a potential subsurface source of contamination in Parking Lot X (see Figure 1-6). Non-tributyltin sandblast grit possibly exposed at the surface in Parking Lot X also was considered a potential source of contamination.

Data from other naval facilities that tested sandblast grit contaminated with tributyltin showed that, under worst-case conditions, sandblast grit could cause tributyltin to impact groundwater under IR Sites 12 and 13. Leaching of other metals from the sandblast grit also was considered a potential source of groundwater contamination.

5.2.2 Remedial Investigation/Supplemental Groundwater Investigation

The RI for IR Site 12 (JEG, 1993b) specified the number and location of sampling points for subsurface soil and groundwater and the general area of geophysical investigation. The RI also specified objectives, studies, and field activities for the sites, which were revised following an aerial photograph review (BNI, 1994b).

During the RI, sampling was conducted using a phased approach, including planned (phase 1) sampling, and conditional (phase 2) sampling based on preliminary results from phase 1. Sampling included soil sampling, in situ groundwater sampling, CPTs, installation of and sampling from groundwater monitoring wells, aquifer testing, and groundwater elevation monitoring. The locations of soil borings, monitoring wells, and CPTs for IR Site 12 are shown in Figure 5-2.

5.2.2.1 Results of the Remedial Investigation/Supplemental Groundwater Investigation—Subsurface Soil

Soil samples were collected at IR Site 12 and analyzed for organic chemicals and metals, as specified in the SAP (JEG, 1993a) and subsequent technical memoranda (BNI, 1994b and BNI, 1995a). COPCs at IR Site 12 were defined by comparing their concentrations with a preliminary set of criteria. The comparison values for metal analytes in soil were their calculated background threshold concentrations. The comparison values for organic analytes were the U.S. EPA preliminary remediation goals (PRGs) for industrial land use (U.S. EPA, 1995a).

The COPCs detected in IR Site 12 soil included 14 TAL metals detected above background thresholds and organic compounds including VOCs, SVOCs (PAHs, phthalates, and phenol), pesticides, PCBs, and organotins (BNI, 1997). Table 5-3 lists these constituents and shows the ratio of the maximum detected concentration of each to its respective comparison value.

Because they were found in soil above their threshold concentrations, the RI report (BNI, 1997) identified the following metals as COPCs for soil at IR Site 12: aluminum; antimony; arsenic; barium; chromium (total); cobalt; copper; iron; lead; manganese; mercury; nickel; vanadium; and zinc. The organic COPCs found in soil at IR Site 12 above industrial soil PRGs included the PAHs anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)-fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno[1,2,3-c,d]pyrene. All VOCs, phthalates, pesticides, PCBs, and organotins were below their respective PRGs.

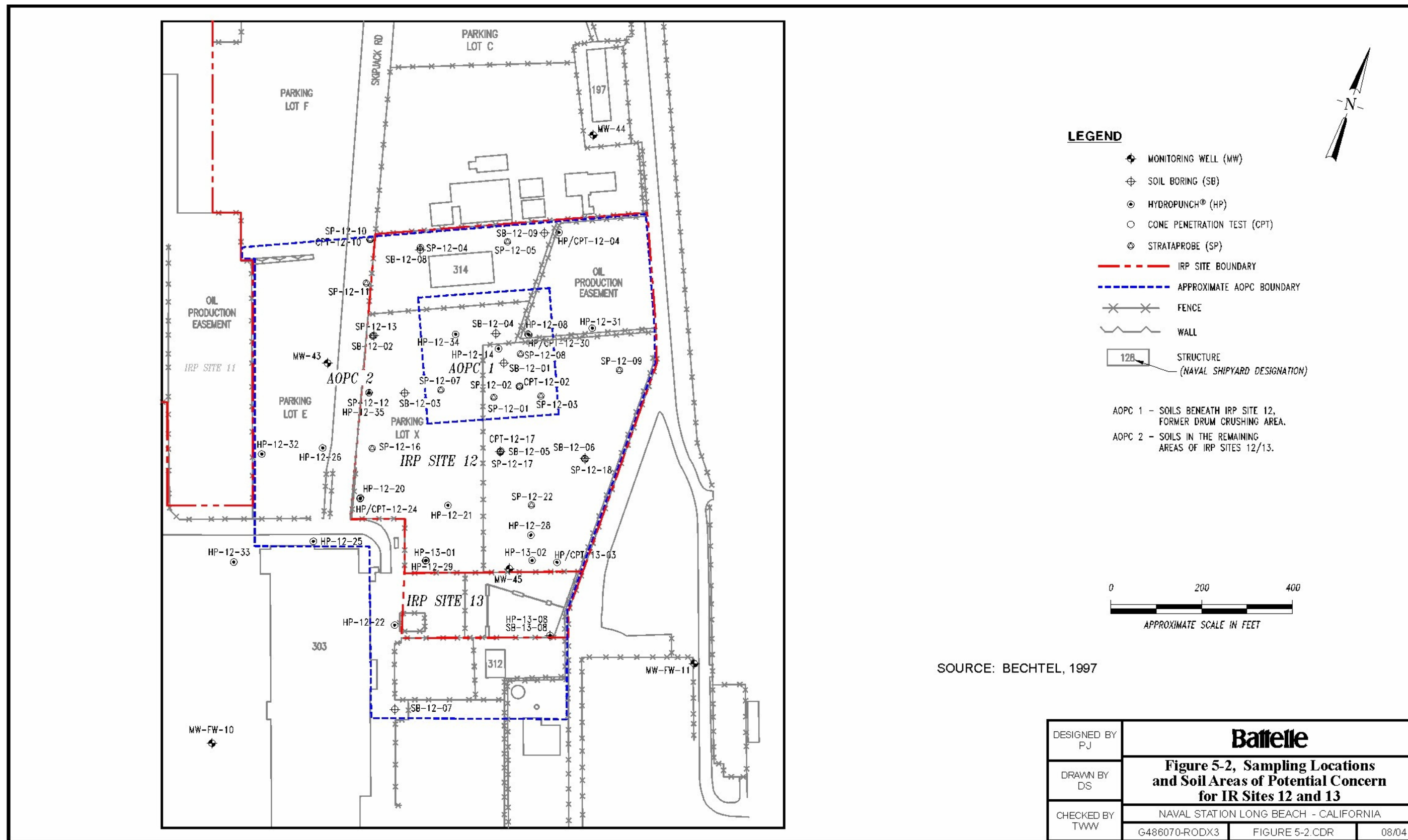


Figure 5-2. Sampling Locations and Soil Areas of Potential Concern for IR Sites 12 and 13

Table 5-3. Organic Analytes and Metals Detected in Soil at IR Site 12

Class/Analyte	Frequency of Detection ^(b)	Concentration Range (mg/kg)	Soil Industrial PRG or Background Threshold ^(c) (mg/kg)	Ratio of Maximum Concentration to PRG or Background
VOCs				
1,1,1-Trichloroethane	1/16	ND to 0.002	3,000	<0.01
Carbon disulfide	1/16	ND to 0.002	52	<0.01
Ethylbenzene	1/16	ND to 2.6	3,100	<0.01
Methyl ethyl ketone	1/16	ND to 0.004	34,000	<0.01
Methylene chloride	1/16	ND to 0.003	25	<0.01
Tetrachloroethylene	1/16	ND to 0.006	25	<0.01
Toluene	1/16	ND to 4.4	2,700	<0.01
Xylenes (total)	5/16	ND to 21	980	0.02
SVOCs				
1,2,4-Trichlorobenzene	1/81	ND to 0.026	5,900	<0.01
2-Methylnaphthalene	16/81	ND to 92	800 ^(a)	0.12
4-Methylphenol	4/81	ND to 0.170	3,400	<0.01
Acenaphthene	5/81	ND to 66	360	0.18
Anthracene	8/81	ND to 22	19	1.16
Benzo(a)anthracene	35/137	ND to 30	2.6	11.54
Benzo(a)pyrene	36/137	ND to 24	0.26	92.31
Benzo(b)fluoranthene	30/137	ND to 25	26	9.62
Benzo(g,h,i)perylene	31/137	ND to 32	800 ^(a)	0.04
Benzo(k)fluoranthene	18/137	ND to 75	26	2.88
bis(2-ethylhexyl)phthalate	6/81	ND to 1.7	140	0.01
Butylbenzylphthalate	4/81	ND to 2.2	100,000	<0.01
Carbazole	2/81	ND to 68	95	0.72
Chrysene	45/137	ND to 29	24	1.21
Dibenz(a,h)anthracene	14/137	ND to 6.1	0.26	23.46
Dibenzofuran	2/81	ND to 64	2,700	0.02
Dibutyl phthalate	11/81	ND to 1.2	68,000	<0.01
Dimethyl phthalate	1/81	ND to 0.57	100,000	<0.01
Fluoranthene	36/137	ND to 87	27,000	<0.01
Fluorene	7/137	ND to 17	300	0.06
Indeno(1,2,3-cd)pyrene	19/137	ND to 65	2.6	25.00
Naphthalene	8/137	ND to 40	800	0.05
Phenanthrene	24/137	ND to 81	800 ^(a)	0.10
Phenol	1/81	ND to 26	100,000	<0.01
Pyrene	47/137	ND to 54	20,000	<0.01
Pesticides/PCBs				
4,4'-DDD	2/5	ND to 0.0096	7.9	<0.01
4,4'-DDE	2/5	ND to 0.012	5.6	<0.01
4,4'-DDT	1/5	ND 0.013	5.6	<0.01
alpha-Chlordane	2/5	ND to 0.0054	1.5 ^(a)	<0.01
Endosulfan I	1/5	ND to 0.0025	34 ^(a)	<0.01
Endosulfan II	1/5	ND to 0.011	34 ^(a)	<0.01
Endrin aldehyde	1/5	ND to 0.022	200 ^(a)	<0.01
Endrin ketone	1/5	ND to 0.006	200 ^(a)	<0.01
gamma-Chlordane	1/5	ND to 0.0049	1.5 ^(a)	<0.01
beta-HCH	2/5	ND to 0.011	1.1	0.01

Table 5-3. Organic Analytes and Metals Detected in Soil at IR Site 12 (continued)

Class/Analyte	Frequency of Detection ^(b)	Concentration Range (mg/kg)	Soil Industrial PRG or Background Threshold ^(c) (mg/kg)	Ratio of Maximum Concentration to PRG or Background
Pesticides/PCBs (cont'd)				
Heptachlor	1/5	ND to 0.0072	0.42	0.02
Heptachlor epoxide	2/5	ND to 0.016	0.21	0.08
Aroclor 1248	1/7 ^(d)	ND to 0.27	0.34	0.79
Aroclor 1254	1/7 ^(d)	ND to 0.13	19	<0.01
Aroclor 1260	2/7 ^(d)	ND to 0.13	0.34	0.38
Organotins				
Dibutyltin	2/19	ND to 0.004	20 ^(a)	<0.01
Monobutyltin	3/18 ^(e)	ND to 0.004	20 ^(a)	<0.01
Metals				
Aluminum	68/68	4,280 to 29,400	28,850	1.02
Antimony	66/68	ND to 15.8	11.3	1.40
Arsenic	68/68	2.3 to 49	17.5	2.80
Barium	68/68	24.2 to 1,190	275	4.33
Beryllium	54/68	ND to 0.57	1.4	0.41
Cadmium	7/68	ND to 0.5	1.7	0.29
Calcium	64/68	ND to 114,000	NA	NA
Chromium (total)	66/68	ND to 268	60.9	4.40
Cobalt	68/68	4.4 to 40.9	24.5	1.67
Copper	58/68	ND to 3,060	798.7	3.83
Iron	68/68	8,730 to 110,000	48,500	2.27
Lead	66/68	ND to 2,080	185.2	11.23
Magnesium	62/68	ND to 17,000	NA	NA
Manganese	68/68	129 to 2,250	867	2.60
Mercury	35/68	ND to 5.8	2.5	2.32
Nickel	60/68	ND to 47.3	32.6	1.45
Potassium	54/68	ND to 6,810	NA	NA
Selenium	8/68	ND to 1.2	1.4	0.86
Silver	4/68	ND to 1.2	1.5	0.80
Sodium	43/68	ND to 2,020	NA	NA
Thallium	58/68	ND to 3.5	4.2	0.83
Vanadium	68/68	12.5 to 96.9	84.9	1.14
Zinc	58/68	ND to 1,880	844.9	2.23
Other				
TRPH	5/6	ND to 3,990	1,000 ^(a)	3.99

- (a) Surrogate PRG assigned—naphthalene for PAHs without PRGs, chlordane for *alpha*- and *gamma*-chlordane, endosulfan for endosulfan I and endosulfan II, endrin for endrin aldehyde and endrin ketone, and tributyltin oxide for organotins; 1,000 mg/kg value for TRPH is the *LUFT Manual* (SWRCB, 1989) maximum allowable TPH-D value for sites with medium leaching potential.
- (b) Total number of samples includes field duplicates. For the combination of SVOCs and PAHs, some samples are counted twice, due to SVOC and PAH analyses being performed on the same sample.
- (c) Industrial PRG (U.S. EPA, 1995a) used for organic analytes, and background threshold used for metals.
- (d) Total number of samples is 7 due to two additional samples analyzed only for PCBs (not pesticides).
- (e) Total number of samples is 18 due to one sample result rejected during validation.

Bold indicates maximum results greater than PRG (organics) or background (metals).

As a result of the distribution of contaminants in soil at IR Site 12, two subsurface soil AOPCs were identified for IR Sites 12 and 13 (see Figure 5-2):

- Soil AOPC 1, soils beneath IR Site 12, former drum-crushing area
- Soil AOPC 2, soils beneath the remainder of IR Sites 12 and 13.

Because of PAHs in the soil, further action was recommended for Soil AOPC 1 (BNI, 1997). No further action was recommended for Soil AOPC 2 (BNI, 1997).

5.2.2.2 Results of the Remedial Investigation/Supplemental Groundwater Investigation—Groundwater

All analytical data from groundwater samples at IR Site 12 were evaluated for usability in accordance with the RAGS (U.S. EPA, 1991). All organic chemicals representative of site conditions were included in the list of COPCs to be analyzed. Metals were compared to a preliminary set of criteria to define COPCs.

The frequency, concentration, and background data for metal contaminants detected in groundwater at IR Site 12 during the RI (BNI, 1997) are presented in Table 5-4.

Organic analytes measured in groundwater at IR Site 12 included acetone, phthalates, and isophorone. All of the organic analytes found groundwater at IR Site 12 were below their respective PRG screening criteria.

Concentrations of TAL metals in groundwater samples from several IR Site 12 locations were above background threshold concentrations. The distribution of these metal analytes in groundwater above background thresholds is shown in Figure 5-3. Because they were found in groundwater above their threshold concentrations, the following metals were identified as COPCs for groundwater at IR Site 12: arsenic; barium; cobalt; iron; manganese; nickel; selenium; thallium; and vanadium.

A review of historical aerial photographs, local hydrogeology, and subsequent confirmation soil sampling showed that the source of these elevated metal concentrations was probably related to a former (now buried) ground surface that is currently situated at the groundwater table due to regional subsidence (BNI, 1999). In natural environments, iron and manganese oxides are concentrated in the subsurface soil due to weathering. Arsenic and other metals may be adsorbed in these oxides.

As a result of the distribution of metal contaminants in groundwater, two groundwater AOPCs were identified for IR Site 12:

- Groundwater AOPC 1, dissolved arsenic in the upper coarse-grained water-bearing interval at IR Site 12
- Groundwater AOPC 2, dissolved manganese-nickel-cobalt plume in the upper coarse-grained water-bearing interval at IR Sites 12 and 13.

Table 5-4. Organic Analytes and Metals Detected in Groundwater at IR Site 12

Class/Analyte	Frequency of Detection ^(a)	Concentration Range (µg/kg)	Tap Water PRG or Background Threshold ^(b) (µg /kg)	Ratio of Maximum Concentration to PRG or Background
<i>VOCs</i>				
Acetone	2/3	ND to 9	610	0.01
<i>SVOCs</i>				
Butylbenzylphthalate	1/25	ND to 1	7,300	<0.01
Dibutyl phthalate	9/25	ND to 2	7,300	<0.01
Diethyl phthalate	3/25	ND to 1	29,000	<0.01
Isophorone	1/25	ND to 0.8	71	0.01
<i>Metals</i>				
Antimony	22/31	ND to 25.7	61.6	0.42
Arsenic	23/33 ^(c)	ND to 915	27.6	33.15
Barium	30/31	ND to 361	177.7	2.03
Beryllium	1/30 ^(d)	ND to 0.64	2.0	0.32
Cadmium	5/31	ND to 0.66	1.7	0.39
Calcium	31/31	33,200 to 1,200,000	NA	NA
Chromium (total)	5/31	ND to 2.4	2.9	0.83
Cobalt	18/31	ND to 20.9	7.1	2.94
Copper	6/31	ND to 28.1	107.2	0.26
Iron	26/31	ND to 15,300	14,398	1.06
Magnesium	31/31	50,300 to 1,130,000	NA	NA
Manganese	31/31	203 to 8,920	4,710	1.89
Mercury	1/31	ND to 0.26	0.9	0.29
Nickel	19/31	ND to 155	95.8	1.62
Potassium	27/31	ND to 454,000	NA	NA
Selenium	2/31	ND to 47.6	40	1.19
Silver	3/31	ND to 1.2	7.2	0.17
Sodium	31/31	135,000 to 8,960,000	NA	NA
Thallium	4/31	ND to 9.6	7.5	1.28
Vanadium	12/31	ND to 32.5	10.7	3.04
Zinc	10/31	ND to 237	291	0.81

(a) Total number of samples and number of detects excludes field duplicates and matrix spike samples where regular sample was analyzed; however, if duplicate or spike result was a detect and regular was a nondetect, the higher result was retained (table does not include results for monitoring well MW-45, which is included with IR Site 13 data).

(b) Tap water PRG (U.S. EPA, 1995a) used for organic analytes, and background threshold used for metals.

(c) Total number of samples is 33 due to two additional samples analyzed only for arsenic.

(d) Total number of samples is 30 due to one excluded unverified and unvalidated value.

Bold indicates maximum results greater than PRG (organics) or background (metals).

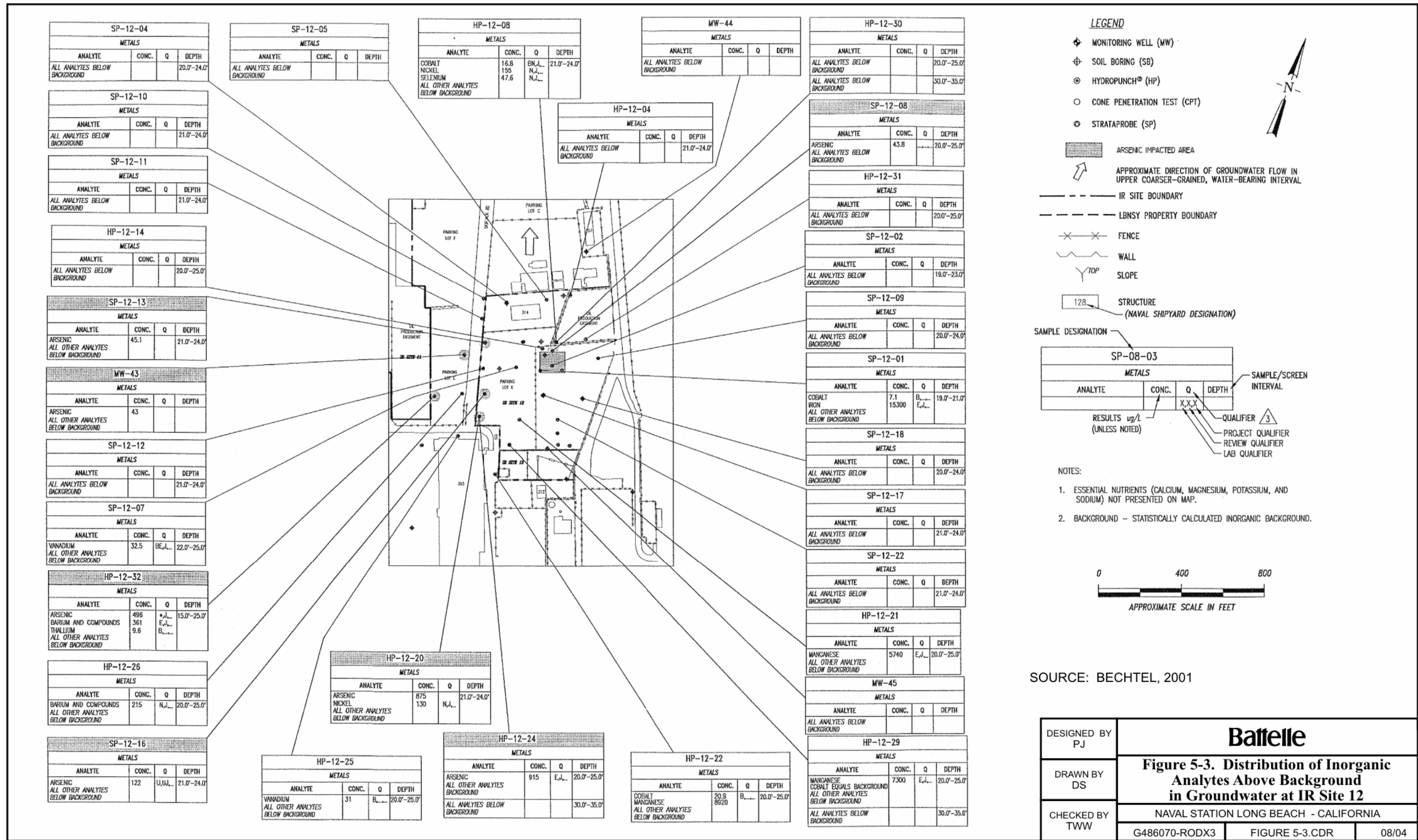


Figure 5-3. Distribution of Inorganic Analytes Above Background in Groundwater at IR Site 12

Because arsenic was measured at concentrations above the risk-based screening criteria developed to protect human health and the environment, Groundwater AOPC 1 was recommended for further action (BNI, 1997).

Because nickel was present in concentrations that exceeded risk-based screening criteria at only one location, Groundwater AOPC 2 was not recommended for further action (BNI, 1997).

5.2.2.3 Results of the Remedial Investigation/Supplemental Groundwater Investigation–Vadose Zone Soil

Because metal contaminants were found in groundwater beneath IR Site 12, vadose zone soil samples were collected along with saturated soil near the center of the known groundwater plumes to identify the source of the dissolved arsenic, nickel, manganese, and cobalt in groundwater at IR Site 12. As a result, the RI report (BNI, 1997) identified two vadose zone AOPCs. The size and areal coverage of these vadose zone AOPCs were identical to the size and areal coverage their respective Groundwater AOPCs shown in Figure 5-4.

Because contaminants at Vadose Zone AOPC 1 exceeded screening criteria only infrequently, no further action was recommended for the vadose zone soil at the AOPC (BNI, 1997). However, petroleum hydrocarbons in the soil may have caused the reducing conditions in the groundwater, as oxygen was taken up by biodegradation. In turn, the reducing conditions may have contributed to dissolving of iron and manganese oxides.

No metals concentrations at Vadose Zone AOPC 2 exceeded screening criteria. No further action was recommended for the vadose zone soil at the AOPC (BNI, 1997).

5.2.2.4 Contaminant Fate and Transport

Leaching and transport analysis (vadose-zone and saturated-zone migration analyses) for COPCs at Soil AOPC 1 and Soil AOPC 2 was done to determine whether predicted concentrations of contaminants in groundwater that result from leaching, would exceed surface water quality criteria at potential discharge locations to surface water bodies. Two scenarios were modeled. The first, the paved infiltration scenario, assumed that Soil AOPCs 1 and 2 were paved. The second, the unpaved infiltration scenario, assumed that the Soil AOPCs were entirely uncovered for 2 years and then repaved.

Soil COPCs were selected for leaching and transport modeling based on an initial screening calculation to identify the soil COPCs most likely to affect groundwater. The soil leaching model VLEACH provided estimates of time-varying leachate concentrations of soil COPCs reaching groundwater. The groundwater transport model AT123D provided estimates of resulting concentration in groundwater beneath the AOPCs and at the SCE wells downgradient of the AOPCs.

The vadose zone leaching screening analysis considered the concentrations of the COPCs reported in groundwater in addition to the concentrations contributed by the potential leachate from the Soil AOPCs. The analysis used an unpaved infiltration rate for soil estimated at 10 percent annual precipitation or 1.15 inches/year. A detailed discussion of the fate and transport leaching screening methods are presented in the RI report (BNI, 1997a).

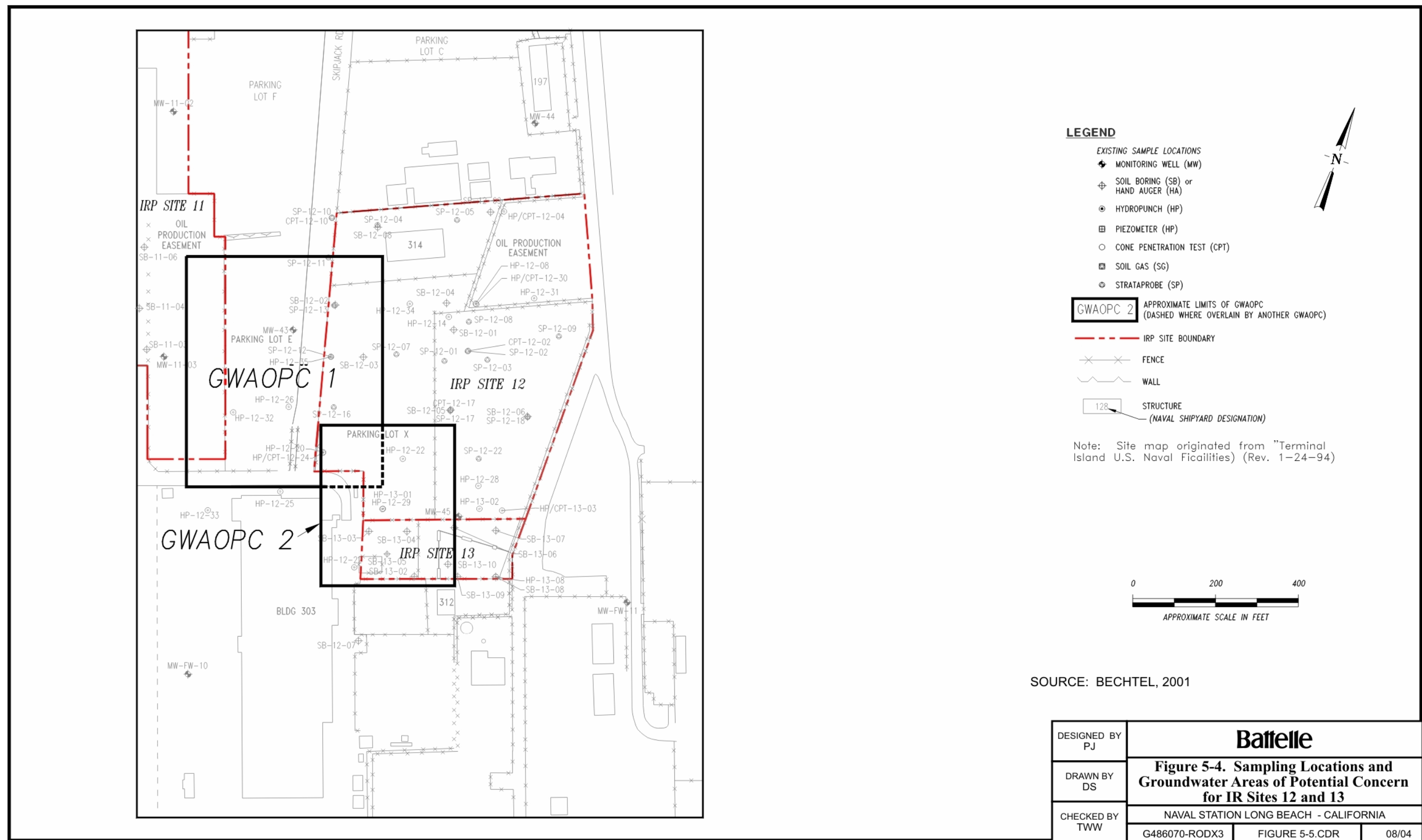


Figure 5-4. Sampling Locations and Groundwater Areas of Potential Concern for IR Sites 12 and 13

A fate and transport analysis for Vadose Zone AOPCs was not conducted separately. The soil and groundwater of these areas, which also are within the boundaries of Soil AOPCs 1 and 2, were included in the analyses for the Soil AOPCs.

The migration analyses for IR Sites 12 and 13 were limited to metals and organic COPCs detected at concentrations above their respective screening criteria.

Conceptual Model. The vadose zone beneath IR Sites 12 and 13 is composed of undifferentiated construction/hydraulic fill of fine-grained silty sand and sand with lesser amounts of sandy silt, silt, and clay. The water table occurs within the fill, which overlies a silty sand and sand unit. The thickness of the upper sands (fill and underlying sands) is about 70 ft. The shallow water table is about 17 to 18.5 ft bgs, and flow is northward toward the dewatering system at SCE. The leaching migration analysis assumed a water table depth of 18 ft.

Although the saturated thickness of the upper coarser-grained, water-bearing interval is about 50 ft at IR Site 12, non-detect analytical results indicate that the IR Site 12 dissolved arsenic plumes are limited to the uppermost 10 to 15 ft of the saturated zone. The transport analyses assumed a saturated thickness of 30 ft. Groundwater velocity was estimated at about 4 ft/year, assuming a hydraulic conductivity of 0.8 ft/day, a hydraulic gradient of 0.005, and an effective porosity of 0.35.

Contaminant Migration. Both organic chemicals and metals were COPCs for Soil AOPC 1 and Soil AOPC 2 at IR Sites 12 and 13.

Metal COPCs in Soil AOPC 1. The concentrations of aluminum, arsenic, barium, chromium, cobalt, copper, lead, manganese, nickel, thallium, vanadium, and zinc in soil at IR Site 12, Soil AOPC 1 exceeded their soil background thresholds. A vadose-zone screening analysis was performed for these metals using the Summers model (U.S. EPA, 1989b). The results for both infiltration scenarios, existing conditions and 2-year unpaved conditions, showed that concentrations of five metals (arsenic, hexavalent chromium, copper, lead, and zinc) might affect groundwater at the AOPC at concentrations above California Ocean Plan limits (SWRCB, 2001) and above groundwater background thresholds. For the leaching analyses, the soil concentrations of hexavalent chromium were assumed to be 0.1 percent of total chromium concentrations.

The COPCs were analyzed further using the VLEACH model to calculate their leaching rates to groundwater. The AT123D model then was used to calculate the resulting groundwater concentrations beneath the AOPC and the nearest SCE dewatering wells. The modeling results for the infiltration scenario of the then-existing conditions showed that arsenic, copper, and zinc would affect groundwater beneath Soil AOPC 1 at concentrations above California Ocean Plan limits (SWRCB, 2001) and above their respective groundwater background threshold concentrations. The modeling results further showed that, under then-existing infiltration conditions, hexavalent chromium and lead would affect groundwater at Soil AOPC 1 at concentrations below their California Ocean Plan limits. For the SCE wells, the modeling results showed that all metals would affect groundwater at concentrations below California Ocean Plan limits.

For the unpaved infiltration scenario, the VLEACH and AT123D modeling results showed that copper would affect groundwater at Soil AOPC 1 at concentrations above its California Ocean Plan limit, but below its groundwater background threshold concentration.

The average detected groundwater concentration for three metals (arsenic, copper, and zinc) at IR Sites 12 and 13 presently exceed California Ocean Plan limits. Modeling results showed that future leaching might increase the existing detected concentrations for these metals, but groundwater concentrations would still remain below background thresholds for copper and zinc. For the SCE wells, the modeling results showed that all the metals would affect groundwater at concentrations below California Ocean Plan limits.

In summary, potential leached concentrations of arsenic, hexavalent chromium, copper, lead, nickel, and zinc from the soil could initially exceed groundwater background thresholds and California Ocean Plan limits (SWRCB, 2001) in groundwater directly beneath Soil AOPC 1. However, no metals in groundwater would exceed the groundwater background thresholds or California Ocean Plan limits upon migrating 2,000 ft to the nearest extraction wells of the SCE dewatering facility.

Organic COPCs in Soil AOPC 1. The leaching potential to groundwater for the organic COPCs at IR Site 12, Soil AOPC 1 was assessed using the Summers model (U.S. EPA, 1989b). The results for both infiltration scenarios, former existing conditions and 2-year unpaved conditions, showed that the concentrations of three VOCs (2-methyl-naphthalene, naphthalene, and xylene), two PCBs (Aroclor 1248 and Aroclor 1260), three SVOCs (carbazole, fluoranthene, and phenol) and 12 PAHs (anthracene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluorine, indeno(1,2,3-c,d)pyrene, phenanthrene, and pyrene) may affect groundwater at concentrations above California Ocean Plan limits (SWRCB, 2001). These COPCs were evaluated for transport in groundwater at Soil AOPC 1 using the VLEACH and AT123T modeling programs. The modeling results for the infiltration scenario of former existing conditions showed that one SVOC (phenol) and four PAHs (anthracene, fluorine, phenanthrene, and pyrene) would affect groundwater beneath the AOPC at concentrations above California Ocean Plan limits (SWRCB, 2001).

The average detected groundwater concentrations of two other PAHs (benzo[g,h,i]perylene and indeno[1,2,3-c,d]pyrene) beneath IR Sites 12 and 13 presently exceed California Ocean Plan limits. However, modeling results showed that future leaching would not significantly increase the existing concentrations. For the SCE wells, the modeling results for former existing conditions showed that no organic COPCs would affect groundwater at concentrations above California Ocean Plan limits.

The modeling results for the infiltration scenario of 2-year unpaved conditions showed that one SVOC (phenol) and three PAHs (anthracene, fluorine, and phenanthrene) would affect groundwater at Soil AOPC 1 at concentrations above California Ocean Plan limits. For the SCE wells, the modeling results for the unpaved scenario showed that no organic COPCs would affect groundwater at concentrations above California Ocean Plan limits.

In summary, organic COPCs, 2-methylnaphthalene, naphthalene, xylenes, Aroclor 1248, Aroclor 1260, carbazole, fluoranthene, phenol, anthracene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluorine, indeno(1,2,3-c,d)pyrene, phenanthrene, and pyrene might initially impact groundwater beneath Soil AOPC 1 at concentrations above California Ocean Plan limits (SWRCB, 2001). However, transport modeling showed that these organic COPCs would not reach the nearest SCE dewatering well at concentrations above the limits.

Metal COPCs in Soil AOPC 2. The concentrations of antimony, arsenic, barium, chromium, cobalt, copper, lead, mercury, nickel, and zinc in soil at IR Sites 12 and 13, Soil AOPC 2 exceeded their soil background thresholds. A vadose-zone screening analysis was performed for these metals using the Summers model (U.S. EPA, 1989b). The results for the infiltration scenarios of former existing conditions showed that concentrations of arsenic, copper, lead, nickel, and zinc might affect groundwater at the AOPC at concentrations above California Ocean Plan limits (SWRCB, 2001) and above groundwater background thresholds. For the unpaved scenario, the screening analysis showed that mercury, additionally, might affect groundwater at a concentration above its California Ocean Plan limit and its background threshold.

These COPCs were analyzed further using the VLEACH model to calculate their leaching rates to groundwater. The AT123D model then was used to calculate the resulting groundwater concentrations beneath the AOPC and the nearest SCE dewatering wells. The modeling results for the infiltration scenario of the then-existing conditions showed that arsenic, copper, and zinc would affect groundwater beneath Soil AOPC 2 at concentrations above California Ocean Plan limits (SWRCB, 2001) and above their respective groundwater background threshold concentrations. The modeling results showed that, under then-existing infiltration conditions, lead and nickel would affect groundwater at Soil AOPC 2 at concentrations above their respective California Ocean Plan limits but below their background thresholds. For the SCE wells, the modeling results showed that all metals would affect groundwater at concentrations below California Ocean Plan limits.

For the unpaved infiltration scenario, the VLEACH and AT123D modeling results showed that copper and zinc would affect groundwater at Soil AOPC 2 at concentrations above California Ocean Plan limits, but below groundwater background threshold concentrations. The modeling results showed that arsenic, lead, mercury, and nickel would affect groundwater at Soil AOPC 2 at concentrations below California Ocean Plan limits.

The average detected groundwater concentration for five metals (arsenic, copper, mercury, nickel, and zinc) at IR Sites 12 and 13 presently exceed California Ocean Plan limits. Modeling results showed that future leaching would slightly increase the existing detected concentrations for these metals, but groundwater concentrations would still remain below background thresholds for copper, mercury, nickel, and zinc. For the SCE wells, the modeling results for the unpaved scenario showed that all of the metals would affect groundwater at concentrations below their respective California Ocean Plan limits.

In summary, potential leached concentrations of arsenic, copper, lead, nickel, mercury, and zinc could initially exceed groundwater background thresholds and California Ocean Plan limits

(SWRCB, 2001) in groundwater directly beneath Soil AOPC 2. However, no metals would exceed the groundwater background thresholds or California Ocean Plan limits upon migrating 2,000 ft to the nearest SCE dewatering facility.

Organic COPCs in Soil AOPC 2. The leaching potential to groundwater for organic COPCs at IR Sites 12 and 13, Soil AOPC 2 was assessed using the Summers model (U.S. EPA, 1989b). The screening results for the infiltration scenario of former existing conditions showed that one SVOC (4-methyl-phenol), 12 PAHs, 10 pesticides, and two PCBs might affect groundwater underneath the AOPC at concentrations above California Ocean Plan limits (SWRCB, 2001). The PAHs included anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluorene, indeno(1,2,3-c,d)pyrene, phenanthrene, and pyrene. The pesticides included 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, *alpha*-chlordane, *gamma*-chlordane, endosulfan I, endosulfan II, *beta*-HCH, heptachlor, and heptachlor epoxide. The PCBs included Aroclor 1254 and Aroclor 1260. For the unpaved scenario, the screening analysis showed that one additional SVOC (pentachlorophenol) might affect groundwater at a concentration above California Ocean Plan limits (SWRCB, 2001). These COPCs were evaluated for transport in groundwater using the VLEACH and AT123D modeling programs.

Modeling results for the scenario of former existing conditions showed that heptachlor epoxide and the sum of *alpha*-chlordane and *gamma*-chlordane would affect groundwater beneath Soil AOPC 2 at concentrations above California Ocean Plan limits. The average detected groundwater concentrations for two PAHs (benzo[g,h,i]perylene and indeno[1,2,3-c,d]pyrene) beneath IR Sites 12 and 13 presently exceed California Ocean Plan limits. However, modeling results showed that future leaching would not significantly increase the existing concentrations. For the SCE wells, with former existing infiltration conditions, the modeling results showed that all of the organic COPCs would affect groundwater at concentrations below California Ocean Plan limits.

For the unpaved infiltration scenario, the modeling results showed that *alpha*-chlordane, *gamma*-chlordane, and heptachlor epoxide would affect groundwater beneath Soil AOPC 2 at concentrations above California Ocean Plan limits (SWRCB, 2001). The modeling results also showed that the sum of all of the PAHs might affect groundwater at a concentration slightly above the California Ocean Plan limit. For the SCE well, with the unpaved scenario, all organic COPCs would affect groundwater below California Ocean Plan limits.

In summary, organic COPCs, 2-methylnaphthalene, naphthalene, xylenes, Aroclor 1248, Aroclor 1260, carbazole, fluoranthene, phenol, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluorene, indeno(1,2,3-c,d)pyrene, phenanthrene, and pyrene might initially impact groundwater beneath Soil AOPC 2 at concentrations above California Ocean Plan limits (SWRCB, 2001). However, transport modeling showed that these organic COPCs would not reach the nearest SCE dewatering well at concentrations above those limits.

Summary of Leaching and Transport Results. For the infiltration scenario for former existing conditions at IR Sites 12 and 13, modeling results indicated that the following COPCs would

affect groundwater beneath the Soil AOPCs at concentrations above California Ocean Plan limits (SWRCB, 2001) and above groundwater background threshold concentrations:

- IR Site 12, Soil AOPC 1: one SVOC (phenol), four PAHs (anthracene, fluorene, phenanthrene, and pyrene), and three metals (arsenic, copper, and zinc)
- IR Sites 12 and 13, Soil AOPC 2: three pesticides (heptachlor epoxide, and the sum of *alpha*-chlordane and *gamma*-chlordane) and three metals (arsenic, copper, and zinc).

For the infiltration scenario of 2-year unpaved conditions and then paving, the modeling results showed that the following soil COPCs would affect groundwater beneath the AOPCs at concentrations above California Ocean Plan criteria and above groundwater background threshold concentrations:

- IR Site 12, Soil AOPC 1: one SVOC (phenol) and three PAHs (anthracene, fluorine, and phenanthrene)
- IR Sites 12 and 13, Soil AOPC 2: three pesticides (*alpha*-chlordane, *gamma*-chlordane, and heptachlor epoxide) and the sum of the PAHs.

For both infiltration scenarios, the modeling results showed that leaching of all soil COPCs would affect groundwater at the SCE wells at concentrations below California Ocean Plan limits or below groundwater background threshold concentrations.

With few exceptions, concentrations of soil COPCs did not exceed screening criteria for soil below 5 ft bgs at IR Sites 12 and 13. The exceptions were generally immobile COPCs measured in samples collected above the water table. Seven COPCs (arsenic, manganese, nickel, cobalt, selenium, and two PAHs) whose concentrations exceeded screening criteria (for metals, above background levels) also were found in groundwater beneath IR Sites 12 and 13. With the exception of arsenic, however, these COPCs were found in groundwater at one or two scattered locations, and, in each case, their concentrations measured from surrounding sample locations, were below threshold levels. These data suggest that soil COPCs remain sorbed to shallower soils and have not leached into groundwater. Therefore, off-site movement of contaminants is not likely.

The cause of metal COPCs in groundwater at IR Sites 12 and 13, Vadose Soil AOPC 1 is not considered to be leachate from IR Site 12 surface and shallow subsurface soil. Further, the potential for many of the contaminants present in vadose zone soils at IR Sites 12 and 13 to leach into groundwater is low. The fate and transport analysis identified no contaminants of concern (COCs) for Soil AOPC 2.

Nine COCs, eight organics and one metal, were identified for soil at Soil AOPC 1. The organics are carbazole and the seven PAHs: anthracene; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; and indeno[1,2,3-c,d]pyrene. The metal is arsenic. These chemicals were evaluated in the human health risk assessment (HHRA) to determine whether they could be associated with adverse health effects if exposure occurred.

The current use for IR Sites 12 and 13, primarily as a parking lot for nearby administrative buildings, has involved the addition of clean fill and pavement to the sites' surfaces. Paving of the sites was estimated to reduce the potential for vadose zone leaching by a factor of 144. This estimate was based on the difference between the unpaved infiltration and the paved infiltration rates used in the vadose zone leaching analysis.

A separate fate and transport analysis for groundwater was not conducted. Rather, the concentrations of groundwater COPCs were compared with soil COPCs during the analysis for soils, which were, in turn, compared to California Ocean Plan limits (SWRCB, 2001) for evaluation of potential impact to San Pedro Bay.

If the dissolved arsenic plumes migrate to the SCE dewatering system extraction wells, the concentrations of dissolved arsenic in the groundwater could impact water quality at levels above California Ocean Plan limits. Therefore, the dissolved arsenic in groundwater at IR Sites 12 and 13, Groundwater AOPC 1, was recommended for further action (BNI, 1997).

5.3 IR Site 13

IR Site 13 is contiguous with the southern boundary of IR Site 12 in the eastern part of the former LBNSY on Pier T (former Pier Echo) (see Figure 1-2). It is about 150 ft wide and up to 380 ft long and is situated about midway between (500 ft from) the Long Beach Back Channel to the east and the West Basin of Long Beach Harbor to the west. The former LBNSY storm drain system collected surface drainage from the site vicinity and conveyed it to the West Basin of Long Beach Harbor.

IR Site 13 is essentially flat, with elevations between 19 and 20 ft above mllw, and was largely paved with asphalt until 2001. The redevelopment of the former LBNSY to date has included the removal of all buildings and surface structures in the site vicinity and added landscaping, paved roadways, and a parking area for the new Port of Long Beach Maintenance and Repair facility and shipping container storage yard.

Local oil exploration and production activities have been conducted throughout IR Site 13 since the early 1950s (NEESA, 1983). These activities led to subsidence and the initiation of water injection as a mitigation measure.

5.3.1 Site Investigation

Potential sources of contamination at IR Site 13 were identified based on the history of site use, information from previous studies and investigations, and the chemical characteristics of the site.

Beginning in the early 1970s, IR Site 13 was used as a hazardous waste storage area (tank farm). Both equipment and portable waste storage tanks containing sodium nitrite, citric acid, trisodium phosphate, fire-fighting foam, waste bilge oil, and sulfides were stored on the site (NEESA, 1983). Most of the site was paved, except for a narrow strip of exposed soil at the eastern edge of the site. There were no reports of any large spills or leaks, but some asphalt areas were stained, indicating leakage from drums or releases from tank flushing operations.

The primary source of contamination at IR Site 13 is subsurface contamination that potentially resulted from spills and leaks that migrated through openings in the pavement. Due to the nature of releases at the site, it is likely that contaminant concentrations vary randomly throughout the subsurface. Soil samples taken throughout the area indicated some minimal contamination from heavy metals, SVOCs, and TRPH. However, it was unclear whether downgradient groundwater was impacted.

5.3.2 Remedial Investigation/Supplemental Groundwater Investigation

The RI for IR Site 13 (JEG, 1993b) specified the number and location of sampling points for subsurface soil and groundwater and the general area of geophysical investigation. The RI also specified objectives, studies, and field activities for the sites.

Sampling was conducted using a phased approach, including planned (phase 1) sampling, and conditional (phase 2) sampling based on preliminary results from phase 1. Sampling included soil sampling, in situ groundwater sampling, CPTs, installation of and sampling from groundwater monitoring wells, aquifer testing, and groundwater elevation monitoring. The locations of soil borings, monitoring wells, and CPTs for IR Site 13 are shown in Figure 5-2.

5.3.2.1 Results of the Remedial Investigation/Supplemental Groundwater Investigation—Soil

Soil samples collected at IR Site 13 and were analyzed for organic chemicals and metals, as specified in the SAP (JEG, 1993a) and subsequent technical memoranda (BNI, 1994b and 1995a). As part of the RI (BNI, 1997), COPCs at IR Site 13 were defined by comparing their concentrations with a preliminary set of criteria. The comparison values for metal analytes in soil were their calculated background threshold concentrations. The comparison values used for organic analytes were the U.S. EPA PRGs for industrial land use (U.S. EPA, 1995a).

The COPCs detected in IR Site 13 soil (BNI, 1997) included 2 organic compounds and 3 TAL metals detected above PRGs or background threshold. Table 5-5 lists these constituents and shows the ratio of the maximum detected concentration of each to its respective comparison value.

As a result of the distribution of contaminants in soil at IR Site 13, one subsurface soil AOPC was identified identical to Soil AOPC 2 for IR Site 12 (see Figure 5-2 and Section 5.2.2.1):

- Soil AOPC 2, soils beneath the remainder of IR Sites 12 and 13.

Soil AOPC 2 included soils from the surface to a depth of 11.5 ft bgs. Soil AOPC 2 was not recommended for further action (BNI, 1997). See Section 5.2.2.1 for further discussion.

Table 5-5. Organic Analytes and Metals Detected in Soil at IR Site 13

Class/Analyte	Frequency of Detection ^(b)	Concentration Range (mg/kg)	Soil Industrial PRG or Background Threshold ^(c) (mg/kg)	Ratio of Maximum Concentration to PRG or Background
VOCs				
1,1-Dichloroethane	2/31	ND to 0.040	3,900	<0.01
4-Methyl-2-pentanone	1/31	ND to 0.004	55,000	<0.01
Carbon disulfide	4/31	ND to 0.016	52	<0.01
Chloroform	3/31	ND to 0.007	1.1	<0.01
Ethylbenzene	1/31	ND to 0.008	3,100	<0.01
Xylenes (total)	1/31	ND to 0.048	980	<0.01
SVOCs				
2-Methylnaphthalene	1/32	ND to 4.5	800 ^(a)	<0.01
4-Methylphenol	2/19 ^(d)	ND to 0.084	3,400	<0.01
Acenaphthene	1/32	ND to 0.036	360	<0.01
Anthracene	1/32	ND to 0.1	19	<0.01
Benzo(a)anthracene	7/64	ND to 0.65	2.6	0.25
Benzo(a)pyrene	14/64	ND to 1.1	0.26	4.23
Benzo(b)fluoranthene	9/64	ND to 1.2	2.6	0.46
Benzo(g,h,i)perylene	11/64	ND to 5.8	800 ^(a)	<0.01
Benzo(k)fluoranthene	8/64	ND to 3.5	26	0.13
bis(2-ethylhexyl)phthalate	2/32	ND to 0.33	140	<0.01
Carbazole	1/32	ND to 0.12	95	<0.01
Chrysene	13/64	ND to 5.6	24	0.23
Dibenz(a,h)anthracene	7/63	ND to 1.3	0.26	5.00
Dibenzofuran	1/32	ND to 0.042	2,700	<0.01
Dibutyl phthalate	3/32	ND to 0.16	68,000	<0.01
Fluoranthene	8/64	ND to 1.7	27,000	<0.01
Fluorene	1/32	ND to 2.2	300	<0.01
Indeno(1,2,3-cd)pyrene	8/64	ND to 2.1	2.6	0.80
Pentachlorophenol	1/19 ^(d)	ND to 0.12	7.9	0.02
Phenanthrene	4/64	ND to 11	800 ^(a)	0.01
Pyrene	12/64	ND to 8	20,000	<0.01
Pesticides/PCBs				
4,4'-DDD	2/31	ND to 0.011	7.9	<0.01
4,4'-DDE	2/31	ND to 0.0027	5.6	<0.01
4,4'-DDT	3/31	ND to 0.0028	5.6	<0.01
alpha-Chlordane	3/31	ND to 0.0084	1.5 ^(a)	<0.01
Endosulfan I	2/31	ND to 0.015	34 ^(a)	<0.01
Endosulfan II	3/31	ND to 0.0089	34 ^(a)	<0.01
Endrin aldehyde	6/31	ND to 0.032	200 ^(a)	<0.01
Endrin ketone	2/31	ND to 0.020	200 ^(a)	<0.01
gamma-Chlordane	3/31	ND to 0.013	1.5 ^(a)	<0.01
Heptachlor	2/31	ND to 0.0031	0.42	<0.01
Heptachlor epoxide	2/31	ND to 0.029	0.21	0.14
Methoxychlor	2/31	ND to 0.1	3,400	<0.01
Aroclor 1260	1/31	ND to 0.047	0.34	0.14

Table 5-5. Organic Analytes and Metals Detected in Soil at IR Site 13 (continued)

Class/Analyte	Frequency of Detection ^(b)	Concentration Range (mg/kg)	Soil Industrial PRG or Background Threshold ^(c) (mg/kg)	Ratio of Maximum Concentration to PRG or Background
<i>Metals</i>				
Aluminum	31/31	4,740 to 20,400	28,850	0.71
Antimony	16/31	ND to 3.9	11.3	0.35
Arsenic	31/31	1.5 to 31.8	17.5	1.82
Barium	31/31	41.3 to 203	275	0.74
Beryllium	18/31	ND to 0.39	1.4	0.28
Cadmium	1/31	ND to 0.18	1.7	0.11
Calcium	31/31	1,170 to 81,400	NA	NA
Chromium ⁺⁶	1/1	0.006	NA	NA
Chromium (total)	31/31	9 to 60.9	60.9	1.00
Cobalt	31/31	3.7 to 17.2	24.5	0.70
Copper	31/31	5.4 to 437	798.7	0.55
Iron	31/31	8,270 to 43,900	48,500	0.91
Lead	31/31	0.41 to 166	185.2	0.90
Magnesium	31/31	2,100 to 11,900	NA	NA
Manganese	31/31	144 to 442	867	0.51
Mercury	22/31	ND to 0.94	2.5	0.38
Nickel	31/31	5.5 to 38.4	32.6	1.18
Potassium	31/31	1,030 to 6,060	NA	NA
Sodium	1/31	ND to 2,910	NA	NA
Thallium	24/31	ND to 2.9	4.2	0.69
Vanadium	31/31	16.9 to 60.4	84.9	0.71
Zinc	31/31	19.4 to 629	844.9	0.74

(a) Surrogate PRG assigned—naphthalene for PAHs without PRGs, chlordane for *alpha*- and *gamma*-chlordane, endosulfan for endosulfan I and endosulfan II, and endrin for endrin aldehyde and endrin ketone.

(b) Total number of samples includes field duplicates. For the combination of SVOCs and PAHs, some samples are counted twice, due to SVOC and PAH analyses being performed on the same sample.

(c) Industrial PRG (U.S. EPA, 1995a) used for organic analytes, and background threshold used for metals.

(d) Number of samples does not total 32, due to results rejected during validation.

Bold indicates maximum results greater than PRG (organics) or background (metals).

5.3.2.2 Results of the Remedial Investigation/Supplemental Groundwater Investigation—Groundwater

All analytical data from groundwater samples at IR Site 13 were evaluated for usability in accordance with the RAGS (U.S. EPA, 1991). All organic chemicals representative of site conditions were included in the list of COPCs to be analyzed. Metals were compared to a preliminary set of criteria to define COPCs.

The frequency, concentration, and background data for metal contaminants detected in groundwater at IR Site 13 during the RI (BNI, 1997) are presented in Table 5-6.

Table 5-6. Organic Analytes and Metals Detected in Groundwater at IR Site 13

Class/Analyte	Frequency of Detection ^(a)	Concentration Range (µg /kg)	Tap Water PRG or Background Threshold ^(b) (µg /kg)	Ratio of Maximum Concentration to PRG or Background
VOCs				
Carbon disulfide	1/2	ND to 1	21	0.05
SVOCs				
Diethyl phthalate	1/5	ND to 0.9	29,000	<0.01
Benzo(g,h,i)perylene	1/1	0.074	240 ^(c)	<0.01
Indeno(1,2,3-cd)pyrene	1/1	0.054	0.092	0.59
Metals				
Antimony	3/5	ND to 6.6	61.6	0.11
Arsenic	3/5	ND to 20	27.6	0.72
Barium	5/5	60.1 to 122	177.7	0.69
Calcium	5/5	79,100 to 1,170,000	NA	NA
Cobalt	1/5	ND to 17.1	7.1	2.41
Iron	5/5	1,100 to 8,160	14,398	0.30
Magnesium	5/5	179,000 to 954,000	NA	NA
Manganese	5/5	191 to 9,820	4,710	2.08
Nickel	4/5	ND to 319	95.8	3.33
Potassium	4/5	ND to 377,000	NA	NA
Sodium	5/5	2,440,000 to 8,480,000	NA	NA
Thallium	2/5	ND to 2.5	7.5	0.33
Vanadium	1/5	ND to 6.4	10.7	0.60

(a) Total number of samples and number of detects excludes field duplicates and matrix spike samples where regular sample was analyzed; however, if duplicate or spike result was a detect and regular was a nondetect, the higher result was retained (table includes results for monitoring well MW-45). For the combination of SVOCs and PAHs, some samples are counted twice, due to SVOC and PAH analyses being performed on the same sample.

(b) Tap water PRG (U.S. EPA, 1995a) used for organic analytes, and background threshold used for metals.

(c) Surrogate PRG assigned—naphthalene for PAHs without PRGs.

Bold indicates maximum results greater than PRG (organics) or background (metals).

Organic analytes measured in groundwater at IR Site 13 included carbon disulfide, diethylphthalate, benzo(g,h,i)perylene, and indeno(1,2,3-c,d)pyrene. All of the organic analytes found in groundwater at IR Site 13 were below their respective PRG screening criteria.

The concentrations of TAL metals in groundwater samples from several IR Site 13 locations were above background threshold concentrations (BNI, 1997). The distribution of TAL metals in groundwater above background threshold concentrations is shown in Figure 5-5.

As a result of the distribution of metal contaminants in groundwater at IR Site 13, one groundwater AOPC was identified for IR Site 13, identical to Groundwater AOPC 2 for IR Site 12 (see Figure 5-4 and Section 5.2.2.3):

- Groundwater AOPC 2, dissolved manganese-nickel-cobalt plume in the upper coarse-grained water-bearing interval at IR Sites 12 and 13.

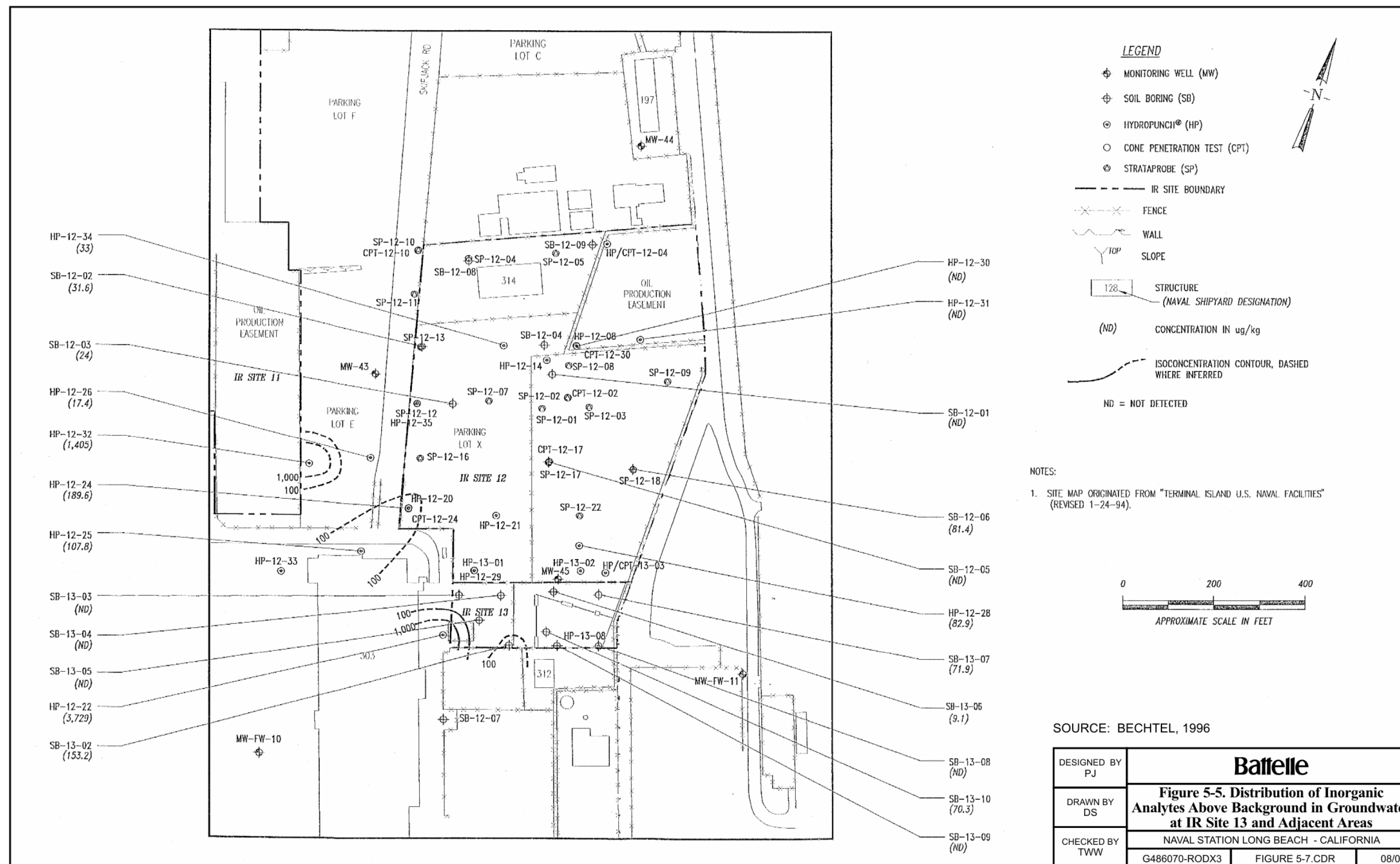


Figure 5-5. Distribution of Inorganic Analytes Above Background in Groundwater at IR Site 13

Groundwater AOPC 2 was not recommended for further action (BNI, 1997). See Section 5.2.2.3 for further discussion.

5.3.2.3 Contaminant Fate and Transport

Because IR Sites 12 and 13 are adjacent to one another (see Figure 1-2), for the purposes of contaminant fate and transport analyses, these sites were combined. Contaminant fate and transport for IR Site 13 is discussed in Section 5.2.2.4.

5.4 Exposure Pathways

Land use at IR Sites 11, 12, and 13 is expected to be port-related and industrial, and may be characterized as industrial for the foreseeable future. Potential receptors for contaminants are future on-site industrial workers and/or utility workers at the Port of Long Beach. Figures 5-6 and 5-7 identify the pathways by which contaminants can reach the industrial and the utility maintenance worker at IR Sites 11, 12, and 13. Figure 5-6 represents potential exposure pathways under paved site conditions, and Figure 5-7 represents potential exposure pathways under unpaved site conditions.

5.4.1 IR Site 11

Industrial Worker. Currently, IR Site 11 is completely or partially covered by shotcrete, pavement (parking lots and roads), and buildings with concrete floors. This pavement prevents industrial workers from being exposed to contaminated soil beneath the pavement by soil ingestion, skin contact, and inhalation of dust. The Port of Los Angeles may remove some or all of the pavement. Removal of the pavement would create exposure conditions that do not currently exist. Thus, for industrial workers, risks associated independently with both conditions, paved and unpaved, were assessed.

For completely paved areas (IR Site 11, AOPC 1), industrial workers were assumed to be exposed to COPCs in soil beneath the pavement only through inhalation of vapors. For this scenario, the contaminant vapors were assumed to be released conservatively, unhindered from the soil. The pavement in these areas is assumed to prevent direct skin contact with and ingestion of the soil as well as the generation of dust. Thus, for IR Site 11, AOPC 1, the only exposure pathway for industrial workers was inhalation of contaminants released to the atmosphere from soil.

Partially paved areas (IR Site 11, AOPC 2) were conservatively treated as entirely unpaved. At these areas, it was assumed that industrial workers were exposed to COPCs in soil by three pathways: soil ingestion; dermal contact with soil; and inhalation of particulates and vapors. No allowance was made for the percentage of pavement coverage.

Under hypothetical future unpaved conditions, industrial workers were assumed to be exposed to COPCs in soil by soil ingestion, dermal contact with soil, and inhalation of particulates and vapors at all of the sites.

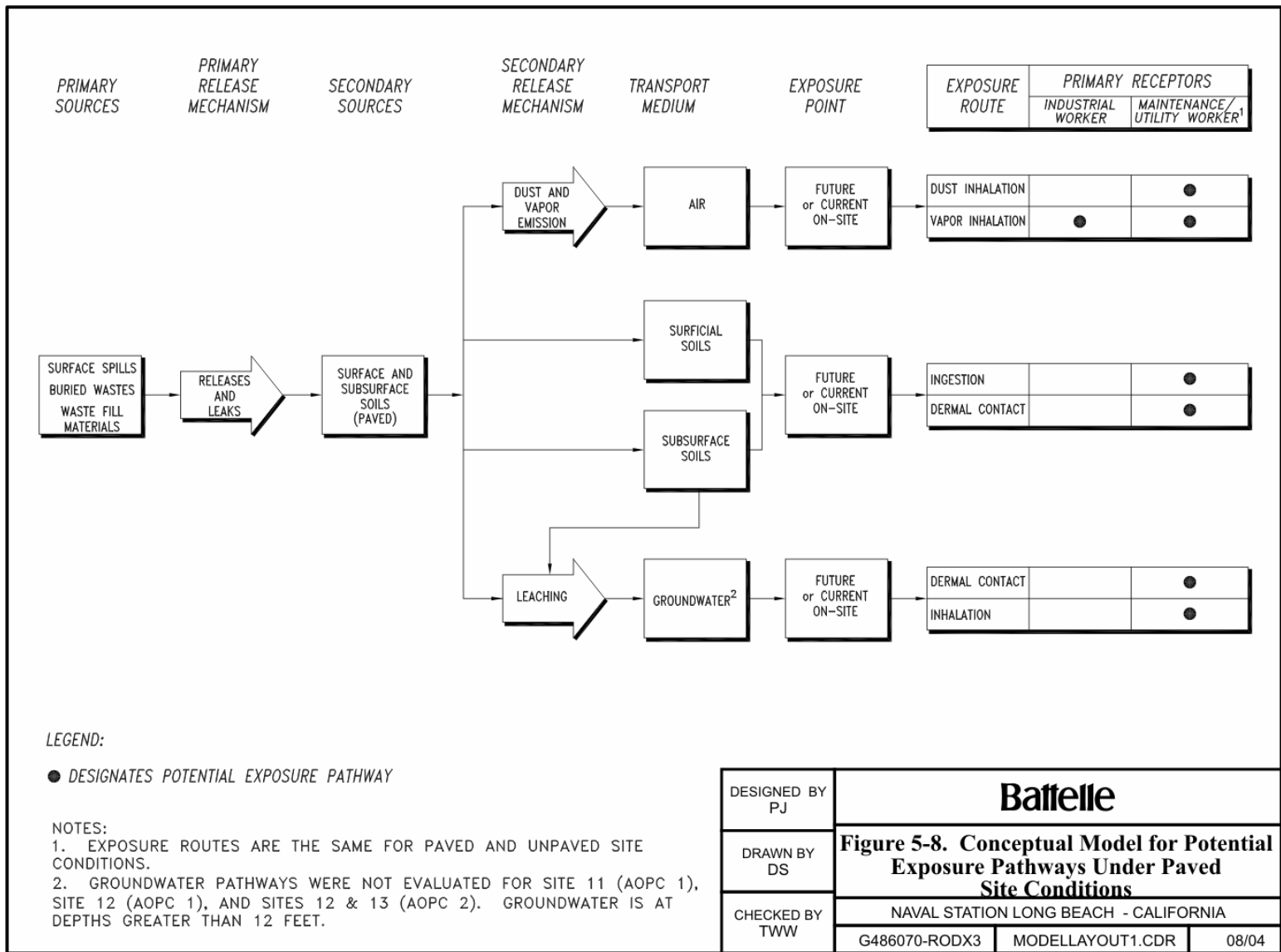


Figure 5-6. Conceptual Model for Potential Exposure Pathways under Paved Site Conditions

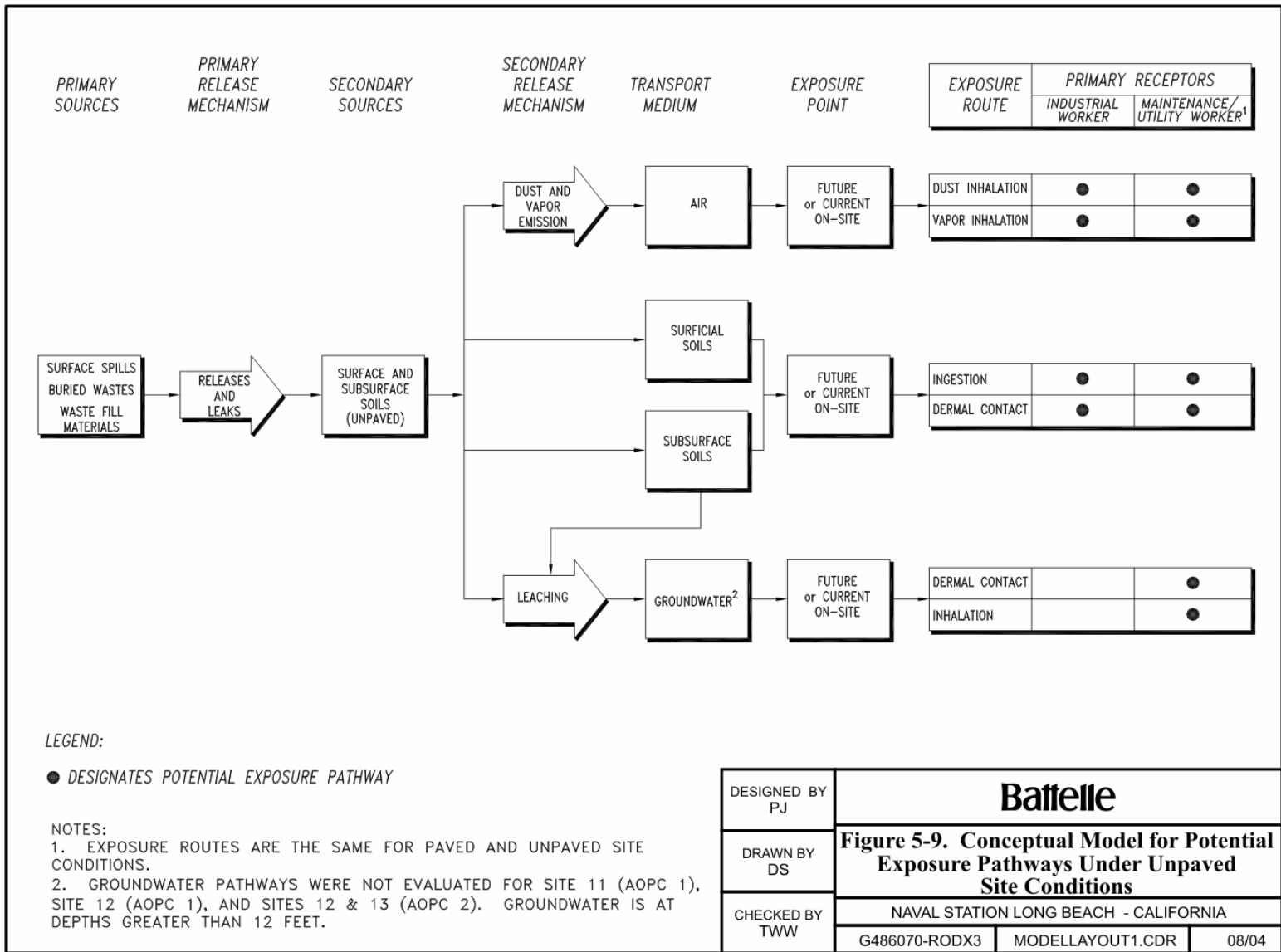


Figure 5-7. Conceptual Model for Potential Exposure Pathways under Unpaved Site Conditions

Utility Maintenance Worker. To repair underground utility lines that are not installed in concrete-lined service tunnels, a repair person must rupture the pavement, remove the soil covering the utility line, and work in the excavated area. Trenches as deep as 10 ft may be needed to provide adequate working space. The water table at IR Site 11, AOPC 2 is shallower than 10 ft bgs. Thus, utility maintenance workers may be exposed to groundwater while making repairs in these areas.

It was assumed that, by working in a trench, utility maintenance workers would be exposed to contaminants in the soil by the same routes of exposure as industrial workers operating in unpaved areas: ingestion; dermal contact, and inhalation of particulates and vapors. However, it was assumed that utility maintenance workers were exposed to contaminants at their respective concentrations down to 11.5 ft bgs. In addition, it was assumed that utility maintenance workers were exposed to COPCs in groundwater by dermal contact and by inhalation of contaminant vapors at IR Site 11, AOPC 2.

5.4.2 IR Sites 12 and 13

Industrial Worker. At the time of evaluation (BNI, 1997), IR Site 12, Soil AOPC 1 was partially covered, and IR Sites 12 and 13, Soil AOPC 2 was completely covered by pavement (parking lots and roads) and buildings with concrete floors. As part of a larger parcel of land, IR Sites 12 and 13 reverted to the City of Long Beach in August 1998 for their construction of a marine container terminal. Since then, the Port of Long Beach has redeveloped Sites 12 and 13 to include roadways, parking areas, and planters to support access to and parking for administrative buildings located near the container terminal entrance. Thus, most of IR Sites 12 and 13 is currently paved.

Pavement prevents industrial workers from being exposed to contaminated soil beneath the pavement by soil ingestion, skin contact, and inhalation of dust. Removal or deterioration of the pavement would create the potential for exposure conditions that do not currently exist. For the industrial worker, risks associated independently with both conditions, paved and unpaved, were assessed.

For completely paved areas (IR Sites 12 and 13, Soil AOPC 2), it was assumed that the industrial worker was exposed to COPCs in soil beneath the pavement only through inhalation of vapors. For this scenario, it was assumed, conservatively, that the contaminant vapors were released unhindered from the soil. The pavement in these areas, however, prevents direct skin contact with and ingestion of the soil as well as the generation of dust. Thus, for IR Sites 12 and 13, Soil AOPC 2, the only exposure pathway for the industrial worker was inhalation of contaminants released to the atmosphere from soil.

Partially paved areas (IR Site 12, Soil AOPC 1) were conservatively treated as entirely unpaved. At these areas, it was assumed that industrial workers were exposed to COPCs in soil by three pathways: soil ingestion; dermal contact with soil; and inhalation of particulates and vapors. No allowance was made for the percentage of pavement coverage.

Under hypothetical future unpaved conditions, it was assumed that industrial workers were exposed to COPCs in soil by soil ingestion, dermal contact with soil, and inhalation of particulates and vapors at all of the sites.

Utility Maintenance Worker. To repair underground utility lines that are not installed in concrete-lined service tunnels, a repair person must rupture the pavement, remove the soil covering the utility line, and work in the excavated area. Trenches as deep as 10 ft may be needed to provide adequate working space. The water table at IR Sites 12 and 13 is deeper than 10 ft bgs. Thus, utility maintenance workers would not be exposed to groundwater while making repairs in these areas but may be exposed to contaminated soil.

6.0: CURRENT AND POTENTIAL FUTURE LAND AND RESOURCE USES

IR Sites 11, 12, and 13 are located at the former LBNC, within the former LBNSY, in Los Angeles County, CA.

6.1 Land Use

Former LBNSY is bordered on the east by the POLB, on the north by the SCE Long Beach Generating Station, on the west by former LBNAVSTA, and on the south by the Long Beach Harbor, West Basin. Land use around the shipyard is industrial, either port-related or commercial. Residential areas are more than 2 miles from the LBNC. Given the current use of nearby areas, continued port-related and industrial land use is a reasonable expectation for the future in the surrounding areas. In addition, both former LBNSY and LBNAVSTA have been identified as potential expansion properties for POLB.

The Reuse Plan for LBNC (City of Long Beach 1995) designates the former LBNC for port-related and industrial use. In 1998, the DON granted a lease to the City of Long Beach/POLB. The lease allowed the POLB to initiate the container terminal project. Removal of Piers Nos. 1 through 7, dredging of the adjacent Long Beach Harbor West Basin (IR Site 7), and filling of Dry Dock Nos. 1, 2, and 3 have been completed. Demolition of existing buildings and site surface improvements were completed in November 2001. IR Sites 11, 12, and 13 are paved areas supporting access to Port of Long Beach Administration buildings and the terminals.

6.2 Surface Water and Groundwater Use

SWRCB Resolution 88-63 ("Sources of Drinking Water" policy) designates all waters of the state to be suitable or potentially suitable as sources of drinking water, except water with existing high dissolved solids (TDS greater than 3,000 mg/L), low sustainable yield (less than 200 gallons per day for a single well), and waters with contamination that cannot be treated for domestic use using best management practices or best economically achievable treatment practices.

Regional Board Resolution No. 98-18, adopted November 2, 1998 by the Los Angeles Regional Water Quality Control Board, modified the regulatory provisions of the Water Quality Control Plan for the Los Angeles Region (the Basin Plan) (RWQCB, 1975) by removing the municipal and domestic use (MUN) beneficial use designation from the aquifers underlying Terminal Island, which includes the former LBNC. The Basin Plan retains beneficial uses of industrial process supply (PROC), industrial service supply (IND), and agricultural supply (AGR) for the underlying groundwater (RWQCB, 1994). The California Office of Administrative Law approved the Resolution by their Notice of Approval dated February 9, 2000.

The City of Long Beach supplies water for the former LBNSY. Storm drains located throughout the former LBNSY south of Ocean Boulevard collect surface water runoff from the former shipyard (see Figure 6-1). Surface water is discharged into the Bay and not used. In addition, no groundwater is used for water supply at the former LBNSY (BNI, 1997).

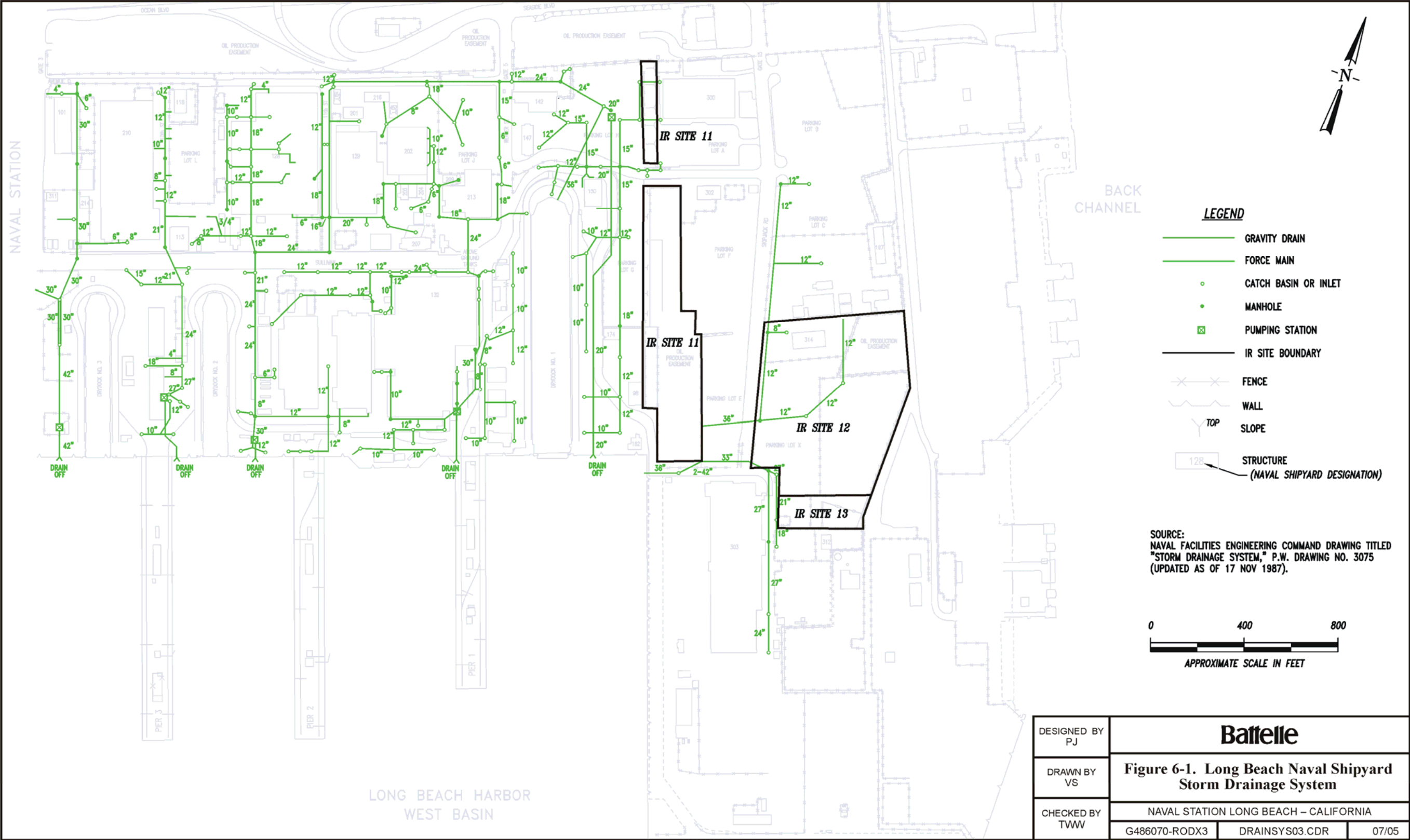


Figure 6-1. Long Beach Naval Shipyard Storm Drainage System

Groundwater at the former LBNSY and surrounding area is not potable because of seawater intrusion. Because groundwater is not potable, there are no groundwater production wells for municipal or domestic use seaward from the Dominguez Gap injection barrier (see Figure 1-4).

Two active municipal groundwater wells are located within 4 miles of the former LBNC. Both wells are located inland of the Dominguez Gap injector barrier. The Dominguez Water Corporation operates these wells, and the wells produce from the Silverado aquifer. The Silverado aquifer is not hydraulically connected to the shallow groundwater-bearing units at IR Sites 11, 12, and 13.

Several active industrial water supply wells also are located within 5 miles of the former LBNC. They include at least seven wells operated by ARCO, two operated by Texaco Refining and Marketing, Inc., and two operated by UNOCAL (DWR, 1994). These wells also are located inland from the Dominguez Gap injection barrier, and generally produce from the Silverado aquifer.

7.0: SUMMARY OF SITE RISKS

This section presents a summary of the human health risks posed by existing chemical contaminants at IR Sites 11, 12, and 13. It also provides the basis for taking action at the sites. Because the intended future use of IR Sites 11, 12, and 13 is port-related and industrial, the HHRA for the sites was performed for an industrial use scenario only. Consequently, the HHRA evaluated only the risk posed to industrial workers and utility maintenance workers.

7.1 Summary of Human Health Risk Assessment

The HHRA was used to determine whether the concentrations of the chemical contaminants identified in samples of soil and groundwater from IR Sites 11, 12, and 13 might adversely affect human health. The objective of the HHRA was to estimate potential risk presented by the chemicals detected at the sites if no response actions were undertaken at the sites. The assessment was conducted in accordance with the *Final RI/FS Risk Assessment Work Plan* for LBNSY (BNI, 1994a) and subsequent amendment (BNI, 1995b). Both documents followed guidelines published by the U.S. EPA in *Risk Assessment Guidance for Superfund, Volume 1, Human Health Evaluation Manual*, Part A (U.S. EPA, 1989a) and Part B (U.S. EPA, 1991) as well as the *Supplemental Guidance for Human Health Multimedia Risk Assessments of Hazardous Waste Sites and Permitted Facilities* (U.S. EPA, 1992).

The U.S. EPA's target range for acceptable level of cancer risk is 1×10^{-6} to 1×10^{-4} excess probability of cancer during the lifetime of the exposed individual. The DON has adopted the upper limit of the U.S. EPA's acceptable risk, 10^{-4} , as the acceptable level of cancer risk for exposures at IR Sites 11, 12, and 13.

This section summarizes the steps of the HHRA performed as part of the RI (BNI, 1997) for IR Sites 11, 12, and 13. It identifies both soil and groundwater COPCs evaluated at the sites; discusses both the exposure and the toxicity assessments for the COPCs; and provides summary tables of the human health risks for both the existing, paved and the hypothetical, unpaved scenarios described in Section 5.0, "Site Characteristics," of this ROD.

7.1.1 Identification of Contaminants of Potential Concern

Tables 5-1 through 5-6 show the organic analytes and metals detected in soil and groundwater at IR Sites 11, 12, and 13. Specifically, the tables show the detection frequency and concentration range for each organic analyte or metal detected, as well as its PRG or background threshold. For organic analytes and metals detected in groundwater, California Ocean Plan limits (SWRCB, 2001) also are presented.

Tables 7-1 and 7-2 present the organic and inorganic COPCs, respectively, that were evaluated in the HHRA for soils at IR Sites 11, 12, and 13. In addition, IR Site 12, Soil AOPC 1 was evaluated for the PCB Aroclor 1248 and Aroclor 1260. IR Sites 12 and 13, Soil AOPC 2 was also evaluated for the following pesticides and PCBs: Aroclor 1254; Aroclor 1260; *alpha*-chlordane; *gamma*-chlordane; 4,4'-DDD; 4,4'-DDE; 4,4'-DDT; endosulfan I; endosulfan II; endrin

Table 7-1. Organic COPCs Evaluated in the HHRA for Soil at IR Sites 11, 12, and 13

Contaminant	IR Site 11 AOPC 1 ^(a)	IR Site 11 AOPC 2 ^(b)	IR Site 12 Soil AOPC 1 ^(b)	IR Sites 12 & 13 Soil AOPC 2 ^(a)
<i>VOCs</i>				
Acenaphthene	X		X	X
Anthracene	X		X	X
Carbon disulfide				X
Chloroform				X
1,1-Dichloroethane				X
Ethylbenzene			X	X
Fluorene			X	X
Methylene chloride			X	
Methyl ethyl ketone			X	
2-Methylnaphthalene		X	X	X
Naphthalene			X	
Phenanthrene	X	X	X	X
Tetrachloroethylene			X	
Toluene			X	
1,1,1-Trichloroethane				X
Xylenes (total)			X	X
<i>SVOCs</i>				
Benzo(a)anthracene	X	X	X	X
Benzo(b)fluoranthene	X	X	X	X
Benzo(k)fluoranthene	X	X	X	X
Benzo(g,h,i)perylene	X	X	X	X
Benzo(a)pyrene	X	X	X	X
Bis(2-ethylhexyl)phthalate	X		X	X
Butylbenzylphthalate	X			X
Carbazole	X		X	X
Chrysene	X	X	X	X
Dibenz(a,h)anthracene	X	X	X	X
Dibenzofuran			X	X
Dibutyl phthalate	X		X	X
Dibutyltin		X	X	
Dimethyl phthalate				X
Fluoranthene	X	X	X	X
Indeno(1,2,3-c,d)pyrene	X	X	X	X
4-Methyl-2-pentanone				X
4-Methylphenol				X
Monobutyltin			X	X
Pentachlorophenol				X
Phenol			X	
Pyrene	X	X	X	X
Tributyltin	X			

^(a) Evaluated as paved.

^(b) Evaluated as unpaved.

Table 7-2. Inorganic COPCs Evaluated in the HHRA for Soil at IR Sites 11, 12, and 13

Contaminant	IR Site 11 AOPC 1 ^(a)	IR Site 11 AOPC 2 ^(b)	IR Site 12 Soil AOPC 1 ^(b)	IR Sites 12 & 13 Soil AOPC 2 ^(a)
Aluminum	X	X	X	X
Antimony and compounds	X	X	X	X
Arsenic	X	X	X	X
Barium and compounds	X	X	X	X
Beryllium and compounds	X	X	X	X
Cadmium and compounds		X	X	X
Trivalent chromium and compounds	X	X	X	X
Hexavalent chromium	X	X	X	X
Cobalt	X	X	X	X
Copper and compounds	X	X	X	X
Lead	X	X	X	X
Manganese and compounds	X	X	X	X
Mercury, inorganic	X	X	X	X
Nickel and compounds	X	X	X	X
Selenium		X	X	X
Silver and compounds	X	X	X	X
Thallium	X	X	X	X
Vanadium	X	X	X	X
Zinc	X	X	X	X

^(a) Evaluated as paved.

^(b) Evaluated as unpaved.

aldehyde; endrin ketone, *beta*-hexachlorocyclohexane (*beta*-HCH); heptachlor; heptachlor epoxide; and methoxychlor.

The RI (BNI, 1997) identified no organic COPCs in groundwater at IR Site 11. Thus, VOCs and SVOCs were not analyzed for groundwater at IR Site 11, AOPC 2. Table 7-3 presents the inorganic COPCs evaluated in the HHRA for groundwater at IR Site 11, AOPC 2.

Because the groundwater table depth was greater than 40 ft bgs at IR Site 11, AOPC 1, no exposure to groundwater was evaluated for this area. Because the groundwater table depth was about 18 ft bgs at IR Sites 12 and 13, exposure to groundwater was not evaluated for these sites.

IR Site 11, AOPC 1 and IR Sites 12 and 13, Soil AOPC 2 were evaluated assuming paved conditions. IR Site 11, AOPC 2 and IR Site 12, Soil AOPC 1 were evaluated assuming that the area was unpaved. Both trivalent chromium (Cr⁺³) compounds and hexavalent chromium (Cr⁺⁶) were evaluated for soil at IR Site 11, AOPC 1 and AOPC 2.

7.1.2 Exposure Assessment

The HHRA was based on occupational exposure of two categories of on-site workers, broadly defined as an industrial worker and an underground utility maintenance worker. Conceptual models of potential exposure pathways for these receptors are shown in Figures 5-6 and 5-7. The industrial worker was modeled as a person who works indoors and/or outdoors under low dust conditions. The worker does not participate in soil excavation or the handling of soil. The industrial worker was assumed to be exposed 8 hours per day, 250 days per year for 25 years.

Table 7-3. Inorganic COPCs Evaluated in the HHRA for IR Site 11 Groundwater

Contaminant	IR Site 11 AOPC 2
Antimony and compounds	X
Arsenic	X
Barium and compounds	X
Beryllium and compounds	
Cadmium and compounds	X
Chromium (total)	X
Cobalt	X
Manganese and compounds	X
Mercury	X
Nickel and compounds	X
Silver and compounds	X
Thallium	X
Vanadium	X
Zinc	X

The utility maintenance worker was modeled as a person who repairs underground utility lines. This work requires a repair person to rupture the pavement, remove the soil covering the utility line, and work in the excavated areas. The utility maintenance worker was assumed to be exposed 8 hours per day, 10 days per year for 25 years.

Although underground utility lines at the former LBNSY are buried about 6 ft bgs, trenches as deep as 10 ft may be needed to provide adequate working space within the trench. The water table at IR Site 11, AOPC 2 is shallower than 10 ft bgs. Therefore, a utility maintenance worker may be exposed to the groundwater while making repairs at this site. The water table at IR Sites 12 and 13 is about 18 ft bgs. Therefore, a utility maintenance worker would not be exposed to the groundwater while making repairs at these sites but may be exposed to contaminated soil.

For the hypothetical, unpaved scenario for IR Site 11, the utility maintenance worker working in a trench was assumed to be exposed to soil contaminants by the same routes of exposure as the industrial worker operating in unpaved areas: ingestion; dermal contact; and inhalation of particulates and vapors. However, it was assumed that the utility maintenance worker was exposed to contaminants and their concentrations down to 11.5 ft bgs. In addition, it was assumed that the utility maintenance worker was exposed to COPCs in the groundwater through dermal contact and through inhalation of contaminant vapors at sites where the water table is less than 11.5 ft bgs.

7.1.3 Toxicity Assessment

A toxicity assessment determines the relationship between dose and toxic response for each COPC. From the relationship, an estimate of toxic potency is developed for characterizing risk. The toxicity assessment identifies toxicity criteria (values) for each of the contaminants in the risk assessment and the kinds of effects each of the contaminants are capable of producing. Two types of toxicity criteria were used in the HHRA for IR Sites 11, 12, and 13: one estimated

cancer risk; and the other estimated the potential occurrence of systemic toxicity (non-cancer risk).

7.1.4 Risk Characterization

The final step in any risk assessment is the characterization of risk in which exposure and toxicity information is integrated to evaluate potential health risks. Cancer and non-cancer risks are quantified separately.

For carcinogens, risks are generally expressed as the incremental probability of an individual's developing cancer over a lifetime as a result of exposure to the carcinogen. Excess lifetime cancer risk (ELCR) is calculated from the following equation:

$$\text{ELCR} = \text{CDI} \times \text{SF}$$

where: ELCR = a unitless probability (e.g., 2×10^{-5}) of an individual's developing cancer
CDI = chronic daily intake averaged over 70 years (mg/kg-day)
SF = slope factor, expressed as (mg/kg-day)⁻¹.

Total ELCR refers to the upper-bound total lifetime cancer risk (incremental plus site background chemical concentrations). These risks are probabilities that usually are expressed in scientific notation (e.g., 1×10^{-6}). An ELCR of 1×10^{-6} indicates that an individual experiencing the reasonable maximum exposure estimate has a 1 in 1,000,000 chance of developing cancer as a result of site-related exposure. This risk is called an ELCR because it would be in addition to the risks of cancer that individuals face from other causes, such as smoking. The chance of an individual's developing cancer from all other causes has been estimated to be as high as one in three.

The U.S. EPA's generally acceptable risk range for industrial-site-related exposures is 10^{-6} to 10^{-4} (U.S. EPA, 1990). That is, under an industrial use scenario, the acceptable ELCR for an industrial or utility maintenance worker is 10^{-4} (1 in 10,000) or less incremental probability of death from cancer. The DON has adopted the U.S. EPA acceptable risk range, so that for all carcinogens at IR Sites 11, 12, and 13, an acceptable ELCR is 10^{-4} or less.

The potential for non-carcinogenic effects is evaluated by comparing an exposure level over a specified time period (e.g., lifetime) with a reference dose (RfD) derived for a similar exposure period. An RfD represents a level that an individual may be exposed to that is not expected to cause any deleterious effect. The ratio of exposure to toxicity is called a hazard quotient (HQ). A HQ of less than one (<1) indicates that a receptor's dose of a single contaminant is less than the RfD, and that toxic non-carcinogenic effects from that chemical are unlikely. Adding the HQs for all COCs that affect the same target organ (e.g., liver) or that act through the same mechanism of action generates a hazard index (HI). A HI of less than one (<1) indicates that, based on the sum of all HQs from different contaminants and exposure routes, toxic non-carcinogenic effects from all contaminants are unlikely. A HI of greater than one (>1) indicates that site-related exposures may present a risk to human health.

A HQ is calculated as follows:

$$\text{non-cancer HQ} = \text{CDI/RfD}$$

where: CDI = chronic daily intake
RfD = reference dose.

CDI and RfD are expressed in the same units and represent the same exposure period (i.e., chronic, sub-chronic, or short-term).

The results of the HHRA in the RI report (BNI, 1997) for IR Sites 11, 12, and 13 are presented in Tables 7-4 through 7-6. Table 7-4 summarizes the results for the industrial worker potentially exposed to soil at IR Sites 11, 12, and 13, assuming that the ground surface at the sites is paved. It includes total ELCRs and HIs for all COPCs detected in soil at IR Site 11, AOPC 1 and IR Sites 12 and 13, Soil AOPC 2.

IR Site 11, AOPC 2 is only partially paved, and is treated as totally unpaved in Table 7-5. Table 7-5 summarizes the results for the industrial worker potentially exposed to soil at IR Sites 11, 12, and 13, assuming that the ground surface at these sites is unpaved. It includes ELCRs, total ELCRs (upper-bound total lifetime cancer risk), and HIs for all COPCs detected in soil at these sites.

Table 7-6 summarizes the results for utility maintenance workers potentially exposed to soil and groundwater at IR Site 11, assuming that the ground surface at the site is unpaved. It includes ELCRs, total ELCRs, and HIs for all COPCs detected in soil and groundwater at these sites.

Table 7-4. Estimates of ELCRs and HIs for the Industrial Worker for COPCs in Soil at IR Site 11, 12, and 13, Assuming the Ground Surface is Paved^(a)

Characteristic	IR Site 11		IR Site 12	IR Sites 12 and 13
	AOPC 1	AOPC 2	Soil AOPC 1	Soil AOPC 2
Total ELCR^(d)	No carcinogens ^(c)	NA ^(b) See Table 7-5.	NA ^(b) See Table 7-5.	No carcinogens ^(c)
Total HI^(d)	0.00000044	NA ^(b) See Table 7-5.	NA ^(b) See Table 7-5.	0.000011

- (a) The results presented in this table estimate risks to the industrial worker as if the sites were paved. Because pavement influences possible exposure to contaminants in soil, risks to industrial workers were evaluated for both a paved and an unpaved ground surface. Although IR Site 11 is currently partially or completely paved, future conditions may further expose site soil. As part of a larger parcel of land, IR Sites 12 and 13 reverted to the City of Long Beach in August 1998 for their construction of a marine container terminal. Since the completion of this HHRA, the Port of Long Beach has redeveloped Sites 12 and 13 to include roadways, parking areas, and planters to support access to and parking for administrative buildings located near the container terminal entrance. Thus, most of IR Sites 12 and 13 is currently paved.
- (b) NA = not applicable. IR Site 11, AOPC 2 and IR Site 12, Soil AOPC 1 are only partially paved and conservatively treated as unpaved in Table 7-5.
- (c) Volatile organic COPCs detected at the AOPC showed no evidence of carcinogenicity (BNI, 1997).
- (d) Total lifetime cancer risk and hazard index to the industrial worker are based on exposure to soil 0 to 3 ft bgs.

Table 7-5. Estimates of ELCRs and HIs for the Industrial Worker for COPCs in Soil at IR Site 11, 12, and 13, Assuming the Ground Surface is Unpaved^(a)

Characteristic	IR Site 11		IR Site 12	IR Sites 12 & 13
	AOPC 1	AOPC 2 ^(b)	Soil AOPC 1 ^(b)	Soil AOPC 2
ELCR^(c)	2.4×10^{-5}	9.6×10^{-6}	3.9×10^{-4}	3.1×10^{-5}
Total ELCR^{(c)(d)}	3.4×10^{-5} (4.1×10^{-5})	2.0×10^{-5} (2.1×10^{-5})	4.0×10^{-4} (6.4×10^{-4})	4.5×10^{-5} (6.1×10^{-5})
Total HI^(c)	0.94	0.45	0.84	0.2

- (a) The results presented in this table estimate risks to the industrial worker as if the sites were unpaved. Because pavement influences possible exposure to contaminants in soil, risks to industrial workers were evaluated for both a paved and an unpaved ground surface. Although IR Site 11 is currently partially or completely paved, future conditions may further expose site soil. As part of a larger parcel of land, IR Sites 12 and 13 reverted to the City of Long Beach in August 1998 for their construction of a marine container terminal. Since the completion of this HHRA, the Port of Long Beach has redeveloped Sites 12 and 13 to include roadways, parking areas, and planters to support access to and parking for administrative buildings located near the container terminal entrance. Thus, most of IR Sites 12 and 13 is currently paved.
- (b) Site/AOPC was partially paved and conservatively treated as unpaved.
- (c) Incremental and total lifetime cancer risks and HIs for industrial workers are based on exposure to soil 0-3 ft bgs.
- (d) The first cancer risk estimate is based on factors recommended by the U.S. EPA, and the second (in parentheses) is based on factors recommended by the DTSC.

Table 7-6. Estimates of ELCRs and HIs for the Utility Maintenance Worker for COPCs in Soil and Groundwater at IR Sites 11, 12, and 13, Assuming the Ground Surface is Unpaved^(a)

Characteristic	IR Site 11		IR Site 12	IR Sites 12 & 13
	AOPC 1	AOPC 2 ^(b)	Soil AOPC 1 ^(b)	Soil AOPC 2
ELCR^(c)				
Soil	3.8×10^{-6}	1.3×10^{-6}	4.8×10^{-5}	1.8×10^{-6}
Total ELCR^(c, d)				
Soil	6.3×10^{-6} (7.2×10^{-6})	2.9×10^{-6} (3.0×10^{-6})	5.0×10^{-5} (8.2×10^{-5})	2.8×10^{-6} (4.4×10^{-6})
Groundwater	NA ^(e)	6.3×10^{-8} (6.3×10^{-8})	NA ^(e)	NA ^(e)
Total HI^(c)				
Soil	0.16	0.063	0.077	0.028
Groundwater	NA ^(e)	0.0015	NA ^(e)	NA ^(e)

- (a) The results presented in this table estimate risks to the utility worker as if the sites were unpaved. Although IR Site 11 is currently partially or completely paved, future conditions may further expose site soil. As part of a larger parcel of land, IR Sites 12 and 13 reverted to the City of Long Beach in August 1998 for their construction of a marine container terminal. Since the completion of this HHRA, the Port of Long Beach has redeveloped Sites 12 and 13 to include roadways, parking areas, and planters to support access to and parking for administrative buildings located near the container terminal entrance. Thus, most of IR Sites 12 and 13 is currently paved.
- (b) Site/AOPC was partially paved and conservatively treated as unpaved.
- (c) Incremental and total lifetime cancer risks and HIs for utility workers, based on exposure to soil (0 to 11.5 ft bgs) and groundwater (0 to 40 ft bgs).
- (d) The first cancer risk estimate is based on factors recommended by the U.S. EPA, and the second (in parentheses) is based on factors recommended by the DTSC.
- (e) NA = not applicable. Exposure to groundwater was not evaluated because the groundwater table was deeper than the assumed depth of excavation. Therefore, underground utility maintenance workers would not be exposed.

IR Site 11. The HHRA for IR Site 11 (BNI, 1997) concluded that no COCs were present in soil or in groundwater at IR Site 11, because the overall cancer risk, based on an industrial scenario, fell within or below the U.S. EPA's target range of 1×10^{-6} to 1×10^{-4} , and the total HI was below the U.S. EPA's criterion of 1 for all media. That is, the ELCRs for both industrial workers and utility maintenance workers fell either below or within the U.S. EPA's target range of 1×10^{-6} to 1×10^{-4} for managing cancer risks at sites where industrial exposure scenarios were applied. Also, the hazard indices for non-cancer health effects calculated in the HHRA were less than 1 for both industrial workers and utility maintenance workers. These risks fall within the U.S. EPA's index value of less than 1 to represent acceptable non-cancer health effects.

IR Sites 12 and 13. The HHRA for IR Sites 12 and 13 (BNI, 1997) concluded that IR Site 12, Soil AOPC 1 is an area of concern (AOC) due to the presence of elevated concentrations of organic compounds and metals in soil in excess of calculated risk-based concentrations. The ELCR for industrial workers under the unpaved scenario (3.9×10^{-4}) was above the U.S. EPA's target range of 1×10^{-6} to 1×10^{-4} for managing cancer risks at sites where industrial exposure scenarios are applied. Therefore, for post-HHRA discussions, IR Site 12, Soil AOPC 1, will be referred to as AOC 1.

Soil AOPC 2 for IR Sites 12 and 13 was defined as the soil beneath the sites that was not part of IR Site 12, Soil AOPC 1. The HHRA for IR Sites 12 and 13 (BNI, 1997) concluded that no COCs were present in soils at AOPC 2, because the overall cancer risk, based on an industrial scenario, fell within or below the U.S. EPA's target range of 1×10^{-6} to 1×10^{-4} , and the total HI was below the U.S. EPA's criterion of 1 for all media. Therefore, the HHRA for IR Sites 12 and 13 concluded that AOPC 2 poses no risks so long as its use remains industrial (i.e., port-related and industrial).

7.2 Conclusions of the Human Health Risk Assessment

This section summarizes the results of the HHRA performed as part of the RI (BNI, 1997) for IR Sites 11, 12, and 13.

IR Site 11, AOPC 1 Soil. For industrial workers, under paved site conditions, IR Site 11, AOPC 1 presents no cancer risk. The volatile COPCs in the surface soil show no evidence of carcinogenicity.

For industrial workers under unpaved site conditions, IR Site 11, AOPC 1 presents an ELCR of 2.4×10^{-5} and a total ELCR of 3.4×10^{-5} , both within the U.S. EPA's target range of 1×10^{-6} to 1×10^{-4} . The cancer risk from exposure to soil is attributed principally to arsenic, which contributes 56 percent of the total ELCR. Benzo(a)pyrene, dibenz(a,h)anthracene, and benzo(b)fluoranthene are additional risk contributors. The non-cancer health risk for industrial workers under paved and unpaved site conditions is less than the U.S. EPA's acceptable criterion of 1, based on an industrial use scenario.

For utility maintenance workers, the ELCR and total ELCR associated with exposures to soil at IR Site 11, AOPC 1 are 3.8×10^{-6} and 6.3×10^{-6} , both within the U.S. EPA's target range of 1×10^{-6} to 1×10^{-4} . The cancer risk from soil is attributed to arsenic, which contributes 66 percent

to the total ELCR. Benzo(a)pyrene is an additional contributor at 17 percent of the total ELCR. The non-cancer health risk for utility maintenance workers is less than the U.S. EPA's acceptable criterion of 1.

No AOCs or COCs were identified for IR Site 11, AOPC 1 soil (BNI, 1997).

IR Site 11, AOPC 2 Soil. For industrial workers, IR Site 11, AOPC 2 is partially paved and was conservatively evaluated as unpaved. For industrial workers under unpaved site conditions, the ELCR and total ELCR for IR Site 11, AOPC 2 are 9.6×10^{-6} and 2.0×10^{-5} , both within the U.S. EPA's target range of 1×10^{-6} to 1×10^{-4} . The cancer risk from exposure to soil is attributed principally to arsenic, which contributes more than 50 percent to the ELCR. The non-cancer health risk for industrial workers for IR Site 11, AOPC 2 soil under unpaved site conditions is less than the U.S. EPA's acceptable criterion of 1, based on an industrial use scenario.

For utility maintenance workers, the ELCR and total ELCR associated with exposure to soil at IR Site 11, AOPC 2 are 1.3×10^{-6} and 2.9×10^{-6} , both within the U.S. EPA's target range of 1×10^{-6} to 1×10^{-4} . The non-cancer health risk for utility maintenance workers is less than the U.S. EPA's acceptable criterion of 1.

No AOCs or COCs were identified for IR Site 11, AOPC 2 soil (BNI, 1997).

IR Site 11, AOPC 1 Groundwater. Exposure to groundwater was not evaluated for IR Site 11, AOPC 1 (BNI, 1997). The groundwater table is at a depth greater than 11 ft at this location and is inaccessible to utility maintenance workers.

IR Site 11, AOPC 2 Groundwater. The only analytes detected in groundwater at IR Site 11 were metals. Organotins were not detected. No COPCs occur in IR Site 11 groundwater above background thresholds. Total ELCR for utility maintenance workers exposed to groundwater at IR Site 11, AOPC 2 is below 1×10^{-6} , the U.S. EPA's point of departure for risk. The non-cancer health risk for utility maintenance workers is less than the U.S. EPA's acceptable criterion of 1.

IR Site 12, AOC 1 Soil. The human health risks to both industrial workers and utility maintenance workers were evaluated. The industrial scenario, where industrial workers are exposed to soil COPCs, presented the higher risk of the two exposure scenarios. For industrial workers, IR Site 12, AOPC 1 is partially paved and was conservatively evaluated as unpaved.

For industrial workers under unpaved site conditions, the ELCR and total ELCR are 3.9×10^{-4} and 4.0×10^{-4} , both which exceed the U.S. EPA's target range of 1×10^{-6} to 1×10^{-4} , based on an industrial use scenario. Several PAHs (benzo[a]pyrene, indeno[1,2,3-cd]pyrene, dibenz[a,h]anthracene, benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]anthracene), a SVOC (carbazole), and a metal (arsenic) are the major contributors to the cancer risk. Benzo[a]pyrene contributes more than 50 percent of the risk. Dermal contact and incidental soil ingestion are the dominant pathways.

The non-cancer health risk for industrial workers for IR Site 12, AOPC 1 soil under unpaved site conditions is less than the U.S. EPA's acceptable criterion of 1, based on an industrial use scenario.

All COPCs for soil at IR Sites 12 and 13 were evaluated in the HHRA. Because soil AOPC 1 was partially paved, it was conservatively evaluated as unpaved. Because soil AOPC 2 was fully paved, it was evaluated under both a paved and an unpaved scenario.

For utility maintenance workers, the ELCR and total ELCR for soil at IR Site 12, AOPC 1 are 4.8×10^{-5} and 5.0×10^{-5} , both within the U.S. EPA's target range of 1×10^{-6} to 1×10^{-4} , based on an industrial use scenario. PAHs and arsenic are the major contributors to the total ELCR, with benzo(a)pyrene contributing more than 50 percent of the risk. Dermal contact and incidental soil ingestion are the dominant risk pathways.

The non-cancer health risk for utility maintenance workers at IR Site 12, AOPC 1 soil is less than the U.S. EPA's acceptable criterion of 1, based on an industrial use scenario.

Based on the HHRA, IR Site 12, AOPC 1 is an AOC, and hereafter is referred to as AOC 1 in this document. The analytes described above for IR Site 12, AOC 1 soil are present at concentrations greater than background and therefore are COCs for IR Site 12 (BNI, 1997). In addition, a SVOC (chrysene) and two PCBs (Aroclor 1248 and Aroclor 1260) are present in concentrations greater than background and are COCs for IR Site 12 (BNI, 1997). However, fate and transport modeling indicate that the COCs in soil at IR Site 12, AOC 1 will reach the nearest SCE dewatering well at concentrations below regulatory levels. Therefore, off-site movement of contaminants from vadose zone soils is not a concern.

IR Sites 12 and 13, AOPC 2 Soil. Exposure to soil at IR Sites 12 and 13, AOPC 2 was evaluated for both the paved and the unpaved scenarios. For industrial workers under paved site conditions, IR Sites 12 and 13, AOPC 2 presents no cancer risk because the volatile COPCs identified in the soil show no evidence of carcinogenicity (BNI, 1997). For industrial workers under unpaved site conditions, the ELCR and total ELCR are 3.1×10^{-5} and 4.5×10^{-5} , both within the U.S. EPA's target range of 1×10^{-6} to 1×10^{-4} . Benzo(a)pyrene and arsenic in soil are the major contributors to the cancer risk. Several other PAHs (dibenz[a,h]anthracene, benzo[b]fluoranthene, benzo[a]anthracene, indeno[1,2,3-cd]pyrene, benzo[k]fluoranthene) and a PCB (Aroclor 1254) are also contributors to cancer risk. Dermal contact and incidental soil ingestion are the dominant risk pathways.

The non-cancer health risk for industrial workers for IR Sites 12 and 13, AOPC 2 soil under paved and unpaved site conditions is less than the U.S. EPA's acceptable criterion of 1, based on an industrial use scenario.

For utility maintenance workers, the ELCR and total ELCR for IR Sites 12 and 13, AOPC 2 soils are 1.8×10^{-6} and 2.8×10^{-6} , within the U.S. EPA's target range of 1×10^{-6} to 1×10^{-4} , based on an industrial use scenario. The non-cancer health risk for utility maintenance workers for IR Sites 12 and 13, AOPC 2 soils was less than the U.S. EPA's acceptable criterion of 1, based on an industrial use scenario. No AOCs or COCs are identified for this area (BNI, 1997).

IR Sites 12 and 13 Groundwater. Analytes detected in groundwater at IR Sites 12 and 13 included metals, acetone, carbon disulfide, benzo(g,h,i)perylene, indeno(1,2,3-cd)pyrene, phthalates, and isophorone (BNI, 1997). The metals in excess of background thresholds were arsenic, barium, cobalt, iron, manganese nickel, selenium, thallium, and vanadium. No organic COPCs in groundwater at IR Sites 12 and 13 exceeded their respective PRGs.

Exposure to vadose zone soils and impacted groundwater was not evaluated for IR Sites 12 and 13 (BNI, 1997). The groundwater table at IR Sites 12 and 13 occurs at about 18 ft bgs. Because the anticipated construction depth is 11.5 ft bgs, vadose zone soils and groundwater are considered inaccessible to utility maintenance workers.

Without extraction well installation and groundwater use, an exposure pathway for potential contaminants in the groundwater will not exist unless or until the impacted groundwater migrates to the SCE dewatering wells, and the groundwater is discharged to the Back Channel. Because no exposure pathways exist, groundwater was not considered to contribute to industrial risk exposure.

7.3 Summary of Ecological Risk Assessment

Because land use at IR Sites 11, 12, and 13 is port-related and industrial, no on-site ecological receptors are associated with these sites.

To estimate the potential for off-site ecological receptors to be exposed to contaminants from IR Sites 11, 12, and 13, during the RI (BNI, 1997), computer modeling programs VLEACH and AT123D were used to predict the movement of COPCs from soil to shallow groundwater, and subsequently, through groundwater to the surrounding ocean waters. The results from the modeling were compared to the California Ocean Plan limits (SWRCB, 2001). The comparisons showed that the concentrations of COPCs detected in soil and groundwater would not result in groundwater concentrations exceeding California Ocean Plan limits at the groundwater-surface water interface. Thus, there is no potential for off-site ecological receptors to be exposed to COPCs at IR Sites 11, 12, and 13.

Because there is no potential for either on-site or off-site ecological receptors to be exposed to contaminants at IR Sites 11, 12, and 13, an ecological risk assessment was not performed for these sites.

8.0: REMEDIAL ACTION OBJECTIVES

Remedial action objectives (RAOs) were established to allow selection of remedial alternatives that achieve protection of human health and the environment and are consistent with designated port-related and industrial use as described in the Reuse Plan (City of Long Beach, 1995).

Determination of RAOs included consideration of site-specific risks and applicable or relevant and appropriate requirements (ARARs) (see Section 14.0, “Applicable or Relevant and Appropriate Requirements”) in accordance with CERCLA, as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). RAOs were developed for IR Sites 11, 12, and 13 based on port-related and industrial land use because the Reuse Plan developed by the City of Long Beach, CA, Local Redevelopment Authority (LRA) designates the former LBNC for port-related and industrial use (City of Long Beach, 1995). These RAOs are needed because contaminants in concentrations that exceed residential PRGs and/or other risk-based criteria developed to protect human health and the environment (BNI, 1997) will be left in place at IR Sites 11, 12, and 13.

The RAOs for IR Site 11 are as follows:

- To maintain industrial land use at the site.
- To prevent unauthorized disturbance of soil and groundwater
- To prevent the migration of contaminants from groundwater to surface water at concentrations that exceed California Ocean Plan limits.

The RAOs for IR Sites 12 and 13 are as follows:

- To protect human health and the environment by maintaining industrial uses, and prohibiting specific sensitive uses
- To prevent unauthorized disturbance of soil, and disturbance and use of groundwater
- To prevent the migration of contaminants from groundwater to surface water at concentrations that exceed California Ocean Plan limits.

The constituents of concern in groundwater addressed by these RAOs are presented in Table 8-1. Although groundwater modeling showed that contaminants in groundwater at IR Site 11 pose no risk to off-site receptors, the DTSC and the DON agreed that these contaminants would be monitored. Residential risk was not calculated for IR Sites 11, 12, and 13. Because contaminants in concentrations that exceed residential PRGs and/or other risk-based criteria will be left in place at IR Sites 11, 12, and 13, without further action, these sites cannot be considered suitable for residential uses. The RAOs for IR Sites 11, 12, and 13 protect human health and the environment from contaminants left in place at the sites. Without these RAOs, public health and welfare and the environment are at risk from actual or potential releases of contaminants.

**Table 8-1. Summary of Constituents of Concern Detected in Groundwater
at IR Sites 11, 12, and 13**

Constituent of Concern	Maximum Reported Concentration (µg/L)	Screening Criterion (µg/L) ^(a)
<i>IR Site 11</i>		
Arsenic	8.7	27.6 ^(b)
Chromium	2.6	2.9 ^(b)
Mercury	0.047	0.9 ^(b)
<i>IR Sites 12 and 13</i>		
Arsenic	915	27.6 ^(b)

(a) Screening criteria do not represent remediation goals for the sites. Remediation goals will be determined during the remedial design phase.

(b) Background concentrations (BNI, 1997).

9.0: DESCRIPTION OF ALTERNATIVES

Remediation alternatives that meet the RAOs for IR Sites 11, 12, and 13 (see Section 8.0, “Remedial Action Objectives”) will maintain port-related and industrial land use, prevent unauthorized disturbance of soil and use of groundwater, and prevent contaminants in concentrations that exceed California Ocean Plan limits (SWRCB, 2001) from migrating to surface waters.

This section describes the two remediation alternatives considered in the FS (Battelle, 2001) for IR Site 11; the four remedial alternatives considered in the FS (BNI, 2001) for soil at IR Sites 12 and 13 (two addressing IR Site 13 and three addressing IR Site 12); and the four remedial alternatives considered in the FS (BNI, 2001) for groundwater at IR Sites 12 and 13.

The remedial alternatives for IR Site 11 are:

- Alternative 1: No further action (NFA)
- Alternative 2: Institutional controls and groundwater monitoring.

The remedial alternatives for soil at IR Sites 12 and 13 are:

- Soil Alternative 1: NFA (IR Sites 12 and 13)
- Soil Alternative 2: Institutional controls (IR Site 13)
- Soil Alternative 3: Maintenance of the existing cover and institutional controls (IR Site 12)
- Soil Alternative 4: Excavation, off-site disposal, and institutional controls (IR Site 12).

The remedial alternatives for groundwater at IR Sites 12 and 13 are:

- Groundwater Alternative 1: NFA
- Groundwater Alternative 2: Groundwater monitoring and institutional controls
- Groundwater Alternative 3: Permeable reactive barrier, groundwater monitoring, and institutional controls
- Groundwater Alternative 4: Extraction and ex situ treatment with groundwater monitoring and institutional controls.

The NCP requires that the NFA alternative be evaluated for all sites to establish a baseline against which to compare and evaluate other alternatives (U.S. EPA, 1990).

9.1 Description of Remedy Components

9.1.1 IR Site 11

IR Site 11, Alternative 1, NFA, means that no response action will be taken at IR Site 11. Accordingly, this remedy has no components.

IR Site 11, Alternative 2 includes both institutional controls and groundwater monitoring as remedy components. Although groundwater modeling showed that contaminants in groundwater at IR Site 11 pose no risk to potential off-site receptors, the DTSC and the DON agreed that these contaminants would be monitored. Groundwater monitoring for IR Site 11 will be conducted using new or replacement groundwater monitoring wells.

After the City of Long Beach took ownership of the property encompassing IR Sites 11, 12, and 13, restrictive covenants were placed on the property to protect human health and the environment. The City of Long Beach and the DTSC jointly executed and recorded a Covenant to Restrict Use of Property in July 2004 (see Appendix F for the July 2004 Covenant). The Navy is not a party to this Covenant; however, the Covenant refers to and is based upon Navy documents and response actions at the sites. To the extent that the Covenant was completed prior to the Navy's Record of Decision for IR Sites 11, 12, and 13, the Covenant may or may not completely satisfy ROD requirements. Therefore, the effectiveness of the Covenant to satisfy ROD requirements will be evaluated in the Remedial Design/Remedial Action Work Plan for IR Sites 11, 12, and 13.

9.1.2 IR Sites 12 and 13 Soil

IR Sites 12 and 13, Soil Alternative 1, NFA, means that no response action will be taken at IR Sites 12 and 13. Accordingly, this remedy has no components.

IR Site 13, Soil Alternative 2, institutional controls, is governed by the restrictive covenants placed on the property in July 2004 to protect human health and the environment. As detailed in Section 9.1.1, the effectiveness of the Covenant to satisfy ROD requirements will be evaluated in the Remedial Design/Remedial Action Work Plan for IR Sites 11, 12, and 13.

IR Site 12, Soil Alternative 3, includes capping which has been fulfilled by the existing site surface paving and improvements performed by the Port of Long Beach. The City of Long Beach and the DTSC jointly executed and recorded a Covenant to Restrict Use of Property in July 2004 (see Appendix F for the July 2004 Covenant). The Covenant includes a requirement that maintenance of the cover over IR Site 12 will be performed by the covenantor. This alternative also includes restrictive covenants as described in Soil Alternative 2.

IR Site 12, Soil Alternative 4, includes excavation and off-site disposal of contaminated soils. The contaminated soil is excavated and moved off site for treatment, and then disposed of at a state-permitted facility. The excavation at the sites is filled with clean soil. This alternative also includes restrictive covenants as described in IR Site 13, Soil Alternative 2.

9.1.3 IR Sites 12 and 13 Groundwater

IR Sites 12 and 13, Groundwater Alternative 1, NFA, means that no response action will be taken at IR Sites 12 and 13. Accordingly, this remedy has no components.

IR Sites 12 and 13, Groundwater Alternative 2 includes groundwater monitoring and institutional controls. Groundwater monitoring for IR Sites 12 and 13 will be conducted using new or replacement groundwater monitoring wells at the sites. As detailed in Section 9.1.1, the effectiveness of the Covenant to satisfy ROD requirements will be evaluated in the Remedial Design/Remedial Action Work Plan for IR Sites 11, 12, and 13.

In addition to groundwater monitoring and institutional controls, Groundwater Alternative 3 for IR Sites 12 and 13 includes the placement of a below-grade permeable reactive barrier. The barrier walls are positioned underground to funnel contaminated groundwater through a porous (reactive) medium which captures and immobilizes the contaminants. The reactive medium is replaced every 30 years.

In addition to groundwater monitoring and institutional controls, Groundwater Alternative 4 for IR Sites 12 and 13 includes extraction and ex situ treatment of groundwater at the sites. Contaminated groundwater is extracted and treated above ground using a filtration system to remove the contaminants. The water is then discharged to an off-site storm drain.

9.2 Common Elements and Distinguishing Features of Each Alternative

9.2.1 IR Site 11

IR Site 11, Alternative 1, NFA, does not ensure industrial use of IR Site 11. In addition, the NFA alternative will not provide for detection if groundwater contaminants at concentrations in excess of California Ocean Plan limits (SWRCB, 2001) threaten surface waters. Because the NFA alternative requires no action to implement, its total time to implement is 0 months, and its total costs to implement are \$0.

IR Site 11, Alternative 2 will use institutional controls to prohibit non-industrial and non-port-related uses of IR Site 11. Groundwater monitoring allows for early detection of movements of groundwater contaminants so that additional action can be taken to prevent the migration of contaminants from groundwater to surface water in concentrations that exceed California Ocean Plan limits (SWRCB, 2001).

Institutional controls are implemented using existing legal mechanisms. Groundwater monitoring is implemented using new or replacement groundwater monitoring wells. The costs associated with institutional controls at each site depend on the level of administrative effort required to implement, enforce, or change these controls. Best estimates for implementation are \$6,000 per site, although actual costs may vary considerably. Quarterly monitoring for one year costs about \$46,000 per site. The duration of the groundwater monitoring period and reporting requirements will be determined during the remedial design/remedial action (RD/RA) phase of the CERCLA process for IR Site 11.

9.2.2 IR Sites 12 and 13 Soil

Soil Alternative 1, IR Sites 12 and 13, NFA, requires no action and does not ensure industrial use of IR Sites 12 and 13. Because the NFA alternative requires no action to implement, its total time to implement is 0 months, and its total costs to implement are \$0.

Soil Alternative 2, IR Site 13, which entails using institutional controls to prohibit non-port-related and non-industrial use of IR Site 13 provides for protection of human health and the environment by limiting exposure pathways. The costs associated with institutional controls depend on the level of administrative effort required to implement, enforce, or change these controls. Best estimates for implementation are \$6,000 per site, although actual costs may vary considerably.

Soil Alternative 3, IR Site 12, includes maintenance of the existing cover which is estimated to cost about \$48,000 over 30 years. The RD/RA Work Plan will include a description of how the remedy will be implemented to maintain protectiveness and meet requirements of the RAOs. This alternative also includes restrictive covenants as described in Soil Alternative 2 with an implementation cost estimated at \$6,000.

Similar to Soil Alternative 2 for IR Site 12, Soil Alternative 4 entails excavation, off-site disposal, and institutional controls that prohibit non-port-related and non-industrial use of IR Site 12. However, instead of maintaining the existing cover over contaminated soil at the site, Soil Alternative 4 includes excavation and off-site treatment and disposal of the contaminated soil, and filling of the excavation with clean soil. Soil Alternative 4 will require about 2 years to implement and will cost between \$1,000,000 and \$2,500,000. These costs include an estimated \$6,000 for implementation of the restrictive covenants, as described in Soil Alternative 2.

9.2.3 IR Sites 12 and 13 Groundwater

IR Sites 12 and 13, Groundwater Alternative 1, NFA, does not ensure industrial use of IR Sites 12 and 13. In addition, the NFA alternative will not provide for detection if groundwater contaminants at concentrations in excess of California Ocean Plan limits (SWRCB, 2001) threaten surface waters. Because the NFA alternative requires no action to implement, its total time to implement is 0 months, and its total costs to implement are \$0.

IR Sites 12 and 13, Groundwater Alternative 2, groundwater monitoring and institutional controls, will use ICs to prohibit non-port-related and non-industrial use of IR Sites 12 and 13. The costs associated with institutional controls at each site depend on the level of administrative effort required to implement, enforce, or change these controls. Best estimates for implementation are \$6,000 per site, although actual costs may vary considerably. Groundwater monitoring allows for early detection of movements of groundwater contaminants so that additional action can be taken to prevent the migration of contaminants from groundwater to surface water in concentrations that exceed California Ocean Plan limits (SWRCB, 2001). Groundwater monitoring is implemented using new or replacement groundwater monitoring wells. Quarterly monitoring for one year costs about \$46,000 per site. The duration of the groundwater monitoring period and reporting requirements will be determined during the RD/RA phase of the CERCLA process for IR Sites 12 and 13. If monitoring indicates that

groundwater contaminants are migrating toward surface waters at concentrations that may exceed California Ocean Plan limits, the DON will provide a document to the state proposing action to respond to the migration.

In addition to groundwater monitoring and institutional controls, Groundwater Alternative 3 for IR Sites 12 and 13 includes placement of a permeable reactive barrier to physically capture and immobilize groundwater contaminants at the sites. The cost of emplacing this barrier is estimated to be \$4,400,000. These costs include an estimated \$6,000 per site for implementation of institutional controls. Operation and maintenance costs over a 30-year period are estimated to be \$3,000,000.

Like Groundwater Alternatives 2 and 3 for IR Sites 12 and 13, Groundwater Alternative 4 includes groundwater monitoring and institutional controls. However, instead of placement of a reactive barrier to immobilize groundwater contaminants at the sites, Groundwater Alternative 4 includes groundwater extraction, ex situ treatment in the form of filtration to remove contaminants, and release of the water to an off-site storm drain. The estimated capital cost for this treatment is \$1,500,000. These costs include an estimated \$6,000 per site for implementation of institutional controls. Operation and maintenance costs over a 30-year period, including 15 years of active treatment and 15 years for groundwater monitoring, are estimated to be \$1,600,000.

10.0: SUMMARY OF COMPARATIVE ANALYSIS OF ALTERNATIVES

The U.S. EPA, as set forth in the NCP, 40 Code of Federal Regulations (CFR) Section 300.430, developed nine evaluation criteria to be used in evaluating and comparing remedial action alternatives. Section 10.1 discusses these nine criteria. Section 10.2 uses the criteria to evaluate and compare the remedial action alternatives for IR Sites 11, 12, and 13.

10.1 Discussion of Evaluation Criteria

The nine evaluation criteria set out in the NCP for evaluation of remedial action alternatives are as follows:

- Overall protection of human health and the environment
- Compliance with ARARs
- Long-term effectiveness and permanence
- Reduction of toxicity, mobility, or volume through treatment
- Short-term effectiveness
- Implementability
- Cost
- State/support agency acceptance
- Community acceptance.

The NCP categorizes these criteria into three groups: threshold criteria; primary balancing criteria; and modifying criteria.

10.1.1 Threshold Criteria

A remedial alternative must meet both threshold criteria to be eligible for selection.

Overall Protection of Human Health and the Environment. This criterion assesses whether an alternative provides adequate protection of human health and the environment and describes how risks posed by a site will be eliminated, reduced, or controlled through treatment, engineering controls, and/or institutional and regulatory controls. The assessment is based on overall performance in short-term and long-term effectiveness and compliance with applicable laws and regulations. It focuses on whether an alternative achieves adequate protection and describes how contaminated sites are eliminated, reduced, or controlled.

Compliance with ARARs. Compliance with ARARs addresses whether a remedial alternative meets all applicable or relevant and appropriate federal and state environmental requirements. An alternative must comply with ARARs, or be covered by a waiver, to be acceptable (see Section 14.0, “Applicable or Relevant and Appropriate Requirements”).

10.1.2 Primary Balancing Criteria

Primary balancing criteria are used to compare alternatives.

Long-Term Effectiveness and Permanence. This criterion addresses the expected residual risk and the ability of a remedial alternative to maintain reliable protection of human health and the environment, after the remedy is in place and RAOs are met.

Long-term effectiveness considers the risk posed by treatment residuals and untreated materials. For each remedial alternative, the permanency of the remedial action is determined. Factors such as the extent of destruction and reduction of contaminant toxicity, irreversible reduction in contaminant mobility, and reduction in volume of contaminated media are considered.

Reduction of Toxicity, Mobility, or Volume through Treatment. This criterion addresses the statutory preference for selecting remedial actions that use treatment technologies that permanently and significantly reduce toxicity, mobility, and/or volume of contaminants.

In general, preferred remedial alternatives use methods, such as treatment technologies, that can permanently eliminate or substantially reduce the inherent potential for contaminants to cause future environmental releases or other risks to human health and the environment.

Short-Term Effectiveness. The evaluation of short-term effectiveness focuses on the period of time needed to implement the remedy and any adverse impacts that may be posed to workers, the community, and the environment during construction and operation of the remedy until cleanup levels are achieved.

Short-term effectiveness refers to the control of adverse impacts on human health and the environment imposed during the construction and implementation of a remedial alternative until cleanup goals are achieved. Short-term effectiveness accounts for potential effects of the contaminants on human health and the environment during the implementation of the remedial alternative. It may be particularly relevant when remedial activities are conducted in densely populated areas, or where contaminant characteristics are such that risks to workers or to the environment are high and special protective measures are needed.

Implementability. Evaluation of implementability addresses the technical and administrative feasibility of implementing a remedial alternative from design through construction and operation. Factors such as availability of services, materials, administrative feasibility, and coordination with other governmental entities are considered.

Evaluation of implementability also includes consideration of the degree of difficulty associated with constructing a remedial alternative, expected operational reliability, and availability of equipment and specialists needed to construct the remedy.

Cost. Evaluation of cost addresses the total cost of a remedial alternative, including consideration of the required capital costs, annual operation and maintenance (O&M) costs, and net present value of the capital and O&M costs.

10.1.3 Modifying Criteria

Modifying criteria are used to determine if the preferred alternative remains the most appropriate remedial action, taking into account both state regulatory agency and community considerations.

State/Support Agency Acceptance. Evaluation of state/support agency acceptance addresses the acceptability of a remedial alternative to the state in which the response action will occur.

Community Acceptance. Evaluation of community acceptance addresses the acceptability of a remedial alternative to the local and surrounding community.

10.2 Comparison of Remedial Alternatives Using Evaluation Criteria

This section uses the nine U.S. EPA evaluation criteria discussed in Section 10.1 to compare and evaluate the remedial action alternatives for IR Sites 11, 12, and 13. Tables 10-1 through 10-3 summarize the comparative evaluation of the alternatives. The alternatives are rated to quantify how well they satisfy the primary balancing and modifying criteria. Using a 1 to 4 scale, the remedial action alternatives are rated from poor to very good.

10.2.1 Overall Protection of Human Health and the Environment

IR Site 11. IR Site 11, Alternative 1, the NFA alternative, implies that no activities will be implemented at IR Site 11. This alternative does not meet the criterion of overall protection of human health and the environment. Contaminants in concentrations that exceed PRGs will be left in place at IR Site 11. Thus, without further analysis, this site cannot be considered suitable for residential uses. The NFA does nothing to ensure the continued industrial use of IR Site 11, and it provides no mechanism to determine whether groundwater contaminants at concentrations that exceed California Ocean Plan limits (SWRCB, 2001) are migrating to surface waters.

IR Site 11, Alternative 2, institutional controls and groundwater monitoring, meets the criterion of overall protection of human health and the environment. Institutional controls in the form of LUCs can be used to prohibit non-port-related and non-industrial uses of IR Site 11. Information from groundwater monitoring can be used to evaluate whether additional actions must be taken if contaminants in concentrations that exceed California Ocean Plan limits (SWRCB, 2001) threaten surface waters.

IR Sites 12 and 13 Soil. IR Sites 12 and 13, Soil Alternative 1, the NFA alternative, implies that no activities will be implemented to address soil at IR Sites 12 and 13. This alternative does not meet the criterion of overall protection of human health and the environment. Contaminants in concentrations that exceed risk-based criteria will be left in place at IR Sites 12 and 13. Thus, without further analysis, these sites cannot be considered for residential use. The NFA does nothing to ensure the continued port-related and industrial use of IR Sites 12 and 13.

**Table 10-1. Summary of Comparative Evaluation of Remedial Alternatives
for IR Site 11**

Criterion	Remediation Alternatives	
	Alternative 1: No Further Action	Alternative 2: Institutional Controls and Groundwater Monitoring
Overall Protection of Human Health and the Environment	No	Yes
Compliance with ARARs	Yes	Yes
Long-Term Effectiveness and Permanence	1	4
Reduction of Toxicity, Mobility, or Volume of Contaminants	1	4
Short-Term Effectiveness	4	4
Implementability	4	4
Cost	4	4
State/Support Agency Acceptance	1	4
Community Acceptance	1	4
Total	16	28

1 = poor; 2 = fair; 3 = good; 4 = very good. High scores are favorable.

**Table 10-2. Summary of Comparative Evaluation of Remedial Alternatives for Soils
at IR Sites 12 and 13**

Criterion	Soil Remedial Alternatives			
	Alternative 1 (IR Sites 12 and 13): No Further Action	Alternative 2 (IR Site 13): Institutional Controls	Alternative 3 (IR Site 12): Maintenance of Existing Cover and Institutional Controls	Alternative 4 (IR Site 12): Excavation, Off- site Disposal and Institutional Controls
Overall Protection of Human Health and the Environment	No	Yes	Yes	Yes
Compliance with ARARs	Yes	Yes	Yes	Yes
Long-Term Effectiveness and Permanence	1	4	4	4
Reduction of Toxicity, Mobility, or Volume of Contaminants	1	1	3	4
Short-Term Effectiveness	1	4	4	3
Implementability	4	4	4	1
Cost	4	4	4	1
State/Support Agency Acceptance	1	4	4	4
Community Acceptance	1	3	3	3
Total	13	23	26	20

1 = poor; 2 = fair; 3 = good; 4 = very good. High scores are favorable.

**Table 10-3. Summary of Comparative Evaluation of Remedial Alternatives
for Groundwater at IR Sites 12 and 13**

Criterion	Groundwater Remedial Alternatives			
	Alternative 1: No Further Action	Alternative 2: Groundwater Monitoring and Institutional Controls	Alternative 3: Permeable Reactive Barrier, Groundwater Monitoring, and Institutional Controls	Alternative 4: Extraction and Ex Situ Treatment with Groundwater Monitoring and Institutional Controls
Overall Protection of Human Health and the Environment	No	Yes	Yes	Yes
Compliance with ARARs	Yes	Yes	Yes	Yes
Long-Term Effectiveness and Permanence	1	4	4	4
Reduction of Toxicity, Mobility, or Volume of Contaminants	1	3	4	4
Short-Term Effectiveness	1	4	3	3
Implementability	4	4	1	2
Cost	4	4	1	2
State/Support Agency Acceptance	1	4	4	4
Community Acceptance	1	3	3	3
Total	13	26	20	22

1 = poor; 2 = fair; 3 = good; 4 = very good. High scores are favorable.

Soil Alternative 2, IR Site 13 includes institutional controls in the form of LUCs. These can be used to prevent unauthorized soil disturbance and prohibit non-industrial and non-port-related use of IR Site 13.

IR Sites 12, Soil Alternative 3, maintenance of existing cover and institutional controls; and Soil Alternative 4, excavation, off-site disposal, and institutional controls, both meet the criterion of overall protection of human health and the environment. Soil Alternative 3 provides for the maintenance of a protective cap to prevent exposure to the contaminants left in place in site soil. Soil Alternative 4 provides for the removal and off-site disposal of contaminated soil to prevent exposure. Institutional controls in the form of LUCs can be used to prevent unauthorized soil disturbance and prohibit non-industrial and non-port-related use of IR Site 12.

IR Sites 12 and 13 Groundwater. IR Sites 12 and 13, Groundwater Alternative 1, the NFA alternative, implies that no activities will be implemented to address groundwater at IR Sites 12 and 13. This alternative does not meet the criterion of overall protection of human health and the environment. Contaminants in concentrations that exceed risk-based criteria will be left in place at IR Sites 12 and 13. Thus, without further analysis, these sites cannot be considered suitable

for residential use. The NFA alternative does nothing to ensure the continued industrial use of IR Sites 12 and 13, and it provides no mechanism to determine whether groundwater contaminants at concentrations that exceed California Ocean Plan limits (SWRCB, 2001) are migrating to surface waters.

IR Sites 12 and 13, Groundwater Alternative 2, groundwater monitoring and institutional controls; Groundwater Alternative 3, permeable reactive barrier, groundwater monitoring, and institutional controls; and Groundwater Alternative 4, extraction and ex-situ treatment with groundwater monitoring and institutional controls, meet the criterion of overall protection of human health and the environment. For Groundwater Alternative 2, groundwater monitoring information is used to evaluate whether additional actions must be taken if contaminants in concentrations that exceed California Ocean Plan limits (SWRCB, 2001) threaten surface waters. Institutional controls in the form of LUCs can be used to prevent unauthorized soil disturbance and use of groundwater and prohibit non-industrial and non-port-related uses of IR Sites 12 and 13. In addition, Groundwater Alternative 3 protects against contaminant migration by providing a barrier to such migration, and Groundwater Alternative 4 removes groundwater contaminants, thus preventing future risk of exposure.

10.2.2 Compliance with ARARs

Section 121(d) of CERCLA and NCP Section 300.430(f)(1)(ii)(B) require that remedial actions at CERCLA sites meet applicable or relevant and appropriate federal and state requirements, standards, criteria, and limitations, collectively referred to as “ARARs,” unless such ARARs are waived under CERCLA Section 121(d)(4). ARARs for IR Sites 11, 12, and 13 are presented in detail in Section 14.0.

IR Site 11. IR Site 11, Alternative 2, institutional controls and groundwater monitoring, has ARARs that are not associated with Alternative 1, the NFA alternative. IR Site 11, Alternative 2 includes groundwater monitoring at new and replacement monitoring wells and would require consideration of RCRA monitoring requirements. If new groundwater monitoring wells are installed, then ARARs associated with air releases from drilling equipment, and ARARs associated with testing of drill cuttings and purge water for hazardous contaminant levels would be needed. In addition, well installation and groundwater-monitoring activities would be subject to coastal zone management requirements. In the unlikely event that the drill cuttings or purge water were characterized as RCRA waste, then United States Department of Transportation (DOT) regulations for transportation of hazardous materials would apply.

Both alternatives for IR Site 11 will attain federal and state ARARs. However, detection of contaminant migration to ocean water at concentrations that exceed California Ocean Plan limits (SWRCB, 2001) will not be ensured through Alternative 1, the NFA alternative.

IR Sites 12 and 13 Soil. IR Site 12, Soil Alternative 4, has ARARs that are not associated with Soil Alternatives 1, 2, and 3. IR Site 12, Soil Alternative 4, excavation, off-site disposal, and institutional controls in the form of LUCs, would require consideration of RCRA monitoring requirements for soil. ARARs associated with air releases from excavation and hauling equipment, and ARARs associated with testing of soil for hazardous contaminant levels would

be needed. In the unlikely event that soils were characterized as RCRA waste, then DOT regulations for transportation of hazardous materials would apply.

All four Soil Alternatives for IR Sites 12 and 13 will attain federal and state ARARs.

IR Sites 12 and 13 Groundwater. Groundwater Alternative 1, the NFA Alternative, has no ARARs. IR Sites 12 and 13 Groundwater Alternatives 2, 3, and 4, do have associated ARARs. Groundwater Alternatives 2 and 3 include groundwater monitoring at new and replacement monitoring wells and would require consideration of RCRA monitoring requirements. If new groundwater monitoring wells are installed, then ARARs associated with air releases from drilling equipment, and ARARs associated with testing of drill cuttings and purge water for hazardous contaminant levels would be needed. These ARARs would also be needed for Groundwater Alternative 4, which involves drilling of extraction wells, extraction of groundwater, and above ground cleanup of the groundwater. Additional ARARs for Groundwater Alternative 3, which includes the installation of a permeable reactive barrier, might include ARARs associated with air releases from excavation equipment or from stockpiled soils. Additional ARARs for Groundwater Alternative 4, associated with potential releases from ex situ treatment, might also apply. In addition, all well installations, extraction and monitoring, as well as groundwater-monitoring activities would be subject to coastal zone management requirements. In the unlikely event that the drill cuttings or purge water were characterized as RCRA waste, then DOT regulations for transportation of hazardous materials would apply.

All Groundwater Alternatives for IR Sites 12 and 13 will attain their federal and state ARARs. However, detection of contaminant migration to ocean water at concentrations that exceed California Ocean Plan limits (SWRCB, 2001) will not be ensured through Groundwater Alternative 1, the NFA alternative.

10.2.3 Long-Term Effectiveness and Permanence

IR Site 11. IR Site 11, Alternative 2, institutional controls and groundwater monitoring, provides very good long-term effectiveness and permanence. Because contaminants in concentrations that exceed PRGs will be left in place at IR Site 11, land use must be restricted to port-related and industrial use unless further analysis is done. Institutional controls in the form of LUCs can effectively limit land use options. LUCs, or restrictive covenants, can prohibit certain land uses. LUCs are recorded in the chain of title associated with a property and “run with the land,” which means that such LUCs are effective against all future property owners.

Groundwater monitoring can detect movement of contaminants into and within groundwater. By monitoring the potential migration of soil contaminants into groundwater, preemptive actions can be taken to prevent contaminants at concentrations that exceed California Ocean Plan limits (SWRCB, 2001) from entering surface water.

IR Site 11, Alternative 1, the NFA alternative, provides limited long-term effectiveness and permanence because it does not assure that land use at IR Site 11 will remain port-related and industrial, and it does nothing to detect or monitor potential migration of soil contaminants into groundwater.

IR Sites 12 and 13 Soil. IR Sites 12 and 13, Soil Alternatives 2, 3, and 4 maintain reliable, long-term protection of human health and the environment by implementing institutional controls to prohibit non-port-related and non-industrial uses of the sites. In addition, Soil Alternative 3 provides for long-term protection by maintaining the current cover placed over IR site 12 by the Port of Long Beach. Soil Alternative 4 provides a permanent, long-term solution by excavating and removing contaminated soil from the site. Soil Alternative 1, the NFA alternative, provides limited long-term effectiveness because it does not ensure that land use at the sites will remain port-related and industrial.

IR Sites 12 and 13 Groundwater. IR Sites 12 and 13 Groundwater Alternatives 2, 3, and 4 maintain reliable, long-term protection of human health and the environment in the future by monitoring the potential migration of contaminants in groundwater, so that actions can be taken to prevent contaminants at concentrations that exceed California Ocean Plan limits (SWRCB, 2001) from entering surface water. In addition, Groundwater Alternative 3 provides long term effectiveness with basic maintenance of a permeable reactive barrier to capture and immobilize contaminants. Replacement of the barrier is expected after 30 years. Groundwater Alternative 4 provides a permanent, long-term solution by ex situ filtering of contaminants from the groundwater.

Groundwater Alternative 1, the NFA alternative, provides limited long-term effectiveness because it does nothing to detect or monitor movement of contaminants in groundwater at the sites.

10.2.4 Reduction of Toxicity, Mobility, or Volume through Treatment

IR Site 11. Neither Alternative 1 nor Alternative 2 for IR Site 11 reduces the toxicity, mobility, or volume of contaminants at IR Site 11 through active treatment. However, Alternative 2 monitors contaminant levels to verify reductions in toxicity, mobility, and volume expected to occur over time through natural attenuation.

IR Sites 12 and 13 Soil. Soil Alternative 1, NFA, does nothing to reduce the toxicity, mobility, or volume of soil contaminants at IR Sites 12 and 13. Soil Alternative 2, IR Site 13, includes LUCs that do not provide treatment and thus would not affect toxicity, mobility, or volume of contaminants.

Soil Alternative 3 for IR Site 12 reduces the mobility of contaminants in soil. Maintenance of the pavement and plant cover placed over the site by the Port of Long Beach (Soil Alternative 3) reduces the mobility of soil contaminants and the risk of exposure to contaminants through soils and dust.

Soil Alternative 4 removes contaminated soil from the site through excavation and off-site treatment and disposal. Thus, Soil Alternative 4 reduces the volume of soil contaminants at IR Site 12 by physically removing and treating them.

Soil Alternatives 3 and 4, IR Site 12, include LUCs. The LUCs do not provide treatment and thus would not affect toxicity, mobility, or volume of contaminants.

IR Sites 12 and 13 Groundwater. Neither Groundwater Alternative 1 nor Groundwater Alternative 2 for IR Sites 12 and 13 actively reduces the toxicity, mobility, or volume of contaminants in groundwater at IR Sites 12 and 13. However, Alternative 2 monitors contaminant levels to verify reductions in toxicity, mobility, and volume expected to occur over time through natural degradation processes. Groundwater Alternative 3 reduces the mobility of groundwater contaminants by capturing and immobilizing them within a water permeable barrier. Groundwater Alternative 4 physically removes contaminants from groundwater at the sites by extracting and filtering the groundwater to remove the contaminants, thus reducing their volume.

10.2.5 Short-Term Effectiveness

IR Site 11. Both Alternative 1 and Alternative 2 are effective in the short term, because IR Site 11 currently poses no human health or environmental risk, so long as port-related and industrial use is maintained.

Implementation of institutional controls (Alternative 2) does not require construction or installation of equipment and, thus, presents no short-term risks to workers or surrounding ecosystems. Groundwater monitoring (Alternative 2) uses new or replacement groundwater wells and imposes, at most, a minor risk to workers during periodic sampling activities.

Alternative 1, the NFA alternative, implies that no activities are implemented at IR Site 11, and thus imposes no short-term risks or adverse impacts to workers or the community as the result of construction or treatment operations.

IR Sites 12 and 13 Soil. Soil Alternatives 2, 3, and 4 are effective in the short term. These alternatives include institutional controls, which do not require construction or installation of equipment and, thus, present no short-term risks to workers or surrounding ecosystems. In addition, Soil Alternative 3, IR Site 12, includes minimal activities to maintain the current pavement, plantings, and other enhancements placed over the site by the Port of Long Beach, thus protecting the public and the environment from soil contaminants at the site.

Soil Alternative 4, IR Site 12, is effective because it removes soil contaminants from the site through excavation. The soil is then treated and disposed off-site, and clean soil is used to fill the excavation. However, Soil Alternative 4, IR Site 12, poses some short-term risk to workers excavating and transporting contaminated soils to the off-site treatment and disposal facility. Soil Alternative 1, the NFA alternative, is not effective because it does nothing to protect the public or the environment from contaminants present in site soil.

IR Sites 12 and 13 Groundwater. Groundwater Alternatives 2, 3, and 4 are effective in the short term. These alternatives include institutional controls, which do not require construction or installation of equipment and thus present no short-term risks to workers or surrounding ecosystems, and groundwater monitoring using new or replacement groundwater wells. Monitoring imposes, at most, a minor risk to workers during periodic sampling activities.

In addition, Groundwater Alternative 3 is effective because it prevents groundwater contaminants from migrating to surface waters through the installation of a water-permeable, reactive barrier. However, Groundwater Alternative 3 poses some short-term risk to workers installing the barrier, because installation of the barrier requires that the sites be excavated, trenched, and regraded. Likewise, Groundwater Alternative 4 is effective because it removes contaminants from the site through ex situ treatment in the form of filtering. However, Groundwater Alternative 4 poses some short-term risk to workers installing the treatment system. The operation of the system also poses some risk because the treatment medium must be changed frequently.

Groundwater Alternative 1, the NFA alternative, is not effective in the short term because it does nothing to prevent public and environmental exposure to groundwater contaminants present at the sites.

10.2.6 Implementability

IR Site 11. The implementation of institutional controls may require negotiations between stakeholders. Groundwater monitoring will be implemented using standard methods and new or replacement groundwater monitoring wells. The DON will have access to the property for groundwater monitoring purposes. Because no construction or installation of equipment and no permitting are required, Alternative 2, institutional controls and groundwater monitoring, is relatively easy to implement.

Alternative 1, the NFA alternative, is very easy to implement, because it requires no action.

IR Sites 12 and 13 Soil. Soil Alternatives 2 and 3 are relatively easy to implement because no construction or installation of equipment and no permitting is required. Institutional controls must be crafted to require that all applicable federal, state, and local regulations related to removal and disposal of contaminated soil be followed. Soil Alternative 3 also provides for maintenance of the existing cover at IR Site 12. Because the cover has already been installed, maintenance is relatively simple to implement.

Soil Alternative 4 is difficult to implement because it requires excavation and transport of contaminated soils, off-site treatment and disposal of those soils, and the emplacement of clean soils to fill the site excavation. In addition, implementation of Soil Alternative 4 significantly disrupts the current improvements of IR Site 12 made by the Port of Long Beach.

Soil Alternative 1, the NFA alternative, is very easy to implement, because it requires no action.

IR Sites 12 and 13 Groundwater. Groundwater Alternative 2 is relatively easy to implement because no construction or installation of equipment and no permitting are required. Institutional controls must be crafted to limit unauthorized disturbance and use of groundwater, and groundwater monitoring is implemented using standard methods and new or replacement groundwater monitoring wells. The DON has access to the property for groundwater monitoring purposes.

Groundwater Alternative 3 is difficult to implement because placement of a water-permeable reactive barrier requires that the sites be excavated, trenched, and regraded. In addition, such activities would significantly disrupt the current improvements of IR Sites 12 and 13 made by the Port of Long Beach, to the point that they would need to be redone. Installing a groundwater extraction and ex situ treatment system (Groundwater Alternative 4) is relatively easy. However, the system is difficult to maintain because the treatment medium must be changed frequently.

Groundwater Alternative 1, the NFA alternative, is very easy to implement, because it requires no action.

10.2.7 Cost

Capital costs and annual O&M costs discussed below have been estimated for each alternative based on assumptions that can be obtained from the FS. All costs and implementation times for each alternative are estimated. Total costs are given in today's dollars, not adjusted for inflation, and represent net present-worth value. Actual times needed for cleanup and criteria for termination of the remediation project will be determined during the Remedial Design phase.

IR Site 11. The costs associated with institutional controls (Alternative 2) at IR Site 11 depend on the level of administrative effort required to implement, enforce, or change these controls. Best estimates for implementation are \$6,000 per site, although actual costs may vary considerably.

Groundwater sampling (Alternative 2) can be performed at a relatively low cost, provided that existing groundwater monitoring wells are used. Sampling and analysis are expected to cost about \$46,000 per year (annual O&M cost) for quarterly monitoring. Capital cost is \$0.

No costs are associated with Alternative 1, the NFA alternative.

IR Sites 12 and 13 Soil. The costs associated with Soil Alternatives 2 and 3 are expected to be small. The costs associated with institutional controls which are included in both Alternatives 2 (IR Site 13) and 3 (IR Site 12) depend on the level of administrative effort required to implement, enforce, or change these controls. Best estimates for implementation are \$6,000 per site, although actual costs may vary considerably. The cost associated with maintaining the current pavement and plantings cover over IR Site 12 emplaced by the Port of Long Beach is estimated at \$48,000 for 30 years (total O&M cost over 30 years).

The costs associated with Soil Alternative 4 for IR Site 12 are expected to be very high. The estimate for excavation and off-site treatment and disposal of contaminated soil, including filling of the excavation with clean soil, is \$1,000,000 to \$2,500,000 (capital cost) over a period of two years. These costs include an estimated \$6,000 per site for implementation of institutional controls. Total O&M cost is estimated at \$1,000.

No costs are associated with Alternative 1, the NFA alternative.

IR Sites 12 and 13 Groundwater. The costs associated with Groundwater Alternative 2, groundwater monitoring and institutional controls, at IR Sites 12 and 13 are estimated at approximately \$300,000 in capital costs and \$610,000 in O&M costs over 30 years, although the duration of the project will be established in the Remedial Design phase. The costs associated with institutional controls at each site depend on the level of administrative effort required to implement, enforce, or change these controls. Best estimates for implementation are \$6,000 per site, although actual costs may vary considerably.

The costs associated with Groundwater Alternative 3 are expected to be very high. Excavation and trenching of IR Sites 12 and 13 to emplace the water-permeable barrier, and regrading of the sites to direct water flow, is estimated to cost \$4,400,000 (capital cost). These costs include an estimated \$6,000 per site for implementation of institutional controls. Operation and maintenance costs associated with maintaining the permeable, reactive barrier are estimated at \$3,000,000 over a 30-year period.

The costs associated with Groundwater Alternative 4 are expected to be high. Installing a groundwater extraction and ex situ treatment system at IR Sites 12 and 13 is estimated to cost \$1,500,000 (capital cost). These costs include an estimated \$6,000 per site for implementation of institutional controls. Because the treatment medium must be changed frequently, operation and maintenance of the system is estimated to cost \$1,600,000 over a 30-year period, consisting of 15 years of active treatment and 15 additional years for groundwater monitoring.

No costs are associated with Alternative 1, the NFA alternative.

10.2.8 State/Support Agency Acceptance

The state acceptance criterion requires the DON, as the responsible party, to address the state's comments and concerns for each proposed remediation alternative. The state's comments and concerns focused primarily on community awareness of the remedial investigations at IR Sites 11, 12, and 13 and their results. The state's primary concerns were the ability of the public to have access to and to understand the remedial investigation results, the remedial alternatives, and the reasons that the preferred alternative was selected. Comment responses have been accepted by the state. The RWQCB and DTSC agreed to the Proposed Plans and the selected remedies. This ROD documents the state's acceptance of the selected remedies: IR Site 11, Alternative 2; IR Site 13, Soil Alternative 2, and IR Site 12, Soil Alternative 3; and IR Sites 12 and 13, Groundwater Alternative 2. The RWQCB and the DTSC concur with this ROD.

The DTSC Remedial Action Plan (RAP) requirements are presented in Section 13.0, "Remedial Action Plan Requirements." The DTSC has determined that the RI and the FS satisfy RAP requirements. Any revised or additional RAP requirements will be provided and administered by the DTSC.

10.2.9 Community Acceptance

Appendix C includes a roster of attendees of the public meeting for IR Site 11 held on November 28, 2001, in Long Beach, CA, and a complete transcript of that meeting. Appendix C also

includes a roster of attendees of the public meeting for IR Sites 12 and 13 held on July 21, 2004, in Long Beach, CA, and a complete transcript of that meeting.

The DON carefully evaluated all public comments, took into consideration information provided by the public, and answered all questions. The public's concerns focused primarily on long-term environmental protection, especially of endangered species, migratory birds, and coastal environments. Because IR Site 11, 12, and 13 reverted to the City of Long Beach in August 1998, long-term environmental protection is the responsibility of the Port of Long Beach and of state regulatory and enforcement agencies. Appendix C documents the comments that the DON received from the public about IR Sites 11, 12, and 13, and provides the DON's response to those comments.

The community acceptance of the selected remedy is fully addressed by this ROD.

11.0: PRINCIPAL THREAT WASTES

There are no principal threat wastes at IR Sites 11, 12, and 13; however, contaminants in concentrations that exceed PRGs and other risk-based criteria will be left in place at IR Sites 11, 12, and 13.

IR Site 11. Because the current use of IR Site 11 is port-related and industrial, there is no potential for ecological receptors to be exposed to soil contaminants. Thus, the contaminants at the site pose no risk to ecological receptors, as long as the site remains in port-related and industrial use.

The HHRA determined that IR Site 11 does not present unacceptable risks to industrial workers and utility maintenance workers. The Reuse Plan for LBNC (City of Long Beach 1995) designates the former LBNC for port-related and industrial use.

Thus, the contaminants remaining at the site pose no threat to human health, as long as the site use remains port-related and industrial. In addition, groundwater monitoring at the site will be used to ensure early detection of contaminant concentrations in excess of California Ocean Plan limits (SWRCB, 2001) that can threaten surface waters, so actions can be taken to prevent their migration and entry.

IR Sites 12 and 13 Soil. Because the current use of IR Sites 12 and 13 is port-related and industrial, there is no potential for on-site ecological receptors to be exposed to soil contaminants. Thus, the contaminants at the sites pose no risk to on-site ecological receptors, so long as the site uses remain port-related and industrial.

The contaminants in soil at IR Site 12 are PAHs, carbazole, and arsenic. The HHRA determined that the presence of these contaminants at IR Site 12, Soil AOC 1 would contribute to an ELCR of 3.9×10^{-4} for industrial workers if the surface of the AOC were not paved. An ELCR of 3.9×10^{-4} is above the U.S. EPA's target range of 1×10^{-6} to 1×10^{-4} for managing cancer risks at sites where industrial exposure scenarios are applied.

In August 1998, IR Sites 12 and 13 reverted to the City of Long Beach for their construction of a marine container terminal. Since the completion of the HHRA, the Port of Long Beach has redeveloped Sites 12 and 13 to include roadways, parking areas, and planters to support access to and parking for administrative buildings located near the container terminal entrance. Thus, most of IR Sites 12 and 13 are currently paved or otherwise covered, and industrial exposures, as postulated in the HHRA, have been minimized. Land use restrictions will ensure limits on future soil disturbances that could lead to human exposures. The LUCs also provide a requirement for maintenance of the existing pavement (cap) over IR Site 12, AOC 1.

IR Sites 12 and 13 Groundwater. The contaminant in shallow groundwater beneath IR Sites 12 and 13 is arsenic. Arsenic was measured at concentrations above risk-based criteria in groundwater at the sites. Computer modeling (BNI, 1997) showed that concentrations of contaminants in soil and groundwater at IR Sites 12 and 13 would not result in groundwater concentrations exceeding California Ocean Plan limits (SWRCB, 2001) at the groundwater-

surface water interface. Thus, the contaminants at the sites pose no risk to off-site ecological receptors. In addition, groundwater at IR Sites 12 and 13 is not used for drinking water. Regional Board Resolution No. 98-18 (RWQCB, 1998) modified the regulatory provisions of the Water Quality Control Plan for the Los Angeles Region (Basin Plan) (RWQCB, 1975) by removing the municipal and domestic use (MUN) beneficial use designation from the aquifers underlying Terminal Island, which includes IR Sites 12 and 13. The Basin Plan still retains the beneficial uses of industrial process supply (PROC), industrial service supply (IND), and agricultural supply (AGR).

Land use restrictions will ensure limits on future groundwater uses. In addition, the redevelopment of IR Sites 12 and 13 has involved the addition of clean fill and pavement to the sites' surface. Paving was estimated to reduce the potential for vadose zone leaching of arsenic and other contaminants by a factor of 144. Finally, groundwater monitoring at the sites will be used to ensure early detection of arsenic movement that can threaten surface waters, so that actions can be taken to prevent its entry.

12.0: THE SELECTED REMEDY

The RAOs for IR Site 11 are as follows:

- To maintain industrial land use at the site.
- To prevent unauthorized disturbance of soil and groundwater
- To prevent the migration of contaminants from groundwater to surface water at concentrations that exceed California Ocean Plan limits.

The RAOs for IR Sites 12 and 13 are as follows:

- To protect human health and the environment by maintaining industrial uses, and prohibiting specific sensitive uses
- To prevent unauthorized disturbance of soil, and disturbance and use of groundwater
- To prevent the migration of contaminants from groundwater to surface water at concentrations that exceed California Ocean Plan limits.

In accordance with the NCP, three remedial alternatives for IR Site 11 were screened on effectiveness, implementability, and cost, and two alternatives underwent detailed analysis using the nine evaluation criteria described in Section 10, “Summary of Comparative Analysis of Alternatives.”

The selected remedy for IR Site 11 is institutional controls and groundwater monitoring. This alternative is expected to meet the RAOs as well as the threshold evaluation criteria. It also offers the best balance of performance for IR Site 11, based on the balancing evaluation criteria. Although groundwater modeling showed that contaminants in groundwater at IR Site 11 pose no risk to off-site receptors, the DTSC and DON agreed, and the RWQCB and U.S. EPA concurred, that these contaminants would be monitored.

In accordance with the NCP, four remedial alternatives for soil at IR Sites 12 and 13 and four remedial alternatives for groundwater at IR Sites 12 and 13 underwent detailed analysis using the nine evaluation criteria described in Section 10, “Summary of Comparative Analysis of Alternatives.”

The selected remedy for IR Sites 12 and 13 is institutional controls, groundwater monitoring, and at IR Site 12, maintenance of the existing cover placed over the site by the Port of Long Beach in 2001. This alternative is expected to meet the RAOs as well as the threshold evaluation criteria. It also offers the best balance of performance for IR Sites 12 and 13, based on the balancing evaluation criteria.

The real property encompassing IR Sites 11, 12, and 13 is now owned by the City of Long Beach. The city took ownership of this property from the Navy in August 1998 when the city

exercised its reversionary property rights (Appendix E). After the City of Long Beach took ownership of the property encompassing IR Sites 11, 12, and 13, restrictive covenants were placed on the property to protect human health and the environment. The City of Long Beach and the DTSC jointly executed and recorded a Covenant in July 2004 (Appendix F). The Navy is not a party to this Covenant; however, the Covenant refers to and is based upon Navy documents and response actions at the sites. To the extent that the Covenant was completed prior to the Navy's ROD for IR Sites 11, 12, and 13, the Covenant may or may not completely satisfy ROD requirements. Therefore, the effectiveness of the Covenant to satisfy ROD requirements will be evaluated in the Remedial Design/Remedial Action Work Plan (RD/RA WP) for IR Sites 11, 12, and 13.

The DON will prepare a Remedial Design Package that includes the RD/RA WP, and shall be responsible for implementing, inspecting, reporting, and enforcing the LUC objectives described in this ROD in accordance with the approved Remedial Design Package. Although the DON may later transfer these responsibilities to another party by contract or other means, the DON shall retain ultimate responsibility for remedy integrity. Should any of the LUC objectives fail, the DON shall ensure that appropriate actions are taken to reestablish the protectiveness of the remedy and may initiate legal action to either compel action by a third party(ies) and/or recover the DON's costs for mitigating any discovered LUC violation(s). The LUCs shall be maintained until the concentrations of hazardous substances in soil and groundwater have been reduced to levels that allow for unlimited exposure and unrestricted use. If groundwater monitoring shows that contaminants in groundwater are migrating toward surface water at concentrations that may exceed California Ocean Plan limits (SWRCB, 2001), the DON will provide a document to the state proposing action to respond to the migration.

As required by CERCLA Section 121(c), the DON will document in a summary report at least every five years (1) whether the remedy is expected to remain protective, (2) any deficiencies identified during the review, and (3) recommended specific actions to correct any deficiencies (DON, 2001). If necessary, the five-year review report will include descriptions of follow-on actions needed to achieve, or to continue to assure, protectiveness along with a timetable for these actions.

12.1 Summary of the Rationale for the Selected Remedy

The DON developed its assumptions about future land use at IR Sites 11, 12, and 13 based on the Port Master Plan for the Long Beach Harbor District (Port of Long Beach, 1999) which permits uses of the sites as "primary port facilities" and other industrial/commercial uses; the Reuse Plan of the LRA (City of Long Beach, 1995), which designates the former LBNC for port-related and industrial use; and the restrictive covenants that were placed on the property to protect human health and the environment when the City of Long Beach and the DTSC jointly executed and recorded a Covenant in July 2004 (Appendix F).

Contaminants in concentrations that exceed PRGs and other risk-based criteria will be left in place at IR Sites 11, 12, and 13. Institutional controls will be used to prevent changes in future land and groundwater use that could increase human health risks at the sites. Institutional controls are a method to ensure that land uses at IR Sites 11, 12, and 13 remain protective of human

health and the environment. They will be implemented in the form of land use covenants. Uses such as residences, child care centers, playgrounds, or other areas frequented by children will be prohibited. Such land use restrictions will prohibit non-port-related and non-industrial use of the sites.

Groundwater at IR Sites 11, 12, and 13 is saline and non-potable, and is not used for drinking water. Regional Board Resolution 98-18 (RWQCB, 1998) modified the regulatory provisions of the Basin Plan (RWQCB, 1975) by removing the MUN beneficial use designation from the aquifers underlying Terminal Island, which includes IR Sites 11, 12, and 13. The Basin Plan still retains the beneficial uses of PROC, IND, and AGR for the underlying groundwater. Land use restrictions will ensure limits on future groundwater uses.

Groundwater monitoring will be used at IR Sites 11, 12, and 13 as a method to detect the movement of contaminants in groundwater. The potential exists for groundwater contaminants to migrate to surface water (e.g., the ocean). Groundwater monitoring will allow the early detection of contaminants that threaten surface water so that action can be taken to prevent their entry.

Because IR Sites 11, 12, and 13 were subject to previous industrial development, there are no significant biological habitats on the sites. In 2001, the Port of Long Beach made significant surface improvements at IR Sites 12 and 13. These improvements included re-grading the sites' surface, paving most of the area for parking and roadways, excavating areas designated for landscaping to 5 ft bgs, and adding imported soil to a height above the original grade. These improvements provide part of the remedy for IR Site 12. Given current site conditions and the anticipated port-related and industrial land use, the existing surface improvements at IR Site 12 will be maintained to provide a protective barrier to minimize impacts to human health and the environment. The RD/RA Work Plan will include a description of how the remedy will be implemented to maintain protectiveness and meet requirements of the RAOs.

The selected remedies for IR Sites 11, 12, and 13 will attain all federal and state ARARs, which are presented in detail in Section 14.0.

The selected remedies for IR Sites 11, 12, and 13 include groundwater monitoring at new and replacement monitoring wells and will be conducted so as to attain RCRA monitoring requirements. If new groundwater monitoring wells are installed, then ARARs associated with air releases from drilling equipment, and ARARs associated with testing of drill cuttings and purge water for hazardous contaminant levels, will be attained. In addition, well installation and groundwater-monitoring activities will be conducted to attain coastal zone management requirements. In the unlikely event that the drill cuttings or purge water are characterized as RCRA waste, then DOT regulations for transportation of hazardous materials will be attained. Thus, all monitoring, drilling, testing, and handling will be conducted appropriately according to ARARs, and wastes will be disposed of appropriately.

12.2 Description of the Selected Remedy

The selected remedy for IR Site 11 comprises institutional controls and groundwater monitoring. The selected remedy for IR Sites 12 and 13 comprises institutional controls, groundwater moni-

toring, and maintenance of the existing cover placed over IR Site 12 by the Port of Long Beach. The RD/RA Work Plan will include a description of how the remedy will be implemented to maintain protectiveness and meet requirements of the RAOs. The objectives of institutional controls are to ensure that port-related and industrial use of the land at IR Sites 11, 12, and 13 is maintained and to prevent use of the land for residential purposes and other sensitive uses. The volume and concentration of contaminants at these sites would present an unacceptable risk to human health and the environment if used for residences, child care centers, schools, playgrounds, hospitals, or other areas frequented by sensitive individuals.

Institutional Controls. Institutional controls are non-engineering mechanisms to implement land use controls that will be used to prevent exposure of future landowner(s) and/or user(s) of the property to hazardous substances and to maintain the integrity of the remedial action until remediation is complete and remediation goals have been achieved. Such institutional controls in this ROD/RAP will be in the form of LUCs, which are necessary to assure the protectiveness of and prevent damage to or interference with the remedial action. Monitoring and inspections will be conducted to assure that the LUCs are being followed.

The following are LUC objectives to be achieved for IR Sites 11, 12, and 13:

- Prohibit the installation of new groundwater wells of any type and prevent exposure to contaminated groundwater without prior review from the DON, DTSC, U.S. EPA, and RWQCB until remediation objectives have been achieved;
- Prohibit the installation of any well or other structure that has the potential to affect plume migration;
- Prohibit the alteration, disturbance, or removal of groundwater monitoring wells without prior review from the DON, DTSC, U.S. EPA, and RWQCB; and
- Prohibit the use of property for residential and sensitive uses.

The DON shall address institutional control implementation and maintenance actions, including periodic inspections, in the Remedial Design Package to be developed and submitted to the DTSC, U.S. EPA, and RWQCB for review. The Remedial Design Package shall include a LUC remedial design selection to describe more specific LUC implementation and enforcement actions, including:

- Requirements for a CERCLA 5-year remedy review;
- Frequency and requirements for periodic monitoring or visual inspections;
- Reporting results from monitoring and inspections;

- Notification procedures to the DTSC for actions or responses needed to correct any violations of the LUCs or other actions inconsistent with the LUCs;
- Consultation with DTSC, RWQCB, and other government agencies regarding wording of land-use restrictions;
- Identification of responsibilities for the DON, DTSC, U.S. EPA, and RWQCB, other government agencies, and the new property owner for implementation, monitoring, reporting, and enforcement of LUCs;
- Providing a list of LUCs with the expected duration; and
- Providing maps identifying where LUCs are to be implemented.

The DON will prepare a Remedial Design Package that includes the RD/RA WP, and shall be responsible for implementation, inspecting, reporting, and enforcing the LUC objectives described in this ROD in accordance with the approved Remedial Design Package. Although the DON may later transfer these responsibilities to another party by contract or other means, the DON shall retain ultimate responsibility for remedy integrity. Should any of the LUC objectives fail, the DON shall ensure that appropriate actions are taken to reestablish the protectiveness of the remedy and may initiate legal action to either compel action by a third party(ies) and/or recover the DON's costs for mitigating any discovered LUC violation(s). The LUC shall be maintained until the concentrations of hazardous substances in soil and groundwater have been reduced to levels that allow for unlimited exposure and unrestricted use.

After the City of Long Beach took ownership of the property encompassing IR Sites 11, 12, and 13, restrictive covenants were placed on the property to protect human health and the environment. The City of Long Beach and the DTSC jointly executed and recorded a Covenant in July 2004 (see Appendix F for the July 2004 Covenant). The Navy is not a party to this Covenant; however, the Covenant refers to and is based upon Navy documents and response actions at the sites. To the extent that the Covenant was completed prior to the Navy's ROD for IR Sites 11, 12, and 13, the Covenant may or may not completely satisfy ROD requirements. Therefore, the effectiveness of the Covenant to satisfy ROD requirements will be evaluated in the RD/RA work plan for IR Sites 11, 12, and 13.

Groundwater Monitoring. Groundwater monitoring for IR Sites 11, 12, and 13 will be performed based on the RD/RA WP requirements. All samples will be taken from new or replacement groundwater monitoring wells. Samples will be analyzed for the COPCs at the sites (see Section 5.0, "Site Characteristics"). Because no groundwater COPCs were identified for IR Site 11, groundwater samples for this site will be analyzed for three biologically toxic metals whose concentrations in groundwater consistently exceeded California Ocean Plan limits (SWRCB, 2001): arsenic; chromium; and mercury. Groundwater samples from IR Sites 12 and 13 will be analyzed for arsenic.

Results of groundwater analyses will be used to detect movement of contaminants in groundwater. By monitoring the potential migration of contaminants in groundwater, actions can be

taken to prevent contaminants at concentrations that exceed California Ocean Plan limits (SWRCB, 2001) from entering surface water. If monitoring indicates that groundwater concentrations exceed California Ocean Plan limits, any exceedance as specified in the RD/RA WP will be documented in the Semiannual or Annual Groundwater Monitoring Report for IR Sites 8, 9, 10, 11, 12, and 13.

Maintenance of Existing Cover. In 2001, the Port of Long Beach made significant surface improvements at IR Sites 12 and 13. These improvements included re-grading the sites' surface, paving most of the area for parking and roadways, excavating areas designated for landscaping to 5 ft bgs, and adding imported soil to a height above the original grade. These improvements provide part of the remedy for IR Site 12. The existing surface improvements at IR Site 12 will be maintained to provide a protective barrier to minimize exposure to contaminants remaining in shallow soils at the site. The RD/RA Work Plan will include a description of how the remedy will be implemented to maintain protectiveness and meet requirements of the RAOs.

12.3 Summary of the Estimated Remedy Costs

The cost estimates provided in this section are order-of-magnitude estimates expected to be within +50 to -30 percent of actual costs. The cost estimates for the selected remedy for IR Sites 11, 12, and 13 are shown in Table 12-1.

Table 12-1. Summary of Estimated Remedy Costs

Remedy Component	IR Site 11	IR Site 12	IR Site 13
	Cost (\$)	Cost (\$)	Cost (\$)
Institutional Controls	6,000	6,000	6,000
Groundwater Monitoring	46,000	46,000	46,000
Maintenance of Cap	0	48,000 ^(a)	0 ^(a)

(a) \$48,000-estimate includes maintenance of the existing cap on IR Site 12 for 30 years.

The costs associated with institutional controls at IR Sites 11, 12, and 13 depend on the level of administrative effort required to implement, enforce, or change these controls. Best estimates for implementation are \$6,000 per site, although actual costs may vary considerably.

Sampling of new or replacement groundwater monitoring wells can be performed at relatively low cost. Groundwater sampling is expected to cost about \$46,000 per site per year for quarterly monitoring, provided that existing monitoring wells can be used. These costs will increase (capital costs) if new groundwater monitoring wells must be installed.

In 2001, the Port of Long Beach made significant surface improvements at IR Sites 12 and 13. These improvements included re-grading the sites' surface, paving most of the area for parking and roadways, excavating areas designated for landscaping to 5 ft bgs, and adding imported soil to a height above the original grade. These improvements provide part of the remedy for IR Site 12. Maintenance of the existing improvements at IR Site 12 is expected to cost about \$48,000

over a period of 30 years. Because these site improvements are already in place, no capital costs are associated with them.

The information in this cost estimate summary is based on the best available information regarding the anticipated scope of the remedial alternative. Changes in the cost elements are likely to occur as a result of new information collected during the implementation of the remedy. Major changes may be documented in the form of a memorandum in the Administrative Record file or as an amendment to this ROD.

12.4 Expected Outcomes of the Selected Remedy

The real property encompassing IR Sites 11, 12, and 13 is now owned by the City of Long Beach. The city took ownership of this property from the Navy in August 1998 when the city exercised its reversionary property rights (Appendix E). After the City of Long Beach took ownership of the property encompassing IR Sites 11, 12, and 13, restrictive covenants were placed on the property to protect human health and the environment. The City of Long Beach and the DTSC jointly executed and recorded a Covenant in July 2004 (Appendix F). The Navy is not a party to this Covenant; however, the Covenant refers to and is based upon Navy documents and response actions at the sites. To the extent that the Covenant was completed prior to the Navy's ROD for IR Sites 11, 12, and 13, the Covenant may or may not completely satisfy ROD requirements. Therefore, the effectiveness of the Covenant to satisfy ROD requirements will be evaluated in the RD/RA WP for IR Sites 11, 12, and 13.

The DON retains the right to enter and inspect the property and to conduct groundwater monitoring.

The City of Long Beach has paved most of the property and will use it for industrial port purposes, including parking and roadways, cargo storage, container terminals, and other port-related activities.

The selected remedies will protect human health and the environment because they will ensure port-related and industrial land use and prohibit sensitive uses at IR Sites 11, 12, and 13; will ensure maintenance of the pavement, plantings, and other enhancements that the Port of Long Beach has made to IR Site 12; and will provide for groundwater monitoring to detect groundwater contaminant migration toward surface water.

12.5 Implementation of the Selected Remedy

Details such as sampling location and frequency, chemical analyses, and data quality objectives of the groundwater monitoring program will be developed during the RD/RA phase. These decisions will be documented in a remedial design work plan that will be submitted for BRAC Cleanup Team (BCT) review. The work plan also will outline the criteria for site closure and the strategy for exiting the CERCLA process.

12.6 Five-Year Review Requirements

The NCP requires a five-year review if the selected remedial action results in hazardous substances, pollutants, or contaminants remaining on site at levels above those that allow for unlimited use and unrestricted exposure. Because the selected remedy will result in contaminants remaining on site above levels that allow for unlimited and unrestricted exposure, a review of the selected remedy will be conducted within five years after the initiation of the remedial action to ensure that the remedy is, or continues to be, protective of human health and the environment, and thereafter at five-year intervals as long as the remedy is in place.

13.0: REMEDIAL ACTION PLAN REQUIREMENTS

The DTSC Remedial Action Plan requirements are presented in Table 13-1. The DTSC has determined that the referenced sections of the RI report (BNI, 1997) and the FS reports (Battelle, 2001 and BNI, 2001) satisfy RAP requirements. Any revised or additional RAP requirements will be provided and administered by the DTSC. A copy of the California Health and Safety Code (HSC), Section 25356.1, RAP requirements, is included in this ROD as Appendix A.

Table 13-1. DTSC RAP Requirements

RAP Requirement	Reference Location
Health and safety risks posed by the conditions at the sites. When considering these risks, DTSC or the regional board shall consider scientific data and reports that may have a relationship to the sites.	<i>Final Remedial Investigation (RI) Report, Installation Restoration Program for Sites 8 through 13, Long Beach Naval Shipyard, Long Beach, California.</i> Chapter 5. (BNI, 1997)
The effect of contamination or pollution levels on present, future, and probable beneficial uses of contaminated, polluted, or threatened resources.	RI report Chapter 5.
The effect of alternative remedial action measures on the reasonable availability of groundwater resources for present, future, and probable beneficial uses.	<i>Final Feasibility Study for Installation Restoration Sites 8, 10, and 11, Long Beach Naval Complex, Long Beach, California.</i> Sections 4 and 5. (Battelle, 2001) <i>Final Feasibility Study Report Installation Restoration Program Sites 9, 12, and 13, Former Long Beach Naval Shipyard, Long Beach, California.</i> Sections 4 and 5. (BNI, 2001)
Site-specific characteristics, including the potential for off-site migration of hazardous substances, the surface and subsurface soil, the hydrogeologic conditions, and pre-existing background contamination levels.	RI report Chapters 3 and 4.
Cost-effectiveness of alternative remedial action measures.	FS report (Battelle, 2001) Sections 6 and 7. FS report (BNI, 2001) Sections 6 and 7.
The potential environmental impacts of alternative remedial action measures, including but not limited to, land disposal of untreated hazardous substances versus treatment of hazardous substances to remove or reduce their volume, toxicity, or mobility prior to disposal.	FS report (Battelle, 2001) Sections 6 and 7. FS report (BNI, 2001) Sections 6 and 7.

14.0: APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARs)

14.1 Introduction

This section identifies federal and state of California ARARs and sets forth DON determinations regarding the ARARs for the remedies selected in this ROD/RAP for IR Sites 11, 12, and 13. This final determination was made after public review, as part of the remedy selection process.

14.1.1 Summary of CERCLA and NCP Requirements

Section 121(d) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA, 42 *United States Code* [USC] Section 9621[d]), as amended, states that remedial actions on CERCLA sites must attain (or the decision document must justify the waiver of) any federal or more stringent state environmental standards, requirements, criteria, or limitations that are determined to be legally applicable or relevant and appropriate.

Applicable requirements are those cleanup standards, standards of control, and other substantive environmental protection requirements, criteria, or limitations promulgated under federal or state law that specifically address the situation at a CERCLA site. The requirement is applicable if the jurisdictional prerequisites of the standard show a direct correspondence when objectively compared to the conditions at the site. An applicable federal requirement is an ARAR. An applicable state requirement is an ARAR only if it is more stringent than federal ARARs.

If the requirement is not legally applicable, then the requirement is evaluated to determine whether it is relevant and appropriate. Relevant and appropriate requirements are those cleanup standards, standards of control, and other substantive environmental protection requirements, criteria, or limitations promulgated under federal or state law that, although not applicable, address problems or situations similar to the circumstances of the selected remedy and are well suited to the conditions of the site (U.S. EPA, 1988a). A requirement must be determined to be both relevant and appropriate in order to be considered an ARAR.

The criteria for determining relevance and appropriateness are listed in 40 CFR Section 300.400(g)(2) and include the following:

- The purpose of the requirement and the purpose of the CERCLA action
- The medium regulated or affected by the requirement and the medium contaminated or affected at the CERCLA site
- The substances regulated by the requirement and the substances found at the CERCLA site
- Any variances, waivers, or exemptions of the requirement and their availability for the circumstances at the CERCLA site

- The type of place regulated and the type of place affected by the release or CERCLA action
- The type and size of structure or facility regulated and the type and size of structure or facility affected by the release or contemplated by the CERCLA action
- Any consideration of use or potential use of affected resources in the requirement and the use or potential use of the affected resources at the CERCLA site.

According to CERCLA ARARs guidance (U.S. EPA, 1988a), a requirement may be “applicable” or “relevant and appropriate,” but not both. Identification of ARARs is done on a site-specific basis and involves a two-part analysis: first, a determination whether a given requirement is applicable; then, if it is not applicable, a determination whether it is, nevertheless, both relevant and appropriate. It is important to explain that some regulations may be applicable or, if not applicable, may still be relevant and appropriate. When the analysis determines that a requirement is both relevant and appropriate, such a requirement must be complied with to the same degree as if it were applicable (U.S. EPA, 1988b).

Tables included in this section present each ARAR with a determination of ARAR status (i.e., applicable, or relevant and appropriate). For the determination of relevance and appropriateness, the pertinent criteria were examined to determine whether the requirement addressed problems or situations sufficiently similar to the circumstances of the release or selected remedial action, and whether the requirement was well suited to the site.

To qualify as a state ARAR under CERCLA and the NCP, a state requirement must be:

- A state law
- An environmental or facility siting law
- Promulgated (of general applicability and legally enforceable)
- Substantive (not procedural or administrative)
- More stringent than the federal requirement
- Identified in a timely manner
- Consistently applied.

To constitute an ARAR, a requirement must be substantive. Therefore, only the substantive provisions of requirements identified as ARARs in this analysis are considered to be ARARs. Permits are considered to be procedural or administrative requirements. Provisions of generally relevant federal and state statutes and regulations that were determined to be procedural or non-environmental, including permit requirements, are not considered to be ARARs. CERCLA 121(e)(1), 42 USC Section 9621(e)(1), states that “No Federal, State, or local permit shall be required for the portion of any removal or remedial action conducted entirely on-site, where such remedial action is selected and carried out in compliance with this section.” The term *on-site* is defined for purposes of this ARARs discussion as “the areal extent of contamination and all

suitable areas in very close proximity to the contamination necessary for implementation of the response action” (40 CFR Section 300.5).

Non-promulgated advisories or guidance issued by federal or state governments are not legally binding and do not have the status of ARARs. Such requirements may, however, be useful, and are used as guidelines. They are useful for guiding decisions regarding cleanup levels or methodologies when regulatory standards are not available. A listing of such guidelines is presented in Appendix D.

In accordance with U.S. EPA (1988a) guidance, ARARs are generally divided into three categories: chemical-specific, location-specific, and action-specific requirements. This classification was developed to aid in the identification of ARARs; some ARARs do not fall precisely into one group or another. ARARs are identified on a site basis for remedial actions where CERCLA authority is the basis for cleanup.

As the lead federal agency, the DON has primary responsibility for identifying federal ARARs at IR Sites 11, 12, and 13. ARARs that have been identified for the ROD are discussed in Section 14.1.2.2. Pursuant to the definition of the term *on-site* in 40 CFR Section 300.5, the on-station areas that are part of this action are IR Sites 11, 12, and 13. The selected remedy for IR Sites 11, 12, and 13 comprises institutional controls and groundwater monitoring. The selected remedy for IR Site 12 also includes maintenance of the existing cover placed over IR Site 12 by the Port of Long Beach. Institutional controls in the form of LUCs will maintain port-related and industrial land use at the site and prevent unauthorized disturbance of soil and groundwater. Groundwater monitoring will be used to determine whether contaminants at the sites are migrating to surface water in concentrations that could threaten human health or the environment. Maintenance of the existing cover and surface improvements at IR Site 12 will assure a protective barrier to minimize exposure to contaminants remaining in shallow soils at the sites.

Identification of state ARARs was initiated through DON requests that the DTSC identify potential state ARARs, an action described in more detail in Section 14.1.2.3. State ARARs that have been identified for IR Sites 11, 12, and 13 are discussed below.

14.1.2 Methodology Description

The process of identifying and evaluating federal and state ARARs is described in this subsection.

14.1.2.1 General

As the lead federal agency, the DON has primary responsibility for identification of ARARs for IR Sites 11, 12, and 13. In preparing the ARAR analysis, the DON undertook the following measures, consistent with CERCLA and the NCP:

- Identified federal ARARs for the remedial alternatives addressed in this ROD, taking into account site-specific information for IR Sites 11, 12, and 13

- Reviewed potential state ARARs identified by the state to determine whether they satisfy CERCLA and NCP criteria that must be met in order to constitute state ARARs
- Evaluated and compared federal ARARs and their state counterparts to determine whether state ARARs are more stringent than the federal ARARs or are in addition to the federally required actions
- Reached a conclusion as to which federal and state ARARs are the most stringent and/or “controlling” ARARs.

As discussed in Section 8.0, “Remedial Action Objectives,” of this ROD are concerned with preventing groundwater contaminants at concentrations above applicable water quality criteria or background values from being discharged to surface waters, and preventing site workers from exposure to contaminants in soil that may increase health risks.

The RAOs for IR Site 11 are as follows:

- To maintain industrial land use at the site.
- To prevent unauthorized disturbance of soil and groundwater
- To prevent the migration of contaminants from groundwater to surface water at concentrations that exceed California Ocean Plan limits.

The RAOs for IR Sites 12 and 13 are as follows:

- To protect human health and the environment by maintaining industrial uses, and prohibiting specific sensitive uses
- To prevent unauthorized disturbance of soil, and disturbance and use of groundwater.
- To prevent the migration of contaminants from groundwater to surface water at concentrations that exceed California Ocean Plan limits.

The remedies selected to achieve these RAOs are:

- IR Site 11: institutional controls in the form of land use controls/restrictions and groundwater monitoring
- IR Sites 12 and 13: institutional controls in the form of land use controls/restrictions, groundwater monitoring, and, at IR Site 12, maintenance of the existing cover.

The selected remedial actions for IR Sites 11, 12, and 13 discussed in this ROD, and for which an ARAR analysis is presented in this section, include institutional controls, groundwater moni-

toring, and, at IR Site 12, maintenance of site cover. Institutional controls, in the form of LUCs, are used to protect human health, to maintain port-related and industrial land use at the site, and to prevent unauthorized disturbance of soil and groundwater. Groundwater monitoring is used to detect whether contaminants left in place at the site are migrating to surface water at concentrations that exceed the limits specified in the California Ocean Plan (SWRCB, 2001). Maintenance of the existing cover at IR Site 12 is used to ensure a protective barrier to minimize exposure to contaminants remaining in shallow soils at the sites.

The selected remedies meet the RAOs using institutional controls to ensure that land use remains port-related and industrial and groundwater monitoring to assure that contaminants left in place at the sites do not migrate to surface waters. In addition, the remedy for IR Site 12 includes maintenance of an existing cover over the site to prevent contact with contaminants remaining in shallow soils. Land use controls/restrictions at the sites will also be used to limit excavation and to prohibit certain types of land use.

14.1.2.2 Identifying and Evaluating Federal ARARs

As the lead federal agency under CERCLA and the NCP, the DON is responsible for identifying federal ARARs. The final determination of federal ARARs is made in this ROD. The federal government implements a number of federal environmental statutes that are the source of potential federal ARARs, either in the form of statutes or regulations promulgated thereunder. Examples include RCRA, the Clean Water Act, the Safe Drinking Water Act, the Toxic Substances Control Act, and their implementing regulations. The preamble to the NCP at 55 Federal Register 8764-8765 (1990) provides a more complete listing.

The selected remedy was reviewed against federal ARARs, including but not limited to those set forth at 55 Federal Register 8764-8765 (1990), in order to determine if they were applicable or relevant and appropriate using the CERCLA and NCP criteria and procedures for ARARs identification by lead federal agencies.

14.1.2.3 Identifying and Evaluating State ARARs

The process of identifying and evaluating state ARARs by the state of California and the DON is described in this subsection.

14.1.2.3.1 Solicitation of State ARARs under NCP

U.S. EPA (1988b) guidance recommends that the lead federal agency consult with the state when identifying state ARARs for remedial actions. In essence, the CERCLA/NCP requirements at 40 CFR Section 300.515 for remedial action provide that the lead federal agency request that the state identify chemical-specific and location-specific state ARARs upon completion of characterization. The requirements also provide that the lead federal agency request identification of all categories of state ARARs (chemical-, location-, and action-specific) upon completion of identification of remedial alternatives for detailed analysis. The state must respond within 30 days of receipt of the lead federal agency requests. The remainder of this subsection documents the DON's efforts to identify and evaluate state ARARs.

The DON followed the procedures of the process set forth in 40 CFR Section 300.515 and the Federal Facility Site Remediation Agreement (SWDIV, 2000b) for remedial actions in seeking state assistance in identifying state ARARs.

14.1.2.3.2 Chronology of Efforts to Identify State ARARs

The following chronology summarizes the DON efforts to obtain state assistance in identifying state ARARs for the remediation of IR Sites 11, 12, and 13. Key correspondence between the DON and the state agencies relating to this effort has been included in the Administrative Record for this ROD.

The DON formally requested state chemical-, location-, and action-specific ARARs for IR Sites 11, 12, and 13 on January 13, 1993. The DON sent letters to the DTSC and the RWQCB soliciting ARARs based on preliminary remedial technologies and process options detailed to the agencies by the DON.

The DON received a letter from the DTSC providing a list of potential state ARARs on April 6, 1993.

This ARAR analysis addresses the state ARARs identified in the above correspondence from the DTSC and the RWQCB.

14.1.3 Other General Issues

General issues identified during the evaluation of ARARs for IR Sites 11, 12, and 13 are discussed in the following subsections.

The selected remedies for IR Sites 11, 12, and 13 include groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then the drill cuttings and purge water from well installations will be tested to determine if they meet the criteria for classification as RCRA characteristic hazardous waste. Although it is unlikely that drill cuttings and purge water will be characterized as hazardous waste, if they do meet the criteria, they will be handled and disposed of appropriately.

RCRA is a federal statute passed in 1976 to meet four goals: the protection of human health and the environment, the reduction of waste, the conservation of energy and natural resources, and the elimination of the generation of hazardous waste as expeditiously as possible. The Hazardous and Solid Waste Amendments (HSWA) of 1984 significantly expanded the scope of RCRA by adding new corrective action requirements, land disposal restrictions, and technical requirements. RCRA, as amended, contains several provisions that are potential ARARs for CERCLA sites.

Substantive RCRA requirements are applicable to response actions on CERCLA sites if the waste is a RCRA hazardous waste, and either:

- The waste was initially treated, stored, or disposed after the effective date of the particular RCRA requirement; or

- The activity at the CERCLA site constitutes treatment, storage, or disposal, as defined by RCRA (U.S. EPA, 1988a).

The preamble to the NCP indicates that state regulations that are components of a federally authorized or delegated state program are generally considered federal requirements and potential federal ARARs for the purposes of ARARs analysis (55 Federal Register 8666, 8742 [1990]). The state of California received approval for its base RCRA hazardous waste management program on 23 July 1992 (57 Federal Register 32726 [1992]). The state of California “Environmental Health Standards for the Management of Hazardous Waste,” set forth in Title 22 California Code of Regulations (CCR) Division 4.5, were approved by the U.S. EPA as a component of the federally authorized state of California RCRA program.

The regulations of Title 22 CCR Division 4.5 are, therefore, a source of potential federal ARARs for CERCLA response actions. An exception occurs if a state regulation is “either broader in scope or more stringent” than the corresponding federal RCRA regulation. In that case, the state regulation is not considered part of the federally authorized program or a potential federal ARAR. Rather, it is a state law requirement and a potential state ARAR.

The July 23, 1992 U.S. EPA notice approving the state of California RCRA program (57 Federal Register 32726 [1992]) specifically indicated that the state regulations addressed certain non-RCRA, state-regulated hazardous wastes that fell outside the scope of federal RCRA requirements. Title 22 CCR Division 4.5 requirements are potential state ARARs for such non-RCRA, state-regulated wastes.

A key threshold question for the ARARs analysis is whether or not the contaminants at IR Sites 11, 12, and 13 constitute federal hazardous waste as defined under RCRA and the state’s authorized program or qualify as non-RCRA, state-regulated hazardous waste. A discussion of waste characterization is included in Section 14.1.4.

14.1.4 Waste Characterization

Selection of ARARs involves the characterization of wastes as described below.

14.1.4.1 RCRA Hazardous Waste Determination

Federal RCRA hazardous waste determination is necessary to determine whether a waste is subject to RCRA requirements at Title 22 CCR Division 4.5 and other state requirements at 23 CCR Division 3, Chapter 15. The first step in the RCRA hazardous waste characterization process is to evaluate contaminated media at the sites and to determine whether it constitutes a “listed” RCRA waste. The preamble to the NCP states that “...it is often necessary to know the origin of the waste to determine whether it is a listed waste and that, if such documentation is lacking, the lead agency may assume it is not a listed waste” (55 Federal Register 8666, 8758 [1990]).

This approach is confirmed in U.S. EPA guidance for CERCLA compliance with other laws (U.S. EPA, 1988a), as follows:

“To determine whether a waste is a listed waste under RCRA, it is often necessary to know the source. However, at many Superfund sites, no information exists on the source of wastes. The lead agency should use available site information, manifests, storage records, and vouchers in an effort to ascertain the nature of these contaminants. When this documentation is not available, the lead agency may assume that the wastes are not listed RCRA hazardous wastes, unless further analysis or information becomes available that allows the lead agency to determine that the wastes are listed RCRA hazardous wastes.”

RCRA hazardous wastes that have been assigned U.S. EPA hazardous waste numbers (or codes) are listed in 22 CCR Sections 66261.30-66261.33. The lists include hazardous waste codes beginning with the letters “F,” “K,” “P,” and “U.”

Knowledge of the exact source of a waste is required for source-specific listed wastes (“K” waste codes). Some knowledge of the nature or source of the waste is required even for listed wastes from nonspecific sources, such as spent solvents (“F” waste codes) or commercial chemical products (“P” and “U” waste codes). These listed RCRA hazardous wastes are restricted to commercially pure chemicals used in particular processes such as degreasing.

P and U wastes cover only unused and unmixed commercial chemical products, particularly spilled or off-spec products (U.S. EPA, 1991a). Not every waste containing a P or U chemical is a hazardous waste. To determine whether a CERCLA investigation-derived waste contains P or U waste, there must be direct evidence of product use. In particular, all the following criteria must be met. The chemicals must be:

- Discarded (as described in 40 CFR Section 261.2[a][2])
- Either off-spec commercial products or a commercially sold grade
- Not used (soil contaminated with spilled unused wastes is a P or U waste)
- The sole active ingredient in a formulation.

Available historical information was reviewed during the RI for IR Sites 11, 12, and 13 (BNI, 1997), and no documentation of past waste disposal practices was found that would serve to classify the sources of contamination at the sites with respect to the RCRA waste listings. Therefore, the DON made the determination that soil and groundwater at IR Sites 11, 12, and 13 should not be classified as RCRA-listed hazardous wastes.

The second step in the RCRA hazardous waste characterization process is to evaluate potential hazardous characteristics of the waste. The evaluation of characteristic waste is described in U.S. EPA (1988b) guidance as follows:

“Under certain circumstances, although no historical information exists about the waste, it may be possible to identify the waste as RCRA characteristic waste. This is important in the event that (1) remedial alternatives under consideration at the site involve on-site treatment, storage, or disposal, in which case RCRA may be triggered as discussed in this section; or (2) a remedial alternative involves off-site shipment. Because the generator (in this case, the agency or

responsible party conducting the Superfund action) is responsible for determining whether the wastes exhibit any of these characteristics (defined in 40 CFR Section 261.21-261.24), testing may be required. The lead agency must use best professional judgment to determine, on a site-specific basis, if testing for hazardous characteristics is necessary.

In determining whether to test for the toxicity characteristic using the extraction procedures (EPs) toxicity test, it may be possible to assume that certain low concentrations of waste are not toxic. For example, if the total waste concentration in soil is 20 times or less the EP toxicity concentration, the waste cannot be characteristic hazardous waste. In such as case, RCRA requirements would not be applicable. In other instances, where it appears that the substances may be characteristic hazardous waste (ignitable, corrosive, reactive, or EP toxic), testing should be performed.”

Hazardous waste characteristics, as defined in 40 CFR Sections 261.21-261.24, are commonly referred to as ignitability, corrosivity, reactivity, and toxicity. The U.S. EPA approved the California environmental health standards for the management of hazardous waste set forth in Title 22 CCR Division 4.5 as a component of the federally authorized California RCRA program. Therefore, the characterization of RCRA waste is based on state requirements.

The characteristics of ignitability, corrosivity, reactivity, and toxicity are defined in Title 22 CCR Sections 66261.21-66261.24. According to Title 22 CCR Section 66261.24(a)(1)(A), “A waste that exhibits the characteristic of toxicity pursuant to subsection (a)(1) of this section has the U.S. EPA Hazardous Waste Number specified in Table I of this section which corresponds to the toxic contaminant causing it to be hazardous.” Table I assigns hazardous waste codes beginning with the letter “D” to wastes that exhibit the characteristic of toxicity; D waste codes are limited to “characteristic” hazardous waste.

According to Title 22 CCR Section 66261.10, waste characteristics can be measured by an available standardized test method or be reasonably classified by generators of waste based on their knowledge of the waste provided that the waste has already been reliably tested or if there is documentation of chemicals used. Soil contamination at IR Sites 11, 12, and 13 is not ignitable, corrosive, or reactive as defined in Title 22 CCR Sections 66261.21-66261.23. This determination was based on knowledge of the nature and concentrations of contaminants.

The requirements at Title 22 CCR Section 66261.24 list the toxic contaminant concentrations that determine the characteristic of toxicity. The concentration limits are in milligrams per liter (mg/L). These units are directly comparable to total concentrations in waste groundwater and surface water. These concentrations apply to the extract or leachate produced by the Toxicity Characteristic Leaching Procedure (TCLP) for waste soils.

A waste is considered hazardous if the contaminants in the wastewater or in the soil TCLP extract equal or exceed the TCLP limits. TCLP testing is required only if total contaminant concentrations in soil equal or exceed 20 times the TCLP limits because TCLP uses a 20-to-1 dilution for the extract (U.S. EPA, 1988a).

Under the California RCRA Program, waste can be classified as non-RCRA state-only hazardous waste if it meets specified conditions, as defined in Title 22 CCR Sections 66261.22(a)(3) and (4), 66261.24(a)(2) through (a)(8), 66261.101, and 66261.3(a)(2)(C) or 66261.3(a)(2)(F). These requirements have been identified as potentially applicable because a determination will be made as to whether wastes generated may be classified as non-RCRA wastes.

The selected remedies for IR Sites 11, 12, and 13 include groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then the drill cuttings and purge water from well installations will be tested to determine if they meet the criteria for classification as RCRA characteristic hazardous waste. Although it is unlikely that drill cuttings and purge water will be characterized as hazardous waste, if they do meet the criteria, then hazardous waste requirements will be considered relevant and appropriate ARARs.

14.1.4.2 California-Regulated, Non-RCRA Hazardous Waste

A waste determined not to be a RCRA hazardous waste may still be considered a state-regulated non-RCRA hazardous waste. Compared to the federal government, the California state government is broader in scope in its RCRA program in determining hazardous waste. Title 22 CCR Section 66261.24(a)(2) lists the total threshold limit concentrations (TTLCs) and the soluble threshold limit concentrations (STLCs) for non-RCRA hazardous waste. The state applies its own leaching procedure, the waste extraction test (WET), which uses a different acid reagent and has a different dilution factor (tenfold). Other state requirements may also be broader in scope than federal ARARs for identifying non-RCRA wastes regulated by the state. These requirements, listed in Title 22 CCR Section 66261.24, may be ARARs for wastes not covered under federal ARARs. A waste is considered hazardous if its total concentrations exceed the TTLCs or if the extract concentrations from the WET exceed the STLCs. A WET is required when the total concentrations exceed the STLC but are less than the TTLCs (Title 22 CCR, Division 4.5, Chapter 11, Appendix II[b]).

The selected remedies for IR Sites 11, 12, and 13 include groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then the drill cuttings and purge water from well installations will be tested to determine if they meet the criteria for classification as California-regulated, non-RCRA hazardous waste. Although it is unlikely that drill cuttings and purge water will be determined to be California-regulated, non-RCRA hazardous waste, if they do meet the criteria and if they are not determined to be similar to RCRA hazardous waste or if state requirements are more strict, then California-regulated, non-RCRA hazardous waste requirements will be considered ARARs.

14.1.4.3 Other California Waste Classifications

For waste discharged after 18 July 1997, solid waste classifications at Title 27 CCR Sections 20210, 20220, and 20230 are used to determine applicability of waste management requirements. These are summarized below.

A “designated waste” under Title 27 CCR Section 20210 is defined at California Water Code Section 13173. Under California Water Code Section 13173, designated waste is hazardous waste that has been granted a variance from hazardous waste management requirements or

non-hazardous waste that consists of or contains pollutants that, under ambient environmental conditions at a waste management unit, could be released in concentrations exceeding applicable water quality objectives or that could reasonably be expected to affect beneficial uses of the waters of the state.

A non-hazardous solid waste under Title 27 CCR Section 20220 is all putrescible and non-putrescible solid, semisolid, and liquid wastes, including garbage, trash, refuse, paper, rubbish, ashes, industrial wastes, demolition and construction wastes, abandoned vehicles and parts thereof, discarded home and industrial appliances, manure, vegetable or animal solid and semi-solid wastes, and other discarded waste (whether of solid or semisolid consistency), provided that such wastes do not contain wastes that must be managed as hazardous wastes or wastes that contain soluble pollutants in concentrations that exceed applicable water quality objectives or could cause degradation of waters of the state.

Under Title 27 CCR Section 20230, inert waste is that subset of solid waste that does not contain hazardous waste or soluble pollutants at concentrations in excess of applicable water quality objectives and does not contain significant quantities of decomposable waste.

14.2 Chemical-Specific ARARs

Chemical-specific ARARs are generally health-based or risk-based numerical values or methods applied to site-specific conditions that result in the establishment of a cleanup level. Many ARARs associated with particular response alternatives (such as closure or discharge) can be characterized as action-specific but include numerical values or methods to establish them so they fit in both categories (chemical-specific and action-specific).

This section presents ARARs determination conclusions addressing numerical values for ground-water, soil, and air; a summary of the ARARs conclusions; and a more detailed discussion of the ARARs for groundwater and air.

14.2.1 Summary of ARARs Conclusions by Medium

Groundwater, soil, and air are the environmental media potentially affected by the selected remedies for IR Sites 1, 12, and 13. The conclusions for ARARs pertaining to these media are presented in the following sections.

14.2.1.1 Groundwater ARARs Conclusions

The selected remedies for IR Sites 11, 12, and 13 do not include groundwater cleanup. However, groundwater will be monitored to determine if contaminants left in place at the sites are migrating to surface water in concentrations that exceed California Ocean Plan limits (SWRCB, 2001).

The selected remedies for IR Sites 11, 12, and 13 include groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then purge water from these wells will be tested to determine if it meets the requirements as RCRA characteristic hazardous waste under the substantive provisions of Title 22 CCR Sections 66261.22 through 66261.24, and, if not, if it

meets the requirements as non-RCRA hazardous waste, under the substantive provisions of Title 22 CCR Sections 66261.22 through 66261.3.

14.2.1.2 Soil ARARs Conclusions

The selected remedies for IR Sites 11, 12, and 13 do not include groundwater cleanup. The selected remedies for IR Sites 11, 12, and 13 include groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then soil cuttings and from well drilling will be tested to see if they are characteristic RCRA hazardous waste or non-RCRA hazardous solid waste. Applicable regulations for definition and characterization of waste as a RCRA hazardous waste or a non-RCRA hazardous waste are, respectively, the substantive provisions of Title 22 CCR Sections 66261.21 through 66261.24 and Title 22 CCR Section 66261.3.

14.2.1.3 Air ARARs Conclusions

The selected remedies for IR Sites 11, 12, and 13 include groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then, in addition to determining the hazardous status of soil cuttings and purge water from well drilling, as described above, air ARARs limiting fugitive emissions of particulates or fumes will be pertinent. National Ambient Air Quality Standards (NAAQS), including standards for particulates, will be considered. More specific information on air requirements is provided in the discussion of action-specific ARARs.

14.2.2 Detailed Discussion of ARARs by Medium

The following subsections provide a detailed discussion of federal and state ARARs by medium. These requirements are identified in Table 14-1 (federal) and Table 14-2 (state).

14.2.2.1 Groundwater ARARs

SWRCB Resolution 88-63 ("Sources of Drinking Water" policy designates all waters of the state to be suitable or potentially suitable as sources of drinking water, except water with existing high dissolved solids (TDS greater than 3,000 mg/L), low sustainable yield (less than 200 gallons per day for a single well), and waters with contamination that cannot be treated for domestic use using best management practices or best economically achievable treatment practices.

The mineral content of the groundwater at IR Sites 11, 12, and 13 approaches that of seawater (JEG, 1993a).

Regional Board Resolution 98-18, adopted November 2, 1998 by the RWQCB, modified the regulatory provisions of the Water Quality Control Plan for the Los Angeles Region by removing the beneficial use designation from the aquifers underlying Terminal Island, which includes IR Sites 11, 12, and 13. The California Office of Administrative Law approved the Resolution by their Notice of Approval dated February 9, 2000.

The selected remedies for IR Sites 11, 12, and 13 do not include groundwater cleanup. However, groundwater will be monitored to determine if contaminants left in place at the sites are migrating to surface water in concentrations that exceed California Ocean Plan limits (SWRCB, 2001).

The selected remedies for IR Sites 11, 12, and 13 include groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then the determination of whether purge water from installation of new wells is a RCRA characteristic hazardous waste or a non-RCRA hazardous waste will be made at the time that the wastes are generated.

The groundwater below IR Sites 11, 12, and 13 is not suitable for potable use. The vadose zone beneath IR Sites 11, 12, and 13 is composed of undifferentiated construction/hydraulic fill of fine-grained silty sand and sand with lesser amounts of sandy silt, silt, and clay. The water table occurs within the fill, which overlies a silty sand and sand unit. The thickness of the upper sands (fill and underlying sand) is approximately 35 to 40 ft. The shallowest water-bearing zone in the area around IR Sites 11, 12, and 13 is in the surficial deposits that comprise the constructed fills and near-surface native soils. Groundwater in this area is generally encountered at a depth between ground level and 25 ft bgs, with the depth depending, at least in part, on ground surface elevation. Contamination by seawater intrusion has limited the usefulness of most of the major aquifers in areas near the coast, including Terminal Island, where IR Sites 11, 12, and 13 are located.

14.2.2.1.1 Federal

A significant issue in identifying ARARs for groundwater under the SDWA and RCRA is whether the groundwater at the site can be classified as a source of drinking water. U.S. EPA groundwater policy set forth in the preamble to the NCP (55 Federal Register 8666, 8752-8756 [1990]). This policy uses the groundwater classification system set forth in the draft U.S. EPA *Guidelines for Groundwater Classification under the EPA Groundwater Protection Strategy* (U.S. EPA, 1986). Under this policy, groundwater is classified in one of three categories (Class I, II, or III), based on ecological importance, replaceability, and vulnerability considerations. Irreplaceable groundwater that is currently used by a substantial population or groundwater that supports a vital habitat is considered to be Class I. Class II consists of groundwater that is currently being used or that might be used as a source of drinking water in the future. Groundwater that cannot be used for drinking water due to insufficient quality (e.g., high salinity or widespread, naturally occurring contamination) or quantity is considered to be Class III. The U.S. EPA guidelines define Class III groundwater as groundwater with TDS concentrations greater than 10,000 mg/L and a yield of less than 150 gallons per day (U.S. EPA, 1986). Class III groundwater can also be classified based on economic or technological treatability tests as well as quality or quantity (both criteria are not needed, just one or the other).

The groundwater underlying IR Sites 11, 12, and 13 is Class III. Results from wells used to monitor groundwater at IR Sites 11, 12, and 13 showed that TDS concentrations consistently exceeded 10,000 mg/L.

RCRA Hazardous Waste. The federal RCRA requirements at 40 CFR Part 261 do not apply in California because the state RCRA program is authorized. The authorized state RCRA requirements are therefore considered federal ARARS (see Section 14.1.3) if it becomes necessary to drill new groundwater monitoring wells. If new groundwater wells are installed, purge water will be tested. The applicability of RCRA requirements depends on whether the purge water is a RCRA hazardous waste.

RCRA requirements may be relevant and appropriate even if they are not applicable. Comparison of the site waste to the definition of RCRA hazardous waste will determine whether a waste is a RCRA hazardous waste. The RCRA requirements at Title 22 CCR Sections 66261.21, 66261.22(a)(1), 66261.23, 66261.24(a)(1), and 66261.100 are ARARs because they define RCRA hazardous waste. A waste can meet the definition of hazardous waste if it has the toxicity characteristic of hazardous waste. The TCLP is used to make this determination. The maximum concentrations allowable for the TCLP listed in Section 66261.24(a)(1)(B) are federal ARARs for determining whether the drill cuttings or purge water are hazardous waste. If these wastes have concentrations exceeding these values, then they are determined to be characteristic RCRA hazardous waste (see Section 14.1.4.1).

14.2.2.1.2 State

The state has identified the ARARs discussed below for groundwater monitoring at IR Sites 11, 12, and 13.

RCRA Requirements. State RCRA requirements included within the U.S. EPA-authorized RCRA program for California are considered to be federal ARARs and are discussed above. When state regulations are either broader in scope or more stringent than their federal counterparts, they are considered state ARARs. State requirements, such as the non-RCRA, state-regulated hazardous waste requirements, are ARARs because they are not within the scope of the federal ARARs (57 Federal Register 60848). Title 22 CCR Division 4.5 requirements that are part of the state-approved RCRA program are state ARARs for non-RCRA, state-regulated hazardous wastes.

The selected remedies for IR Sites 11, 12, and 13 include groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then the determination of whether purge water from installation of new wells is a non-RCRA hazardous waste will be made at the time that the wastes are generated. Thus, the non-RCRA, state-regulated waste definition requirements, as described above, are applicable for IR Sites 11, 12, and 13 if new groundwater monitoring wells are installed.

14.2.2.2 Soil ARARs

The key threshold question for soil ARARs is whether or not the wastes located at IR Sites 11, 12, and 13 would be classified as hazardous waste. The soil may be classified as a federal hazardous waste as defined by RCRA and the state-authorized program, or as non-RCRA, state-regulated hazardous waste. If the soil is determined to be hazardous waste, the appropriate requirements will apply.

The selected remedies for IR Sites 11, 12, and 13 do not include soil cleanup. However, they do include groundwater monitoring to determine if contaminants are leaching from soil to groundwater. If it is necessary to install new groundwater monitoring wells, then the determination of whether drill cuttings from installation of new wells is a RCRA characteristic hazardous waste or a non-RCRA hazardous waste will be made at the time that the wastes are generated.

14.2.2.2.1 Federal

The federal RCRA requirements at 40 CFR Part 261 do not apply in California because the state RCRA program is authorized. The authorized state RCRA requirements are therefore considered potential federal ARARs (see Section 14.1.3). The applicability of RCRA requirements depends on whether the waste is a RCRA hazardous waste, whether the waste was initially treated, stored, or disposed after the effective date of the particular RCRA requirement, and whether the activity at the site constitutes treatment, storage, or disposal as defined by RCRA. However, RCRA requirements may be relevant and appropriate even if they are not applicable. Examples include activities that are similar to the definition of RCRA treatment, storage, or disposal for waste that is similar to RCRA hazardous waste.

The determination of whether a waste is a RCRA hazardous waste can be made by comparing the site waste to the definition of RCRA hazardous waste. The RCRA requirements at Title 22 CCR Sections 66261.21, 66261.22(a)(1), 66261.23, 66261.24(a)(1), and 66261.100 are potential ARARs because they define RCRA hazardous waste. A waste can meet the definition of hazardous waste if it has the toxicity characteristic of hazardous waste. This determination is made by using the TCLP. The maximum concentrations allowable for the TCLP listed in Section 66261.24(a)(1)(B) are potential federal ARARs for determining whether the site has hazardous waste. If the site waste has concentrations exceeding these values, it is determined to be a characteristic RCRA hazardous waste (see Section 14.1.4.1).

14.2.2.2.2 State

RCRA Requirements. State RCRA requirements included within the U.S. EPA-authorized RCRA program for California are considered to be potential federal ARARs and are discussed above. When state regulations are either broader in scope or more stringent than their federal counterparts, they are considered state ARARs. State requirements such as the non-RCRA, state-regulated hazardous waste requirements may be state ARARs because they are not within the scope of the federal ARARs (57 Federal Register 60848). Title 22 CCR Division 4.5 requirements that are part of the state-approved RCRA program will be state ARARs for non-RCRA, state-regulated hazardous wastes.

The site wastes need to be compared to the definition of non-RCRA, state-regulated hazardous waste. The non-RCRA, state-regulated waste definition requirements at Title 22 CCR Section 66261.24(a)(2) are state ARARs for determining whether other RCRA requirements are state ARARs. This section lists the TTLCs and the STLCs. The site waste may be compared to these thresholds to determine whether it meets the characteristics for a non-RCRA, state-regulated hazardous waste.

The selected remedies for IR Sites 11, 12, and 13 include groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then the determination of whether soil cuttings from installation of new wells is a non-RCRA hazardous waste will be made at the time that the wastes are generated. Thus, the non-RCRA, state-regulated waste definition requirements, as described above, are applicable for IR Sites 11, 12, and 13 if new groundwater monitoring wells are installed.

14.2.2.3 Air ARARs

At IR Sites 11, 12, and 13, particulate matter, carbon monoxide, sulfur dioxide, and nitrogen dioxide are not expected to be released from soil or groundwater.

The selected remedies for IR Sites 11, 12, and 13 include groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then air ARARs limiting fugitive emissions of particulates or fumes from well-drilling operations will be pertinent.

14.2.2.3.1 Federal

Clean Air Act. The Clean Air Act (CAA) establishes NAAQS in 40 CFR Sections 50.4-50.12. NAAQS are not enforceable in and of themselves; they are translated into source-specific emissions limitations by the state (U.S. EPA, 1990). Substantive requirements of the Air Pollution Control District (APCD) rules that have been approved by the U.S. EPA as part of the State Implementation Plan (SIP) under the CAA are federal ARARs for air emissions (CAA Section 110). The SIP includes rules for emissions restrictions for particulates, organic compounds, and hazardous air pollutants, as well as standards of performance for new sources.

14.2.2.3.2 State

There are no state chemical-specific ARARS for air at IR Sites 11, 12, and 13.

14.3 Location-Specific ARARs

Location-specific ARARs are identified and discussed in this section. The discussions are based on various attributes of the site location, such as whether it is within a floodplain.

14.3.1 Summary of Location-Specific ARARs

Floodplain management and coastal resources are the resource categories relating to location-specific requirements affected by remedial actions at IR Sites 11, 12, and 13. The conclusions for ARARs pertaining to these resources are presented in the following sections.

14.3.1.1 Floodplain Management Conclusions

IR Sites 11, 12, and 13 are not located in a 100-year or 500-year floodplain. This information is based on FEMA maps for the area. However, parts of the area are below msl and could be susceptible to flooding during high tides if the surrounding seawall were breached or during heavy precipitation if the storm-water pumping system failed.

14.3.1.2 Coastal Resources Conclusions

Because IR Sites 11, 12, and 13 are within the coastal zone, as determined by the California Coastal Commission, both the Coastal Zone Management Act (16 USC Sections 1451-1464) and the California Coastal Act of 1976 (California Public Resources Code Sections 30000-30900) are relevant and appropriate.

The Coastal Zone Management Act requires that all federal activities that affect the coastal zone be conducted in a manner consistent, to the maximum extent practicable, with approved state management programs. Because IR Sites 11, 12, and 13 are located within the Terminal Island Planning District of the Port of Long Beach, they are subject to the Port Master Plan for the Long Beach Harbor District (Port of Long Beach, 1999). The Port Master Plan permits uses of these sites as “primary port facilities” and other industrial/commercial uses.

Chapter 8 of the California Coastal Act requires that any amendment to the Port Master Plan be approved by the California Coastal Commission. The DON believes that the California Coastal Commission would deny approval on the basis that a non-port-related proposed use, such as a hospital, would not be consistent with the intent of the Act.

The California Coastal Act of 1976 requires that activities associated with development be controlled to minimize significant adverse impacts on coastal waters and to protect state and national interests in California coastal resources. The selected remedies for IR Sites 11, 12, and 13 will be consistent with these requirements because their implementation is consistent with the designation of the former LBNC for port-related and industrial use by the Reuse Plan for LBNC (City of Long Beach 1995). In addition, groundwater monitoring at the sites will assist in maintaining the existing quality of the coastal zone.

14.3.2 Detailed Discussion of ARARs

The following subsections provide a detailed discussion of federal and state ARARs by location-specific resources. Pertinent and substantive provisions of the ARARs listed and described below are ARARs for IR Sites 11, 12, and 13 soil and groundwater ROD. These requirements are identified in Table 14-3 (federal) and Table 14-4 (state) at the end of this section. ARARs determinations are presented in the column denoted by the heading ARAR Determination. Determinations of status for location-specific ARARs were generally based on consultation of maps or lists included in the regulation or prepared by the administering agency. References to the documents or agencies consulted are provided in the Comments column and may be provided as footnotes to the tables. Specific issues concerning some of the requirements are discussed in the following sections.

14.3.2.1 Floodplain Management ARARs

IR Sites 11, 12, and 13 are not located in a 100-year or 500-year floodplain. This information is based on FEMA maps for the area. However, parts of the area around the sites are below msl and could be susceptible to flooding during high tides if the surrounding seawall were breached or during heavy precipitation if the storm-water pumping system failed.

14.3.2.1.1 Federal

Floodplain Management, Executive Order No. 11988. Under 40 CRR Section 6.302(b), federal agencies are required to evaluate the potential effects of action they may take in a floodplain to avoid, to the extent possible, adverse effects associated with direct and indirect development of a floodplain.

According to FEMA maps, IR Sites 11, 12, and 13 are not within a floodplain. Therefore, 40 CFR Section 6.302(b) is not an ARAR for this response action.

14.3.2.1.2 State

There are no state location-specific ARARs for floodplains management for IR Sites 11, 12, and 13.

14.3.2.2 Coastal Resources ARARs

The current use of IR Sites 11, 12, and 13 is port-related and industrial, with no coastal plant communities or wildlife habitat present on the sites. The California Coastal Commission has determined that IR Sites 11, 12, and 13 lie within the coastal zone. Thus, the Coastal Zone Management Act is relevant and appropriate.

14.3.2.2.1 Federal

Coastal Zone Management Act. The Coastal Zone Management Act (CZMA) (16 USC Sections 1451-1464) specifically excludes federal lands from the coastal zone (16 USC Section 1453[1]). Therefore, the CZMA is not applicable to IR Sites 11, 12, and 13. The CZMA will be evaluated as a relevant and appropriate requirement. Section 1456(a)(1)(A) requires each federal agency activity within or outside the coastal zone that affects any land or water use or natural resource to conduct its activities in a manner that is consistent to the maximum extent practicable with enforceable policies of approved state management policies.

Groundwater monitoring at IR Sites 11, 12, and 13 will be conducted in accordance with substantive provisions of the coastal zone management program and will assist in maintaining the existing quality of the coastal zone.

14.3.2.2.2 State

California Coastal Act of 1976. The California Coastal Act is codified at Public Resources Code (Cal. Pub. Res. Code) Sections 30000-30900 and Title 14 CCR Sections 13001-13666.4. These sections regulate activities associated with development to control direct significant impacts on coastal waters and to protect state and national interests in California coastal resources. Because federal lands are specifically excluded from the definition of coastal zone, the California Coastal Act is not applicable to IR Sites 11, 12, and 13, but is evaluated further as a relevant and appropriate requirement. The California Coastal Act policies set forth in the act constitute the standards used by the California Coastal Commission in its coastal development permit decisions and for the review of local coastal programs. These policies contain the following substantive requirements: protection and expansion of public access to the shoreline and recreation opportunities (Cal. Pub. Res. Code Sections 30210-30224); protection, enhancement, and restoration of environmentally sensitive habitats including intertidal and nearshore waters, wetlands, bays and estuaries, riparian habitat, grasslands, streams, lakes, and habitat for rare or endangered plants or animals (Cal. Pub. Res. Code Sections 30230-30240); protection of productive agricultural lands, commercial fisheries, and archaeological resources (Cal. Pub. Res. Code Sections 30234, 30241-30244); protection of the scenic beauty of coastal landscapes (Cal. Pub. Res. Code Section 30251); and provisions for expansion, in an environmentally sound

manner, of existing industrial ports and electricity-generating power plants (Cal. Pub. Res. Code Section 30264).

The substantive provisions of the California Coastal Act of 1976 are relevant and appropriate to IR Sites 11, 12, and 13. The expected outcome of the selected remedies is that the parcel of real property encompassing IR Sites 11, 12, and 13 will remain as part of the Port of Long Beach pursuant to the August 1998 reversion of the property to the City of Long Beach (see Appendix E). Implementation of the selected remedies will be consistent with the substantive provisions of the Act.

14.4 Action-Specific ARARs

This ROD documents the selection of remedial actions for IR Sites 11, 12, and 13 at the former Long Beach Naval Shipyard. This ARARs analysis is based on the selected remedy for the sites: institutional controls and groundwater monitoring for IR Site 11; and institutional controls, groundwater monitoring, and maintenance of existing cover for IR Site 12; and institutional controls and groundwater monitoring at IR Site 13. Institutional controls, in the form of LUCs, are used to protect human health, to maintain port-related and industrial land use at the sites, and to prevent unauthorized disturbance of soil and groundwater. Groundwater monitoring is used to determine whether contaminants left in place at the site are leaching into groundwater and migrating to surface waters at concentrations that exceed the limits specified in the California Ocean Plan (SWRCB, 2001). Groundwater monitoring will be conducted for a few constituents of concern based on previous analytical results. Data will be used in conjunction with previous sampling and modeling results to determine whether the sites have the potential to impact surface water. Maintaining the existing cover over Site 12 provides a protective barrier to minimize exposure to contaminants remaining in shallow soils at the sites. Section 12 of this ROD provides a detailed description of the selected remedy.

Tables 14-5 (federal) and 14-6 (state) at the end of this section present action-specific ARARs for IR Sites 11, 12, and 13. This section presents a discussion of the requirements determined to be pertinent to the selected remedies for IR Sites 11, 12, and 13, and a discussion of how the selected remedies comply with each ARAR.

14.4.1 Institutional Controls

Institutional controls at IR Sites 11, 12, and 13 consist of land use restrictions. Land use restrictions are required at these sites to maintain port-related and industrial land use and prohibit residential and other sensitive uses, to prevent unauthorized disturbance of soil and groundwater, and to preserve access to the sites and associated groundwater monitoring wells and equipment for the DON and the regulatory agencies.

14.4.1.1 Federal ARARs

No federal action-specific ARARs were associated with the institutional controls for IR Sites 11, 12, and 13. The RCRA requirement for closure of land treatment units, implemented under Title 22 CCR Section 66264.280, were considered in determining institutional controls at the closure of IR Sites 11, 12, and 13. This RCRA requirement was neither applicable nor relevant

and appropriate, because IR Sites 11, 12, and 13 are not hazardous waste treatment units. However, because it specifies closure and post-closure care requirements for hazardous waste treatment units, its provisions must be considered.

14.4.1.2 State ARARs

Institutional controls are required to maintain the integrity of the soil and groundwater remedy by preventing excavations or increased infiltration of surface waters; preventing land use that presents unacceptable risk to human health due to residual contamination; preventing use of contaminated groundwater at IR Sites 11, 12, and 13; protecting groundwater monitoring equipment; and preserving access to the sites and associated monitoring equipment for the DON and regulatory agencies.

State statutes that have been accepted by the DON as ARARs for implementing institutional controls and entering into Covenants with DTSC include substantive provisions of the Cal. Civ. Code Section 1471 and HSC Sections 25202.5, 25222.1, 25233, 25234, and 25355.5. DTSC promulgated a regulation on 19 April 2003 regarding “Requirements for Land Use Covenants” at Title 22 CCR Section 67391.1. The substantive provisions of this regulation have been determined to be “relevant and appropriate” state ARARs by the DON.

The substantive provisions of Cal. Civ. Code Section 1471 are the following general narrative standard: “...to do or refrain from doing some act on his or her own land...where...: (c) Each such act relates to the use of land and each such act is reasonably necessary to protect present or future human health or safety or the environment as a result of the presence on the land of hazardous materials, as defined in Section 25260 of the California Health and Safety Code.” These covenants are recorded with the Covenant and run with the land.

The substantive provisions of California HSC Section 25202.5 are the general narrative standard to restrict “present and future uses of all or part of the land on which the ... facility ... is located” These substantive provisions are implemented by incorporation of restrictive environmental covenants in the Covenant for purposes of protecting present and future public health and safety.

California HSC Sections 25222.1 and 25355.5(a)(1)(C) provide the authority for the state to enter into voluntary agreements to establish land-use covenants with the owner of property. The substantive requirements of the following California HSC Section 25222.1 provisions are “relevant and appropriate”: (1) the general narrative standard: “restricting specified uses of the property,...” and (2) “...the agreement is irrevocable, and shall be recorded by the owner, ...as a hazardous waste easement, covenant, restriction or servitude, or any combination thereof, as appropriate, upon the present and future uses of the land.” The substantive requirements of the following California HSC Section 25355.5(a)(1)(C) provisions are “relevant and appropriate”: “...execution and recording of a written instrument that imposes an easement, covenant, restriction, or servitude, or combination thereof, as appropriate, upon the present and future uses of the land.” The substantive provisions of California HSC Sections 25222.1 and 25355.5(a)(1)(C) may be interpreted in a manner that is consistent with the substantive provisions of Cal. Civ. Code Section 1471. DTSC’s Covenant is recorded and runs with the land.

California HSC Section 25233 sets forth “relevant and appropriate” substantive criteria for granting variances from prohibited uses based upon specified environmental and health criteria. California HSC Section 25234 sets forth the following “relevant and appropriate” substantive criteria for the removal of a land-use restriction on the grounds that “...the waste no longer creates a significant existing or potential hazard to present or future public health or safety.”

U.S. EPA does not agree with the DON and DTSC that the sections of the Cal. Civ. Code and California HSC cited above are ARARs because they fail to meet the criteria for ARARs in accordance with U.S. EPA guidance (i.e., they are administrative, not substantive, requirements that establish a discretionary way to implement land-use restrictions). However, U.S. EPA agrees that the substantive provisions of the recently promulgated regulation (Title 22 CCR Section 67391.1) providing for the execution of a land-use covenant between DON and DTSC is a “relevant and appropriate” state ARAR. DTSC’s position is that all of the state statutes and regulations referenced in this section are ARARs.

14.4.2 Groundwater Monitoring

Groundwater monitoring will be used at IR Sites 11, 12, and 13 to determine whether contaminants left in place at the sites are migrating to surface water at concentrations that exceed the limits specified in the California Ocean Plan (SWRCB, 2001). The following sections describe federal and state requirements that pertain to groundwater monitoring for IR Sites 11, 12, and 13.

14.4.2.1 Federal ARARs

Portions of the RCRA groundwater protection standards contained in Title 22 CCR are considered to be relevant and appropriate for the groundwater impacted by releases from IR Sites 11, 12, and 13 because the hazardous constituents being addressed by the action are similar to those found in RCRA hazardous wastes. In addition to concentration limits for groundwater, Title 22 CCR Sections 66264.100(d) and (g)(1) require that in conjunction with the corrective action measures, a water quality monitoring program be established to demonstrate the effectiveness of the corrective action program. Such a monitoring program shall be effective in determining compliance and in determining the success of the corrective action measures.

Postclosure monitoring requirements (Title 22 CCR Sections 66264.117[b][1][A] and [b][2][A]) require that for closed facilities with hazardous waste left in place, groundwater monitoring must continue for a period of time sufficient to protect human health and the environment. However, at Sites 11, 12, and 13, based on the risk assessments conducted during the RI, there is no risk to human health and the environment based on groundwater monitoring and modeling results (BNI, 1997). Therefore, these regulations are not applicable, but may be relevant and appropriate depending on the results obtained during the monitoring program.

Substantive provisions of the following requirements apply to the development and implementation of the corrective action monitoring program:

- Corrective action monitoring requirements (Title 22 CCR Sections 66264.100[d] and [g][1])

- Determining concentration limits (Title 22 CCR Sections 66264.94[a][1] and [3], [c], [d], and [e])
- Determining reasonable constituents of concern (Title 22 CCR Section 66264.93)
- Following general monitoring ARARs (Title 22 CCR Sections 66264.97[b][1][A], [b][1][D][1] and [2], [b][4-7], [e][6], [12][A] and [12][B], [13], and [15])
- Determining POC, if pertinent (Title 22 CCR § 66264.95[a] and [b])
- Determining a compliance period, if necessary (Title 22 CCR Section 66264.96[a]).

The selected remedies for IR Sites 11, 12, and 13 include groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then the drill cuttings and purge water from well installations will be tested.

RCRA requirements for identification and management of solid and hazardous wastes are also potential federal action-specific ARARs identified for IR Sites 11, 12, and 13. Soil cuttings and purge water generated in the course of installing and developing monitoring wells will be subject to RCRA requirements at Title 22 CCR Sections 66262.10(a) and 66262.11 to determine whether such wastes should be classified as hazardous.

The DON has determined that soil and well-development water at IR Sites 11, 12, and 13 will not be classified as RCRA-listed hazardous wastes. However, testing is still required to classify these materials with respect to RCRA hazardous waste characteristics. This determination will be made at the time that the waste is generated. The appropriate requirements outlined in Table 14-5 for storing, manifesting, and transporting this material for final disposal will be followed only in the unlikely event that the soil cuttings and well-development water are found to be classified as RCRA characteristic hazardous waste.

The soil cuttings and well-development water generated under the selected remedies will also be subject to state action-specific requirements to determine if these materials are non-RCRA hazardous waste. Appropriate management requirements of Title 22 CCR Section 66264 will be followed should testing unexpectedly classify these materials as non-RCRA hazardous waste.

Further, if it is necessary to install new groundwater monitoring wells, then, in addition to determining the hazardous status of soil cuttings and purge water from well drilling, as described above, air ARARs limiting fugitive emissions of particulates or fumes from well-drilling operations will be pertinent. State air regulations that are approved in the SIP are considered federal ARARs under the Clean Air Act. They include APCD Rules 50(d)(1), 52, 54, and 58, which deal with discharges to the atmosphere of fumes, dust, and other particulate matter.

Finally, transportation of any soil cuttings or purge water that is determined to be hazardous will be subject to DOT regulations for the transport of hazardous material. These regulations include

the substantive provisions of 49 CFR Sections 171.2(f), 171.2(g), 172.300, 172.301, 172.303, 172.304, 172.312, and 172.400. These regulations, which regulate marking, labeling, placarding, and transportation of hazardous materials, are considered to be relevant and appropriate.

14.4.2.2 State ARARs

The substantive provisions of requirements for detection monitoring at Title 22 CCR Section 66264.98 are determined to be federal relevant and appropriate ARARs for this remedial action. The equivalent state requirements at Title 23 CCR Section 2550.8 and Title 27 CCR Section 20420 are not more stringent than the federal ARARs and are, therefore, not ARARs for these remedies. The State asserts that the provisions of Title 23 and Title 27 California Code of Regulations contained in Table 14-6 are “applicable” not “relevant and appropriate” and, therefore, does not agree with the classification of Title 23 and 27 as “relevant and appropriate” as set forth in the Table. The State, however, does agree with the substantive remedy and, therefore, will not dispute the ROD/RAP.

The prescriptive sampling requirements found at Title 23 CCR Section 2550.7(e) are more stringent than the corresponding federal requirements found at Title 22. The DON accepts the substantive provisions of the more prescriptive requirements at Title 23 as ARARs.

The substantive provisions of the California Water Code and the Comprehensive Water Quality Control Plan for the Los Angeles Basin for actions affecting water quality are also accepted as ARARs, along with Regional Board resolutions. Substantive provisions of the California Water Code and SWRCB resolutions for discharges to open waters are not applicable, but will be considered because contaminants will be left in place at IR Sites 11, 12, and 13, and a corrective action groundwater-monitoring program will be used to document any contaminant migration. Substantive provisions of 23 CCR Sections 2510(g), 2550.7(e), and 2550.9 dealing with monitoring of waste management units are not applicable, but are relevant and appropriate because contaminants will be left in place at IR Sites 11, 12, and 13.

14.4.3 Maintenance of a Protective Cover

Prescriptive landfill capping and post-closure care requirements are contained in four nearly identical sets of regulations: 40 CFR Section 258; and CCR Titles 22, 23, and 27. These regulations pertain to active landfills.

Under Title 22 CCR Section 66264.310(a)(7), a variance is allowed from any of the prescriptive cap requirements as long as it is demonstrated that the prescriptive cap is not necessary to protect public health, water quality, or other environmental quality.

Under Title 27 CCR Section 20080(b) and Title 23 CCR Section 2510(b), engineered alternatives to the prescriptive landfill cover are allowed when the discharger can demonstrate that the construction or prescriptive standard is not feasible and there is a specific engineered alternative. The specific engineered alternative must be consistent with the performance goal addressed by the particular construction or prescriptive standard and must afford equivalent protection against water quality impairment. Under Title 27 CCR Section 20080(c) and Title 23 CCR Section 2510(c), to demonstrate that compliance with prescriptive standards is not feasible, the dis-

charger shall demonstrate that compliance with a prescriptive standard either: (1) is unreasonably and unnecessarily burdensome and will cost substantially more than engineered alternatives; or (2) is impractical and will not promote attainment of applicable performance standards considering all relevant technical and economic factors. These factors include present and projected costs of compliance, costs for response action in the event that waste or leachate is released to the environment, and the extent to which groundwater resources could be affected.

Under Title 27 CCR Section 21090, the RWQCB can allow any alternative final cover that it finds will continue to isolate the waste and infiltration at least as well as would a final cover build in accordance with applicable prescriptive standards.

Because IR Site 12 is not a landfill, and because no RCRA hazardous wastes have been identified at IR Site 12, regulations addressing landfill capping requirements are not applicable to this site. Therefore the DON reviewed them to determine which, if any, of the regulations were relevant and appropriate.

Because 40 CFR Section 28 and CCR Titles 22, 23, and 27 contain overlapping requirements, Tables 14-5 (federal) and 14-6 (state) at the end of this section identify only the most stringent or controlling ARARs. When federal and state regulations were considered to be equally stringent, federal regulations were selected as controlling ARARs. Federal and state requirements for landfill closure are the primary sources of ARARs for this action.

14.4.3.1 Federal ARARs

14.4.3.1.1 RCRA

IR Site 12 is not a hazardous waste landfill. There is no record of hazardous waste disposal at the sites. However, because some of the wastes at the sites may contain RCRA constituents, certain provisions of RCRA may be relevant and appropriate.

A portion of the RCRA requirements for post-closure care of landfills contained in Title 22 CCR is considered to be relevant and appropriate for maintenance of the protective cover over IR Site 12. Title 22 CCR Section 66264.117(b)(1) and (2) require post-closure care for approximately 30 years, based on protectiveness to human health and the environment. Title 22 CCR Section 66264.310(b)(1) requires that the effectiveness of the cover be maintained, including making repairs to the cover as necessary to correct the effects of settling, subsidence, erosion, and other events throughout the 30-year post-closure period. Title 22 CCR Section 310(b)(4) requires erosion control to prevent runoff from eroding or otherwise damaging the cover throughout the post-closure period.

14.4.3.1.2 Criteria for Municipal Waste Landfills, 40 CFR Section 258

Landfill closure requirements for municipal waste landfills are set forth in 40 CFR Section 258, Subpart F. Because IR Site 12 is not a landfill, these requirements are not applicable. However, the substantive portions of the requirements dealing with landfill cover are relevant and appropriate.

40 CFR Section 258.61 requires post-closure maintenance for 30 years unless it can be demonstrated that a shorter or longer period of maintenance is required. If it can be demonstrated that the site poses no threat to public health and safety or to the environment, the post-closure maintenance period may be eliminated.

14.4.3.2 State ARARs

State requirements that are ARARs for capping/cover actions include portions of Title 27 CCR that address post closure maintenance of landfill covers. The portions of Title 27 CCR Division 2 (Solid Waste) that address post closure maintenance of landfill covers are relevant and appropriate for IR Site 12. Title 27 CCR Section 20950(a) requires that the cover be maintained as long as the wastes pose a threat to water quality. Title 27 CCR Section 21090(c)(1) requires that the structural integrity and effectiveness of the cover be maintained as necessary to correct the effects of settlement or other adverse factors. Title 27 CCR Section 21180(a) requires that the cover be maintained for at least 30 years after closure.

Table 14-1. Federal Chemical-Specific^(a) ARARs by Medium

Requirement	Prerequisite	Citation ^(b)	ARAR Determination	Comments
GROUNDWATER				
Resource Conservation and Recovery Act (42 USC Chapter 82, Section 6901-6991[I])^(c)				
Definition of RCRA hazardous waste	Waste	22 CCR Sections 66261.21, 66261.22(a)(1), 66261.23, 66261.24(a)(1), and 66261.100	Applicable	Applicable for determining whether waste is hazardous. The selected remedies for IR Sites 11, 12, and 13 include groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then the determination of whether drill cuttings or purge water from installation of new wells is hazardous will be made at the time the wastes are generated.
Characterization of a solid waste as toxic based on the toxic characteristic leaching procedure (TCLP), if the waste exceeds the TCLP maximum concentrations	Waste	40 CFR Section 261.24(a) 22 CCR Section 66261.24(a)(1)(B)	Applicable	Applicable for determining whether waste is hazardous. The selected remedies for IR Sites 11, 12, and 13 include groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then the determination of whether drill cuttings or purge water from installation of new wells is characterized as toxic will be made at the time the wastes are generated.
SOIL				
Resource Conservation and Recovery Act (42 USC Chapter 82, Section 6901-6991[I])^(c)				
Definition of RCRA hazardous waste	Waste	22 CCR Sections 66261.21, 66261.22(a)(1), 66261.23, and 66261.100	Applicable	Applicable for determining whether waste is hazardous. The selected remedies for IR Sites 11, 12, and 13 include groundwater. If it is necessary to install new groundwater monitoring wells, then the determination of whether drill cuttings or purge water from installation of new wells is hazardous will be made at the time the wastes are generated.
Characterization of a solid waste as toxic based on the toxic characteristic leaching procedure (TCLP), if the waste exceeds the TCLP maximum concentrations	Waste	40 CFR Section 261.24(a) 22 CCR Section 66261.24(a)(1)(B)	Applicable	Applicable for determining whether waste is hazardous. The selected remedies for IR Sites 11, 12, and 13 include groundwater. If it is necessary to install new groundwater monitoring wells, then the determination of whether drill cuttings or purge water from installation of new wells is characterized as toxic will be made at the time the wastes are generated.

(a) Many action-specific ARARs contain chemical-specific limitations and are addressed in the action-specific ARARs tables.

(b) Only the substantive provisions of the requirements cited in this table are ARARs.

(c) Statutes and regulations and their citations are provided as headings to identify general categories of ARARs. Listing a statute or regulation does not indicate that the DON accepts the entire statute or regulation as an ARAR. Specific ARARs are addressed in the table below each general heading. Only substantive requirements of specific citations are considered ARARs.

Table 14-2. State Chemical-Specific ARARs^(a) by Medium

Requirement	Prerequisite	Citation ^(b)	ARAR Determination	Comments
GROUNDWATER AND SOIL				
Department of Toxic Substances Control^(c)				
Definition of a “non-RCRA hazardous waste”	Waste	22 CCR Sections 66261.22(a)(3) and (4), 66261.24(a)(2)-(a)(8), 66261.101, 66261.3(a)(2)(C), or 66261.3(a)(2)(F)	Applicable	Applicable for determining whether a waste is a non-RCRA hazardous waste. The selected remedies for IR Sites 11, 12, and 13 include groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then the determination of whether drill cuttings or purge water from installation of new wells is a non-RCRA hazardous waste will be made at the time the wastes are generated.

(a) Many action-specific ARARs contain chemical-specific limitations and are addressed in the action-specific ARARs tables.

(b) Only the substantive provisions of the requirements sited in this table are ARARs.

(c) Statutes and regulations and their citations are provided as headings to identify general categories of ARARs. Listing a statute or regulation does not indicate that the DON accepts the entire statute or regulation as an ARAR. Specific ARARs are addressed in the table below each general heading. Only substantive requirements of specific citations are considered ARARs.

Table 14-3. Federal Location-Specific ARARs

Location	Requirement	Prerequisite	Citation ^(a)	ARAR Determination	Comments
Executive Order No. 11988, Floodplain Management^(b)					
Coastal Zone Management Act, 16 USC Sections 1451-1464^(b)					
Within coastal zone	Requires conduct of activities in a manner consistent with approved state management programs	Activities affecting the coastal zone, including lands within the coastal zone and adjacent shore lands	16 USC Section 1456a(1)A	Relevant and appropriate	IR Sites 11, 12, and 13 are within the coastal zone, as determined by the California Coastal Commission.

(a) Only the substantive provisions of the requirements cited in this table are ARARs.

(b) Statutes and regulations and their citations are provided as headings to identify general categories of ARARs. Listing a statute or regulation does not indicate that the DON accepts the entire statute or regulation as an ARAR. Specific ARARs are addressed in the table below each general heading. Only substantive requirements of specific citations are considered ARARs.

Table 14-4. State Location-Specific ARARs

Location	Requirement	Prerequisite	Citation ^(a)	ARAR Determination	Comments
California Coastal Act of 1976^(b)					
Coastal zone	Regulates activities associated with development to control direct, significant impacts on coastal waters and to protect state and national interests in California coastal resources	Any activity that could impact coastal waters and resources	California Public Resources Code Sections 30000-30900. 14 CCR Sections 13001-13666.4	Relevant and appropriate	IR Sites 11, 12, and 13 are within the coastal zone, as determined by the California Coastal Commission.

(a) Only the substantive provisions of the requirements cited in this table are ARARs.

(b) Statutes and regulations and their citations are provided as headings to identify general categories of ARARs. Listing a statute or regulation does not indicate that the DON accepts the entire statute or regulation as an ARAR. Specific ARARs are addressed in the table below each general heading. Only substantive requirements of specific citations are considered ARARs.

Table 14-5. Federal Action-Specific ARARs

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
Resource Conservation and Recovery Act (42 USC Sections 6901-6991[I])^(a)					
Corrective action	The owner or operator required to take corrective action under Title 22 CCR § 66264.91 shall take corrective action to remediate releases from the regulated unit and to ensure that the regulated unit achieves compliance with the water quality protection standard.	Hazardous waste treatment, storage, or disposal facility.	22 CCR Section 66264.100(b)	Relevant and appropriate	Certain analytes at Sites 11, 12, and 13 have been reported in groundwater beneath the site at concentrations exceeding the California Ocean Plan criteria. Because modeling results have shown that these chemicals are unlikely to migrate to surface waters at concentrations above the regulatory criteria, these regulations are not applicable. However, because the potential exists, groundwater at these sites has been recommended for inclusion in a corrective action program to verify that these analytes do not negatively impact the water quality of the surface waters.
Monitoring	Requires monitoring for ground-water, surface water, and the vadose zone	Hazardous waste treatment, storage, or disposal facility	22 CCR Sections 66264.97[b][1][A], [b][1][D][1] and [2], [b][4-7], [e][6], [12][A] and [12][B], [13], and [15]	Relevant and appropriate	Essentially the same as state requirements at Title 23 CCR Section 2550.7 and Title 27 CCR Section 20415. May be relevant and appropriate for monitoring.
Point of compliance	The POC is a vertical surface, located at the hydraulically downgradient limit of the waste management area that extends through the uppermost aquifer underlying the regulated unit.	Hazardous waste treatment, storage, or disposal facility.	22 CCR Sections 66264.95(a) and (b)	Relevant and appropriate	Essentially the same as state requirements at Title 23 CCR Section 2550.5 and Title 27 CCR Section 20405. If waste is to be left in place and the feasibility of cleaning up the entire plume has not been demonstrated, an alternative including the POC must be included. The substantive provisions of the POC regulations are ARARs when cleanup of the entire plume is not necessary or not feasible.
Monitoring	Requires that the owner or operator implement a water quality monitoring program to demonstrate the effectiveness of the remedy and be effective in determining compliance with water quality protection standards and the success of the remedy	Hazardous waste treatment, storage, or disposal facility	22 CCR Sections 66264.100[d] and [g][1]	Relevant and appropriate	Subparagraph (d) specifies monitoring for the effectiveness of corrective action measures. Essentially the same as Title 23 CCR Section 2550.10(d) and Title 23 CCR Section 20430(d).
Completion of response action	The corrective action program is complete when compliance with the water quality standard is demonstrated based on the results of sampling and analysis for all constituents of concern for a period of 1 year.	Hazardous waste treatment, storage, or disposal facility.	22 CCR Section 66264.100(g)(1)	Relevant and appropriate	Proposed groundwater sampling at IR Sites 11, 12, and 13 will supplement the existing data and modeling results. Depending the results, one year may be sufficient to determine that contaminants from IR Sites 11, 12, and 13 are not migrating to surface waters at concentrations that would impact the water quality.

Table 14-5. Federal Action-Specific ARARs (continued – 2)

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
Post-closure care period	Requirement to begin post-closure care after completion of closure and continue for approximately 30 years, based on protectiveness to human health and the environment	Hazardous waste landfill	22 CCR Sections 66264.117(b)(1) and (2)	Relevant and appropriate	Relevant and appropriate because some of the wastes at IR Site 12 may contain RCRA constituents. The selected remedy for IR Site 12 includes maintaining the integrity of the existing cover over the site for a period of at least 30 years.
Post-closure care	Requirement to maintain the integrity and effectiveness of the final cover, including making repairs to the cap as necessary to correct the effects of settling, subsidence, erosion, or other event throughout the post-closure period	Hazardous waste landfill	22 CCR Section 66264.301(b)(1)	Relevant and appropriate	Relevant and appropriate because some of the wastes at IR Site 12 may contain RCRA constituents. The selected remedy for IR Site 12 includes maintaining the integrity of the existing cover over the site for a period of at least 30 years.
Erosion control	Requirement to prevent run-on and runoff from eroding or otherwise damaging the final cover throughout the post-closure period	Hazardous waste landfill	22 CCR Section 66264.310(b)(4)	Relevant and appropriate	Relevant and appropriate because some of the wastes at IR Site 12 may contain RCRA constituents. The selected remedy for IR Site 12 includes maintaining the integrity of the existing cover over the site for a period of at least 30 years.
On-site waste generation	Requirement to determine if a generated waste is a hazardous waste	Generator of waste	22 CCR Sections 66262.10(a) and 66262.11	Applicable	Applicable for any operation where hazardous waste is generated. The selected remedies for IR Sites 11, 12, and 13 include groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then the determination of whether drill cuttings or purge water from installation of new wells is hazardous will be made at the time the wastes are generated.
Hazardous waste accumulation	Allows on-site hazardous waste accumulation for up to 90 days as long as the waste is stored in containers or tanks, on drip pads, inside buildings; is labeled and dated; etc.	Accumulate hazardous waste	22 CCR Section 66262.34	Applicable	Applicable if drill cuttings or purge water from installation of new groundwater monitoring wells is determined to be hazardous waste. The selected remedies for IR Sites 11, 12, and 13 includes groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then the determination of whether drill cuttings or purge water from installation of new wells are hazardous will be made at the time the wastes are generated.

Table 14-5. Federal Action-Specific ARARs (continued – 3)

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
Criteria for Municipal Waste Landfills (40 CFR Section 258)					
Post-closure care period	Requirement that post-closure care be conducted for approximately 30 years, based on protection of human health and the environment	Hazardous waste landfill	40 CFR Sections 258.61(a) and (b)	Relevant and appropriate	Relevant and appropriate because some of the wastes at IR Site 12 may contain RCRA constituents. The selected remedy for IR Sites 12 includes maintaining the integrity of the existing cover over the sites for a period of at least 30 years.
Post-closure care	Requirement that the structural integrity and effectiveness of any final cover be maintained, including making repairs to the cover as necessary to correct the effects of settlement, subsidence, erosion, or other events, and preventing run-on and runoff from eroding or otherwise damaging the final cover during the post-closure care period	Hazardous waste landfill	40 CFR Section 258.61(a)(1)	Relevant and appropriate	Relevant and appropriate because some of the wastes at IR Site 12 may contain RCRA constituents. The selected remedy for IR Site 12 includes maintaining the integrity of the existing cover over the sites for a period of at least 30 years.

Table 14-5. Federal Action-Specific ARARs (continued – 4)

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
Clean Air Act (42 USC Section 7401-7671)^(a)					
Discharge to air	Restricts discharge from any single source of emissions any air contaminant for more than 3 minutes in any 60-minute period which is darker than number 1 on the Ringlemann chart	Discharge of air contaminant other than uncombined water vapor	APCD Rule 50(d)(1)	Applicable	Applicable to emissions from well-drilling operations. The selected remedies for IR Sites 11, 12, and 13 include groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then the Rule will be applicable.
Discharge of particulate matter	Restricts discharge to the atmosphere of particulate matter from any source in excess of 0.1 grain per dry standard cubic foot (0.231 grams per dry standard cubic meter) of gas (except stationary internal combustion engines, sulfur recovery plants, burning of carbon-containing material or sources of fumes and dust under Air Pollution Control District [APCD] Rule 54).	Discharge of particulate matter into atmosphere	APCD Rule 52	Applicable	Applicable to emissions from well-drilling operations. The selected remedies for IR Sites 11, 12, and 13 include groundwater. If it is necessary to install new groundwater monitoring wells, then the Rule will be applicable.
Discharge of dust and fumes	Restricts discharge to the atmosphere of dust or fumes, including lead or lead compounds, in any one hour at amounts in excess of standards	Any source of dust or fumes, including lead and lead compounds	APCD Rule 54	Applicable	Applicable to emissions from well-drilling operations. The selected remedies for IR Sites 11, 12, and 13 include groundwater. If it is necessary to install new groundwater monitoring wells, then the Rule will be applicable.
Discharge to atmosphere	Restricts discharge to the atmosphere from an article, machine, equipment, or other contrivance air contaminants having a concentration of nitrogen oxides, calculated as nitrogen dioxide, at 3% oxygen on a dry basis in excess of 125 ppm for gas and 225 ppm for liquid or solid	Any non-vehicular, fuel-burning article, machine, equipment, or other contrivance, having a maximum heat input rating of 50 million BTU per hour	APCD Rule 58	Applicable	Applicable to emissions from well-drilling operations. The selected remedies for IR Sites 11, 12, and 13 includes groundwater monitoring. If it is necessary to install new groundwater monitoring wells, then the Rule will be applicable.

Table 14-5. Federal Action-Specific ARARs (continued – 5)

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
Federal Hazardous Materials Transportation Law (49 USC Sections 5101-5127)^(a)					
Hazardous materials transportation	Restricts representation of containers and packages as safe to those that meet requirements of 49 USC 5101-5127	Interstate carriers transporting hazardous waste and substances by motor vehicle. Transportation of hazardous material under contract with any department of the executive branch of the federal government	49 CFR Section 171.2(f)	Relevant and appropriate	May apply to transportation of drill cuttings and purge water from the installation of groundwater monitoring wells, if these materials are determined to be hazardous waste.
Hazardous materials transportation	Restricts unlawfully altering or defacing labels, placards or descriptions, packages, containers, or motor vehicles used for transportation of hazardous materials	Interstate carriers transporting hazardous waste and substances by motor vehicle. Transportation of hazardous material under contract with any department of the executive branch of the federal government	49 CFR Section 171.2(g)	Relevant and appropriate	May apply to transportation of drill cuttings and purge water from the installation of groundwater monitoring wells, if these materials are determined to be hazardous waste.
Hazardous materials marking, labeling, and placarding	Requires offerors of hazardous material for transportation or carriers of hazardous materials to mark each package, container, and vehicle in the required manner	Offeror of hazardous material for transportation; carriers of hazardous materials; packager, labeler, or placarder of hazardous material	49 CFR Section 172.300	Relevant and appropriate	May apply to transportation of drill cuttings and purge water from the installation of groundwater monitoring wells, if these materials are determined to be hazardous waste.
Hazardous materials marking, labeling, and placarding	Requires the offeror of non-bulk hazardous materials for transportation to mark the proper shipping name and identification number (technical name) and consignee's name and address	Offeror of hazardous material for transportation; carriers of hazardous materials; packager, labeler, or placarder of hazardous material	49 CFR Section 172.301	Relevant and appropriate	May apply to transportation of drill cuttings and purge water from the installation of groundwater monitoring wells, if these materials are determined to be hazardous waste.

Table 14-5. Federal Action-Specific ARARs (continued – 6)

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
Hazardous materials marking, labeling, and placarding	Requires packages containing hazardous material or its residue to be offered for transport or transported to be marked with a proper shipping name or identification number	Offeror of hazardous material for transportation; carriers of hazardous materials; packager, labeler, or placarder of hazardous material	49 CFR Section 172.303	Relevant and appropriate	May apply to transportation of drill cuttings and purge water from the installation of groundwater monitoring wells, if these materials are determined to be hazardous waste.
Hazardous materials marking, labeling, and placarding	Requires markings to be durable, in English, in contrasting colors, unobscured, and away from other markings	Offeror of hazardous material for transportation; carriers of hazardous materials; packager, labeler, or placarder of hazardous material	49 CFR Section 172.304	Relevant and appropriate	May apply to transportation of drill cuttings and purge water from the installation of groundwater monitoring wells, if these materials are determined to be hazardous waste.
Hazardous materials marking, labeling, and placarding	Requires non-bulk combination packages containing liquid hazardous materials to be packed with closures upward, and marked with arrows pointing upward	Offeror of hazardous material for transportation; carriers of hazardous materials; packager, labeler, or placarder of hazardous material	49 CFR Section 172.312	Relevant and appropriate	May apply to transportation of drill cuttings and purge water from the installation of groundwater monitoring wells, if these materials are determined to be hazardous waste.
Hazardous materials marking, labeling, and placarding	Requires labeling of hazardous material packages as specified in the list	Offeror of hazardous material for transportation; carriers of hazardous materials; packager, labeler, or placarder of hazardous material	49 CFR Section 172.400	Relevant and appropriate	May apply to transportation of drill cuttings and purge water from the installation of groundwater monitoring wells, if these materials are determined to be hazardous waste.

(a) Statutes and regulations and their citations are provided as headings to identify general categories of ARARs. Listing a statute or regulation does not indicate that the DON accepts the entire statute or regulation as an ARAR. Specific ARARs are addressed in the table below each general heading. Only substantive requirements of specific citations are considered ARARs.

Table 14-6. State Action-Specific ARARs

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
EPA Department of Toxic Substances Control					
Land use Covenants	A land use covenant imposing appropriate limitations on land use shall be executed and recorded when facility closure, corrective action, remedial or removal action, or other response actions are undertaken and hazardous materials, hazardous wastes or constituents, or hazardous substances will remain at the property at levels which are not suitable for unrestricted use of the land.	Transfer of property by federal government to non-federal entity.	22 CCR Section 67391.1	Relevant and appropriate	The substantive provisions provides for a land-use covenant to be executed and recorded when remedial actions are taken and hazardous substances will remain at the property at concentrations that are unsuitable for unrestricted use of the land.
Solid Waste					
Post-closure care period	Requirement that post-closure maintenance extend as long as the wastes pose a threat to water quality.	Solid waste landfill	27 CCR Section 20950(a)	Relevant and appropriate	Relevant and appropriate because contaminants will be left in place at IR Sites 12 and 13. The selected remedy for IR Sites 12 and 13 includes groundwater monitoring to determine any threats to surface water. In addition, the selected remedy will maintain the integrity of the existing cover over the sites for a period of at least 30 years.
Post-closure care period	Requirement that landfill be maintained and monitored for a period of not less than 30 years after completion of closure of the entire landfill	Solid waste landfill	27 CCR Section 21180(a)	Relevant and appropriate	Relevant and appropriate because contaminants will be left in place at IR Sites 12 and 13. The selected remedy for IR Site 12 includes maintaining the integrity of the existing cover over the sites for a period of at least 30 years.
Post-closure care	Requirement to maintain the structural integrity and effectiveness of all containment structures and to maintain the final cover as necessary to correct the effects of settlement or other adverse factors	Solid waste landfill	27 CCR Section 21090(c)(1)	Relevant and appropriate	Relevant and appropriate because contaminants will be left in place at IR Sites 12 and 13. The selected remedy for IR Site 12 includes maintaining the integrity of the existing cover over the sites for a period of at least 30 years.

Table 14-6. State Action-Specific ARARs (continued – 2)

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
California Civil Code					
Land use controls	Provides conditions under which land-use restrictions will apply to successive owners of land	Transfer of property from the DON to a non-federal agency	California Civil Code Section 1471	Applicable	The substantive provisions are the following general narrative standard: "...to do or refrain from doing some act on his or her own land...where...(c) Each such act relates to the use of land and each such act is reasonably necessary to protect present or future human health or safety or the environment as a result of the presence on the land of hazardous materials, as defined in Section 25260 of the Health and Safety Code." DTSC has the authority to enter into voluntary agreements with land owners to restrict the use of property. These agreements run with the land, restricting present and future uses. This narrative standard is implemented through incorporation of restrictive environmental covenants recorded with DTSC's Covenant which runs with the land.

Table 14-6. State Action-Specific ARARs (continued – 3)

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
California Health and Safety Code (HSC)					
Land use controls	Allows DTSC to enter into an agreement with the owner of a hazardous waste facility to restrict present and future land uses	Transfer of property from the DON to a non-federal agency	California HSC Section 25202.5	Relevant and appropriate	The substantive provisions are the general narrative standard to restrict “present and future uses of all or part of the land on which the ...facility...is located....”
Land use controls	Provides a streamlined process to be used to enter into an agreement to restrict specific use of property.	Transfer of property from the DON to a non-federal agency	California HSC Sections 25222.1 and 25355.5(a)(1)(C)	Relevant and appropriate	California HSC Sections 25222.1 and 25355.5(a)(1)(C) provide the authority for the DTSC to enter into voluntary agreements with land owners to restrict the use of property. The agreements run with the land restricting present and future uses of the land. The substantive requirements of the following California HSC Section 25222.1 provisions are “relevant and appropriate”: (1) the general narrative standard: “restricting specified uses of the property...” and (2) “...the agreement is irrevocable, and shall be recorded by the owner, ...as a hazardous waste easement, covenant, restriction or servitude, or any combination thereof, as appropriate, upon the present and future uses of the land.” The substantive requirements of the following California HSC Section 25355.5(a)(1)(C) provisions are “relevant and appropriate”: “...execution and recording of a written instrument that imposes an easement, covenant, restriction, or servitude, or combination thereof, as appropriate, upon the present and future uses of the land.”
Land use controls	Provides processes and criteria for obtaining written variances from a land-use restriction and for removal of the land use restrictions.	Transfer property from the DON to a non-federal agency.	California HSC Sections 25233 and 25234	Relevant and appropriate	California HSC Section 25233 sets forth “relevant and appropriate” substantive criteria for granting variances based upon specified environmental and health criteria. California HSC Section 25234 sets forth the following “relevant and appropriate” substantive criteria for the removal of a land-use restriction on the grounds that “...the waste no longer creates a significant existing or potential hazard to present or future public health or safety.”

Table 14-6. State Action-Specific ARARs (continued – 4)

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
State Water Resources Control Board (SWRCB) and Regional Water Quality Control Board (RWQCB)^(a)					
Actions affecting water quality	<p>Authorizes the SWRCB and RWQCB to establish in Water Quality Control Plan beneficial uses and numerical and narrative standards to protect both surface water and groundwater quality.</p> <p>Authorizes regional water boards to issue permits for discharges to land or surface water or groundwater that could affect water quality, including NPDES permits, and to take enforcement action to protect water quality</p>	None	California Water Code, Division 7, Sections 13241, 13243, 13263(a), 13269, and 13360 (Porter-Cologne Water Quality Control Act)	Applicable	Substantive provisions of Sections 13241, 13243, 13263(a), 13269, and 13360, as implemented through the beneficial uses, water quality objectives, and waste discharge requirements of the Water Quality Control Plan for the Los Angeles Basin are ARARs. They include substantive requirements contained in permits, but not the permits themselves.
Actions affecting water quality	Describes the water basins in the Los Angeles region, establishes beneficial uses of surface water and groundwater, establishes water quality objectives, including narrative and numerical standards, establishes implementation plans to meet water quality objectives and protect beneficial uses, and incorporates statewide water quality control plans and policies		Water Code Section 13240, Comprehensive Water Quality Control Plan for the Los Angeles Basin.	Applicable	Protection of the uses specified in the Comprehensive Water Quality Control Plan for the Los Angeles Basin is a performance standard for all remedial actions at the former Long Beach Naval Complex (LBNC).

Table 14-6. State Action-Specific ARARs (continued – 5)

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
Actions affecting water quality	<p>Modifies the regulatory provisions of the Water Quality Control Plan for the Los Angeles Region.</p> <p>Removes the beneficial use designation from the aquifers underlying Terminal Island.</p>		Regional Board Resolution 98-18	Applicable	SWRCB Resolution 88-63 (“Sources of Drinking Water” policy) designated all waters of the state to be suitable or potentially suitable as sources of drinking water, except water with existing high dissolved solids, water with low sustainable yield, and water with contamination that cannot be treated for domestic use using best management practices or best economically achievable treatment practices.
Monitoring	Describes policy for protection of ocean water quality. Includes beneficial use designations, water quality objectives, general requirements, compliance criteria, and discharge prohibitions. Requires all discharges to the ocean to comply with criteria set forth in the California Ocean Plan.	<p>Applicable to point source discharges to the ocean and non-point sources of waste discharge.</p> <p>Provides water quality objectives for receiving waters. Does not apply to discharges to enclosed bays and estuaries.</p>	SWRCB Resolution 2000-108, California Ocean Plan (16 November 2001)	Applicable	Sets contaminant levels to be used for monitoring purposes.

Table 14-6. State Action-Specific ARARs (continued – 6)

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
State Water Resources Control Board^(a)					
Monitoring	May require detection monitoring program at closed, inactive, or abandoned sites before the effective date of this requirement Requires Chapter 15, Article 5 monitoring	Waste management unit Site closed, inactive, or abandoned before 27 November 1984	23 CCR Section 2510(g)	Relevant and appropriate	Essentially the same as 27 CCR Section 20080(g). Applies to land at which all discharges had ceased as of 27 November 1984. Relevant and appropriate to IR Sites 11, 12, and 13 because contaminants will be left in place at the sites.
Waste discharge	Requires wastes removed from the immediate area of release to be discharged in accordance with the classification and siting requirements of Chapter 15. Requires wastes contained or left in place to comply with Chapter 15 to the extent feasible	Waste management unit	23 CCR Section 2511(d)	Relevant and appropriate	Relevant and appropriate to IR Sites 11, 12, and 13 because contaminants will be left in place at the sites.
Monitoring	Requires general soil, surface water, and groundwater monitoring	Waste management unit	23 CCR Section 2550.7(e)	Relevant and appropriate	More prescriptive sampling requirements than those found in the 22 CCR Section 2550.7(e). Applies to all areas where waste has been discharged to land. Relevant and appropriate to IR Sites 11, 12, and 13 because contaminants will be left in place at the sites.
Evaluation monitoring	Evaluation monitoring program	Waste management unit Applicable only to waste discharges to land after 27 November 1984	23 CCR Section 2550.9	Relevant and appropriate	Essentially the same as 22 CCR Section 66264.99 and 27 CCR Section 20425. Relevant and appropriate to IR Sites 11, 12, and 13 because contaminants will be left in place at the sites.

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15.0: DOCUMENTATION OF SIGNIFICANT CHANGES

The Proposed Plan for IR Site 11 was released for public comment in January 2002. It identified Alternative 2, institutional controls and groundwater monitoring, as the preferred remedy for IR Site 11. The Proposed Plan for IR Sites 12 and 13 was released for public comment in July 2004. It identified Groundwater Alternative 2, groundwater monitoring and institutional controls, as the preferred remedy for IR Sites 12 and 13 groundwater; Soil Alternative 2, institutional controls, as the preferred remedy for IR Site 13 soils; and Soil Alternative 3, maintenance of the existing cap and institutional controls, as the preferred remedy for IR Site 12 soils.

The DON reviewed all written and verbal comments submitted during the comment periods. Taking into consideration all public comments on the Proposed Plans, the DON determined that no changes to the preferred remedies, as originally identified in the Proposed Plans, were needed or appropriate.

16.0: THE RESPONSIVENESS SUMMARY

This section sets forth information about the community's preferences about the remediation alternatives as well as the community's general concerns about IR Sites 11, 12, and 13.

16.1 Overview and Background on Community Involvement

The Proposed Plan for IR Site 11 was made available to the public on January 16, 2002, thereby initiating the 30-day public comment period for this site. The Proposed Plan for IR Sites 12 and 13 was made available to the public on July 6, 2004, thereby initiating the 30-day public comment period for these sites.

The public meeting for the Proposed Plan for IR Site 11 was held on January 23, 2002 in the Port of Long Beach Training Room, 925 Harbor Plaza, Long Beach, CA. The public meeting for the Proposed Plan for IR Sites 12 and 13 was held on July 21, 2004 at the Long Beach Airport, 3250 Airflite Way, Long Beach, CA.

The public comment period for IR Site 11 ran from January 16, 2002 through February 15, 2002. The public comment period for IR Sites 12 and 13 ran from July 6, 2004 through August 6, 2004. Copies of the newspaper notices of the public comment periods and the locations and times of the public meetings for IR Sites 11, 12, and 13 are included in Appendix C. Transcripts of the public meetings and attendance rosters are also included in Appendix C.

The purpose of the Proposed Plans (Battelle, 2002 and 2004) and the public meetings was to provide the public with a concise summary of all of the remedial alternatives, including the preferred alternatives for the sites. In addition to the summaries, the Proposed Plans provided comment forms, information on the location of the administrative records (an alternative source of project documentation available to the public), and technical and regulatory contacts. An index of the administrative record file is included as Appendix B.

16.2 Stakeholder Issues and DON Responses

Comments on IR Site 11 were received from six members of the public. These comments, and the DON's responses, are included in Appendix C, and are summarized below.

Three of the public commenters were members of the RAB. All three supported the selected remedy.

Two commenters were concerned with protection of the environment. One questioned the protection of migratory birds. The second questioned the future oversight and enforcement of environmental programs, particularly the protection of endangered species and coastal resources, at IR Site 11. The DON responded that, nesting habitat for migratory birds has been provided at IR Sites 1 and 2, which are near IR Site 11. Because the property has reverted, the Long Beach Port Authority is now responsible for oversight and enforcement of environmental programs, including protection of migratory birds, endangered species, and coastal resources.

One commenter was concerned that all contaminants at the site be removed, and the site cleaned to background, so that future use need not be restricted. The DON responded that intended future use of the sites has been determined to be port-related and industrial, and that the selected remedy will be protective of human health and the environment if the sites are used for port-related and industrial purposes. Any future decision to change the land use at the sites to non-industrial will be the responsibility of the Long Beach Port Authority.

No comments on IR Sites 12 and 13 were received from members of the public. Comments and the DON's responses pertaining to IR Sites 11, 12, and 13 are included in Appendix C.

17.0: REFERENCES

- Battelle. 2001. *Final Feasibility Study for Installation Restoration Sites 8, 10, and 11, Long Beach Naval Complex, Long Beach, California*. September.
- Battelle. 2002. *Proposed Plan/Draft Remedial Action Plan, Installation Restoration Sites 8, 10, and 11 at Long Beach Naval Shipyard, Long Beach, CA*. January.
- Battelle. 2004. *Proposed Plan/Draft Remedial Action Plan, Installation Restoration Sites 12 and 13 at Long Beach Naval Shipyard, Long Beach, CA*. July.
- Bechtel National, Inc. 1994a. *Final RI/FS Risk Assessment Work Plan, CTO No. 0037, Long Beach Naval Shipyard, Long Beach, California*.
- Bechtel National, Inc. 1994b. *Technical Memorandum No. 1, Final Technical Memorandum, Aerial Photography Review and Revised Sampling Recommendations. CTO No. 0037, Site 12, Long Beach Naval Shipyard, Long Beach, California*. July.
- Bechtel National, Inc. 1995a. *Final Technical Memorandum No. 2, Remedial Investigation/Feasibility Study at the Long Beach Naval Shipyard, Long Beach, California*. CTO No. 0037. August.
- Bechtel National, Inc. 1995b. "Teleconference on Proposed Modifications to CTO No. 0037 Risk Assessment Work Plan." Meeting minutes.
- Bechtel National, Inc. 1997. *Final Remedial Investigation (RI) Report, Installation Restoration Program for Sites 8 through 13, Long Beach Naval Shipyard, Long Beach, California*. Vol. I-VI. CTO No. 0037/0042.
- Bechtel National, Inc. 1999. *Final Supplemental Groundwater Investigation Installation Restoration Program Sites 9, 12, and 13 Long Beach Naval Shipyard, Long Beach California*. Vol. I-IV. CTO-0123/0226, Navy Clean II Program. February.
- Bechtel National, Inc. 2001. *Final Feasibility Study Report Installation Restoration Program Sites 9, 12, and 13, Former Long Beach Naval Shipyard, Long Beach, California*. Comprehensive Long-Term Environmental Action Navy Clean II, CTO-0176/0118-1. October.
- Bechtel National, Inc. 2002. *Final Technical Memorandum for Installation Restoration Program (IRP) Site 12, Area of Concern (AOC) 1, Former Long Beach Naval Shipyard, Long Beach, California*. Comprehensive Long-Term Environmental Action Navy Clean 3, CTO-0039/0118. September.
- BNI, see Bechtel National, Inc.
- City of Long Beach, see City of Long Beach, Departments of Health and Human Services and Community Development.

City of Long Beach, Departments of Health and Human Services and Community Development. 1995. *Redevelopment Plan for Reuse of Surplus Navy Property, City of Long Beach, Long Beach, California*. 3 Volumes.

DoD, see United States Department of Defense.

DON, see United States Department of the Navy.

DWR, see State of California Department of Water Resources.

Earth Tech, see Earth Technology Corporation.

Earth Technology Corporation. 1989. *Parking Lot X Closure Report, Long Beach Naval Shipyard, Long Beach, California*. August.

Freeze, R.J. and J.A. Cherry. 1979. *Groundwater*. Englewood Cliffs, New Jersey: Prentice Hall.

International Groundwater Modeling Center. 1993. *AT123D — Analytical Transient One-, Two, Three-Dimensional Simulation of Waste Transport in the Aquifer System*.

Jacobs Engineering Group, Inc. 1992a. *Naval Station Long Beach, California, Installation Restoration Program Final Site Inspection Report*. November.

Jacobs Engineering Group, Inc. 1992b. *Naval Shipyard Long Beach, Long Beach, California, Tank Farm Area near Building 303, Final Phase I RCRA Facility Investigation (RFI) Report*. December.

Jacobs Engineering Group, Inc. 1993a. *Naval Station Long Beach, California, Installation Restoration Program Final Remedial Investigation/Feasibility Study (RI/FS) Work Plan*. September.

Jacobs Engineering Group, Inc. 1993b. *Naval Shipyard Long Beach, Long Beach, California, Installation Restoration Program, Remedial Investigation/Feasibility Study (RI/FS) Final Sampling and Analysis Plan*. September.

JEG, see Jacobs Engineering Group, Inc.

Navy Energy and Environmental Support Activity. 1983. *Initial Assessment Study of Naval Complex Long Beach, California*. August.

NEESA, see Navy Energy and Environmental Support Activity.

Port of Long Beach. 1999. *Certified Port Master Plan for the Long Beach Harbor District. Terminal Island Planning District*.

Randall, D.H., J.B. Reardon, J.S. Hileman, T. Matuscka, G.C. Liang, A.I. Khan, and J. LaViolette. 1983. "Geology of the City of Long Beach, California, United States of America." *Bulletin of the Association of Engineering Geologists* 20(1). February.

- Regional Water Quality Control Board, Los Angeles Region. 1975. *Water Quality Control Plan, Los Angeles River Basin (4B)*.
- Regional Water Quality Control Board, San Diego Region. 1994. *Water Quality Control Plan for the San Diego Basin (9)*. State Water Resources Control Board, San Diego, CA.
- Regional Water Quality Control Board, Los Angeles Region. 1998. *Regional Board Resolution 98-18*. Adopted on November 2.
- RWQCB, see Regional Water Quality Control Board, Los Angeles Region.
- Southwest Division Naval Facilities Engineering Command. 1969. *Industrial Waste Study, Naval Complex—Long Beach, California*. December.
- Southwest Division Naval Facilities Engineering Command. 2000a. *Final Base Realignment and Closure (BRAC) Clean Up Plan (BCP), Long Beach Naval Complex, California*. February 25.
- Southwest Division Naval Facilities Engineering Command. 2000b. *Federal Facility Site Remediation Agreement, Long Beach Naval Complex, Long Beach, California*. July 17.
- State of California Department of Health Services. 1989. *RCRA Facility Assessment (RFA), Long Beach Naval Shipyard, Long Beach, CA*.
- State of California Department of Water Resources. 1994. *Watermaster Service in the West Coast Basin, Los Angeles County, July 1, 1993—June 30, 1994*.
- State of California Water Resources Control Board. 1989. *Leaking Underground Fuel Tank Field Manual: Guidelines for Site Assessment, Cleanup, and Underground Storage Tank Closure*. Issued by the Leaking Underground Fuel Tank Force. October.
- State of California Water Resources Control Board. 2001. *California Ocean Plan*. State Water Resources Control Board, California Environmental Protection Agency. December.
- SWDIV, see Southwest Division Naval Facilities Engineering Command.
- SWRCB, see State of California Water Resources Control Board.
- United States Department of Defense. 1997. *Base Reuse Implementation Manual*. December.
- United States Department of the Navy. 2000. “Memorandum of Agreement Between the United States Department of the Navy and the California Department of Toxic Substances Control.” March 10.
- United States Department of the Navy. 2001. *Navy/Marine Corps Policy for Conducting CERCLA Statutory Five-Year Reviews*. November. Available at: http://enviro.nfesc.navy.mil/erb/erb_a/regs_and_policy/don-5yr-review-11-01.pdf.
- United States Environmental Protection Agency. 1986. *Guidelines for Groundwater Classification Under the EPA Groundwater Protection Strategy*. U.S. EPA Office of

Water, Washington, DC. November. Available at: http://www.epa.gov/epaoswer/hazwaste/ca/resource/guidance/gw_use/gwclass.pdf.

United States Environmental Protection Agency. 1988a. *CERCLA Compliance with Other Laws Manual, Draft Guidance*. Interim Final. EPA/540/G-89/006.

United States Environmental Protection Agency. 1988b. *Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA*. Interim Final. EPA/540/G-89/004.

United States Environmental Protection Agency. 1989a. *Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual (Part A), Interim Final*. EPA/540/1-89/0002. Office of Emergency Remedial Response, Washington, DC.

United States Environmental Protection Agency. 1989b. *Determining Soil Response Action Levels Based on Potential Contaminant Migration to Groundwater: A Compendium of Examples*. EPA/540/2-89/057.

United States Environmental Protection Agency. 1990. *National Oil and Hazardous Substances Pollution Contingency Plan*. Final Rule. (40 Code of Federal Regulations [CFR] 300). *Federal Register*, Volume 55, No. 46. March 8.

United States Environmental Protection Agency. 1991. *Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual (Part B), Development of Risk-Based Preliminary Remediation Goals*, Interim. EPA/540/R-92/003. Office of Research and Development, Washington, DC.

United States Environmental Protection Agency. 1992. *Supplemental Guidance for Human Health Multimedia Risk Assessments of Hazardous Waste Sites and Permitted Facilities*. Department of Toxic Substances Control. Office of Science Advisor. July.

United States Environmental Protection Agency. 1995a. Region IX Preliminary Remediation Goals (PRGs), First Half 1995. February.

United States Environmental Protection Agency. 1995b. *VLEACH—A One-Dimensional Finite Difference Vadose Zone Leaching Model, Version 2.2*. Robert S. Kerr Environmental Research Laboratory Center for Subsurface Modeling Support.

United States Environmental Protection Agency. 2000. Region 9 Preliminary Remediation Goals (PRGs) Table. Updated November 22. Available at <http://www.epa.gov/region09/waste/sfund/prg/index.html>.

U.S. EPA, see United States Environmental Protection Agency.

APPENDIX A

California Health and Safety Code, Section 25356.1

APPENDIX A

California Health and Safety Code, Section 25356.1

CALIFORNIA HEALTH AND SAFETY CODE

SECTION 25356.1

25356.1. (a) For purposes of this section, "regional board" means a California regional water quality control board and "state board" means the State Water Resources Control Board.

(b) Except as provided in subdivision (h), the department, or, if appropriate, the regional board shall prepare or approve remedial action plans for all sites listed pursuant to Section 25356.

(c) A potentially responsible party may request the department or the regional board, when appropriate, to prepare or approve a remedial action plan for any site not listed pursuant to Section 25356, if the department or the regional board determines that a removal or remedial action is required to respond to a release of a hazardous substance. The department or the regional board shall respond to a request to prepare or approve a remedial action plan within 90 days of receipt. This subdivision does not affect the authority of any regional board to issue and enforce a cleanup and abatement order pursuant to Section 13304 of the Water Code or a cease and desist order pursuant to Section 13301 of the Water Code.

(d) All remedial action plans prepared or approved pursuant to this section shall be based upon Section 25350, Subpart E of the National Oil and Hazardous Substances Pollution Contingency Plan (40 C.F.R. 300.400 et seq.), and any amendments thereto, and upon all of the following factors, to the extent that these factors are consistent with these federal regulations and do not require a less stringent level of cleanup than these federal regulations:

(1) Health and safety risks posed by the conditions at the site. When considering these risks, the department or the regional board shall consider scientific data and reports which may have a relationship to the site.

(2) The effect of contamination or pollution levels upon present, future, and probable beneficial uses of contaminated, polluted, or threatened resources.

(3) The effect of alternative remedial action measures on the reasonable availability of groundwater resources for present, future, and probable beneficial uses. The department or the regional board shall consider the extent to which remedial action measures are available that use, as a principal element, treatment that significantly reduces the volume, toxicity, or mobility of the hazardous substances, as opposed to remedial actions that do not use this treatment. The department or the regional board shall not select remedial action measures which use offsite transport and disposal of untreated hazardous substances or contaminated materials if practical and cost-effective treatment technologies are available.

(4) Site-specific characteristics, including the potential for offsite migration of hazardous substances, the surface or subsurface soil, and the hydrogeologic conditions, as well as preexisting background contamination levels.

(5) Cost-effectiveness of alternative remedial action measures. In evaluating the cost-effectiveness of proposed alternative remedial action measures, the department or the regional board shall consider, to the extent possible, the total short-term and long-term costs of these actions and shall use, as a major factor, whether the

deferral of a remedial action will result, or is likely to result, in a rapid increase in cost or in the hazard to public health or the environment posed by the site. Land disposal shall not be deemed the most cost-effective measure merely on the basis of lower short-term cost.

(6) The potential environmental impacts of alternative remedial action measures, including, but not limited to, land disposal of the untreated hazardous substances as opposed to treatment of the hazardous substances to remove or reduce its volume, toxicity, or mobility prior to disposal.

(e) A remedial action plan prepared pursuant to this section shall include the basis for the remedial action selected and shall include an evaluation of each alternative considered and rejected by the department or the regional board for a particular site. The plan shall include an explanation for rejection of alternative remedial actions considered but rejected. The plan shall also include an evaluation of the consistency of the selected remedial action with the requirements of the federal regulations and the factors specified in subdivision (d), if those factors are not otherwise adequately addressed through compliance with the federal regulations. The remedial action plan shall also include a nonbinding preliminary allocation of responsibility among all identifiable potentially responsible parties at a particular site, including those parties which may have been released, or may otherwise be immune, from liability pursuant to this chapter or any other provision of law. Before adopting a final remedial action plan, the department or the regional board shall prepare or approve a draft remedial action plan and shall do all of the following:

(1) Circulate the draft plan for at least 30 days for public comment.

(2) Notify affected local and state agencies of the removal and remedial actions proposed in the remedial action plan and publish a notice in a newspaper of general circulation in the area affected by the draft remedial action plan. The department or the regional board shall also post notices in the location where the proposed removal or remedial action would be located and shall notify, by direct mailing, the owners of property contiguous to the site addressed by the plan, as shown in the latest equalized assessment roll.

(3) Hold one or more meetings with the lead and responsible agencies for the removal and remedial actions, the potentially responsible parties for the removal and remedial actions, and the interested public, to provide the public with the information which is necessary to address the issues which concern the public. The information to be provided shall include an assessment of the degree of contamination, the characteristics of the hazardous substances, an estimate of the time required to carry out the removal and remedial actions, and a description of the proposed removal and remedial actions.

(4) Comply with Section 25358.7.

(f) After complying with subdivision (e), the department or the regional board shall review and consider any public comments, and shall revise the draft plan, if appropriate. The department or the regional board shall then issue the final remedial action plan.

(g) (1) A potentially responsible party named in the final remedial action plan issued by the department or the regional board may seek judicial review of the final remedial action plan by filing a petition for writ of mandate pursuant to Section 1085 of the Code

of Civil Procedure within 30 days after the final remedial action plan is issued by the department or the regional board. Any other person who has the right to seek judicial review of the final remedial action plan by filing a petition for writ of mandate pursuant to Section 1085 of the Code of Civil Procedure shall do so within one year after the final remedial action plan is issued. No action may be brought by a potentially responsible party to review the final remedial action plan if the petition for writ of mandate is not filed within 30 days of the date that the final remedial action plan was issued. No action may be brought by any other person to review the final remedial action plan if the petition for writ of mandate is not filed within one year of the date that the final remedial action plan was issued. The filing of a petition for writ of mandate to review the final remedial action plan shall not stay any removal or remedial action specified in the final plan.

(2) For purposes of judicial review, the court shall uphold the final remedial action plan if the plan is based upon substantial evidence available to the department or the regional board, as the case may be.

(3) This subdivision does not prohibit the court from granting any appropriate relief within its jurisdiction, including, but not limited to, enjoining the expenditure of funds pursuant to paragraph (2) of subdivision (b) of Section 25385.6.

(h) (1) This section does not require the department or a regional board to prepare a remedial action plan if conditions present at a site present an imminent or substantial endangerment to the public health and safety or to the environment or, if the department, a regional board, or a responsible party takes a removal action at a site and the estimated cost of the removal action is less than one million dollars (\$1,000,000). The department or a regional board shall prepare or approve a removal action workplan for all sites where a nonemergency removal action is proposed and where a remedial action plan is not required. For sites where removal actions are planned and are projected to cost less than one million dollars (\$1,000,000), the department or a regional board shall make the local community aware of the hazardous substance release site and shall prepare, or direct the parties responsible for the removal action to prepare, a community profile report to determine the level of public interest in the removal action. Based on the level of expressed interest, the department or regional board shall take appropriate action to keep the community informed of project activity and to provide opportunities for public comment which may include conducting a public meeting on proposed removal actions.

(2) A remedial action plan is not required pursuant to subdivision (b) if the site is listed on the National Priority List by the Environmental Protection Agency pursuant to the federal act, if the department or the regional board concurs with the remedy selected by the Environmental Protection Agency's record of decision. The department or the regional board may sign the record of decision issued by the Environmental Protection Agency if the department or the regional board concurs with the remedy selected.

(3) The department may waive the requirement that a remedial action plan meet the requirements specified in subdivision (d) if all of the following apply:

(A) The responsible party adequately characterizes the hazardous substance conditions at a site listed pursuant to Section 25356.

(B) The responsible party submits to the department, in a form

acceptable to the department, all of the following:

(i) A description of the techniques and methods to be employed in excavating, storing, handling, transporting, treating, and disposing of materials from the site.

(ii) A listing of the alternative remedial measures which were considered by the responsible party in selecting the proposed removal action.

(iii) A description of methods that will be employed during the removal action to ensure the health and safety of workers and the public during the removal action.

(iv) A description of prior removal actions with similar hazardous substances and with similar public safety and environmental considerations.

(C) The department determines that the remedial action plan provides protection of human health and safety and for the environment at least equivalent to that which would be provided by a remedial action plan prepared in accordance with subdivision (c).

(D) The total cost of the removal action is less than two million dollars (\$2,000,000).

(4) For purposes of this section, the cost of a removal action includes the cleanup of removal of released hazardous substances from the environment or the taking of other actions which are necessary to prevent, minimize, or mitigate damage which may otherwise result from a release or threatened release, as further defined by Section 9601 (23) of Title 42 of the United States Code.

(5) Paragraph (2) of this subdivision does not apply to a removal action paid from the Hazardous Substance Cleanup Fund.

(i) Article 2 (commencing with Section 13320), Article 3 (commencing with Section 13330), Article 5 (commencing with Section 13350), and Article 6 (commencing with Section 13360) of Chapter 5 of Division 7 of the Water Code apply to any action or failure to act by a regional board pursuant to this section.

25356.1.3. (a) In exercising its authority at a hazardous substance release site pursuant to subdivision (a) of Section 25355.5 or 25358.3, the department shall issue orders to the largest manageable number of potentially responsible parties after considering all of the following:

(1) The adequacy of the evidence of each potentially responsible party's liability.

(2) The financial viability of each potentially responsible party.

(3) The relationship or contribution of each potentially responsible party to the release, or threat of release, of hazardous substances at the site.

(4) The resources available to the department.

(b) The department shall schedule a meeting pursuant to Section 25269.5 and notify all identified potentially responsible parties of the date, time, and location of the meeting.

(c) A person issued an order pursuant to Section 25355.5 or 25358.3 may identify additional potentially responsible parties for the site to which the order is applicable and may request the department to issue an order to those parties. The request shall include, with appropriate documentation, the factual and legal basis for identifying those parties as potentially responsible parties for the site. The department shall review the request and accompanying

information and, within a reasonable period of time, determine if there is a factual and legal basis for identifying other persons as potentially responsible parties, and notify the person that made the request of the action the department will take in response to the request.

(d) Any determination made by the department regarding the largest manageable number of potentially responsible parties or the identification of other persons as potentially responsible parties pursuant to this section is not subject to judicial review. This subdivision does not affect the rights of any potentially responsible party or the department under any other provision of this chapter.

25356.1.5. (a) Any response action taken or approved pursuant to this chapter shall be based upon, and be no less stringent than, all of the following requirements:

(1) The requirements established under federal regulation pursuant to Subpart E of the National Oil and Hazardous Substances Pollution Contingency Plan (40 C.F.R. 300.400 et seq.), as amended.

(2) The regulations established pursuant to Division 7 (commencing with Section 13000) of the Water Code, all applicable water quality control plans adopted pursuant to Section 13170 of the Water Code and Article 3 (commencing with Section 13240) of Chapter 4 of Division 7 of the Water Code, and all applicable state policies for water quality control adopted pursuant to Article 3 (commencing with Section 13140) of Chapter 3 of Division 7 of the Water Code, to the extent that the department or the regional board determines that those regulations, plans, and policies do not require a less stringent level of remediation than the federal regulations specified in paragraph (1) and to the degree that those regulations, plans, and policies do not authorize decisionmaking procedures that may result in less stringent response action requirements than those required by the federal regulations specified in paragraph (1).

(3) Any applicable provisions of this chapter, to the extent those provisions are consistent with the federal regulations specified in paragraph (1) and do not require a less stringent level of remediation than, or decisionmaking procedures that are at variance with, the federal regulations set forth in paragraph (1).

(b) Any health or ecological risk assessment prepared in conjunction with a response action taken or approved pursuant to this chapter shall be based upon Subpart E of the National Oil and Hazardous Substances Pollution Contingency Plan (40 C.F.R. 300.400 et seq.), the policies, guidelines, and practices of the United States Environmental Protection Agency developed pursuant to the federal act, and the most current sound scientific methods, knowledge, and practices of public health and environmental professionals who are experienced practitioners in the fields of epidemiology, risk assessment, environmental contamination, ecological risk, fate and transport analysis, and toxicology. Risk assessment practices shall include the most current sound scientific methods for data evaluation, exposure assessment, toxicity assessment, and risk characterization, documentation of all assumptions, methods, models, and calculations used in the assessment, and any health risk assessment shall include all of the following:

(1) Evaluation of risks posed by acutely toxic hazardous substances based on levels at which no known or anticipated adverse

effects on health will occur, with an adequate margin of safety.

(2) Evaluation of risks posed by carcinogens or other hazardous substances that may cause chronic disease based on a level that does not pose any significant risk to health.

(3) Consideration of possible synergistic effects resulting from exposure to, or interaction with, two or more hazardous substances.

(4) Consideration of the effect of hazardous substances upon subgroups that comprise a meaningful portion of the general population, including, but not limited to, infants, children, pregnant women, the elderly, individuals with a history of serious illness, or other subpopulations, that are identifiable as being at greater risk of adverse health effects due to exposure to hazardous substances than the general population.

(5) Consideration of exposure and body burden level that alter physiological function or structure in a manner that may significantly increase the risk of illness and of exposure to hazardous substances in all media, including, but not limited to, exposures in drinking water, food, ambient and indoor air, and soil.

(c) If currently available scientific data are insufficient to determine the level of a hazardous substance at which no known or anticipated adverse effects on health will occur, with an adequate margin of safety, or the level that poses no significant risk to public health, the risk assessment prepared in conjunction with a response action taken or approved pursuant to this chapter shall be based on the level that is protective of public health, with an adequate margin of safety. This level shall be based exclusively on public health considerations, shall, to the extent scientific data are available, take into account the factors set forth in paragraphs (1) to (5), inclusive, of subdivision (b), and shall be based on the most current principles, practices, and methods used by public health professionals who are experienced practitioners in the fields of epidemiology, risk assessment, fate and transport analysis, and toxicology.

(d) The exposure assessment of any risk assessment prepared in conjunction with a response action taken or approved pursuant to this chapter shall include the development of reasonable maximum estimates of exposure for both current land use conditions and reasonably foreseeable future land use conditions at the site.

APPENDIX B

Chronological Administrative Record File Index

APPENDIX B

Chronological Administrative Record File Index

LONG BEACH SHIPYARD

DRAFT ADMINISTRATIVE RECORD FILE INDEX - UPDATE (SORTED BY RECORD DATE/RECORD NUMBER)

UIC No. / Rec. Doc. Control No. Record Type Contr./Guid. No. Approx. # Pages	Prc. Date Record Date CTO No. EPA Cat. #	Author Affil. Author Recipient Affil. Recipient	Subject/Comment	Classification	Keywords	Sites	Location FRC Access. No. FRC/SWDIV Box No. FRC Warehouse Loc. CD
N60258 / 000597 NONE	10-31-1994 11-01-1975	MOFFATT & NICHOL	INDUSTRIAL WASTE AND SHIP WASTEWATER COLLECTION AND DISPOSAL FACILITY, DRYDOCKS 1,2,&3 STUDY	ADMIN RECORD	COST DATA		SOUTHWEST DIVISION - BLDG. 1
LTR N62474-74-C-4036 00150	NONE 01.1	NAVFAC - EFA WEST			LEAK PERMIT WATER		POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000003 NONE LTR N62474-74-C-3792 00132	09-14-1994 12-30-1975 NONE 01.1	WOODWARD- CLYDE E.G. HEATH NAVFAC - SOUTHWEST DIVISION	SHALLOW AQUIFER INVESTIGATION	ADMIN RECORD	GW LEAK		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04011501 IMAGED LBSY_001
N60258 / 000725 NONE LTR N62474-75-C-6669 00075	11-21-1994 01-07-1976 NONE 01.1	TOUPS CORPORATION W.R. MILLS NAVFAC - EFA WEST	SANITARY/ENVIRONMENTAL ENGINEERING PRACTICES	ADMIN RECORD	COST FUEL POTW WATER		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000004 NONE RPT NONE 00111	09-14-1994 05-01-1976 NONE 01.1		P-174 DRYDOCK WATER POLLUTION ABATEMENT	ADMIN RECORD	COST DATA EA EIA		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04011501 IMAGED LBSY_001

UIC No. / Rec. Doc. Control No. Record Type Contr./Guid. No. Approx. # Pages	Prc. Date Record Date CTO No. EPA Cat. #	Author Affil. Author Recipient Affil. Recipient	Subject/Comment	Classification	Keywords	Sites	Location FRC Access. No. FRC/SWDIV Box No. FRC Warehouse Loc. CD
N60258 / 000665 NONE RPT N62474-76-C-7284 00120	11-04-1994 06-17-1977 NONE 01.1	WOODWARD- CLYDE R.A. MORRISON NAVFAC - EFA WEST	PHASE 1A REPORT REPAIR OF HYDROSTATIC WELLS-DRYDOCK NO. 1	ADMIN RECORD	DATA HISTORIC WELLS		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000005 NONE LTR N62474-76-C-7284 00293	09-14-1994 06-23-1977 NONE 01.1	WOODWARD- CLYDE R.A. MORRISON NAVFAC - EFA WEST	PHASE IB REPORT REPAIR OF HYDROSTATIC WELLS-DRYDOCK NO. 1	ADMIN RECORD	GW LAB LEAK MONITORING SB WELLS		PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000006 NONE LTR N62474-75-C-6668 00194	09-14-1994 08-01-1977 NONE 01.1	CDM FEDERAL PROGRAMS CORP. F.R. BOWERMAN NAVFAC - EFA WEST V. JEPSEN	FINAL ENVIRONMENTAL ENGINEERING SURVEY	ADMIN RECORD	MONITORING WATER		PALLET 14 - SW04011501 IMAGED LBSY_001 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000007 NONE MISC N62474-75-C-6668 00004	09-14-1994 08-04-1977 NONE 01.1		STATUS OF ACTIONS TAKEN ON THE ENVIRONMENTAL ENGINEERING SURVEY RECOMMENDATIONS	ADMIN RECORD	COST MONITORING WATER		PALLET 14 - SW04011501 IMAGED LBSY_001 SOUTHWEST DIVISION - BLDG. 1 BNI - 12/11/03

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N60258 / 000890 NONE RPT N62474-76-C-7284 00215	03-06-1997 05-18-1978 NONE 03.4	WOODWARD- CLYDE CONSL L. LEE L. LEE NAVFAC - SOUTHWEST DIVISION S. BRUNO	INPUT FOR THE DESIGN OF THE REMEDIAL HYDROSTATIC RELIEF SYSTEM REPAIR OF HYDROSTATIC WELLS-	ADMIN RECORD	GW MONITORING WELLS	DRY DOCK 1	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022602 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000010 NONE MISC NONE 00010	09-14-1994 12-28-1979 NONE 01.1		UNITED STATES OF AMERICA AND THE CITY OF LOS ANGELES RECIPROCAL LEASE AGREEMENT	ADMIN RECORD CONFIDENTIAL			POSSIBLE COMPLIANCE
N60258 / 000011 NONE LTR N62474-79-C-5742 00045	09-14-1994 10-08-1980 NONE 01.1	BROWN AND CALDWELL H.M. THEISEN NAVFAC - EFA WEST D. RYAN	REFUSE-DERIVED FUEL UTILIZATION STUDY VOLUME II, FINANCIAL ANALYSIS	ADMIN RECORD CONFIDENTIAL	COST FUEL		SOUTHWEST DIVISION - BLDG. 1 BNI - 12/11/03 BNI - 12/11/03
N60258 / 000722 SER LTR N62474-80-C-9018 00217	11-21-1994 05-01-1982 NONE 01.1	NAVAL OPERATIONS J. TAYLOR DISTRIBUTION	TERMINAL ISLAND, MASTER PLAN	ADMIN RECORD			SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021203 IMAGED LBSY_003

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N60258 / 000668 NONE LTR LTR N62474-82-C-C355 00128	11-15-1994 08-01-1983 NONE NONE 01.3	BROWN AND CALDWELL EPA	INITIAL ASSESSMENT STUDY (IAS) (NEESA 13-033) (MISSING ENCL: NEESA PORT HUENEME LTR 8/30/83 SER 152)	ADMIN RECORD INFO REPOSITORY REPOSITORY	GW IAS SWAT		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04011501 IMAGED LBSY_001 SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000016 NONE LTR NONE 00001	09-14-1994 09-15-1983 NONE 01.3	WESTERN DIVISION V.I. CRAWFORD NAVFAC - SOUTHWEST DIVISION	DISTRIBUTION OF FINAL INITIAL ASSESSMENT STUDY (FIAS)	ADMIN RECORD	IAS		
N60258 / 000476 NONE RPT N62474-83-C-3004 00084	10-26-1994 09-01-1984 NONE 01.1	MITTELHAUSER CORP NAVFAC - EFA WEST	UNSEWERABLE LIQUID WASTE ENGINEERING STUDY	ADMIN RECORD	HAZ WASTE LAB OWWOW TANK		
N60258 / 000586 NONE RPT NONE 00002	10-31-1994 06-13-1985 NONE 01.1	CITY OF LONG BEACH K.W. PHILLIPS	WATER QUALITY REPORT SAMPLED 06/13/85	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000581 NONE RPT NONE 00002	10-31-1994 07-18-1985 NONE 01.1	CITY OF LONG BEACH K.W. PHILLIPS	WATER QUALITY REPORT SAMPLED 07/18/85	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000578 NONE RPT NONE 00002	10-31-1994 09-20-1985 NONE 01.1	CITY OF LONG BEACH K.W. PHILLIPS	WATER QUALITY REPORT SAMPLED 09/20/85	ADMIN RECORD	LAB WATER		PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000576 NONE RPT NONE 00002	10-31-1994 10-03-1985 NONE 01.1	CITY OF LONG BEACH K.W. PHILLIPS	WATER QUALITY REPORT SAMPLED 10/03/85	ADMIN RECORD	LAB WATER		PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000527 NONE RPT NONE 00004	10-26-1994 10-25-1985 NONE 01.1		WATER QUALITY COLLECTION RECORD- SOURCE DISCHARGE - OCTOBER, 1985	ADMIN RECORD	WATER		PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
							PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000889 NONE	01-20-1997 11-06-1985	NAVFAC - SOUTHWEST DIVISION A. LEE PORT OF LOS ANGELES D. RICE	COMMENTS ON THE PORT OF THE MANAGEMENT PLAN OF THE LOS ANGELES WASTE MANAGEMENT PLAN AND SITE-SPECIFIC HEALTH & SAFETY PLAN (ADDENDUM #1 & #2)	ADMIN RECORD	COMMENTS H&SP WMP		SOUTHWEST DIVISION - BLDG. 1
LTR NONE 00003	00095 10.1						POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000574 NONE RPT NONE 00002	10-31-1994 12-06-1985 NONE 01.1	CITY OF LONG BEACH K.W. PHILLIPS	WATER QUALITY REPORT - SAMPLED 12/05/85	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000054 NONE RPT N67474-84-C-4771 00192	08-29-2000 02-11-1986 NONE	LEIGHTON AND ASSOCIATES, NAVFAC - WESTERN DIVISION	SITE CHARACTERIZATION FOR SOIL AND GROUNDWATER CONTAMINATION FOR A PROPOSED SERVIMART AND TWO ALTERNATIVE SITES (P-049)	ADMIN RECORD	GW METALS MONITORING PCB SOIL SVOC TPH VOC	AREA 1 AREA 2 AREA 3	PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04011502 IMAGED LBSY_001
N60258 / 000544 NONE RPT NONE 00002	10-26-1994 12-11-1986 NONE 01.1		WATER QUALITY COLLECTION RECORD- SOURCE DISCHARGE - DECEMBER, 1986	ADMIN RECORD	WATER		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000020 NONE	09-14-1994 12-17-1986	U.S. EPA L. MITANI	REVIEW OF INITIAL ASSESSMENT STUDY (IAS) - INCLUDES PRELIMINARY ASSESSMENT FORMAT. ***COMMENTS: NCP 40 CFR 300***	ADMIN RECORD	GW HAZ WASTE		SOUTHWEST DIVISION - BLDG. 12
MEMO NONE	NONE 01.3	NAVAL COMPLEX			HAZMAT IAS		12
00008					LAB		
					MONITORING NCP RISK		PALLET 14 - SW04012901 IMAGED LBSY_001
N60258 / 000547 NONE RPT NONE	10-26-1994 01-13-1987 NONE 01.1		WATER QUALITY COLLECTION RECORD- SOURCE DISCHARGE - JANUARY, 1987	ADMIN RECORD	WATER		SOUTHWEST DIVISION - BLDG. 12
00002							
							PALLET 14 - SW04021202 IMAGED LBSY_003
N60258 / 000028 NONE MISC NONE	09-14-1994 01-30-1987 NONE 01.1	CITY OF LONG BEACH R.V. ROLLINGER NAVFAC - EFA WEST	WATER QUALITY REPORT SAMPLED 30 JANUARY 1987	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12
00002							
							PALLET 14 - SW04012901 IMAGED LBSY_001
N60258 / 000545 NONE RPT NONE	10-26-1994 02-17-1987 NONE 01.1		SAMPLE COLLECTION RECORD - FEBRUARY, 1987	ADMIN RECORD	PERMIT		SOUTHWEST DIVISION - BLDG. 12
00001							
							PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000546 NONE RPT NONE	10-26-1994 02-17-1987 NONE 01.1		WATER QUALITY COLLECTION RECORD- SOURCE DISCHARGE - FEBRUARY, 1987	ADMIN RECORD	WATER		SOUTHWEST DIVISION - BLDG. 12
00002							PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000035 NONE	09-14-1994 02-27-1987	EPA P.L. BOBEL	RCRA COMPLIANCE EVALUATION INSPECTION REPORT (FINAL REPORT). ***COMMENTS: 40 CFR PART 2***	ADMIN RECORD	HAZ WASTE RCRA		
LTR NONE 00044	NONE 01.1	NSY LONG J. MAYNARD			SI		POSSIBLE COMPLIANCE
N60258 / 000036 NONE MEMO NONE	09-14-1994 02-27-1987 NONE 01.1	CITY OF LONG BEACH R.V. ROLLINGER NAVFAC - SOUTHWEST DIVISION	WATER QUALITY REPORT SAMPLED 02/27/87	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12
00003							PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000548 NONE RPT NONE	10-26-1994 03-03-1987 NONE 01.1		SAMPLING COLLECTION RECORD	ADMIN RECORD	PERMIT		
00002							PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000037 NONE MISC NONE 00002	09-14-1994 03-06-1987 NONE 01.1	CITY OF LONG BEACH R.V. ROLLINGER NAVFAC - SOUTHWEST DIVISION	WATER QUALITY REPORT SAMPLED 03/06/87	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000549 NONE RPT NONE 00001	10-26-1994 04-02-1987 NONE 01.1		SAMPLE COLLECTION RECORD - APRIL, 1987	ADMIN RECORD	PERMIT		 PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000046 NONE MISC NONE 00002	09-14-1994 04-13-1987 NONE 01.1	CITY OF LONG BEACH R.V. ROLLINGER NAVFAC - SOUTHWEST DIVISION	WATER QUALITY REPORT SAMPLED 04/09/87	ADMIN RECORD	LAB WATER		 PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000030 NSY LB SER 410/040 LTR NONE 00002	09-14-1994 05-05-1987 NONE 07.7	NSY LONG J. MAYNARD SCAQMD	COMMENTS TO NOTICE OF VIOLATION	ADMIN RECORD	NOV PCR PERMIT		 PALLET 14 - SW04012901 IMAGED LBSY_001

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N60258 / 000051 SER 1141G/140 LTR NONE 00002	10-11-1994 05-08-1987 NONE 01.1	NSY LONG W.J. BUREAU OF SANITATION S. BUESCH	INDUSTRIAL WASTE MONITORING REPORT - APRIL, 1987	ADMIN RECORD	LAB MONITORING		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000550 NONE RPT NONE 00001	10-26-1994 05-11-1987 NONE 01.1		SAMPLE COLLECTION RECORD - MAY, 1987	ADMIN RECORD	PERMIT		PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000053 NONE RPT NONE 00002	10-11-1994 05-28-1987 NONE 01.1	CITY OF LONG BEACH R.E. COOK NAVFAC - SOUTHWEST DIVISION	WATER QUALITY REPORT SAMPLED 05/28/87	ADMIN RECORD	LAB WATER		PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000551 NONE RPT NONE 00001	10-26-1994 06-15-1987 NONE 01.1		SAMPLE COLLECTION RECORD - JUNE,	ADMIN RECORD	PERMIT		PALLET 14 - SW04011502 IMAGED LBSY_001 SOUTHWEST DIVISION - BLDG. 12
							PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000059 NONE RPT NONE 00002	10-11-1994 06-30-1987 NONE 01.1	CITY OF LONG BEACH R.E. COOK NAVFAC - SOUTHWEST DIVISION	WATER QUALITY REPORT SAMPLED 06/30/87	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04011502 IMAGED LBSY_001 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000552 NONE RPT NONE 00001	10-26-1994 07-17-1987 NONE 01.1		SAMPLE COLLECTION RECORD - JULY,	ADMIN RECORD	PERMIT		 PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000063 NONE RPT NONE 00002	10-11-1994 07-31-1987 NONE 01.1	CITY OF LONG BEACH R.E. COOK	WATER QUALITY REPORT SAMPLED 07/30/87	ADMIN RECORD	LAB WATER		 PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000553 NONE RPT NONE 00001	10-26-1994 08-11-1987 NONE 01.1		SAMPLE COLLECTION RECORD - AUGUST, 1987	ADMIN RECORD	PERMIT		 PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000069 NONE RPT NONE 00002	10-11-1994 08-21-1987 NONE 01.1	CITY OF LONG BEACH R.E. COOK	WATER QUALITY REPORT SAMPLED 08/20/87	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000554 NONE RPT NONE 00002	10-26-1994 09-14-1987 NONE 01.1		SAMPLE COLLECTION RECORD - SEPTEMBER, 1987	ADMIN RECORD	PERMIT		PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000073 NONE RPT NONE 00002	10-11-1994 09-18-1987 NONE 01.1	CITY OF LONG BEACH R.E. COOK	WATER QUALITY REPORT SAMPLED 09/17/87	ADMIN RECORD	LAB WATER		PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000076 NONE RPT NONE 00002	10-11-1994 10-30-1987 NONE 01.1	CITY OF LONG BEACH R.E. COOK	WATER QUALITY REPORT SAMPLED 10/29/87	ADMIN RECORD	LAB WATER		PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
							PALLET 14 - SW04012901 IMAGED LBSY_002

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N60258 / 000077 NONE RPT NONE 00002	10-11-1994 11-13-1987 NONE 01.1	CITY OF LONG BEACH R.E. COOK	WATER QUALITY REPORT SAMPLED 11/12/87	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000555 NONE RPT NONE 00002	10-26-1994 11-13-1987 NONE 01.1		SAMPLE COLLECTION RECORD - OCTOBER, 1987 AND NOVEMBER, 1987	ADMIN RECORD	PERMIT		PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000079 NONE LTR NONE 00003	10-11-1994 11-24-1987 NONE 01.1	WESTERN DIVISION S.S. S.S. BUREAU OF SANITATION S. BUESCH	INDUSTRIAL WASTE MONITORING REPORTS - SEPTEMBER AND OCTOBER, 1987	ADMIN RECORD	LAB MONITORING		PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000083 NONE RPT NONE 00002	10-11-1994 12-11-1987 NONE 01.1	CITY OF LONG BEACH R.E. COOK	WATER QUALITY REPORT SAMPLED 12/10/87	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012901 IMAGED LBSY_002

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N60258 / 000556 NONE RPT NONE	10-26-1994 12-16-1987 NONE 01.1		SAMPLE COLLECTION RECORD - DECEMBER, 1987	ADMIN RECORD	PERMIT		SOUTHWEST DIVISION - BLDG. 12
00001							PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000085 NONE LTR NONE	10-11-1994 12-21-1987 NONE 01.1	WESTERN DIVISION S.S. BUREAU OF SANITATION	INDUSTRIAL WASTE MONITORING REPORT - NOVEMBER, 1987	ADMIN RECORD	LAB MONITORING		POSSIBLE POSSIBLE COMPLIANCE
00002		S. BUESCH					
N60258 / 000560 NONE RPT NONE 00002	10-31-1994 01-22-1988 NONE 01.1	CITY OF LONG BEACH R.E. COOK	WATER QUALITY REPORT SAMPLED 01/21/88	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12
							PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000088 NONE LTR NONE 00010	10-11-1994 02-05-1988 NONE 01.1	WESTERN DIVISION S.S. EPA C. HOUK	DISCHARGE MONITORING REPORT - JANUARY, 1988	ADMIN RECORD	LAB MONITORING		POSSIBLE COMPLIANCE

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N60258 / 000090 NONE LTR NONE 00002	10-11-1994 02-16-1988 NONE 01.1	WESTERN DIVISION S.S. BUREAU OF SANITATION S. BUESCH	INDUSTRIAL WASTE MONITORING REPORT - JANUARY 1988	ADMIN RECORD	LAB MONITORING		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000102 NONE RPT NONE 00002	10-11-1994 03-25-1988 NONE 01.1	CITY OF LONG BEACH R.E. COOK NAVFAC - SOUTHWEST DIVISION	WATER QUALITY REPORT SAMPLED 03/24/88	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04011502 IMAGED LBSY_001 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000105 NONE LTR NONE 00002	10-11-1994 04-13-1988 NONE 01.1	WESTERN DIVISION S.S. BUREAU OF SANITATION D.A. BIAGI	INDUSTRIAL WASTE MONITORING REPORT - MARCH 1988	ADMIN RECORD	LAB MONITORING		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000384 NONE LTR NONE 00010	10-24-1994 04-15-1988 NONE 01.3	EPA J. ANDERSON NAVSTA/NSY LB	REVIEW OF INITIAL ASSESSMENT STUDY (IAS) REQUIRED UNDER CERCLA. ***COMMENTS: GUIDANCE ON FEDERAL FACILITY REQMENTS UNDER CERCLA SECT 120; CERCLA SECTION 120; 40 CFR PART 300 (NCP)***	ADMIN RECORD	CERCLA HAZMAT IAS NCP PA SI		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021202 IMAGED LBSY_002

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N60258 / 000106 NONE RPT NONE 00002	10-13-1994 04-20-1988 NONE 01.1	CITY OF LONG BEACH R.E. COOK NAVFAC - SOUTHWEST DIVISION	WATER QUALITY REPORT SAMPLED 04/14/88	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000109 NONE RPT NONE 00002	10-13-1994 05-24-1988 NONE 01.1	CITY OF LONG BEACH R.E. COOK NAVFAC - SOUTHWEST DIVISION	WATER QUALITY REPORT SAMPLED 05/19/88	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000115 NONE RPT NONE 00002	10-13-1994 06-28-1988 NONE 01.1	CITY OF LONG BEACH R.E. COOK NAVFAC - SOUTHWEST DIVISION	WATER QUALITY REPORT SAMPLED 06/23/88	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000123 NONE RPT NONE 00002	10-13-1994 09-19-1988 NONE 01.1	CITY OF LONG BEACH R.E. COOK NAVFAC - SOUTHWEST DIVISION	WATER QUALITY REPORT SAMPLED 09/15/88	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012902 IMAGED LBSY_002

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N60258 / 000125 NONE RPT NONE 00002	10-13-1994 10-24-1988 NONE 01.1	CITY OF LONG BEACH R.E. COOK NAVFAC - SOUTHWEST DIVISION	WATER QUALITY REPORT SAMPLED 10/20/88	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000126 NONE RPT NONE 00002	10-13-1994 11-14-1988 NONE 01.1	CITY OF LONG BEACH R.E. COOK NAVFAC - SOUTHWEST DIVISION	WATER QUALITY REPORT SAMPLED 11/10/88	ADMIN RECORD	LAB WATER		PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000129 NONE RPT NONE 00002	10-13-1994 12-20-1988 NONE 01.1	CITY OF LONG BEACH R.E. COOK NAVFAC - SOUTHWEST DIVISION	WATER QUALITY REPORT SAMPLED 12/15/88	ADMIN RECORD	LAB WATER		PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000134 NONE RPT NONE 00002	10-13-1994 04-04-1989 NONE 01.1	CITY OF LONG BEACH R.E. COOK	WATER QUALITY REPORT SAMPLED 03/30/89	ADMIN RECORD	LAB WATER		PALLET 14 - SW04011502 IMAGED LBSY_001

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N60258 / 000136 NONE RPT NONE 00002	10-13-1994 04-27-1989 NONE 01.1	CITY OF LONG BEACH R.E. COOK	WATER QUALITY REPORT SAMPLED 04/20/89	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04011502 IMAGED LBSY_001 SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000733 NONE LTR NONE 00025	11-21-1994 05-15-1989 NONE 01.3	ECOLOGY & ENVIR L. CAMPBELL EPA C. DOUGLAS	REVIEW OF PRELIMINARY ASSESSMENT (EPA ID. NO. CA2170023194)	ADMIN RECORD	CERCLA GW HAZ WASTE IAS NPL PA PCB RISK SI TCE WATER		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000139 NONE RPT NONE 00002	10-13-1994 06-27-1989 NONE 01.1	CITY OF LONG BEACH R.E. COOK NAVFAC - SOUTHWEST DIVISION	WATER QUALITY REPORT SAMPLED 06/22/89	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04011502 IMAGED LBSY_001
N60258 / 000141 PROJECT NO. 89- 662 RPT N62474-87-D-1577 00126	10-13-1994 08-01-1989 NONE 01.1	EARTH TECHNOLOGY NSY LONG	PARKING LOT X CLOSURE REPORT	ADMIN RECORD INFO REPOSITORY	COST DATA LAB PCB SB TPH	012	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04011502 IMAGED LBSY_001

Tuesday, August 08, 2006

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N60258 / 000140 NONE	06-04-2001 08-31-1989	NAVAL COMPLEX LONG BEACH	INFORMATION SHEET ON THE INSTALLATION RESTORATION PROGRAM AT LONG BEACH NAVAL COMPLEX	ADMIN RECORD	ASBESTOS CERCLA	001 002	SOUTHWEST DIVISION - BLDG. 12
MISC NONE	NONE	NAVFAC - SOUTHWEST DIVISION			DISPOSAL GW	003 004	12
00002					HAR IAS IRP LF PA POL RD REMEDIAL ACTION SARA SEDIMENTS SOIL SOLVENTS SWAT TCE	005 006 007 008 009 010 011 012 BLDG. 129 BLDG. 210	PALLET 14 - SW04011502 IMAGED LBSY_001
N60258 / 000145 NONE RPT RPT NONE 00150	10-13-1994 11-30-1989 NONE NONE 01.3	DTSC J. ZARNOCH US EPA - SAN US EPA - SAN FRANCISCO	RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) FACILITY ASSESSMENT	ADMIN RECORD INFO REPOSITORY REPOSITORY	GW HAZ WASTE PCB RCRA RFA SWMU TANK TCE UST		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE COMPLIANCE

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N60258 / 000142 NONE	06-04-2001 01-01-1990	LONG BEACH NAVAL COMPLEX	INFORMATION SHEET ON THE INSTALLATION RESTORATION PROGRAM AT LONG BEACH NAVAL COMPLEX	ADMIN RECORD	DISPOSAL GW	001 002	SOUTHWEST DIVISION - BLDG. 12
MISC NONE 00003	NONE	NAVFAC - SOUTHWEST DIVISION			HAZ WASTE IAS IRP PCB SEDIMENTS SI SOIL SOLVENTS TCE	003 004 005 006 007 008 009 010 011 012 BLDG. 129 BLDG. 210	PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000563 NONE RPT NONE 00002	10-31-1994 04-20-1990 NONE 01.1	CITY OF LONG BEACH D.R. BESABELLA	WATER QUALITY REPORT SAMPLED 04/19/90	ADMIN RECORD	LAB PERMIT WATER		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021202 IMAGED LBSY_003
N60258 / 000710 CLE-C01-01F0017- B6-0002 B6-0002 LTR N68711-89-D-9296 00327	11-17-1994 04-26-1990 00017 00017 03.3	JACOBS ENGINEERING B.W.C. WONG B.W.C. WONG NAVFAC - SOUTHWEST DIVISION H. PADRO	DRAFT SITE INSPECTION (SI) WORK PLAN, INCLUDING THE FIELD QA/QC AND THE SITE HEALTH & SAFETY PLAN	ADMIN RECORD	FS GW H&SP HAZ WASTE IAS QA QC RI SAP SARA SI SSHP WORK PLAN	001 002 003 004 005 006 007	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04021203 IMAGED LBSY_003

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N60258 / 000161 NONE RPT NONE 00002	10-13-1994 05-18-1990 NONE 01.1	CITY OF LONG BEACH D.R. BESABELLA	WATER QUALITY REPORT SAMPLED 05/17/90	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000163 NONE LTR LTR NONE 00075	10-13-1994 05-23-1990 NONE NONE 07.1	DTSC M.S. SANDHU DISTRIBUTION DISTRIBUTION	FINAL HAZARDOUS WASTE FACILITY PERMIT (EPA ID NO. CA6170023109). ***COMMENTS: TITLE 22, CA CODE OF REGULATIONS (22 CCR) CHAPTER 30***	ADMIN RECORD INFO REPOSITORY REPOSITORY	CEQA HAZ WASTE PERMIT RCRA RFI SWMU		PALLET 14 - SW04021201 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 1 PROBLEM SHELVING
N60258 / 000732 NONE LTR NONE 00003	11-21-1994 05-23-1990 NONE 01.3	EPA D.C. WHITE NAVFAC - SOUTHWEST DIVISION A. FREEMAN	RESULTS OF REVIEW OF PRELIMINARY ASSESSMENT/SITE INSPECTION (PA/SI) PACKAGES	ADMIN RECORD	CERCLA NPL PA SI		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000164 NONE LTR NONE 00031	10-13-1994 06-05-1990 NONE 01.3	NAVFAC - SOUTHWEST DIVISION D.N. SAKAMOTO NSY LONG	FEDERAL FACILITY PRELIMINARY ASSESSMENT (PA) REVIEW	ADMIN RECORD	CERCLA NPL PA RA SARA SI		PALLET 14 - SW04021201 IMAGED LBSY_002

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N60258 / 000165 NONE RPT NONE 00002	10-13-1994 06-08-1990 NONE 01.1	CITY OF LONG BEACH D.R. BESABELLA	WATER QUALITY REPORT SAMPLED 06/07/90	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000166 NONE RPT RPT NONE 00093	10-13-1994 06-18-1990 NONE NONE 07.1	EPA J. ZELIKSON NSY LONG NSY LONG L.D. JOHNSON	HAZARDOUS WASTE FACILITY PERMIT AND FINAL PERMIT DECISION. ***COMMENTS: 40 CFR 124.15; 40 CFR 124.15(B)(3); 40 CFR 124.19***	ADMIN RECORD INFO REPOSITORY REPOSITORY	HAZ WASTE PERMIT RCRA		PALLET 14 - SW04021201 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000168 NONE RPT NONE 00100	10-13-1994 07-01-1990 NONE 01.1		FIRST DRAFT INDUSTRIAL WASTE MANAGEMENT PROGRAM (NEESA 19.7-01) "NOT FOR PUBLIC RELEASE"	ADMIN RECORD CONFIDENTIAL	BILGE WATER EA MONITORING PERMIT WATER		PALLET 14 - SW04021201 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 1 BNI - 12/11/03
N60258 / 000170 NONE RPT NONE 00002	10-13-1994 08-07-1990 NONE 01.1	CITY OF LONG BEACH R.T. CROWLEY	WATER QUALITY REPORT SAMPLED 07/30/90	ADMIN RECORD	LAB WATER		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021201 IMAGED LBSY_002

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N60258 / 000663 NONE LTR NONE 00008	11-04-1994 10-29-1990 NONE 07.3	RWQCB R.P. GHIRELLI NSY LONG L. JOHNSON	CEASE AND DESIST ORDER NO. 90-149. ***COMMENTS: 40 CFR 433.15***	ADMIN RECORD	C&D MONITORING		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE COMPLIANCE
N60258 / 000674 NONE LTR N68711-89-D-9296 00002	11-17-1994 12-08-1990 00017 03.3	EPA C. DOUGLAS NAVFAC - SOUTHWEST DIVISION W. THORNTON	COMMENTS TO FINAL DRAFT SITE INSPECTION WORK PLANS	ADMIN RECORD	CLP COMMENTS DATA GW IAS RI SI		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000731 NONE LTR N68711-89-D-9296 00002	11-21-1994 12-28-1990 00017 03.3	RWQCB J.E. ROSS NAVFAC - SOUTHWEST DIVISION W.N. THORNTON	COMMENTS TO FINAL DRAFT SITE INSPECTION WORKPLAN AND '83 IAS	ADMIN RECORD	COMMENTS GW HAZ WASTE IAS IRP MONITORING SB SI WELLS		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021203
N60258 / 000187 NONE LTR NONE 00010	10-17-1994 02-21-1991 NONE 01.1	RWQCB J.M. LYONS NAVFAC - SOUTHWEST DIVISION	TENTATIVE WASTE DISCHARGE REQUIREMENTS PIER E MAINTENANCE DREDGING	ADMIN RECORD	MONITORING QC REMOVAL WATER		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE

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N60258 / 000186 SWDIV SER 1812.AP/1110 LTR NONE 00003	02-27-2002 03-12-1991 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION F. PISZKIN NAS NORTH ISLAND COMMANDING OFFICER	POTENTIALLY RESPONSIBLE PARTY INFORMATION REQUEST WITH RESPECT TO THE GENERATION, TREATMENT, OR TRANSPORT OF HAZARDOUS WASTES ASSOCIATED WITH THE LUBRICATION COMPANY OF AMERICA SITE IN CANYON COUNTRY	ADMIN RECORD	HAZ WASTE PRP		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000191 NONE LTR NONE 00008	10-17-1994 03-27-1991 NONE 03.3	DTSC C.E. LAMPINO NSY LONG T.G. AVGERINOS	COMMENTS TO PHASE I RCRA FACILITY INVESTIGATION (RFI) WORKPLAN	ADMIN RECORD	COMMENTS DATA GW HAZ WASTE IAS QC RCRA RFI SI WATER WELLS		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000666 NONE LTR NONE 00010	11-15-1994 04-15-1991 NONE 07.3	CITY OF LOS ANGELES V.J. VARSH V.J. VARSH NAVAL COMPLEX LB L. JOHNSON	INDUSTRIAL WASTE PERMIT NO. W-426223 MODIFIED ORDER TO COMPLY WITH FEDERAL AND LOCAL REGULATIONS	ADMIN RECORD	PERMIT		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE

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N60258 / 000627 NONE LTR NONE 00009	10-31-1994 04-23-1991 NONE 03.3	EPA J.C. BREITLOW NSY LONG T.G. AVGERINOS	COMMENTS ON PHASE I RCRA FACILITY INVESTIGATION (RFI) WORKPLAN	ADMIN RECORD	GW IAS IRP MONITORING PERMIT RCRA RFI SI WELLS		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE COMPLIANCE
N60258 / 000784 NONE MISC NONE 00002	11-21-1994 05-30-1991 00110 10.1	NAVFAC - SOUTHWEST DIVISION DIVISION B. THORNTON NAVSTA LONG BEACH S. COX	COMMENTS ON CTO 110 COMMUNITYRELATIONS BROCHURE SUBMITTAL OF MAY 17, 1991	ADMIN RECORD	COMMENTS HAZMAT LAB		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021204 IMAGED LBSY_003
N60258 / 000201 CLE-C01-01F017- B6-0008 B6-0008 RPT N68711-89-D-9296 00025	10-17-1994 07-03-1991 00017 00017 03.3	JACOBS ENGINEERING GROUP GROUP B. WONG NAVSTA LONG BEACH	RESPONSE TO DEPARTMENT OF HEALTH SERVICES COMMENTS ON THE SITE INSPECTION (SI) WORK PLAN	ADMIN RECORD	COMMENTS IRP PERMIT RCRA RESPONSE SI WORK PLAN	001 002 004 005 006A 009 010 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04012902 IMAGED LBSY_002

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N60258 / 000202 CLE-CO1-01F017- B6-0010 B6-0010 RPT N68711-89-D-9296 00250	10-17-1994 07-10-1991 00017 00017 03.3	JACOBS ENGINEERING GROUP GROUP NAVFAC - SOUTHWEST DIVISION DIVISION B. WONG	REVISED FINAL SITE INSPECTION (SI) WORK PLAN, WHICH INCLUDES FIELD QA/QC PLAN, SITE HEALTH & SAFETY PLAN, & RCRA FACILITY INVESTIGATION	ADMIN RECORD	CERCLA GW H&SP HAZ WASTE IAS IRP QA QC RCRA RFI SARA SI TCE	007B 008 009 010 011 012	SOUTHWEST DIVISION - BLDG. 1 PROBLEM SHELVING SHELVING
N60258 / 000785 PN-0122-02 & PN- 0123-02 0123-02 MM NONE 00003	11-21-1994 07-10-1991 0122 & 0123 0122 & 0123 01.2	JACOBS ENGINEERING R. ROBERTSON R. ROBERTSON NAVFAC - SOUTHWEST DIVISION	10 JULY 1991 SITE INSPECTION IMPLEMENTATION KICK-OFF MEETING. ***COMMENTS: CLE-C01-01F122-I2-0002 & CLE-C01-01F123-I2-0002***	ADMIN RECORD	DRUMS GW HAZMAT PERMIT SB SI WATER		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000117 NONE LTR NONE 00009	10-13-1994 07-15-1991 NONE 01.1	NSY LONG T.G. AVGERINOS BUREAU OF SANITATION F. BAJINTING	INDUSTRIAL WASTEWATER SELF- MONITORING REPORT (SMR) - JUNE, 1991	ADMIN RECORD	MONITORING		PALLET 14 - SW04012902 IMAGED LBSY_002

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N60258 / 000712 SER N4/2185	11-17-1994 07-23-1991	NAVSTA LONG BEACH J.L. SNYDER	FINAL REVISED IR PROGRAM SI WORKPLAN & CA DHS COMMENTS & RCRA CROSS REF	ADMIN RECORD	COMMENTS IRP	001 002	SOUTHWEST DIVISION - BLDG. 1
LTR N68711-89-D-9296 00001	00017 03.3	J.L. SNYDER RWQCB J. ROSS			PERMIT RCRA SI	004 005 006A 009 010 013	PROBLEM SHELVING
N60258 / 000204 SWDIV SER 410/326	10-17-1994 08-07-1991	NSY LONG T.G. AVGERINOS	TRANSMITTAL OF INSTALLATION RESTORATION PROGRAM (IRP) REVISED FINAL SITE INSPECTION (SI) WORKPLAN	ADMIN RECORD	IRP RCRA	007B 008	SOUTHWEST DIVISION - BLDG. 12
LTR N68711-89-D-9296	00017 03.3	U.S. EPA C. DOUGLAS			RFI SI	009 010	12
00003						011 012	PALLET 14 - SW04021201 IMAGED LBSY_002
N60258 / 000205 SWDIV SER 410/327	10-17-1994 08-08-1991	NSY LONG T.G. AVGERINOS	TRANSMITTAL OF INSTALLATION RESTORATION PROGRAM (IRP) REVISED FINAL SITE INSPECTION (SI) WORKPLAN	ADMIN RECORD	IRP RCRA	007B 008	SOUTHWEST DIVISION - BLDG. 12
LTR N68711-89-D-9296	00017 03.3	RWQCB J. ROSS			RFI SI	009 010	12
00003						011 012	PALLET 14 - SW04021201 IMAGED LBSY_002
N60258 / 000206 NONE LTR NONE	10-17-1994 08-13-1991 NONE 03.3	DTSC M.S. SANDHU NSY PWC T. AVGERINOS	REVIEW OF RCRA FACILITY SITE INSPECTION WORK PLANS	ADMIN RECORD	HAZ WASTE IRP PCB RCRA		SOUTHWEST DIVISION - BLDG. 12
00011					RFI SI SWMU TANK UST		PALLET 14 - SW04021201 IMAGED LBSY_002

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N60258 / 000209 NONE	10-17-1994 08-29-1991	DTSC M.S. SANDHU	APPROVAL OF RCRA FACILITY SITE INSPECTION WORK PLANS. ***COMMENTS: TEST METHODS FOR EVAL SOLID WASTES (SW846) 3RD EDITION 11/86***	ADMIN RECORD	GW HAZMAT		SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE	NONE 03.3	EPA L. KAUFMAN			RCRA RFI		
00010					SI		
					TANK TCE TPH		PALLET 14 - SW04021201 IMAGED LBSY_002
N60258 / 000210 NONE	10-17-1994 08-30-1991	NAVFAC - SOUTHWEST DIVISION DIVISION L. GELDNER DTSC	MOBILIZATION AND FIELD WORK FOR AWARDED IMPLEMENTATION OF THE REVISED FINAL SI WORK PLANS	ADMIN RECORD	SI		SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE	NONE 03.3						
00001		M.S. SANDHU					PALLET 14 - SW04021201 IMAGED LBSY_002
N60258 / 000626 NONE LTR NONE 00001	10-31-1994 08-30-1991 NONE 01.1	DTSC J.J. ZARNOCH NSY/NAVSTA LB	RCRA FACILITY INVESTIGATION (RFI) FIELD WORK	ADMIN RECORD	LAB RCRA RFI		SOUTHWEST DIVISION - BLDG. 1
							POSSIBLE COMPLIANCE
N60258 / 000048 NONE MISC NONE 00004	10-05-1994 09-01-1991 NONE 10.0	LONG BEACH NAVAL COMPLEX PUBLIC	PAMPHLET 'ENVIRONMENTAL PROGRAMS AT LONG BEACH NAVAL COMPLEX'	ADMIN RECORD INFO REPOSITORY	FS HAZ WASTE HAZMAT IRP RI		SOUTHWEST DIVISION - BLDG. 12
							PALLET 14 - SW04012901 IMAGED LBSY_002

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N60258 / 000213 CLE-J02-01F149- S2-0001 S2-0001 RPT N68711-89-D-9296 00300	10-17-1994 09-11-1991 00149 00149 03.3	NAVFAC - SOUTHWEST DIVISION DIVISION	FINAL PHASE I RCRA FACILITIES INVESTIGATION (RFI) WORK PLAN FOR TANK FARM SITE NEAR BUILDING 303	ADMIN RECORD	DATA GW LAB MONITORING PERMIT QA QC RCRA RFI SB TANK		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021201 IMAGED LBSY_002
N60258 / 000708 PN-0122-I2 & PN- 0123-I2 0123-I2 MM NONE 00004	11-17-1994 09-17-1991 NONE NONE 01.2	JACOBS ENGINEERING	PRECONSTRUCTION MEETING DRILLING HARBOR SEDIMENT AND GROUNDWATER MONITORING WELLS SITE INSPECTION (SI) (HELD 09/10/91). ***COMMENTS: CLE- C01-01F122-I2-0006 & CLE-C01-01F123-I2-	ADMIN RECORD	GW H&SP HAZ WASTE LAB MONITORING SI WELLS		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000215 CLE-J01-01F129- B13-0001 RPT N68711-89-D-9296 00025	10-17-1994 09-25-1991 00129 03.3	NAVFAC - SOUTHWEST DIVISION V. ROBINSON NAVFAC - SOUTHWEST DIVISION DIVISION	SITE ASSESSMENT WORK PLAN UNDERGROUND STORAGE TANK STUDIES	ADMIN RECORD	LAB MONITORING SAP TANK UST WELLS		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - PALLET 14 - SW04021201 IMAGED LBSY_002
N60258 / 000662 NONE MEMO NONE 00002	11-04-1994 10-15-1991 NONE 10.1	CH2M HILL C. GARDINER NAVSTA LONG BEACH S. COX	COMMUNITY RELATIONS RECOMMENDATIONS	ADMIN RECORD	CRP IRP		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021203 IMAGED LBSY_003

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N60258 / 000664 NONE MEMO NONE 00036	11-04-1994 10-15-1991 NONE 10.1	CH2M HILL C. GARDINER NAVSTA LONG BEACH S. COX	TELEPHONE SURVEY SUMMARY	ADMIN RECORD	HAZ WASTE IRP		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000217 SER 410/441 LTR NONE 00012	10-17-1994 10-17-1991 NONE 03.3	NAVSTA/NSY LB T. AUGERINOS DTSC M.S. SANDHU	RESPONSE TO DTSC COMMENTS OF 13 AUGUST 1991 ON REVISED FINAL SITE INSPECTION (SI) WORK PLANS	ADMIN RECORD	COMMENTS FUEL LEAK PCB SI TANK UST		PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000673 NONE LTR NONE 00002	11-17-1994 11-06-1991 NONE 01.1	DTSC M.S. SANDHU NAVSTA/NSY LB	RCRA CORRECTIVE ACTION (EPA ID NO. CA6170023109)	ADMIN RECORD	CHAR FS GW MONITORING RCRA RFI RI WELLS		PALLET 14 - SW04021201 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 1 POSSIBLE COMPLIANCE
N60258 / 000383 NONE LTR NONE 00003	10-24-1994 11-19-1991 NONE 01.1	NAVSTA LONG BEACH J.L. SNYDER J.L. SNYDER NAVFAC - SOUTHWEST DIVISION CO	HYDROGEOLOGIC STUDIES REQUESTED BY DEPARTMENT OF TOXIC SUBSTANCES (DTSC)	ADMIN RECORD	HAR RCRA SI		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE

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N60258 / 000220 SWDIV SER 1823.AM/1587 LTR NONE 00001	10-17-1994 11-20-1991 NONE 03.0	A. MUCKERMAN DTSC J. ZARNOCH	ACKNOWLEDGEMENT OF RECEIPT OF 06 NOVEMBER 1991 LETTER REGARDING RCRA CORRECTIVE ACTION	ADMIN RECORD	RCRA		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000724 NONE TEL NONE 00002	11-21-1994 11-27-1991 NONE 01.1	J. LOVENBURG DEPT OF PUBLIC WORKS S. HALL	DEWATERING SALTWATER INJECTION WELLS	ADMIN RECORD	WELLS		PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000221 NONE TEL NONE 00002	10-17-1994 12-02-1991 NONE 01.1	J. LOVENBURG CITY OF LONG BEACH D. SANCHEZ	PERSONAL COMMUNICATION WITH DAVID SANCHEZ OF THE CITY OF LONG BEACH DEPARTMENT OF OIL AND GAS SALT WATER INJECTION WELLS	ADMIN RECORD	WELLS		PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000222 NONE TEL NONE 00004	10-17-1994 12-02-1991 NONE 01.1	J. LOVENBURG WOODWARD- CLYDE J. WAGNER	PERSONAL COMMUNICATION WITH JOHN WAGNER OF WOODWARD-CLYDE CONSULTANTS HYDROSTATIC RELIEF WELLS/MONITORING WELLS	ADMIN RECORD	MONITORING WELLS		PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022601 IMAGED LBSY_003

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N60258 / 000707 PN-0122-21 & PN-0123-21 MM NONE 00001	11-17-1994 12-10-1991 NONE NONE 01.4	JACOBS ENGINEERING NAVFAC - SOUTHWEST DIVISION R. ROBERTSON	STORAGE AND DISPOSAL OF INVESTIGATION GENERATED WASTE SITE INSPECTION (HELD 12/10/91). ***COMMENTS: CLE-C01-01F122-I3-0030 & CLE-C01-01F123-I3-0030***	ADMIN RECORD	HAZ WASTE SI		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000709 PN-0122-22 & PN-0123-22 0123-22 MM NONE 00004	11-17-1994 12-15-1991 00122/00123 00122/00123 01.2	JACOBS ENGINEERING NAVFAC - SOUTHWEST DIVISION R. ROBERTSON	COMMUNITY RELATIONS PLANNING, SITE INSPECTION (SI) REPORT & REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) SCOPING ISSUES. ***COMMENTS: CLE-C01-01F122-I2-0007 & CLE-C01-	ADMIN RECORD	CERCLA CRP FS LAB OU RI SI TRC		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000372 NONE MEMO NONE 00003	10-24-1994 12-23-1991 NONE 01.1	NAVFAC - SOUTHWEST DIVISION DIVISION A. MUCKERMAN CODE 182	TRIP REPORT FOR MEETING WITH DTSC 12/13/91 TO RESOLVE RCRA HAZARDOUS WASTE PERMIT CORRECTIVE ACTION ISSUES	ADMIN RECORD	CRP FS HAZ WASTE PERMIT RCRA RFI RI SI TRC WATER		POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000678 NONE LTR NONE 00001	11-17-1994 12-23-1991 NONE 03.3	NSY LONG T.G. AVGERINOS DTSC M.S. SANDHU	RESPONSE TO DTSC LETTER DATED 08/13/91 REGARDING RCRA FACILITY INVESTIGATION (RFI) WORKPLAN	ADMIN RECORD	RCRA RFI		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022601 IMAGED LBSY_003

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N60258 / 000226 NONE	10-17-1994 01-24-1992	APPLIED GEOSCIENCES J. SCHOEPP J. SCHOEPP LA HARBOR DEPARTMENT	TERMINAL ISLAND PRELIMINARY SITE ASSESSMENT FOR THE PRIMARY PROPERTY BORDERING THE SEAPLANE LAGOON	ADMIN RECORD	DATA HAZMAT		SOUTHWEST DIVISION - BLDG. 12
RPT NONE	NONE 01.3				PA TANK		12
00021					UST		
							PALLET 14 - SW04022601 IMAGED LBSY_003
N60258 / 000227 NONE	10-17-1994 01-24-1992	APPLIED GEOSCIENCES J. SCHOEPP J. SCHOEPP LA HARBOR DEPARTMENT	TERMINAL ISLAND PRELIMINARY SITE ASSESSMENT FOR THE SECONDARY PROPERTY BORDERING THE SEAPLANE LAGOON	ADMIN RECORD	DATA HAZMAT		SOUTHWEST DIVISION - BLDG. 12
RPT NONE	NONE 01.3				PA TANK		12
00009					UST		
							PALLET 14 - SW04022601 IMAGED LBSY_003
N60258 / 000370 NONE	10-24-1994 01-28-1992	JACOBS ENGINEERING	SITE INSPECTION REPORT STATUS UPDATE SITE INSPECTION (SI) (HELD 01/28/92)	ADMIN RECORD	DATA GW	003 006	SOUTHWEST DIVISION - BLDG. 12
MM N68711-89-D-9296 00003	00122 01.2				LAB PCB QC	009 010	12
					RFI RI SI SMP		PALLET 14 - SW04021202 IMAGED LBSY_002
N60258 / 000228 NONE	10-17-1994 01-29-1992	NAVFAC - SOUTHWEST DIVISION DIVISION A. MUCKERMAN DTSC	RESULTS OF A YEAR-LONG STUDY OF THE TYPES AND QUANTITIES OF MARINE LIFE CAPTURED IN DRY-DOCK DEWATERING OPERATIONS	ADMIN RECORD	WATER		SOUTHWEST DIVISION - BLDG. 1
LTR NONE	NONE 01.1						
00005		C. O'ROURKE					BNI - 12/11/03 BNI - 12/11/03

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N60258 / 000279 NONE	12-08-2003 02-01-1992		DRAFT GENERAL OVERVIEW SURVEY: ARCHITECTUAL, HISTORICAL, AND ARCHAEOLOGICAL PROPERTIES ON THE NAVAL SHIPYARD AND NAVAL STATION	ADMIN RECORD			SOUTHWEST DIVISION - BLDG. 1
RPT	NONE	NAVFAC - SOUTHWEST DIVISION	LONG BEACH				PROBLEM PROBLEM SHELVING
N68711-91-M-0334 00200							
N60258 / 000299 NONE RPT NONE	03-08-1995 02-01-1992 NONE 01.1	DON S.F. LOFTUS	NAVY/MARINE CORPS INSTALLATION RESTORATION MANUAL	ADMIN RECORD INFO REPOSITORY	BRAC FS H&SP IRP		SOUTHWEST DIVISION - BLDG. 12
00203					NEPA NPL PRP RA RCRA RD REMOVAL RI SARA		PALLET 14 - SW04021201 IMAGED LBSY_002
N60258 / 000230 EPA ID NO. CA6170023109 LTR NONE 00003	10-18-1994 02-10-1992 NONE 03.3	DTSC M.S. SANDHU NSY/NAVSTA LB T.G. AVGERINOS/J.L. SNYDER	RCRA CORRECTIVE ACTION (SECOND PHASE RFI WORKPLAN)	ADMIN RECORD	HAZ WASTE PERMIT RCRA RFI		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012902 IMAGED LBSY_002

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N60258 / 000749 181/920247 LTR NONE 00006	11-21-1994 03-12-1992 NONE 01.1	NAVFACENGCOM A. KATZ NAVFAC - SOUTHWEST DIVISION	OUTLINE FOR EXPEDITING THE INSTALLATION RESTORATION (IR) PROCESS	ADMIN RECORD	CERCLA FS IRP RA RI ROD SARA TRC		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000680 NONE LTR NONE 00001	11-17-1994 03-31-1992 NONE 01.1	DON N.W. CLEMENTS DTSC M.S. SANDHU	RCRA CORRECTIVE ACTIONS	ADMIN RECORD	RCRA		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE COMPLIANCE
N60258 / 000753 NONE MEMO NONE 00001	11-21-1994 04-01-1992 NONE 10.0	NAVSTA LONG BEACH J. SNYDER TRACEY	TRC REQUIREMENTS FOR MEMBERSHIP	ADMIN RECORD	IRP TRC		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000274 NONE LTR NONE 00010	12-08-2003 04-02-1992 00122	NAVSTA LONG BEACH J. SNYDER DTSC - LONG BEACH J. ZARNOCH	DECEMBER 1991 TO FEBRUARY 1992 SITE INSPECTION PROGRESS MONTHLY STATUS REPORTS	ADMIN RECORD INFO REPOSITORY	GW		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022601 IMAGED LBSY_003

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N60258 / 000706 SER 410/157	11-17-1994 04-07-1992	NSYLB J. SNYDER	INITIATION OF A MODIFICATION TO RCRA PERMIT COMPLIANCE SCHEDULE, EPA ID NO. CA 6170023109	ADMIN RECORD	CERCLA PERMIT		SOUTHWEST DIVISION - BLDG. 12
LTR NONE 00008	NONE 01.1	EPA/DTSC L. YOSHI, M. SANDHU			RCRA RFI SI		12
					SWMU		PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000786 NONE MEMO NONE	11-21-1994 04-13-1992 NONE 10.0	J.L. SNYDER DISTRIBUTION	TECHNICAL REVIEW COMMITTEE MEETING NOTICE	ADMIN RECORD	TRC		SOUTHWEST DIVISION - BLDG. 12
00001							
N60258 / 000235 NONE	10-18-1994 04-15-1992	PACIFIC E.R. MCFARLAND	WCN 76075A STUDY TO ANALYZE AND REPAIR LIQUID INDUSTRIAL WASTE SYSTEMS FOR DRY DOCKS 1,2,&3 FINAL SUBMITTAL DOCUMENTS {HANDWRITTEN NOTES}	ADMIN RECORD	COMMENTS COST		PALLET 14 - SW04022601 IMAGED LBSY_003
RPT NONE 00100	NONE 01.1	NAVFAC - EFA WEST P. KROESE			DATA LEAK MONITORING		SOUTHWEST DIVISION - BLDG. 1
					TANK		PROBLEM SHELVING

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N60258 / 000236 CLE-C01-01F123- B6-001 RPT N68711-89-D-9296 00150	10-18-1994 05-08-1992 00123 01.2	JACOBS ENGINEERING GROUP B. WONG NAVFAC - SOUTHWEST DIVISION DIVISION	DRAFT SITE INSPECTION (SI) REPORT (VOLUME I OF II) [SEE AR #237 - VOLUME II]	ADMIN RECORD	GW HAZ WASTE IAS IRP LAB MONITORING PERMIT QA QC RCRA RFA RFI SI TCE WELLS		SOUTHWEST DIVISION - BLDG. 1 PROBLEM SHELVING SHELVING
N60258 / 000237 CLE-C01-01F123- B6-001 RPT N68711-89-D-9296 00150	10-18-1994 05-08-1992 00123 01.2	JACOBS ENGINEERING GROUP B. WONG NAVFAC - SOUTHWEST DIVISION	DRAFT SITE INSPECTION (SI) REPORT (VOLUME II OF II) [SEE AR #236 - VOLUME I]	ADMIN RECORD	IRP MONITORING SB SI WELLS		SOUTHWEST DIVISION - BLDG. 1 PROBLEM SHELVING SHELVING
N60258 / 000286 NONE RPT RPT NONE 00004	01-23-2004 05-10-1992 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION A. MUCKERMAN NAVFAC - SOUTHWEST DIVISION	15 APRIL 1992 MEETING MINUTES FOR TECHNICAL REVIEW COMMITTEE (TRC) - ENCLOSED IS THE TRC FORMATION ACTION ITEM LIST	ADMIN RECORD INFO REPOSITORY	TRC		SOUTHWEST DIVISION - BLDG. 1

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N60258 / 000259 SER 410/222 RPT NONE 00008	05-01-2003 05-19-1992 NONE	DON - NSY LONG BEACH L. SMITH NAVFAC - SOUTHWEST DIVISION COMMANDER	INSTALLATION RESTORATION QUARTERLY REPORT WITH ENCLOSURES	ADMIN RECORD MISSING @ SWDIV			SOUTHWEST DIVISION - BLDG. 1
N60258 / 000705 SER 400/252 LTR NONE 00012	11-17-1994 05-29-1992 NONE 10.0	NAVSTA/NSY LB B. JANOV DISTRIBUTION	TECHNICAL REVIEW COMMITTEE (TRC) REQUEST FOR NOMINATION	ADMIN RECORD	IRP SARA TRC		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000240 NONE LTR NONE 00003	10-18-1994 06-02-1992 NONE 03.3	DTSC M.S. SANDHU NAVSTA/NSY LB J.L. SNYDER/L. SMITH	RCRA CORRECTION ACTION (SECOND PHASE RFI WORKPLAN - EPA ID NO. CA6170023109)	ADMIN RECORD	CHAR HAZ WASTE PERMIT RCRA RFI RI		PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000704 NONE LTR NONE 00002	11-17-1994 06-04-1992 NONE 10.0	WORLDPORT LA NAVFAC - SOUTHWEST DIVISION C. FOLEY	CITY OF LOS ANGELES HARBOR DEPT NOMINEE FOR TECHNICAL REVIEW COMMITTEE (TRC)	ADMIN RECORD	IRP TRC		PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12
							PALLET 14 - SW04021203 IMAGED LBSY_003

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N60258 / 000241 NONE RPT N68711-89-D-9296 00250	10-18-1994 06-05-1992 00126 01.1	NAVFAC - SOUTHWEST DIVISION DIVISION	AIR TOXICS EMISSIONS PROGRAM FINAL AIR TOXICS EMISSION INVENTORY REPORT (VOLUME II) (MISSING ENCL	ADMIN RECORD			SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING
N60258 / 000703 NONE LTR NONE 00002	11-17-1994 06-15-1992 NONE 10.0	CITY OF LONG BEACH J.C. HANKLA NAVSTA/NSY LB P. TRACEY	RECOMMENDATIONS FOR TECHNICAL REVIEW COMMITTEE (TRC)	ADMIN RECORD	TRC		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000602 NONE RPT NONE 00010	10-31-1994 06-29-1992 NONE 01.2		BRIEFING OF THE DRAFT SITE INSPECTION REPORT MEETING 6/29/92	ADMIN RECORD	DATA SI		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000702 PN-0122-28 & PN- 0123-28 0123-28 MM NONE 00012	11-17-1994 06-29-1992 00122 00122 01.2	JACOBS ENGINEERING NAVFAC - SOUTHWEST DIVISION	SITE INSPECTION REPORT BRIEFING MEETING CTO 122 AND CTO 123 SITE INSPECTION (HELD 06/29/92). ***COMMENTS: CLE-C01-01F122-I2-0011 & CLE-C01-01F123-I2-0011***	ADMIN RECORD	GW PA SI TRC	006B	PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04021203 IMAGED LBSY_003

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N60258 / 000360 NONE	10-24-1994 06-30-1992	NAVFAC - SOUTHWEST DIVISION	RESPONSE TO ISSUES RAISED REGARDING CORRECTIVE ACTION IN 11 JUN 92 LEGAL SERVICES REQUEST "PRIVILEGED AND CONFIDENTIAL". ***COMMENTS: HSC SECTION 25186; CCR TITLE 22 SECTION 66271.4; CCR TITLE 22 SECTION 66270.43(B)(1); CCR TITLE 22 SECTION 66270.41(B)(1); 40 CFR	ADMIN RECORD CONFIDENTIAL	CERCLA HAZ WASTE		SOUTHWEST DIVISION - BLDG. 1
MEMO NONE 00005	NONE 01.1	R. CALLAWAY CODE 1823.AM	270.43(A)(1); 40 CFR 270.41(B)(1); 40 CFR		PERMIT RCRA RFI RI SI SWMU		BNI - 12/11/03
N60258 / 000243 NONE LTR N68711-91-D-0253 00075	10-18-1994 07-13-1992 NONE 01.1	KENNEDY/JENKS R.B. THOMAS NAVFAC - SOUTHWEST DIVISION J. JOYCE	STUDY OF SULFIDE SOURCES DRAFT REPORT (VOLUME I)	ADMIN RECORD	LAB PERMIT TANK WATER		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000244 NONE LTR N68711-91-D-0253 00075	10-18-1994 07-13-1992 NONE 01.1	KENNEDY/JENKS R.B. THOMAS NAVFAC - SOUTHWEST DIVISION J. JOYCE	STUDY OF SULFIDE SOURCES DRAFT REPORT (VOLUME II)	ADMIN RECORD	LAB		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000247 PROJ. NO. 92-01- 6400 6400 RPT NONE 00012	10-18-1994 07-23-1992 NONE NONE 01.1	CHEMICAL WASTE MGMT POLA	ANALYTICAL REPORT SEAPLANE LAGOON (PIER 300) (MISSING ENCL: NO DRAWINGS WERE ATTACHED)	ADMIN RECORD	DATA MA QA QC TANK UST		SOUTHWEST DIVISION - BLDG. 1 PROBLEM SHELVING

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N60258 / 000711 NONE LTR NONE 00002	11-17-1994 07-27-1992 NONE 01.2	CA DEPT OF FISH & GAME J.L. TURNER NAVFAC - SOUTHWEST DIVISION A. MUCKERMAN	COMMENTS ON THE DRAFT SITE INSPECTION (SI) REPORTS	ADMIN RECORD	COMMENTS DATA GW HAZ WASTE SI		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000249 NSY SER N4/1253, PN-0122/123-29 PN-0122/123-29 LTR NONE 00016	10-18-1994 07-30-1992 00122 00122 10.4	NAVSTA/NSY LB I. JONES DISTRIBUTION DISTRIBUTION	TRANSMITTAL OF TECHNICAL REVIEW COMMITTEE (TRC) MEETING MINUTES CTO 122 AND CTO 123 SITE INSPECTION (SI). ***COMMENTS: CLE-C01-01F122/123-I2- 0012***	ADMIN RECORD	CERCLA DATA RCRA SI TRC	013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000781 NONE RPT NONE 00004	11-21-1994 07-30-1992 NONE 10.5		TECHNICAL REVIEW COMMITTEE (TRC) CHARTER	ADMIN RECORD	ARAR CERCLA DATA FS IRP RI SARA TRC		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021204 IMAGED LBSY_003

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N60258 / 000783 NONE	11-21-1994 07-30-1992		HANDOUT AND SIGN-IN SHEET FOR 7/30/92 TECHNICAL REVIEW COMMITTEE (TRC) MEETING	ADMIN RECORD	DATA GW HAZ WASTE IAS		SOUTHWEST DIVISION - BLDG. 12 12
RPT NONE	NONE 10.5				MONITORING		PALLET 14 - SW04021204 IMAGED LBSY_003
00049							
N60258 / 000633 NONE MISC NONE 00003	11-01-1994 08-04-1992 NONE 03.3		RCRA CORRECTION ACTION SCHEDULE MEETING - 08/04/92	ADMIN RECORD	BRAC CERCLA FS RCRA RFI RI SI SMP		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE COMPLIANCE
N60258 / 000248 NONE LTR NONE 00003	10-18-1994 08-14-1992 NONE 10.1	DTSC K.S. ANDERSEN NAVFAC - SOUTHWEST DIVISION A. MUCKERMAN	TRC FOLLOW-UP	ADMIN RECORD	COMMENTS RA TRC		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012902 IMAGED LBSY_002

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N60258 / 000250 SWDIV SER 1823.AM/2108 1823.AM/2108 LTR NONE 00010	10-18-1994 08-28-1992 NONE NONE 01.1	NAVFAC - SOUTHWEST DIVISION DIVISION A. MUCKERMAN NSY LONG COMMANDER	FOLLOW-UP MEETING WITH DTSC DATED 08/04/92 - INCLUDES DRAFT CONFIRMATION LETTER	ADMIN RECORD	BRAC DERA PERMIT RCRA SI SMP		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000251 NONE LTR NONE 00018	10-18-1994 08-28-1992 NONE 10.1	NAVFAC - SOUTHWEST DIVISION A. MUCKERMAN NSY LONG COMMANDER	FOLLOW-UP TO TECHNICAL REVIEW COMM. MTG OF 7/30/92	ADMIN RECORD	COMMENTS RCRA SI TRC		 PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000252 NONE LTR NONE 00009	10-18-1994 08-31-1992 NONE 01.2	DTSC J.J. ZARNOCH NAVSTA/NSY LB KLEVEN	REVIEW OF DRAFT RCRA RFI SITE INSPECTION REPORTS & DRAFT PHASE 1 RFI REPORT FOR TANK FARM AREA NEAR BUILDING 303	ADMIN RECORD	GW HAZ WASTE IRP PERMIT RCRA RFI SI		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000255 NONE LTR NONE 00008	10-18-1994 09-04-1992 NONE 01.4	NAVSTA LONG BEACH I.J. JONES I.J. JONES DTSC M. SANDHU	TRANSMITTAL OF RCRA CORRECTIVE ACTION MTG OF 4 AUG 92 AT THE DEPARTMENT OF TOXIC SUBSTANCE CONTROL (DTSC), REGION 4	ADMIN RECORD	DERA PERMIT RCRA RFI SI SMP		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002

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N60258 / 000676 SWDIV SER 1832.AM/2175 LTR NONE 00001	11-17-1994 10-06-1992 NONE NONE 04.0	NAVFAC - SOUTHWEST DIVISION DIVISION C.A. KOTAS NCCOSC COMMANDING OFFICER	DESCRIPTION OF WORK REQUESTED FOR THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) HARBOR SEDIMENT SITES	ADMIN RECORD	FS RI		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000829 NONE MISC N68711-92-D-4670 00004	11-16-1995 10-09-1992 00017 10.0	NAVFAC - SOUTHWEST DIVISION	INSTALLATION RESTORATION PROGRAM HISTORY	ADMIN RECORD	HISTORIC IAS IRP RFA TCE		PALLET 14 - SW04022601 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000800 NONE FAX NONE 00002	11-21-1994 10-22-1992 NONE 01.3	W.F. SANDZA DISTRIBUTION	PRELIMINARY ENDANGERMENT ASSESSMENT (PEA) CAMPEN	ADMIN RECORD CONFIDENTIAL	ARAR FFSRA PEA RISK		BNI - 12/11/03
N60258 / 000734 NONE LTR NONE 00011	11-21-1994 10-26-1992 NONE 02.0	NSY LONG L.H. SMITH TIDELANDS OIL M. SHEMARIA	CONFIRMATION OF CONVERSATION REGARDING TIDELANDS STORAGE OF PETROLEUM CONTAMINATED SOIL ON NAVY PROPERTY	ADMIN RECORD	REMOVAL SAP WELLS		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE COMPLIANCE

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N60258 / 000261 NONE RPT NONE 00021	10-18-1994 10-28-1992 NONE 01.1	PORT OF LONG BEACH	PORT OF LONG BEACH PRESENTATION TO THE DTSC REGARDING FUTURE DEVELOPMENT OF UPRC PARCEL 1 BY THE PORT OF LONG BEACH	ADMIN RECORD	DATA GW		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000362 NONE LTR N68711-89-D-9296 00002	10-24-1994 10-28-1992 00149 01.1	RWQCB J.E. ROSS NAVFAC - SOUTHWEST DIVISION A. MUCKERMAN	COMMENTS TO TANK FARM AREA NEAR BUILDING 303 DRAFT FINAL PHASE I RCRA FACILITY INVESTIGATION REPORT	ADMIN RECORD	COMMENTS GW HAZ WASTE LAB RCRA RFI TANK		POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000701 NONE LTR NONE 00012	11-17-1994 10-28-1992 00022 10.2	NAVFAC - SOUTHWEST DIVISION A. MUCKERMAN Y. KIM	COMMUNITY RELATIONS PLAN (CRP) AND QUARTERLY REPORT	ADMIN RECORD	CRP FS H&SP IRP RI TRC		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000777 CLE-C01-01F226-I2- 0005 & PN-0226-07 MM NONE 00004	11-21-1994 11-02-1992 00226 01.1	JACOBS ENGINEERING P. TORREY NAVFAC - SOUTHWEST DIVISION	SITE MANAGEMENT PLAN (SMP) LAND USE MEETING NO. 1	ADMIN RECORD	BRAC SMP	001 002 003 004 005 006 006B	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - PALLET 14 - SW04021204 IMAGED LBSY_003

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N60258 / 000263 NONE LTR	12-08-2003 11-06-1992 NONE	NAVFAC - SOUTHWEST DIVISION A. MUCKERMAN	TEAM BUILDING FOLLOW UP AND FUTURE MEETING SCHEDULE	ADMIN RECORD INFO REPOSITORY	FS RA RI		SOUTHWEST DIVISION - BLDG. 12
NONE							
00019							
							PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000264 NONE RPT RPT N68711-89-D-9296	10-18-1994 11-14-1992 00123 00123 01.2	JACOBS ENGINEERING GROUP GROUP NAVFAC - SOUTHWEST DIVISION	FINAL SITE INSPECTION (SI) REPORT (VOLUME I) - INCLUDES RESPONSE TO COMMENTS ON DRAFT VERSION	ADMIN RECORD INFO REPOSITORY REPOSITORY	DATA GW IRP MONITORING		SOUTHWEST DIVISION - BLDG. 12
00353					PA RI SI WELLS		PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000265 NONE RPT N68711-89-D-9296	10-18-1994 11-14-1992 00123 01.2	JACOBS ENGINEERING GROUP NAVFAC - SOUTHWEST DIVISION	FINAL SITE INSPECTION (SI) REPORT (VOLUME II)	ADMIN RECORD INFO REPOSITORY	IRP MONITORING SB SI		SOUTHWEST DIVISION - BLDG. 12
00391					WELLS		PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000675 NONE	11-17-1994 11-17-1992	TIDELANDS OIL W.T. SMITH	ACKNOWLEDGEMENT OF NSY LETTER & ASSURANCE THAT THEY WILL MAINTAIN ENVIRONMENTAL SOUND OPERATIONS	ADMIN RECORD	CERCLA HAZ WASTE		SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 01.1	NSY LONG L.H. SMITH			RCRA		12
00002							PALLET 14 - SW04022601 IMAGED LBSY_003

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N60258 / 000369 NONE	10-24-1994 11-20-1992	JACOBS ENGINEERING	INITIAL SCOPING MEETING REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORK PLANS. ***COMMENTS: CLE-C01-01F249-I2-0002 & CLE-C01-01F250-	ADMIN RECORD	ARAR FS		SOUTHWEST DIVISION - BLDG. 12 12
MM NONE 00006	NONE 04.3	NAVFAC - SOUTHWEST DIVISION			GC/MS OU PA PCB RA RCRA RI SMP WATER		PALLET 14 - SW04021202 IMAGED LBSY_002
N60258 / 000742 PN-0249/250-06 & CLE-C01- 01F249/250-I2-0004	11-21-1994 12-14-1992 00249, 00250 00249, 00250 10.0	JACOBS ENGINEERING C. FLAGG C. FLAGG NAVFAC - SOUTHWEST DIVISION	14 DECEMBER 1992 COMMUNITY RELATIONS MEETING MINUTES - INCLUDES AGENDA AND PROSED OUTLINE FOR THE COMMUNITY	ADMIN RECORD	CRP TRC		SOUTHWEST DIVISION - BLDG. 12 12
MM NONE 00006							PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000266 NONE	10-18-1994 12-17-1992	KENNEDY/JENKS CONSUL R.L. DOOLY R.L. DOOLY NAVFAC - SOUTHWEST DIVISION	INDUSTRIAL WASTEWATER AND INDUSTRIAL WASTE TREATMENT PLANT CONTROL AND MANAGEMENT PLAN. ***COMMENTS: LARWWQCB NPDES #CA 0003786; INDUSTRIAL WASTEWATER	ADMIN RECORD	H&SP PERMIT		SOUTHWEST DIVISION - BLDG. 1
LTR N68711-91-D-0253 00350	NONE 01.1	NAVFAC - SOUTHWEST DIVISION R. CAMPANA	PERMIT W-426223 AMENDED 8/25/92***		SMP WMP		POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000271 NONE	10-18-1994 12-17-1992	JACOBS ENGINEERING	PORTS TECHNICAL EXCHANGE MEETING SITE MANAGEMENT PLAN (SMP) (HELD 12/11/92)	ADMIN RECORD	FS HAZ WASTE		SOUTHWEST DIVISION - BLDG. 12 12
MM NONE 00005	00226 01.1				IRP RCRA RI SMP		PALLET 14 - SW04012902 IMAGED LBSY_002

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N60258 / 000751 PN-0249/250-05 & CLE-C01- CLE-C01- 01F249/250-I2-0003 MM NONE 00013	11-21-1994 12-17-1992 00249, 00250 00249, 00250 04.3 04.3	JACOBS ENGINEERING K. BREWER K. BREWER NAVFAC - NAVFAC - SOUTHWEST DIVISION	17 DECEMBER 1992 CONCEPTUAL MODEL REVIEW MEETING MINUTES FOR THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORK PLANS	ADMIN RECORD	ARAR FS GW IAS OU PA PRG RA RI SI	006B	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000272 NONE LTR NONE 00002	10-18-1994 12-18-1992 NONE 01.1	NAVFAC - SOUTHWEST DIVISION F.P. ALJABI NAVSTA/NSY LB	PERMIT PART 'B' MODIFICATION	ADMIN RECORD	HAZ WASTE PERMIT TANK UST		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000728 NONE TEL NONE 00002	11-21-1994 12-28-1992 NONE 01.1	J. FRIEDMAN SCE D. JOHNS	SCE LONG BEACH DEWATERING SYSTEM	ADMIN RECORD	PERMIT WELLS		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021203 IMAGED LBSY_003

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N60258 / 000275 NONE	10-18-1994 12-30-1992	NAVFAC - SOUTHWEST DIVISION	TANK FARM AREA NEAR BUILDING 303 FINAL PHASE I RCRA FACILITY INVESTIGATION (RFI) REPORT.	ADMIN RECORD	CERCLA DATA		SOUTHWEST DIVISION - BLDG. 1
RPT N68711-89-D-9296	00186 01.1	DIVISION	***COMMENTS: RFI GUIDANCE, EPA, MAY 1989, VOLUME 1, PAGE XIX***		GW LAB		
00300					RCRA		POSSIBLE POSSIBLE COMPLIANCE
					RFI RI SWMU TANK WATER		
N60258 / 000672 NONE	11-17-1994 12-31-1992	DTSC D.R. REGE	FOLLOWUP LETTER REGARDING RCRA CORRECTIVE ACTION/UNDERGROUND STORAGE TANK (EPA ID NO. CA6170023109)	ADMIN RECORD	CHAR RCRA		SOUTHWEST DIVISION - BLDG. 1
LTR NONE 00003	NONE 01.1	NAVSTA/NSY LB			TANK UST		POSSIBLE COMPLIANCE
N60258 / 000277 SWDIV SER 1823.AM/2351	10-18-1994 01-04-1993 NONE NONE 01.1	NAVFAC - SOUTHWEST DIVISION DIVISION A. MUCKERMAN DTSC C. O'ROURKE	RESULTS OF A YEAR-LONG STUDY OF TYPES AND QUANTITIES OF MARINE LIFE CAPTURED IN DRY-DOCK DEWATERING OPERATIONS	ADMIN RECORD	DATA PERMIT		SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE 00005							PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000727 NONE	11-21-1994 01-05-1993	UNION PACIFIC J. BRAUN	PERSONAL CONVERSATION WITH JACK BRAUN, UNION PACIFIC RESOURCES, INC REGARDING DEWATER SYSTEM ON UPRI PROPERTY	ADMIN RECORD	PERMIT WATER		SOUTHWEST DIVISION - BLDG. 12 12
TEL NONE	NONE 01.1	J. FRIEDMAN					
00002							PALLET 14 - SW04021203 IMAGED LBSY_003

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N60258 / 000799 NONE MEMO NONE 00008	11-21-1994 01-08-1993 NONE 04.1	R. CALLAWAY CODE 1823.AM	STATE ARAR IDENTIFICATION LETTER "PRIVILEGED AND CONFIDENTIAL"	ADMIN RECORD CONFIDENTIAL	ARAR CERCLA FS RCRA RFI RI SWMU		SOUTHWEST DIVISION - BLDG. 1 BNI - 12/11/03
N60258 / 000681 NONE LTR NONE 00003	11-17-1994 01-13-1993 NONE 04.1	NAVSTA/NSY LB DTSC C O'ROURKE	REQUEST TO IDENTIFY POTENTIAL STATE CONTAMINANT-SPECIFIC AND LOCATION- SPECIFIC ARAR'S FOR SWMU'S	ADMIN RECORD	ARAR IAS IRP RFI SWMU		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE COMPLIANCE
N60258 / 000750 PN-0249/250-11 & CLE-C01- CLE-C01- 01F249/250-I2-0005 MM NONE 00009	11-21-1994 01-26-1993 00249, 00250 00249, 00250 04.3 04.3	JACOBS ENGINEERING K. BREWER K. BREWER NAVFAC - NAVFAC - SOUTHWEST DIVISION	26-27 JANUARY 1993 INITIAL EVALUATION REVIEW MEETING MINUTES FOR THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORK PLANS - INCLUDES FOLLOWUP ACTIONS AND SIGN-IN	ADMIN RECORD	ARAR FS GW PA PCB RI		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000280 NONE LTR NONE 00001	10-18-1994 01-29-1993 NONE 01.1	NAVFAC - SOUTHWEST DIVISION F. ALJABI NSY LONG	RCRA PART 'B' PERMIT MODIFICATION	ADMIN RECORD	COMMENTS PERMIT RCRA		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE

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N60258 / 000754 PN-0226-I2 & CLE- C01-01F226-I2-0009 C01-01F226-I2-0009 MM NONE 00004	11-21-1994 02-03-1993 00226 00226 03.3	JACOBS ENGINEERING P. TORREY P. TORREY NAVFAC - SOUTHWEST DIVISION	03 FEBRUARY 1993 MEETING MINUTES FOR THE PARTNERING MEETING NO. 1 SITE MANAGEMENT PLAN (SMP)	ADMIN RECORD	CA CERCLA FS IRP MTG MINS PERMIT RCRA RI SMP SWMU TANK UST		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000741 SWDIV SER 1852.MP/2418 LTR NONE 00010	11-21-1994 02-05-1993 NONE 10.1	NAVFAC - SOUTHWEST DIVISION J. PAWLISCH DTSC J. HINTON	OPENING OF TECHNICAL REVIEW COMMITTEE (TRC) MEETINGS TO THE GENERAL PUBLIC	ADMIN RECORD	CERCLA TRC		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000748 NONE LTR NONE 00002	11-21-1994 02-09-1993 NONE 01.1	POLB G. KNATZ NAVFAC - SOUTHWEST DIVISION A. MUCKERMAN	USE OF A RESIDENTIAL SCENARIO TO DEFINE RISK ASSESSMENT SCREENING CRITERIA	ADMIN RECORD	FS RI RISK		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021203 IMAGED LBSY_003

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N60258 / 000729 NONE	11-21-1994 02-18-1993	DTSC C.A. O'ROURKE	COMMENTS ON RISK ASSESSMENT PORTION OF THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORK PLAN	ADMIN RECORD	COMMENTS FS		SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 04.3	NAVFAC - SOUTHWEST DIVISION			RI RISK		12
00004		A. MUCKERMAN			WORK PLAN		PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000367 NONE	10-24-1994 02-19-1993	BROWN AND CALDWELL	PERMIT MODIFICATION DOCUMENT MODIFICATIONS TO RCRA PART A AND PART B PERMIT. ***COMMENTS: 40 CFR; 22 CCR 66270.40 THROUGH 66270.42; 22 CCR 66271.9(C)(1)(E); 9/18/89 OPER PLAN	ADMIN RECORD	HAZ WASTE PERMIT		SOUTHWEST DIVISION - BLDG. 1
RPT NONE	NONE 01.1	NAVFAC - SOUTHWEST DIVISION	FOR HAZ WASTE STORAGE FACILITY @ BLDG 314; 22 CCR; 57 FR 32726, ET SEQ***		PUBNOT RCRA		POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000755 NONE FAX NONE	11-21-1994 02-24-1993 NONE 01.1	NAVFAC - SOUTHWEST DIVISION A. MUCKERMAN NAVSTA LONG BEACH J. SNYDER	CORRECTIVE ACTION SCHEDULE (CAS)	ADMIN RECORD	PERMIT		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000746 PN-0249/250-16 & CLE-C01- CLE-C01-	11-21-1994 03-02-1993 00249, 00250 00249, 00250 04.3	JACOBS ENGINEERING K. BREWER K. BREWER NAVFAC - NAVFAC - SOUTHWEST DIVISION	02-03 MARCH 1993 MEETING MINUTES FOR THE REMEDIAL INVESTIGATION/ FEASIBILITY STUDY (RI/FS) WORK PLAN DATA QUALITY OBJECTIVES (DQO'S) REVIEW MEETING	ADMIN RECORD	CHAR FS	001 002	PALLET 14 - SW04021203 IMAGED LBSY_003
01F249/250-I2-0007 MM NONE 00020	04.3				GW MONITORING	003 006	SOUTHWEST DIVISION - BLDG. 12
					MTG MINS RI WELLS	007 009 010 011 012 015 016	PALLET 14 - SW04021203 IMAGED LBSY_003

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N60258 / 000366 NONE	10-24-1994 03-05-1993	NSY LONG J.R. PFEIFFER	PUBLIC NOTICE (EPA ID NO. CA6170023109). ***COMMENTS: HSC CHAPTER 6.5; TITLE 22 CCR SECTIONS 66270.42 THROUGH 66270.43; 22CCR CHAPTER 20 APPENDIX I***	ADMIN RECORD	COMMENTS HAZ WASTE		SOUTHWEST DIVISION - BLDG. 1
LTR NONE 00003	NONE 10.0	INTERESTED PARTY			PERMIT PUBNOT RCRA		POSSIBLE COMPLIANCE
N60258 / 000283 NONE MEMO NONE 00004	10-18-1994 03-08-1993 NONE 01.0	B. FISHER NAVFAC - SOUTHWEST DIVISION A. MUCKERMAN	ECOLOGICAL RISK ASSESSMENT	ADMIN RECORD	DATA ERA RISK		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000284 10-874-14	10-18-1994 03-08-1993	SCHAEFER	FINAL PRELIMINARY SITE ASSESSMENT REPORT FOR THE PROPOSED DRY BULK HANDLING FACILITY PIER 300	ADMIN RECORD	CHAR DATA		PALLET 14 - SW04021201 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
RPT NONE 00022	NONE 01.3	POLA			GW HAZMAT		12
					HISTORIC		
N60258 / 000632 SWDIV SER 1823.JE/2519	11-01-1994 03-11-1993 NONE NONE 10.0	NAVFAC - SOUTHWEST DIVISION DIVISION J. PAWLISCH DTSC J. HINTON	MEETING NOTICE TO DISCUSS ROLES AND RESPONSIBILITIES ASSOCIATED WITH TECHNICAL REVIEW COMMITTEE MEETINGS	ADMIN RECORD	TRC		PALLET 14 - SW04021201 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
LTR NONE 00004							12
							PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000730 NONE MEMO NONE 00001	11-21-1994 03-12-1993 NONE 01.1	B. FISHER NAVFAC - SOUTHWEST DIVISION A. MUCKERMAN	NECROPSY OF FISH TRAPPED IN LONG BEACH DRYDOCKS	ADMIN RECORD			SOUTHWEST DIVISION - BLDG. 12
N60258 / 000679 NONE MEMO NONE 00011	11-17-1994 03-18-1993 NONE 01.1	NAVFAC - SOUTHWEST DIVISION A. MUCKERMAN NSY LONG A. ULASZEWSKI	RCRA CORRECTIVE ACTION SCHEDULE: ADDENDUM TO PERMIT MODIFICATION	ADMIN RECORD	PERMIT RCRA		PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000775 CLE-C01- 01F249/250-I2-0010 01F249/250-I2-0010 & PN-0249/250-22 MM NONE 00009	11-21-1994 03-19-1993 00249, 00250 00249, 00250 04.3 04.3	JACOBS ENGINEERING K. BREWER K. BREWER NAVFAC - NAVFAC - SOUTHWEST DIVISION	REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORK PLANS DATA QUALITY OBJECTIVES FOR SITE 4	ADMIN RECORD	CHAR FS GW PCB RI VOC WATER	004	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021204 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000380 NONE LTR NONE 00008	10-24-1994 03-22-1993 NONE 03.0	NAVSTA/NSY LB J.L. SNYDER EPA C. O'ROURKE	MODIFICATION TO SECTION IX.J OF THE CORRECTIVE ACTION COMPLIANCE SCHEDULE IN THE PART B PERMIT. ***COMMENTS: TITLE 22 CA CODE OF REGS SECTION 66270.41(A)(4)***	ADMIN RECORD	BRAC FFSRA PERMIT RCRA		POSSIBLE COMPLIANCE

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N60258 / 000776 NONE MEMO NONE 00004	11-21-1994 03-22-1993 NONE 01.1	NAVFAC - SOUTHWEST DIVISION A. MUCKERMAN DISTRIBUTION	RCRA ENFORCEMENT	ADMIN RECORD	CERCLA FS PERMIT RCRA RFI RI SWMU		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021204 IMAGED LBSY_003
N60258 / 000778 NONE LTR NONE 00017	11-21-1994 03-29-1993 NONE 10.0	DTSC C. BEST NAVFAC - SOUTHWEST DIVISION A. MUCKERMAN	DRAFT SUMMARY OF COMMUNITY CONCERNS	ADMIN RECORD	CERCLA CRP IRP PCB SARA TANK UST		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021204 IMAGED LBSY_003

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N60258 / 000365 NONE	10-24-1994 04-08-1993		HANDOUT FROM PUBLIC MEETING ON HAZARDOUS WASTE STORAGE FACILITY PERMIT MODIFICATION	ADMIN RECORD	COMMENTS HAZ WASTE PERMIT		SOUTHWEST DIVISION - BLDG. 1
MISC NONE 00007	NONE 00.0						POSSIBLE COMPLIANCE
N60258 / 000630 NONE	10-31-1994 04-18-1993	JACOBS ENGINEERING K. BREWER K. BREWER	TECHNICAL REVIEW COMMITTEE PLANNING MEETING REMEDIAL INVESTIGATION/ FEASIBILITY STUDY	ADMIN RECORD	FS IRP RI TRC		SOUTHWEST DIVISION - BLDG. 12 12
MM N68711-89-D-9296 00004	NONE 04.0	NAVFAC - SOUTHWEST DIVISION					PALLET 14 - SW04021202 IMAGED LBSY_003
N60258 / 000774 CLE-C01- 01F249/250-I2-0011	11-21-1994 04-20-1993 00249, 00250 10.0	JACOBS ENGINEERING C. FLAGG NAVFAC - NAVFAC - SOUTHWEST DIVISION	COMMUNITY RELATIONS MEETING	ADMIN RECORD	COMMENTS FS IRP RI		SOUTHWEST DIVISION - BLDG. 12
& PN-0249/250-03 MM NONE 00003	10.0				TRC		PALLET 14 - SW04021204 IMAGED LBSY_003
N60258 / 001118 CLE-C01- 01F249/250-B3-0001	02-10-2005 04-20-1993 249/250 249/250	NAVFAC - SOUTHWEST DIVISION DIVISION	DRAFT COMMUNITY RELATIONS PLAN FOR THE INSTALLATION RESTORATION PROGRAM AT NAVAL COMPLEX LONG BEACH (DOCUMENT PERTAINS TO MULTIPLE BASES)	ADMIN RECORD	IRP TCE		SOUTHWEST DIVISION - BLDG. 1
MISC N68711-89-D-9296 00100		NAVAL COMPLEX - LONG BEACH					

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N60258 / 000601 NONE LTR NONE 00001	10-31-1994 04-22-1993 NONE 10.3	DTSC R.M. SENG DISTRIBUTION	PROPOSED NEGATIVE DECLARATION ON PERMIT MODIFICATIONS	ADMIN RECORD	COMMENTS PERMIT PUBNOT		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE COMPLIANCE
N60258 / 000287 NONE MISC NONE 00016	10-18-1994 04-23-1993 NONE 10.0		TECHNICAL REVIEW COMMITTEE MEMBER MAILING LIST	ADMIN RECORD CONFIDENTIAL	TRC		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021201 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000743 NONE MEMO NONE 00002	11-21-1994 04-26-1993 NONE 10.6	NAVSTA LONG BEACH J.L. SNYDER CH2M HIL C. FLAGG	COMMENTS ON COMMUNITY RELATIONS PLAN (CRP) FACT SHEET)	ADMIN RECORD	COMMENTS CRP FS RI RISK		PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000379 NONE LTR NONE 00003	10-24-1994 04-27-1993 NONE 10.3	NAVSTA/NSY LB B. JANOV SIR/MADAM	NOTICE OF TECHNICAL REVIEW COMMITTEE (TRC) MEETING REGARDING INSTALLATION PROGRAM 5/25/93	ADMIN RECORD	FS RI TRC		PROBLEM SHELVING

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N60258 / 000803 NONE	11-21-1994 04-29-1993	CODE N4 - CIVIL ENGINEERING J. SNYDER	REQUEST FOR ASSISTANCE IN ADMITTING PEOPLE TO THE 25 MAY 1993 TECHNICAL REVIEW COMMITTEE (TRC) MEETING	ADMIN RECORD CONFIDENTIAL	IRP TRC		SOUTHWEST DIVISION - BLDG. 12 12
MEMO NONE	NONE 10.3	J. SNYDER CODE N2 - SECURITY OFFICER					
00006							PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000288 CLE-C01-01F250- B5-0001 B5-0001 RPT N68711-89-D-9296	10-18-1994 04-30-1993 00250 00250 03.1	JACOBS ENGINEERING G. GUHA G. GUHA NAVFAC - SOUTHWEST DIVISION	REMEDIAL INVESTIGATION FEASIBILITY STUDY (RI/FS) DRAFT SAMPLING AND ANALYSIS PLAN (SAP) - INCLUDES QUALITY ASSURANCE PROJECT PLAN (QAPP) AND HEALTH AND SAFETY PLAN (HSP). ***COMMENTS: MISSING APPENDIX B - HEALTH AND SAFETY PLAN (NOT RECEIVED IN AR)***	ADMIN RECORD	FS GW H&SP IRP MONITORING		PROBLEM FILE CABINET CABINET
00200					PERMIT QA QAPP QC RI SAP WELLS		
N60258 / 000289 CLE-C01-01F250- B7-0001 B7-0001 RPT N68711-89-D-9296	10-18-1994 04-30-1993 00250 00250 04.3	JACOBS ENGINEERING GROUP GROUP G. GUHA NAVFAC - SOUTHWEST DIVISION DIVISION	DRAFT REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORK PLAN	ADMIN RECORD	CHAR DATA FS GW IAS		SOUTHWEST DIVISION - BLDG. 1
00250					IRP OU RA REMOVAL RFA RFI RI RISK SI WORK PLAN		PROBLEM SHELVING SHELVING

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N60258 / 000804 SER 100/09 LTR NONE 00008	11-21-1994 04-30-1993 NONE 10.3	NAVSTA/NSY LB I. JONES DISTRIBUTION	TECHNICAL REVIEW COMMITTEE (TRC) MEETING INVITATION TO 05/25/93 MEETING (PORTION OF MAILING LIST IS CONFIDENTIAL)	ADMIN RECORD CONFIDENTIAL	IRP TRC		SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000801 NONE FAX NONE 00021	11-21-1994 05-10-1993 NONE 10.0	DTSC C. BEST NAVSTA LONG BEACH D. ROLLEFSON	PROJECT MAILING LIST	ADMIN RECORD CONFIDENTIAL	TRC		PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000671 NONE LTR NONE 00005	11-17-1994 05-14-1993 NONE 04.3	SCAQMD W.C. THOMPSON NAVFAC - SOUTHWEST DIVISION A. MUCKERMAN	COMMENTS TO DRAFT REMEDIAL INVESTIGATION/FEASIBILITY STUDY	ADMIN RECORD	ARAR CERCLA COMMENTS FS PERMIT RI VOC		PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000772 NONE FAX NONE 00004	11-21-1994 05-14-1993 NONE 10.2	DTSC C. BEST NAVSTA LONG BEACH D. ROLLEFSON	COMMUNITY RELATIONS PLAN (CRP) REVIEWER'S CHECKLIST	ADMIN RECORD	CRP		PALLET 14 - SW04021204 IMAGED LBSY_003

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N60258 / 000773 NONE	11-21-1994 05-14-1993	DTSC C. BEST	CRITERIA TO BE USED IN THE PUBLIC PARTICIPATION PLAN (NOW KNOWN AS THE COMMUNITY RELATIONS PLAN (CRP))	ADMIN RECORD	CRP FS RI		SOUTHWEST DIVISION - BLDG. 12 12
FAX NONE 00005	NONE 10.2	NAVSTA LONG BEACH D. ROLLEFSON					PALLET 14 - SW04021204 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000292 NONE	10-18-1994 05-16-1993	CA DEPT OF FISH & GAME J. MARTIN J. MARTIN NAVFAC - SOUTHWEST DIVISION A. MUCKERMAN	COMMENTS ON DRAFT REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORKPLANS	ADMIN RECORD	ARAR COMMENTS FS GW IRP PCB RI SI		PROBLEM PROBLEM SHELVING
N60258 / 000700 NONE MEMO NONE 00002	11-17-1994 05-17-1993 NONE 10.6	NAVSTA LONG BEACH J.L. SNYDER NAVFAC - SOUTHWEST DIVISION	COMMENTS ON FACT SHEET RECEIVED 04/30/93	ADMIN RECORD	COMMENTS		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000738 PN-0249/250-27 & CLE-C01- CLE-C01- 01F249/250-I2-0013 MM NONE 00002	11-21-1994 05-18-1993 00249/250 00249/250 10.0 10.0	JACOBS ENGINEERING K. BREWER K. BREWER NAVFAC - NAVFAC - SOUTHWEST DIVISION	TECHNICAL REVIEW COMMITTEE (TRC) PLANNING MEETING REMEDIAL INVESTIGATION/ FEASIBILITY STUDY	ADMIN RECORD	FS IRP RCRA RI TRC	003 007 011	PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021203 IMAGED LBSY_003

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N60258 / 000378 NONE	10-24-1994 05-25-1993	DTSC C. BEST	REVIEW OF DRAFT PUBLIC PARTICIPATION PLAN. ***COMMENTS: DRAFT PUBLIC PARTICIPATION PLAN WAS NOT SUBMITTED TO ADMINISTRATIVE RECORDS.***	ADMIN RECORD	CERCLA COMMENTS SARA		SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE 00002	NONE 10.0	CIVIL ENGINEER CORPS J.L. SNYDER					PALLET 14 - SW04021202 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000697 NONE	11-17-1994 05-25-1993	NAVSTA/NSY LB B. JANOV	TECHNICAL REVIEW COMMITTEE (TRC) MEETING SUMMARY FOR MEETING DATED 05/25/93	ADMIN RECORD	FS IRP RI SAP		PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE 00005	NONE 10.5	SIR/MADAM I. JONES			TRC		
N60258 / 000737 PN-0249/250-31 & CLE-C01- CLE-C01- 01F249/250-I2-0015 MM NONE 00007	11-21-1994 05-25-1993 00249/250 00249/250 10.0 10.0	JACOBS ENGINEERING K. BREWER K. BREWER NAVFAC - NAVFAC - SOUTHWEST DIVISION	TECHNICAL REVIEW COMMITTEE (TRC) MEETING REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORK PLANS	ADMIN RECORD	CHAR FS IRP RI SAP TRC VOC	003 007 011	PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021203 IMAGED LBSY_003

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N60258 / 000739 NONE	11-21-1994 05-25-1993		TECHNICAL REVIEW COMMITTEE (TRC) MEETING AGENDA, ROSTER, AND HANDOUT FOR 05/25/93 MEETING	ADMIN RECORD	TRC	001 002	SOUTHWEST DIVISION - BLDG. 12
MISC NONE	NONE 10.5					003 004	12
00029						005	
						006A 007 008 009 010 011 012 013	PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000771 PN-0249/0250-30 CLE-C01- CLE-C01- 01F249/250-I2-0014 MM NONE 00002	11-21-1994 05-25-1993 00249, 00250 00249, 00250 04.3 04.3	JACOBS ENGINEERING K. BREWER K. BREWER	REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORK PLAN PLANNING FOR 25 MAY 1993 PUBLIC MEETING	ADMIN RECORD	CRP FS IRP RI TRC		SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000830 NONE LTR NONE 00002	11-16-1995 05-26-1993 NONE 01.1	DON L.H. SMITH DTSC C. O'ROURKE	PROPOSAL TO CONSTRUCT A PARKING LOT ON TOP OF HILL KNOWN AS SITE 11	ADMIN RECORD	FS RI RISK	011	PALLET 14 - SW04021204 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 1 PROBLEM SHELVING

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N60258 / 000747 NONE MEMO NONE	11-21-1994 05-27-1993 NONE 04.3	DTSC A. WINANS DTSC C. O'ROURKE	COMMENTS TO RI/FS WORKPLAN AND	ADMIN RECORD	COMMENTS FS GW H&SP		SOUTHWEST DIVISION - BLDG. 12
00007					PA RA RI SAP WELLS		PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000782 NONE LTR NONE 00004	11-21-1994 05-27-1993 NONE 10.0	CA DEPT OF FISH & GAME M. MARTIN NSY LONG B. JANOV	25 MAY 1993 TECHNICAL REVIEW COMMITTEE (TRC) MEETING	ADMIN RECORD	IRP PCB SI TRC	007	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021204 IMAGED LBSY_003
N60258 / 000371 NONE MEMO NONE 00001	10-24-1994 06-02-1993 NONE 10.6	NAVSTA LONG BEACH J. SNYDER NAVFAC - SOUTHWEST DIVISION A. LEE	COMMENTS ON FACT SHEET RECEIVED 06/02/93	ADMIN RECORD	COMMENTS CRP IRP TRC		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021202 IMAGED LBSY_002
N60258 / 000744 NONE MM NONE 00002	11-21-1994 06-08-1993 00249 10.2	JACOBS ENGINEERING C. FLAGG NAVFAC - SOUTHWEST DIVISION	08 JUNE 1993 COMMUNITY RELATIONS PLAN (CRP) MEETING MINUTES	ADMIN RECORD	CRP MTG MINS		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021203 IMAGED LBSY_003

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N60258 / 000699 NONE	11-17-1994 06-09-1993	DTSC D.R. REGE	APPROVAL OF FINAL RCRA FACILITY INVESTIGATION (RFI) REPORTS SITE INSPECTION REPORTS	ADMIN RECORD	COMMENTS HAZ WASTE		SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 01.2	NAVSTA/NSY LB J. SNYDER			IRP RCRA		12
00003					RFI		
					SI SWMU		PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000770 SER N4/5196 LTR NONE	11-21-1994 06-09-1993 NONE 01.1	NAVSTA LONG BEACH J. SNYDER NAVFAC - SOUTHWEST DIVISION A. LEE	COMMENTS TO DRAFT SITE MANAGEMENT PLAN DATED 04/30/93	ADMIN RECORD	COMMENTS IRP SMP	002	SOUTHWEST DIVISION - BLDG. 12
00003							PALLET 14 - SW04021204 IMAGED LBSY_003
N60258 / 000698 NONE	11-17-1994 06-10-1993	DTSC D.R. REGE	DRAFT COMMENTS RESOLUTION MEETING FOR RCRA CORRECTIVE ACTION RFI AND RI/FS WORKPLANS	ADMIN RECORD	COMMENTS FS	006A	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 04.3	NAVFAC - SOUTHWEST DIVISION			IRP RCRA		12
00005		A. HURT			RFI		
					RI TRC		PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000296 NONE	10-18-1994 06-14-1993	NAVFAC - SOUTHWEST DIVISION DIVISION C. LEADON NAVFAC - SOUTHWEST DIVISION DIVISION J. JOYCE	TECHNICAL REVIEWS OF THE DRAFT RI/FS WORK PLANS, DRAFT PRELIMINARY ASSESSMENT FOR SITE 6B AND DRAFT SITE MANAGEMENT PLAN. ***COMMENTS: INTERIM FINAL, EPA/540/G-89/004, WASHINGTON D.C. DTD 10/88; SMUCKER, S.J. REGION IX PRG'S SECOND QTR '93; US EPA INT. FINAL, PB92-963334, PUB. 9285.7-01C, DATED 12/91***	ADMIN RECORD	ARAR COMMENTS FS IRA PA	001 002 004 006A 006B	SOUTHWEST DIVISION - BLDG. 12 12
MEMO NONE 00011	NONE 04.3				RI SMP	007	PALLET 14 - PALLET 14 - SW04021201 IMAGED LBSY_002

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N60258 / 000298 CLE-C01- 01F249/250-B3-0002 RPT N68711-89-D-9296 00048	10-18-1994 07-01-1993 00249 10.2	JACOBS ENGINEERING NAVFAC - SOUTHWEST DIVISION	REVISED DRAFT COMMUNITY RELATIONS PLAN (CRP)	ADMIN RECORD	CERCLA FS HAZ WASTE IRA IRP RI SARA IRP PUBNOT		SOUTHWEST DIVISION - BLDG. 1 PROBLEM SHELVING SHELVING SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000636 NONE MISC NONE 00001	11-01-1994 07-07-1993 NONE 10.3	NEWS-PILOT	PUBLIC NOTICE ENVIRONMENTAL INSTALLATION RESTORATION PROGRAM - 07/14/93	ADMIN RECORD			PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000635 NONE MISC NONE 00001	11-01-1994 07-08-1993 NONE 10.3	PRESS- TELEGRAM	PUBLIC NOTICE ENVIRONMENTAL INSTALLATION RESTORATION PROGRAM - 07/14/93	ADMIN RECORD	IRP PUBNOT		PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000696 NONE LTR NONE 00046	11-17-1994 07-09-1993 NONE 04.2	DTSC D. REGE NAVSTA/NSY LB B. JANOFF	COMPILED COMMENTS ON THE DRAFT REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) REPORTS DATED 04/30/93 (EPA ID. NO. CA6170023109)	ADMIN RECORD	COMMENTS FS HAZ WASTE PERMIT RCRA RI SAP		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021203 IMAGED LBSY_003

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N60258 / 000373 NONE LTR LTR NONE 00007	10-24-1994 07-12-1993 NONE NONE 10.6	NAVSTA LONG BEACH J.L. SNYDER J.L. SNYDER DISTRIBUTION	FACT SHEET NO. 1 ENVIRONMENTAL PROGRAMS AT LONG BEACH NAVAL COMPLEX	ADMIN RECORD INFO REPOSITORY REPOSITORY	CRP FS H&SP HAZ WASTE IAS IRP RCRA RI TRC		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021202 IMAGED LBSY_002
N60258 / 000629 NONE FAX NONE 00003	10-31-1994 07-12-1993 NONE 04.3	NSY LONG A. ULASZEWSKI JACOBS ENGINEERING K. BREWER	COMMENTS ON IR DRAFT RI/FS DOCUMENTS	ADMIN RECORD	COMMENTS FS PERMIT RI SAP SMP		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021202 IMAGED LBSY_003
N60258 / 000768 NONE FAX NONE 00004	11-21-1994 07-13-1993 NONE 10.2	DTSC C. BEST C. O'ROURKE	COMMENTS ON REVISED DRAFT COMMUNITY RELATIONS PLAN (CRP)	ADMIN RECORD	COMMENTS CRP FS IRP RI TRC		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021204 IMAGED LBSY_003
N60258 / 000374 NONE MM NONE 00002	10-24-1994 07-14-1993 00249 03.3	JACOBS ENGINEERING K. BREWER	DISCUSSION OF SUBJECT MEETINGBEING HELD 07/14/93 (HELD 07/07/93)	ADMIN RECORD	CRP	006A 011	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021202 IMAGED LBSY_002

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N60258 / 000745 NONE LTR NONE	11-21-1994 07-14-1993 NONE 10.2	DTSC C. BEST CH2M HILL C. FLAGG	REVIEW OF THE REVISED DRAFT COMMUNITY RELATIONS PLAN (CRP)	ADMIN RECORD	CRP FS IRP RI		SOUTHWEST DIVISION - BLDG. 12
00005					TRC		
N60258 / 000763 PN-0249/250-40 & CLE-C01- CLE-C01-	11-21-1994 07-14-1993 00249, 00250 00249, 00250 04.3	JACOBS ENGINEERING K. BREWER K. BREWER	14 JULY 1993 PUBLIC MEETING FOR REMEDIAL INVESTIGATION/FEASIBILITY (RI/FS) STUDY WORK PLANS - INCLUDES CONFIDENTIAL DISTRIBUTION LIST	ADMIN RECORD CONFIDENTIAL	CRP FS IRP RI	006A 011	PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12
01F249/250-I2-0022 MM NONE 00010	04.3				SAP		PALLET 14 - SW04021204 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000767 NONE MISC NONE	11-21-1994 07-14-1993 NONE 10.5	NAVFAC - SOUTHWEST DIVISION NAVFAC - SOUTHWEST DIVISION	14 JULY 1993 PUBLIC MEETING HANDOUT	ADMIN RECORD	CRP FS IRP REMOVAL RI		PALLET 14 - SW04021204 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
00026							PALLET 14 - SW04021204 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000628 NONE MM NONE 00004	10-31-1994 07-15-1993 NONE 04.3	JACOBS ENGINEERING K. BREWER	COMMENT REVIEW MEETING RI/FS WORK PLANS	ADMIN RECORD	COMMENTS FS GW MONITORING PRG RA RI SI WELLS		PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000385 NONE MISC NONE 00001	10-24-1994 07-16-1993 NONE 10.6	PRESS- TELEGRAM	NEWS ARTICLE, 'NAVY CLEANUP, RESTORATION UNDER WAY'	ADMIN RECORD	IRP NEWSART		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000764 PN-0249/250-39, CLE-C01- CLE-C01- 01F249/250-I2-0021 MM NONE 00007	11-21-1994 07-19-1993 00249, 00250 00249, 00250 04.3 04.3	JACOBS ENGINEERING K. BREWER K. BREWER NAVFAC - NAVFAC - SOUTHWEST DIVISION	19 JULY 1993 COMMENT RESOLUTION MEETING MINUTES FOR THE DRAFT REMEDIAL INVESTIGATION/FEASIBILITY (RI/FS) STUDY WORK PLANS & SAMP & ANAL PLANS (SAPS)	ADMIN RECORD	CHAR COMMENTS DATA FS GW MONITORING MTG MINS RI SAP WATER WELLS	003 004 006A 007 008 012 013	PALLET 14 - SW04021202 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021204 IMAGED LBSY_003
N60258 / 000765 NONE MEMO NONE 00005	11-21-1994 07-20-1993 NONE 04.3	CH2M HILL K. BREWER NAVFAC - SOUTHWEST DIVISION J. JOYCE	LIST OF PROPOSED ADDITIONS OR CHANGES TO THE PROJECT REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORK PLANS - PROJECT: SCO70147.RF/SCO70148.RF	ADMIN RECORD	FS GW PCB RI TPH VOC	001 002 003 004 005 006A 007 008 009 010 011 012 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021204 IMAGED LBSY_003

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N60258 / 000657 SWDIV SER 1823.EC/2809 LTR NONE 00001	11-02-1994 07-22-1993 NONE 03.3	NAVFAC - SOUTHWEST DIVISION E. CASADOS DTSC L. SEGOVIA	PROPOSED CHANGE TO THE SITE INSPECTION WORKPLAN FOR OPERABLE UNIT 5	ADMIN RECORD	COMMENTS SI	OU 5	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000717 CLE-C01- 01F249/250-B3-0002 RPT N68711-89-D-9296 00091	11-21-1994 08-02-1993 00249/250 10.2	JACOBS ENGINEERING G. GUHA NAVFAC - SOUTHWEST DIVISION	FINAL COMMUNITY RELATIONS PLAN	ADMIN RECORD INFO REPOSITORY	CRP FS HAZ WASTE IRP RI		PALLET 14 - PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000823 NONE LTR N47408-92-D-3056 00036	09-27-1995 08-12-1993 DO007 01.2	IT CORPORATION E.R. SEEBER NAVFAC - SOUTHWEST DIVISION L. BATIS	SITE WALK REPORT FOR SITE 11 HILLSIDE EAST OF DRY DOCK 1 DATED AUGUST 1993; VIDEO TAPE ENCLOSED (SEE AR #612 - COMMENTS AND AR #49 -	ADMIN RECORD	GW PA RI/FS SOIL	011	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04031101 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000612 NONE LTR NONE 00001	10-31-1994 08-20-1993 NONE 01.1	DTSC C.A. O'ROURKE NAVFAC - SOUTHWEST DIVISION J. JOYCE	COMMENTS ON SITE 11 SITE WALK REPORT EVALUATION	ADMIN RECORD	COMMENTS FS GW RFI RI	011	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000049 NONE	10-25-2000 08-31-1993	IT CORPORATION J. FRANKLIN	RESPONSE TO DTSC'S COMMENTS ON SITE WALK REPORT, HILLSIDE EAST OF DRY DOCK 1	ADMIN RECORD	GW RESPONSE	011	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE	NAVFAC - SOUTHWEST DIVISION			RI/FS SITE		12
00003		J. JOYCE					PALLET 14 - SW04021201 IMAGED LBSY_002
N60258 / 000695 NONE	11-17-1994 09-02-1993	DTSC D. REGE	COMMENTS TO DRAFT SUPP RCRA FACILITY INVESTIGATION WORKPLAN AND INTERIM CORRECTIVE MEASURE EVALUATION WORKPLAN FOR SITE 6A (EPA ID NO. CA6170023109)	ADMIN RECORD	COMMENTS DMP	006A	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 03.3	NAVSTA/NSY LB B. JANOV			FS H&SP		12
00017					HAZ WASTE		PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000301 CLE-C01-01F250- B5-0002 B5-0002 RPT N68711-89-D-9296	10-18-1994 09-03-1993 00250 00250 03.1	JACOBS ENGINEERING GROUP GROUP G. GAHA NAVFAC - SOUTHWEST DIVISION DIVISION	REMEDIAL INVESTIGATION FEASIBILITY STUDY (RI/FS) FINAL SAMPLING AND ANALYSIS PLAN (SAP) DATED 09/13/93 - INCLUDES QUALITY ASSURANCE PROJECT PLAN (QAPP) AND HEALTH AND SAFETY PLAN (HSP)	ADMIN RECORD INFO REPOSITORY REPOSITORY	DMP FS GW H&SP IRP		SOUTHWEST DIVISION - BLDG. 12
00609					MONITORING PERMIT QA QAPP RI SAP WELLS WMP		PALLET 14 - PALLET 14 - SW04021201 IMAGED LBSY_002

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N60258 / 000302 CLE-C01-01F250-B7-0002 B7-0002 RPT N68711-89-D-9296 00200	10-18-1994 09-13-1993 00250 00250 04.3	JACOBS ENGINEERING GROUP GROUP NAVFAC - SOUTHWEST DIVISION DIVISION G. GAHA	FINAL REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORK PLAN	ADMIN RECORD INFO REPOSITORY REPOSITORY	FS GW IAS IRP OU RA RCRA REMOVAL RFA RFI RI RISK SB SI		SOUTHWEST DIVISION - BLDG. 1 PROBLEM SHELVING SHELVING
N60258 / 000303 CLE-C01-01F249-B7-0003 & CLE-B7-0003 & CLE-C01-01F250-B7-MISC NONE 00041	10-18-1994 09-13-1993 NONE NONE 04.3	CH2M HILL K. BREWER NAVFAC - NAVFAC - SOUTHWEST DIVISION P. TORRY	RESPONSE TO COMMENTS DRAFT RI/FS WORK PLANS AND SAMPLING AND ANALYSIS PLANS	ADMIN RECORD	COMMENTS FS RI		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021201 IMAGED LBSY_002
N60258 / 000694 NONE LTR NONE 00006	11-17-1994 09-17-1993 NONE 01.3	DTSC D. REGE NAVSTA/NSY LB B. JANOV	COMMENTS TO DRAFT PRELIMINARY ASSESSMENT REPORT FOR SITE 6B (EPA ID. NO. CA617002319)	ADMIN RECORD	CA COMMENTS EBS GW HAZ WASTE PA PERMIT RCRA RFI SWMU	006B	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021203 IMAGED LBSY_003

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N60258 / 000693 PN-240/250-41 & CLE-C01- CLE-C01-	11-17-1994 09-24-1993 00249 00249 04.3	JACOBS ENGINEERING K. BREWER K. BREWER NAVFAC - NAVFAC - SOUTHWEST DIVISION	DOCUMENT DISTRIBUTION AND RESPONSE TO NAVY COMMENTS FINAL RI/FS WORK PLANS, SAPS AND HSPS	ADMIN RECORD	ARAR COMMENTS FS H&SP		SOUTHWEST DIVISION - BLDG. 12 12
01F249/250-I3-0015 MM NONE 00009	04.3				RA RI SAP WMP		PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000824 305924-ITCPR-0001 PLAN N47408-92-D-3056	09-27-1995 10-01-1993 DO 0007 04.3	IT CORPORATION E.R. SEEBER L. BATIS	SITE MANAGEMENT PLAN SITE 11 HILLSIDE EAST OF DRY DOCK 1	ADMIN RECORD	QA SAP SMP	011	SOUTHWEST DIVISION - BLDG. 12
00137							PALLET 14 - SW04022601 IMAGED LBSY_003
N60258 / 000304 CLE-C01-01F226- S2-0001 RPT N68711-89-D-9296	10-20-1994 10-14-1993 00226 01.1	JACOBS ENGINEERING G. GUHA NAVFAC - SOUTHWEST DIVISION	FINAL SITE MANAGEMENT PLAN (SMP)	ADMIN RECORD	ARAR CERCLA COST DATA IRP		SOUTHWEST DIVISION - BLDG. 12
00347					OU PA RA RCRA SI SMP		PALLET 14 - PALLET 14 - SW04021201 IMAGED LBSY_002

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N60258 / 000762 CTO-015/0032, CTO-016/0032, CTO-016/0032, MM NONE 00003	11-21-1994 10-15-1993 015, 016, 026 015, 016, 026 04.3	NAVFAC - SOUTHWEST DIVISION DIVISION NAVFAC - SOUTHWEST DIVISION	KICKOFF MEETING FOR CTO'S 15,16, & 26 REGARDING THE RI/FS ACTIVITIES AND FACILITYWIDE INVESTIGATION	ADMIN RECORD	FS RI	001 002 003 004	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04021204 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000640 NONE MEMO NONE 00003	11-01-1994 10-18-1993 NONE 01.1	DTSC J.D. EARLEY C. O'ROURKE	RESUBMITTAL OF HEALTH AND SAFETY PLANS	ADMIN RECORD	FS H&SP RI SAP		PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000692 SER N4/8179 LTR NONE 00003	11-17-1994 10-20-1993 NONE 01.1	NAVSTA LONG BEACH J.L. SNYDER J.L. SNYDER DTSC C. O'ROURKE	REQUIREMENT TO RELOCATE THE DRMO SCRAP YARD FROM NAVSTA SITE 6A TO NSY SITE 12	ADMIN RECORD		006A 012	PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000670 NONE LTR NONE 00004	11-17-1994 10-21-1993 NONE 03.3	DTSC D.R. REGE NAVSTA/NSY LB	COMMENTS TO FINAL SUPPLEMENTAL RCRA FACILITY INVESTIGATION (RFI) WORKPLAN & INTERIM CORRECTIVE MEASURE EVAL WORKPLAN	ADMIN RECORD	COMMENTS FS HAZ WASTE PERMIT RCRA RFI RI	006A	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022601 IMAGED LBSY_003

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N60258 / 000652 NONE LTR NONE	11-01-1994 10-22-1993 NONE 10.0	DTSC D. WANG B. JANOV	ESTABLISHMENT OF RESTORATION ADVISORY BOARDS (RAB)	ADMIN RECORD	RAB TRC		SOUTHWEST DIVISION - BLDG. 12
00003							PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000611 NONE FAX NONE	10-31-1994 11-03-1993 NONE 10.0	NSY LONG A. ULASZEWSKI J. JOYCE	COMMENTS ON SITE MANAGEMENT PLAN	ADMIN RECORD	COMMENTS SMP SPCC TANK		
00002					WATER		PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000639 NONE LTR NONE	11-01-1994 11-03-1993 NONE 04.3	DTSC D.R. REGE NAVSTA/NSY LB	COMMENTS TO FINAL REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORKPLANS DATED 09/13/93	ADMIN RECORD	COMMENTS FS H&SP HAZ WASTE		12
00005					PERMIT RCRA RFI RI		PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000691 NONE	11-17-1994 11-03-1993	DTSC D.R. REGE	COMMENTS TO DRAFT PHASE 1 RCRA FACILITY INVESTIGATION (RFI) WORKPLAN (SITE INSPECTION PLAN) FOR SITE 6B. ***COMMENTS: DRAFT PHASE I RCRA FACILITY INVESTIGATION WORK PLAN WAS NOT SUBMITTED TO ADMINISTRATIVE RECORDS.***	ADMIN RECORD	CA COMMENTS DMP HAZ WASTE IRP PERMIT QA RA RCRA RFI SI WMP	006B	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04022601 IMAGED LBSY_003
LTR NONE 00015	NONE 03.3	NAVSTA/NSY LB B. JANOV					
N60258 / 000761 NAFEC SER 41RS/930316 41RS/930316 LTR NONE 00008	11-21-1994 11-03-1993 NONE NONE 01.1	NAVFACENGCOM NAVFAC - NAVFAC - SOUTHWEST DIVISION	REQUEST FOR STATUS ON INSTALLATION/RESTORATION SITES WITH ENVIRONMENTAL PROTECTION AGENCY REGIONAL OFFICES	ADMIN RECORD	DATA PA SI		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021204 IMAGED LBSY_003
N60258 / 000690 NONE MM NONE 00006	11-17-1994 11-04-1993 00041 01.1		PROJECT KICKOFF MEETING FOR	ADMIN RECORD	ARAR BCP CRP EBS EIS FS RCRA RI SMP UST		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022601 IMAGED LBSY_003

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N60258 / 000608 NONE	10-31-1994 11-10-1993	IT CORPORATION	DELIVERY OF CDRL A011 REINFORCEMENT DWG AND CDRL A012 SHOTCRETE MIX DESIGN (DRAWING NOS. 305924-E10C AND 305924-E11C CAN BE	ADMIN RECORD	SMP		SOUTHWEST DIVISION - BLDG. 1
LTR N47408-92-D-3056 00017	NONE 03.3	L. BATIS					PROBLEM SHELVING
N60258 / 000689 NONE MM NONE	11-17-1994 11-10-1993 00015 04.3		RSE & RI/FS MONTHLY MEETING FOR CTO'S 15,16,26,27,28	ADMIN RECORD	ARAR FS GW MONITORING	006A	SOUTHWEST DIVISION - BLDG. 12
00005					PA PCB RA REMOVAL RFI RI RISK SI TPH WELLS		PALLET 14 - SW04022601 IMAGED LBSY_003
N60258 / 000305 SER 106B/356	10-20-1994 11-19-1993	NSY LONG L.H. SMITH	ADVISEMENT THAT TIDELANDS OIL PROD. COMPANY MAY BE A POTENTIALLY RESPONSIBLE PARTY (PRP) TO SHARE COSTS AS THE RECENT RELEASE AT LBNSY	ADMIN RECORD	CERCLA COST FS PERMIT PRP RCRA REMOVAL RI SWMU		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021201 IMAGED LBSY_002
LTR NONE 00004	NONE 07.6	TIDELANDS OIL PROD S. PITO					

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N60258 / 000610 NONE	10-31-1994 11-23-1993	DTSC A.A. ARELLANO	COMMENTS TO SITE 11 HILLSIDE EAST OF DRY DOCK 1 (SITE MANAGEMENT PLAN). ***COMMENTS: NCP 300.415(m)(1); NCP 300.820***	ADMIN RECORD	CERCLA COMMENTS	011	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 03.3	J. JOYCE			NCP SMP		12
00004							PALLET 14 - SW04021202 IMAGED LBSY_003
N60258 / 000606 NONE	10-31-1994 12-03-1993	NAVFAC - SOUTHWEST DIVISION	PAINTS AND SOLVENTS REMOVAL ACTION, SITE 11 PRECONSTRUCTION	ADMIN RECORD	REMOVAL SOLVENTS	011	SOUTHWEST DIVISION - BLDG. 12
LTR N47408-92-D-3056	NONE 02.0	V.K. NANDA DISTRIBUTION					
00010							PALLET 14 - SW04021202 IMAGED LBSY_003
N60258 / 000624 NONE	10-31-1994 12-03-1993	NAVSTA LONG BEACH T. ERICKSON	RELOCATION OF THE DEFENSE REUTILIZATION MANAGEMENT OFFICE (DRMO) SCRAP YARD	ADMIN RECORD	FS RI	006A 012	SOUTHWEST DIVISION - BLDG. 12
LTR NONE 00001	NONE 01.1	DTSC A. ARELLANO					12
N60258 / 000688 NONE	11-17-1994 12-03-1993		RSE & RI/FS MONTHLY PROGRESS MEETING FOR CTO'S 15,16,26,27,28	ADMIN RECORD	CERCLA FS		PALLET 14 - SW04021202 IMAGED LBSY_003
MM NONE	00015 04.3				PCB REMOVAL		SOUTHWEST DIVISION - BLDG. 12
00004					RI		
							PALLET 14 - SW04022601 IMAGED LBSY_003

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N60258 / 000687 NONE LTR NONE 00003	11-17-1994 12-04-1993 NONE 01.1	NAVSTA LONG BEACH T.S. ERICKSON T.S. ERICKSON EPA S. LAUTH	US ENVIRONMENTAL PROTECTION AGENCY DATA CALL (MISSING ENCL NSY FINAL RI/FS DTD 09/13/93) (ENCL 1 000283 ENCL 3 000263 ENCL 4 000285)	ADMIN RECORD	DATA IRP PA SI		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000174 NONE PLAN N47408-92-D-3056 00072	11-07-2001 12-06-1993 DO 7	IT CORPORATION E. SEEBER NAVFAC - SOUTHWEST DIVISION L. BATIS	SITE SAFETY AND HEALTH PLAN FOR THE HILLSIDE EAST OF DRY DOCK 1	ADMIN RECORD	AIR ARSENIC METALS MONITORING RCRA SMP SOIL SOIL BORING SSHPP VOC	011 BLDG. 174 DRYDOCK 1	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000826 NONE LTR N47408-92-D-3056 00150	09-27-1995 12-06-1993 NONE 08.3	IT CORPORATION E.R. SEEBER L. BATIS	HEALTH AND SAFETY PLAN SITE 11 HILLSIDE EAST OF DRY DOCK 1 (2	ADMIN RECORD	H&SP SSHPP	011	SOUTHWEST DIVISION - BLDG. 1 TO BE DELETED
N60258 / 000825 305924-ITCPR-0002 LTR N47408-92-D-3056 00149	09-27-1995 12-07-1993 DO 0007 03.3	IT CORPORATION E.R. SEEBER L. BATIS	REMOVAL ACTION WORK PLAN HILLSIDE EAST OF DRYDOCK 1 DATED DECEMBER 1993	ADMIN RECORD	QA REMOVAL WORK PLAN	011	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022601 IMAGED LBSY_003

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N60258 / 000655 NONE	11-01-1994 12-09-1993	NSY LONG A. ULASZEWSKI	ISSUES AND POSSIBLE STRATEGIES REGARDING THE RELOCATION OF DRMO TO SHIPYARD SITE 12	ADMIN RECORD	CEQA CHAR	006A 012	SOUTHWEST DIVISION - BLDG. 12
MISC NONE	NONE 01.1				DRUMS EA		12
00002					FONSI		
					HAZ WASTE NEPA RI		PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000654 NONE MEMO NONE	11-01-1994 12-10-1993 NONE 01.1	CODE 106.3 CODE 400	RELOCATION OF DRMO TO SITE 12 {HARD TO READ}	ADMIN RECORD	COST FS RI	006A 012	SOUTHWEST DIVISION - BLDG. 12
00001							
							PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000306 SER RE/00683 LTR N47408-92-D-3056	10-20-1994 12-14-1993 DO 0008 02.0	NAVFAC - SOUTHWEST DIVISION V.K. NANDA IT CORPORATION J. FRANKLIN	PAINTS & SOLVENTS REMOVAL ACTION , SITE 11	ADMIN RECORD	REMOVAL SOLVENTS	011	SOUTHWEST DIVISION - BLDG. 12
00008							PALLET 14 - SW04021201 IMAGED LBSY_002
N60258 / 000686 NONE MISC NONE 00004	11-17-1994 12-17-1993 NONE 01.1	NAVSTA LONG BEACH D. ROLLEFSON FILE	DRMO MOVE MEETING DATED 12/17/93 {HANDWRITTEN NOTES}	ADMIN RECORD	H&SP HAZ WASTE REMOVAL	006A 012	SOUTHWEST DIVISION - BLDG. 12
							PALLET 14 - SW04022601 IMAGED LBSY_003

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N60258 / 000307 NONE	10-20-1994 12-18-1993	BECHTEL NATIONAL, INC. K. KAPUR	DRAFT INVESTIGATION DERIVED WASTE (IDW) MANAGEMENT PLAN (CTO-0015, 0016, 0026)	ADMIN RECORD	DRUMS FS	001 002	SOUTHWEST DIVISION - BLDG. 12
RPT N68711-92-D-4670	00015 03.0	K. KAPUR NAVFAC - SOUTHWEST DIVISION			GW HAZ WASTE	003 004	12
00005					IDWMP RI SB WATER WELLS	005 006A 007	PALLET 14 - SW04021201 IMAGED LBSY_002
N60258 / 000716 SER 440/243 LTR NONE	11-21-1994 12-20-1993 NONE 08.0	NSY LONG S. HALL NAVFAC - SOUTHWEST DIVISION	POTABLE WATER LEAD AND COPPER COMPLIANCE PROGRAM	ADMIN RECORD	LAB POTW WATER		SOUTHWEST DIVISION - BLDG. 12
00009							PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000651 NONE LTR NONE	11-01-1994 12-21-1993 NONE 10.0	NSY LONG B. JANOV EPA D. WANG	ACKNOWLEDGEMENT OF LETTER REGARDING RAB	ADMIN RECORD	BRAC IRP PERMIT RAB		SOUTHWEST DIVISION - BLDG. 12
00001					RCRA TRC		PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000802 NONE FAX NONE 00002	11-21-1994 12-21-1993 NONE 01.1	K.R. BARRE K. KESLER	POLA SEASIDE AVENUE/NAVY WAY CONSTRUCTION PROJECT	ADMIN RECORD CONFIDENTIAL	EIS FS RI TANK WATER		SOUTHWEST DIVISION - BLDG. 1 BNI - 12/11/03

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N60258 / 000623 NONE	10-31-1994 12-23-1993	NAVSTA LONG BEACH T. ERICKSON	PROJECTED TIME SCHEDULE FOR RELOCATION OF DRMO FACILITY FROM NAVSTA TO LBNSY. ***COMMENTS: PROPOSED PLOT PRINT OF DRMO, SITE 12 WAS NOT SUBMITTED TO	ADMIN RECORD	H&SP HAZ WASTE	006 006A	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 01.1	T. ERICKSON DTSC - LONG BEACH				012	12
00003		A. GUTIERREZ	ADMINISTRATIVE RECORDS.***				PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000715 SER N4/8712 LTR NONE 00001	11-21-1994 12-23-1993 NONE 10.0	NAVSTA LONG BEACH T. ERICKSON DISTRIBUTION	RESTORATION ADVISORY BOARD (RAB) FOR THE (IRP)	ADMIN RECORD	IRP RAB TRC		PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000605 NONE MISC NONE 00004	10-31-1994 01-01-1994 NONE 10.6		FACT SHEET NO. 2 REMOVAL ACTION FOR SITE 11	ADMIN RECORD	CERCLA FS HAZ WASTE IRP	011	PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
					LAB REMOVAL RI SARA		PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000714 NONE LTR NONE 00004	11-21-1994 01-04-1994 NONE 01.1	DTSC A. ARELLANO NAVSTA/NSY LB B. JANOV	CALIFORNIA ENVIRONMENTAL QUALITY ACT IMPLICATIONS, SITE 6A (COMMENTS)	ADMIN RECORD	CEQA EIA IRP PROPOSAL	006A	PALLET 14 - SW04021203 IMAGED LBSY_003
					RCRA		PALLET 14 - SW04021203 IMAGED LBSY_003

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N60258 / 000685 NONE	11-17-1994 01-06-1994		MONTHLY PROGRESS MEETING FOR CTO'S 15,16,26,27,28 REGARDING RI/FS, RSE AND SI ACTIVITIES AND FACILITYWIDE INVESTIGATION	ADMIN RECORD	FS LAB	006A	SOUTHWEST DIVISION - BLDG. 12 12
MM NONE	NONE 04.3				RA RI		
00005					SI		PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000281 PMO-0633	01-13-2004 01-07-1994	BECHTEL NATIONAL, INC. C. SHERMAN C. SHERMAN NAVFAC - SOUTHWEST DIVISION	PROGRAM HEALTH AND SAFETY PLAN REVISION 0 DATED JANUARY 7, 1994, SITE HEALTH AND SAFETY PLAN REVISION 1 DATED JULY 18, 1994. ***COMMENTS: (SEE AR #282 - PROGRAM	ADMIN RECORD	H&SP MONITORING		
PLAN N68711-92-D-4670	NONE				PAH PCB		
00188			SAFETY AND HEALTH PLAN, REVISION		PERMIT UST		PROBLEM PROBLEM SHELVING
N60258 / 000308 NONE	10-20-1994 01-10-1994	DON L.L. BATIS	GOVERNMENT REVIEW OF SITE MANAGEMENT PLAN IS ACCEPTABLE CONTINGENT ON RECEIPT OF CLARIFICATION CORRESPONDENCE	ADMIN RECORD	COMMENTS SMP		SOUTHWEST DIVISION - BLDG. 1
LTR N47408-92-D-3056 00004	NONE 01.1	IT CORPORATION					PROBLEM SHELVING
N60258 / 000622 NONE	10-31-1994 01-11-1994	DTSC A.A. ARELLANO	ACCEPTANCE OF PROPOSED PLANS FOR DRMO SCRAPYARD RELOCATION FROM SITE 6A TO SITE 12. ***COMMENTS: PROPOSED PLAN FOR DRMO SCRAPYARD RELOCATION WAS NOT SUBMITTED TO ADMINISTRATIVE	ADMIN RECORD	FS HAZ WASTE	006A 012	SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE 00003	NONE 01.1	NAVSTA LONG BEACH T. ERICKSON			RI		PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000309 NONE	10-20-1994 01-14-1994	NAVSTA/NSY LB	TECHNICAL REVIEW COMMITTEE (TRC)LETTER FOR INSTALLATION RESTORATION THAT ANNOUNCES THE INCLUSION OF A RESTORATION ADVISORY BOARD (RAB)	ADMIN RECORD	IRP RAB TRC		SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE	NONE 10.0						
00006							
N60258 / 000310 PROJECT NO. 305957-ITCPR-0004 305957-ITCPR-0004 LTR N47408-92-D-3056 00007	10-20-1994 01-18-1994 NONE NONE 02.0	IT CORPORATION J.J. FRANKLIN L. BATIS	COMMENTS TO PAINTS AND SOLVENTS SITE 11 - HILLSIDE EAST OF DRYDOCK 1 - CDRL DELIVERABLE NO. A0002	ADMIN RECORD	COMMENTS GW MONITORING RA REMOVAL SMP	011	PALLET 14 - SW04021201 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021201 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000684 NONE	11-17-1994 01-20-1994	NAVSTA LONG BEACH T. ERICKSON T. ERICKSON NAVFAC - SOUTHWEST DIVISION	DRMO RELOCATION; CATEGORICAL EXCLUSION AND SITE APPROVAL SUBMISSION	ADMIN RECORD	FS HAZ WASTE RI	006A 012	
LTR NONE	NONE 01.1						
00006							
N60258 / 000312 SWDIV SER 1832.JJ/019 1832.JJ/019 MEMO NONE 00016	10-20-1994 01-25-1994 NONE NONE 00.0	NAVFAC - SOUTHWEST DIVISION DIVISION J. JOYCE NSY LONG	DRAFT ACTION MEMORANDUM FOR NSY LB SITE 11 REMOVAL ACTION. ***COMMENTS: 42 USC 9604; 10 USC 2705; FEDERAL EXECUTIVE ORDER 12580; NCP 300.415(B)(2)***	ADMIN RECORD	ACTMEMO CERCLA FS IAS NCP RCRA REMOVAL RFA RI	011	PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021201 IMAGED LBSY_002

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N60258 / 000769 NONE	11-21-1994 01-27-1994	PRESS	NEWSPAPER: PUBLIC NOTICE FOR FORMATION OF RESTORATION ADVISORY BOARD MEMBERSHIP SOLICITATION	ADMIN RECORD	IRP PUBNOT		SOUTHWEST DIVISION - BLDG. 12
MISC NONE	NONE 10.3	GENERAL PUBLIC			RAB TRC		12
00001							
N60258 / 000795 NONE RPT N68711-92-D-4670	11-21-1994 01-30-1994 00026 03.1	BECHTEL NATIONAL K. KAPUR NAVFAC - SOUTHWEST DIVISION	FINAL FISH SAMPLING AND ANALYSIS PLAN	ADMIN RECORD	FS RA RI RISK	007	PALLET 14 - SW04021204 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
00016							PALLET 14 - SW04022601 IMAGED LBSY_003
N60258 / 000796 NONE RPT N68711-92-D-4670	11-21-1994 01-30-1994 15, 16, 26 03.3	BECHTEL NATIONAL K. KAPUR NAVFAC - SOUTHWEST DIVISION	FINAL INVESTIGATION DERIVED WASTE (IDW) MANAGEMENT PLAN	ADMIN RECORD	GW HAZ WASTE IDWMP SB	001 002 003 004	SOUTHWEST DIVISION - BLDG. 12
00005					WELLS	005 006A 007	PALLET 14 - SW04022601 IMAGED LBSY_003
N60258 / 000797 NONE RPT N68711-92-D-4670	11-21-1994 01-30-1994 00016 01.1	BECHTEL NATIONAL K. KAPUR NAVFAC - SOUTHWEST DIVISION	FINAL TECHNICAL MEMORANDUM FACILITY WIDE LIMITED FIELD	ADMIN RECORD	FS GW RI TECH MEMO		SOUTHWEST DIVISION - BLDG. 1
00028					WELLS		PROBLEM PROBLEM SHELVING

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N60258 / 000603 NONE	10-31-1994 02-01-1994	DTSC A.A. ARELLANO	COMMENTS ON THE REMOVAL ACTION WORK PLAN FOR THE HILLSIDE EAST OF DRYDOCK 1	ADMIN RECORD	COMMENTS REMOVAL	011	SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE	NONE 03.3	NSY LONG B. JANOV			SMP WORK PLAN		
00003							PALLET 14 - SW04021202 IMAGED LBSY_003
N60258 / 000759 NONE MISC MISC NONE	11-21-1994 02-01-1994 NONE NONE 10.5	NAVFAC - SOUTHWEST DIVISION DIVISION RAB MEMBERS	01 FEBRUARY 1994 RESTORATION ADVISORY BOARD (RAB) COMMUNITY MEETING MINUTES - INCLUDES AGENDA, MINUTES, FACT SHEET, AND HANDOUTS	ADMIN RECORD INFO REPOSITORY	IRP RAB	006A 011	SOUTHWEST DIVISION - BLDG. 12 12
00020							PALLET 14 - SW04021204 IMAGED LBSY_003
N60258 / 000760 NONE MISC NONE	11-21-1994 02-01-1994 NONE 10.6	NAVFAC - SOUTHWEST DIVISION RAB MEMBERS	RESTORATION ADVISORY BOARD FACT SHEET	ADMIN RECORD	IRP PUBNOT RAB TRC		SOUTHWEST DIVISION - BLDG. 12
00004							PALLET 14 - SW04021204 IMAGED LBSY_003

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N60258 / 000756 NONE MISC NONE 00001	11-21-1994 02-03-1994 NONE 10.6	PRESS- TELEGRAM NAVFAC - SOUTHWEST DIVISION	NEWSARTICLE: PANEL LOOKING FOR A FEW GOOD MEMBERS	ADMIN RECORD INFO REPOSITORY	NEWSART PUBNOT	001 002 003 004 005 006 007 008 009 010 011 012 013	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000683 NONE MEMO NONE 00002	11-17-1994 02-17-1994 NONE 10.5	NAVSTA LONG BEACH D. ROLLEFSON D. ROLLEFSON	RESTORATION ADVISORY BOARD (RAB) TECHNICAL REVIEW COMMITTEE (TRC) MEETINGS FOR 03/15/94	ADMIN RECORD	RAB TRC		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022601 IMAGED LBSY_003
N60258 / 000637 NONE MM NONE 00003	11-01-1994 02-23-1994 00037 04.0		MEETING MINUTES FOR THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) ACTIVITIES TO BE PERFORMED AT	ADMIN RECORD	FS MTG MINS QAPP RI SAP		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000682 NONE	11-17-1994 02-24-1994		MONTHLY PROGRESS MEETING REGARDING RI/FS ACTIVITIES AND FACILITYWIDE INVESTIGATION	ADMIN RECORD	DATA FS RI SAP		SOUTHWEST DIVISION - BLDG. 12 12
MM NONE	00015 04.3						
00014							
N60258 / 000315 SER 106/085 MEMO MEMO NONE	10-20-1994 02-25-1994 NONE NONE 02.5	NSY LONG B. JANOV DTSC DTSC A. LANDIS	ACTION MEMORANDUM FOR REMOVAL ACTION, SITE 11. ***COMMENTS: FEDERAL EXECUTIVE ORDER 12580; 42	ADMIN RECORD INFO REPOSITORY REPOSITORY	ACTMEMO CERCLA COST NCP	011	PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12
00014					REMOVAL		
N60258 / 000758 NONE MISC NONE	11-21-1994 03-01-1994 NONE 10.6	NAVFAC - SOUTHWEST DIVISION RAB MEMBERS	RESTORATION ADVISORY BOARD FACT SHEET	ADMIN RECORD	IRP RAB TRC		PALLET 14 - SW04021201 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
00004							
N60258 / 000316 SWDIV SER 1832.JJ/165 1832.JJ/165 LTR NONE	10-20-1994 03-07-1994 NONE NONE 06.2	NAVFAC - SOUTHWEST DIVISION DIVISION J. JOYCE DTSC - LONG BEACH A. GUTIERREZ	IDENTIFICATION OF STATE 'APPLICABLE' OR RELEVANT AND APPROPRIATE' REQUIREMENTS (ARARS) FOR TIME CRITICAL REMOVAL ACTION SITE 11 {CERT. LTR}. ***COMMENTS: 40 CFR 300.515(h)(2); NCP; 40 CFR 300.400(G); 40 CFR 300.515(D) AND 40 CFR 300.515(H); CERCLA SECTION 121(D)(2)(A)***	ADMIN RECORD	ACTMEMO ARAR FS HAZ WASTE NCP OU RA REMOVAL RI	011	PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04021201 IMAGED LBSY_002

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N60258 / 000625 NONE	10-31-1994 03-09-1994		MANAGEMENT COORDINATION MEETING RELOCATION OF DRMO FACILITY TO SITE 12	ADMIN RECORD	ACTMEMO FS	006A 012	SOUTHWEST DIVISION - BLDG. 12 12
MM NONE	NONE 01.1				H&SP NCP		
00003					RI		PALLET 14 - SW04021202 IMAGED LBSY_003
N60258 / 000805 NONE	11-21-1994 03-15-1994		15 MARCH 1994 RESTORATION ADVISORY BOARD (RAB) COMMUNITY MEETING MINUTES - INCLUDES AGENDA AND CONFIDENTIAL DISTRIBUTION LIST	ADMIN RECORD CONFIDENTIAL	IRP RAB		SOUTHWEST DIVISION - BLDG. 12 12
MISC NONE	00017 10.4	RAB MEMBERS		INFO REPOSITORY			
00004							PALLET 14 - SW04022601 IMAGED LBSY_003
N60258 / 000645 NONE	11-01-1994 03-22-1994		MONTHLY REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) STATUS MEETING	ADMIN RECORD	DMP FS		SOUTHWEST DIVISION - BLDG. 12 12
MM NONE	00037 04.0				H&SP IDWMP		
00003					RA		
					RI SAP		PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000646 NONE MM NONE	11-01-1994 03-22-1994 NONE 01.1		RELOCATION OF DRMO FACILITY TO SITE 12 MEETING MINUTES	ADMIN RECORD	FS H&SP RI SAP	006A 012	SOUTHWEST DIVISION - BLDG. 12
00002							PALLET 14 - SW04021203 IMAGED LBSY_003

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N60258 / 000319 SER 106/120 LTR NONE 00001	10-21-1994 03-31-1994 NONE 00.0	NSY LONG L.H. SMITH NAVFAC - SOUTHWEST DIVISION CO	RCRA PART 'B' PERMIT APPLICATION	ADMIN RECORD	PERMIT RCRA		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000320 NONE LTR NONE 00001	10-21-1994 04-01-1994 NONE 01.2	EPA D. WHITE NAVFAC - SOUTHWEST DIVISION A. LEE	COMMENTS ON FEDERAL FACILITY SITE INSPECTION (SI) REPORT (MISSING ENCL: COMMENTS)	ADMIN RECORD	COMMENTS SI		PALLET 14 - SW04021201 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING
N60258 / 000321 CTO-0037/0023 LTR N68711-92-D-4670 00051	10-21-1994 04-04-1994 00037 01.1	BECHTEL NATIONAL K. KAPUR K. KAPUR NAVFAC - SOUTHWEST DIVISION J. JOYCE	PREDRAFT HEALTH AND SAFETY PLAN SUPPLEMENT CTO-0037 (SEE AR #281 - SITE HEALTH AND SAFETY PLAN)	ADMIN RECORD	FS H&SP MONITORING PERMIT RA RI SAP VOC	008 009 010 011 012 013	SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING
N60258 / 000322 NAVSTA LB SER N4/0881 LTR NONE 00001	10-21-1994 04-12-1994 NONE 01.1	NAVSTA LONG BEACH T. ERICKSON DTSC - LONG BEACH A. GUTIERREZ	RELOCATING DRMO ACTIVITIES TO SITE	ADMIN RECORD		006A 012	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021201 IMAGED LBSY_002

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N60258 / 000644 NONE	11-01-1994 04-13-1994		MONTHLY REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) STATUS MEETING	ADMIN RECORD	COMMENTS FS		SOUTHWEST DIVISION - BLDG. 12
MM NONE	00037 04.0				H&SP RA		12
00003					RI		
					TECH MEMO		PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000806 NONE MISC NONE	11-21-1994 04-14-1994 00017 10.4		RAB COMMUNITY MEETING HELD APRIL 14, 1994 AGENDA, MINUTES	ADMIN RECORD INFO REPOSITORY	IRP RAB		SOUTHWEST DIVISION - BLDG. 12
00005							
							PALLET 14 - SW04022601 IMAGED LBSY_003
N60258 / 000258 NONE MISC MISC NONE 00003	12-08-2003 04-18-1994 NONE NONE	DTSC - LONG BEACH A. ARELLANO A. ARELLANO NAVSTA/NSY LB	COMMENTS TO THE FINAL INVESTIGATION DERIVED WASTER (IDW) MANAGEMENT PLAN, FINAL DATA MANAGEMENT PLAN AND FINAL FISH SAMPLING AND ANALYSIS PLAN (SAP)	ADMIN RECORD INFO REPOSITORY REPOSITORY	COMMENTS FS IDWMP RI SAP		SOUTHWEST DIVISION - BLDG. 1
							POSSIBLE COMPLIANCE
N60258 / 000794 NONE LTR NONE	11-21-1994 04-18-1994 NONE 06.0	DTSC D. WANG NAVFAC - SOUTHWEST DIVISION	SAVANNAH/CABRILLO HOUSING COMPLEX	ADMIN RECORD	CERCLA DATA EBS GW		SOUTHWEST DIVISION - BLDG. 12
00003		T. ERICKSON			HAZMAT		
					REMOVAL SAP TANK UST		PALLET 14 - SW04022601 IMAGED LBSY_003

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N60258 / 000324 NONE	10-21-1994 04-25-1994	BECHTEL NATIONAL K. KAPUR	DRAFT INVESTIGATION DERIVED WASTE (IDW) MANAGEMENT PLAN CTO 0037. ***COMMENTS: CCR, TITLE 22, CHAPTER 11; CA HEALTH & SAFETY CODE, DIVISION 20, CHAPTER 6.5; 40 CFR 261.1***	ADMIN RECORD	FS GW		SOUTHWEST DIVISION - BLDG. 12
RPT N68711-92-D-4670	00037 01.1	K. KAPUR NAVFAC - SOUTHWEST DIVISION			HAZ WASTE IDWMP		12
00005					MONITORING RI SB WATER WELLS		PALLET 14 - SW04021201 IMAGED LBSY_002
N60258 / 000325 NONE	10-21-1994 04-25-1994	BECHTEL NATIONAL, INC. K. KAPUR	TECHNICAL MEMORANDUM NO. 1 - DRAFT TECHNICAL MEMORANDUM AERIAL PHOTOGRAPHY REVIEW AND REVISED SAMPLING RECOMMENDATIONS CTO-0037	ADMIN RECORD	FS OU	012	SOUTHWEST DIVISION - BLDG. 1
RPT N68711-92-D-4670	00037 01.1	K. KAPUR NAVFAC - SOUTHWEST DIVISION			RI SAP		
00028					SB TECH MEMO TOC WELLS		PROBLEM PROBLEM SHELVING
N60258 / 000326 NONE	10-21-1994 04-25-1994	BECHTEL NATIONAL, INC. K. KAPUR	DRAFT REMEDIAL INVESTIGATION/FEASIBILITY STUDY RISK ASSESSMENT WORK PLAN CTO-0037	ADMIN RECORD	CHAR FS	008 009	SOUTHWEST DIVISION - BLDG. 12
RPT N68711-92-D-4670	00037 04.3	K. KAPUR NAVFAC - SOUTHWEST DIVISION			RA RI	010 011	12
00034					RISK WORK PLAN	012 013	PALLET 14 - SW04021201 IMAGED LBSY_002
N60258 / 000327 NONE	10-21-1994 04-25-1994	BECHTEL NATIONAL	DRAFT DATA MANAGEMENT PLAN CTO-0037	ADMIN RECORD	DATA DMP FS	008 009 010	SOUTHWEST DIVISION - BLDG. 12
RPT N68711-92-D-4670	00037 01.1	NAVFAC - SOUTHWEST DIVISION			HISTORIC	011	
00146					LAB OU QAPP RI SAP	012 013 OU 4 OU 5	PALLET 14 - SW04021201 IMAGED LBSY_002

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N60258 / 000328 NONE	10-21-1994 04-25-1994	BECHTEL NATIONAL	DRAFT INVESTIGATION DERIVED WASTE (IDW) MANAGEMENT PLAN CTO-0037. ***COMMENTS: CCR, TITLE 22, CHAPTER 11; CA HEALTH & SAFETY CODE, DIVISION 20, CHAPTER 6.5; 40 CFR 261.1***	ADMIN RECORD	DRUMS FS		SOUTHWEST DIVISION - BLDG. 1
RPT N68711-92-D-4670 00005	00037 01.1				GW IDWMP MONITORING		TO BE DELETED
					RI SB TANK WATER WELLS		
N60258 / 000789 NONE	11-21-1994 05-01-1994	BECHTEL NATIONAL K. KAPUR K. KAPUR	TECHNICAL MEMORANDUM NO. 2 REVISED FINAL TECHNICAL MEMORANDUM PROPOSED MODIFICATION TO FINAL RI/FS PLAN	ADMIN RECORD	FS GW	001 002	SOUTHWEST DIVISION - BLDG. 1
RPT N68711-92-D-4670 00018	00015 04.3				RI SAP TECH MEMO	003 004 005	PROBLEM FILE CABINET
					WELLS	006A 007	
N60258 / 000792 NONE	11-21-1994 05-01-1994	BECHTEL NATIONAL K. KAPUR K. KAPUR NAVFAC - SOUTHWEST DIVISION	TECHNICAL MEMORANDUM NO. 1 REVISED FINAL TECHNICAL MEMORANDUM FACILITY WIDE LIMITED	ADMIN RECORD	DATA FS	005 006A	SOUTHWEST DIVISION - BLDG. 1
RPT N68711-92-D-4670 00030	00016 01.1				GW RI		
					TECH MEMO		PROBLEM PROBLEM SHELVING
					WELLS		
N60258 / 000332 SWDIV SER 1832.JJ/382 1832.JJ/382 LTR N68711-92-D-4670 00057	10-21-1994 05-03-1994 00037 00037 01.1	BECHTEL NATIONAL K. KAPUR K. KAPUR NAVFAC - SOUTHWEST DIVISION J. JOYCE	DRAFT HEALTH AND SAFETY PLAN SUPPLEMENT - INCLUDES SWDIV TRANSMITAL LETTER BY J. JOYCE (SEE AR #281 - SITE HEALTH AND SAFETY PLAN)	ADMIN RECORD	FS H&SP	008 009	SOUTHWEST DIVISION - BLDG. 12 12
					MONITORING PERMIT RI	010 011 012	
					TANK	013	PALLET 14 - PALLET 14 - SW04021201 IMAGED LBSY_002

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N60258 / 000329 NONE MISC NONE 00002	10-21-1994 05-04-1994 NONE 10.6	PRESS- TELEGRAM PUBLIC	NEWS ARTICLE, 'CLINTON MAY MOVE BASE CLOSINGS TO '97'	ADMIN RECORD INFO REPOSITORY	NEWSART		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021201 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021201 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021201 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000330 NONE MISC NONE 00001	10-21-1994 05-05-1994 NONE 10.6	PRESS- TELEGRAM PUBLIC	NEWS ARTICLE, 'DELAY COULD HELP L.B. SHIPYARD'	ADMIN RECORD INFO REPOSITORY	NEWSART		
N60258 / 000331 NONE MISC NONE 00002	10-21-1994 05-05-1994 NONE 10.6	PRESS- TELEGRAM PUBLIC	NEWS ARTICLE, 'FEWER BASES MAY GET AX IN 1995'	ADMIN RECORD INFO REPOSITORY	NEWSART		
N60258 / 000334 NONE MISC NONE 00001	10-21-1994 05-08-1994 NONE 10.6	PRESS- TELEGRAM PUBLIC	NEWS ARTICLE, NEXT ROUND OF BASE CLOSINGS	ADMIN RECORD INFO REPOSITORY	NEWSART		

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N60258 / 000788 CTO-0015/0152, 0016/0155. 0016/0155. 0026/0094, & 0043/0031 MM NONE 00005	11-21-1994 05-12-1994 15, 16, 26, 43 15, 16, 26, 43 04.3		12 MAY 1994 MONTHLY STATUS MEETING MINUTES FOR CTO-015, 016, 026 (RI/FS) AND 043 (SI)	ADMIN RECORD	FS MTG MINS RI	006B	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022601 IMAGED LBSY_003
N60258 / 000648 SWDIV SER 1832.JJ/406 1832.JJ/406 LTR NONE 00005	11-01-1994 05-17-1994 NONE NONE 01.1	NAVFAC - SOUTHWEST DIVISION DIVISION J. JOYCE TIDELANDS OIL PROD M. SHEMARIA	ACCESS TO COLLECT HYDROPUNCH SAMPLES AND INSTALL A MONITORING WELL ON TIDELANDS PROPERTY (MISSING ENCL: ATTACHMENTS 1 AND 2)	ADMIN RECORD	DATA DRUMS FS GW IRP MONITORING RI WELLS	011 012	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000807 NONE MISC NONE 00008	11-21-1994 05-17-1994 00017 10.4		RAB COMMUNITY MEETING HELD MAY 17, 1994 AGENDA AND MINUTES	ADMIN RECORD INFO REPOSITORY	CERCLA RAB		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022601 IMAGED LBSY_003
N60258 / 000336 NONE LTR N68711-92-D-4673 00010	10-21-1994 05-19-1994 NONE 01.1	BROWN AND CALDWELL D.G. WHITTAKER D.G. WHITTAKER NAVFAC - SOUTHWEST DIVISION E. DIENZO	MEETING MINUTES RCRA PART B PERMIT APPLICATION INCLUDING INITIAL MEETING 05/09/94	ADMIN RECORD	COST PERMIT RCRA		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE

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N60258 / 000377 NONE MISC MISC NONE 00001	10-24-1994 05-19-1994 NONE NONE 10.6	PRESS- TELEGRAM	NEWS ARTICLE, 'BILL COULD GIVE SHIPYARD MORE WORK' (REPAIRING OR OVERHAULING AGING US WARSHIPS HEADING FOR FOREIGN SEAS)	ADMIN RECORD INFO REPOSITORY	NEWSART		SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000260 SER 64.2/261 LTR LTR NONE 00008	12-08-2003 05-24-1994 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION K. KESLER SAN PEDRO REUSE COMM D. LIU	TRANSMITTAL OF EXPRESSION OF INTEREST FROM LONG BEACH UNIFIED SCHOOL DISTRICT, LOS ANGELES UNIFIED SCHOOL DISTRIC AND THE PORT OF LOS ANGELES FOR THE SEASIDE AVENUE PARCEL	ADMIN RECORD INFO REPOSITORY			PALLET 14 - SW04021202 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000338 NONE MISC NONE 00002	10-21-1994 05-24-1994 NONE 10.6	PRESS- TELEGRAM	NEWS ARTICLE, 'HIGH COURT OK'S BASE CLOSINGS'	ADMIN RECORD INFO REPOSITORY	NEWSART		PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000620 NONE MEMO N68711-92-D-6173 00049	10-31-1994 05-24-1994 NONE 01.1	M.A. VIEUX	HEALTH & SAFETY PLAN PROPOSED DRMO RELOCATION LOT X PREPARED FOR BROWN & ROOT SERVICES CORPORATION (SEE AR #619 - ADDENDUM TO THE HEALTH AND SAFETY	ADMIN RECORD	H&SP MONITORING RA SB		PALLET 14 - SW04021201 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12
							PALLET 14 - SW04022601 IMAGED LBSY_003

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N60258 / 000339 NONE MISC NONE 00001	10-21-1994 05-30-1994 NONE 10.6	PRESS- TELEGRAM	NEWS ARTICLE, 'SAVE SHIPYARD, SAVE MONEY'	ADMIN RECORD INFO REPOSITORY	NEWSART		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000790 NONE LTR NONE 00001	11-21-1994 05-31-1994 NONE 03.0	TIDELANDS W.T. SMITH NAVFAC - SOUTHWEST DIVISION J. JOYCE	APPROVAL TO CONDUCT RI/FS ACTIVITIES ON TIDELANDS PROPERTY	ADMIN RECORD	FS RI		PALLET 14 - SW04021201 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000340 SWDIV SER RE/00176 RE/00176 MEMO N47408-92-D-3056 00004	10-21-1994 06-01-1994 NONE NONE 00.0	NAVFAC - SOUTHWEST DIVISION DIVISION K.R. BARRE NSY LONG COMMANDING OFFICER	PAINTS & SOLVENTS REMOVAL ACTION , SITE 11 - INCLUDES SWDIV TRANSMITTAL LETTER	ADMIN RECORD	RA REMOVAL SOLVENTS	011	PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021201 IMAGED LBSY_002

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N60258 / 000341 NONE	10-21-1994 06-08-1994	DTSC A. GUTIERREZ	COMMENTS TO REMEDIAL INVESTIGATION/FEASIBILITY (FI/FS) STUDY SUPPLEMENTS	ADMIN RECORD	COMMENTS DMP		SOUTHWEST DIVISION - BLDG. 12 12
LTR N68711-92-D-4670	00037 04.3	NAVSTA/NSY LB			FS GW		
00006					H&SP IDWMP MONITORING RA RI SAP TECH MEMO WELLS		PALLET 14 - SW04021201 IMAGED LBSY_002
N60258 / 000342 NONE LTR NONE	10-21-1994 06-10-1994 NONE 01.1	BROWN AND CALDWELL G. KHOURY NAVFAC - SOUTHWEST DIVISION J. GARCIA	RCRA PART B PERMIT APPLICATION WASTE ANALYSIS PLAN (WAP)	ADMIN RECORD	COMMENTS PERMIT RCRA		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000617 NONE	10-31-1994 06-13-1994	NAVFAC - SOUTHWEST DIVISION DIVISION M.A. VIEUX BROWN & ROOT	DISAPPROVAL OF DRMO RELOCATION SITE SPECIFIC HEALTH AND SAFETY PLAN. ***COMMENTS: CCR TITLE 26 SECTION 8-5192 HAZ WASTE OPER & EMERG RESPONSE***	ADMIN RECORD	COMMENTS H&SP	006A	SOUTHWEST DIVISION - BLDG. 12 12
LTR N68711-92-D-6173	NONE 01.1						PALLET 14 - SW04021202 IMAGED LBSY_003
00005							

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N60258 / 000390 NONE MISC NONE 00002	10-24-1994 06-16-1994 NONE 10.6	PRESS- TELEGRAM	NEWS ARTICLE, 'NAVY HINTS L.B. YARD WILL BE KEPT OPEN'	ADMIN RECORD INFO REPOSITORY	NEWSART		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000343 NONE MISC NONE 00002	10-21-1994 06-20-1994 NONE 10.6	PRESS- TELEGRAM	NEWS ARTICLE, 'L.B. LOBBYING HARD FOR NAVY SHIPYARD'	ADMIN RECORD INFO REPOSITORY	NEWSART		PALLET 14 - SW04021202 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000808 NONE MISC NONE 00026	11-21-1994 06-21-1994 00017 10.4		RAB COMMUNITY MEETING HELD JUNE 21, 1994 AGENDA, MINUTES, AND	ADMIN RECORD INFO REPOSITORY	FS IRP RAB RI		PALLET 14 - SW04021202 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000619 NONE LTR NONE 00009	10-31-1994 06-22-1994 NONE 01.1	M&T AGRA BROWN & ROOT B. NINTEMANN	ADDENDUM TO HEALTH AND SAFETY PLAN (HASP) PROPOSED DRMO RELOCATION LOT X (SEE AR #620 - HEALTH AND SAFETY PLAN). ***COMMENTS: COMMENTS FROM BSRC DATED 15 JUNE 1994 WAS NOT SUBMITTED TO ADMINISTRATIVE	ADMIN RECORD	COMMENTS H&SP HAZMAT RA		PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022601 IMAGED LBSY_003

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N60258 / 000344 NONE	10-21-1994 06-23-1994	NSY LONG T.G. AVGERINOS	COMMENTS TO FINAL DRAFT FOR YD-258 INTERNAL COMBUSTION ENGINE PERMIT APPLICATION	ADMIN RECORD	COMMENTS PERMIT		SOUTHWEST DIVISION - BLDG. 1
LTR N68711-92-D-4671 00001	NONE 01.1	NAVFAC - SOUTHWEST DIVISION S. RUBERLOFF					POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000618 NONE	10-31-1994 06-23-1994	BROWN & ROOT B. NINTEMAN	ADDENDUM TO SITE SPECIFIC HEALTH AND SAFETY PROGRAM FOR DRMO RELOCATION	ADMIN RECORD	H&SP HAZMAT	006A	SOUTHWEST DIVISION - BLDG. 1
LTR N68711-92-D-6173 00002	NONE 01.1	DON BERRY			SB		PROBLEM SHELVING
N60258 / 000346 NONE MISC NONE 00003	10-21-1994 06-28-1994 NONE 10.6	PRESS- TELEGRAM	NEWS ARTICLE, 'NAVY BRASS PULLS UP ANCHOR'	ADMIN RECORD INFO REPOSITORY	NEWSART		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021202 IMAGED LBSY_002
N60258 / 000348 NONE MISC NONE 00001	10-21-1994 06-30-1994 NONE 10.6	PRESS- TELEGRAM	NEWS ARTICLE, 'THE DEPARTING NAVAL STATION' (ALSO TALKS ABOUT THE SHIPYARD CLOSING)	ADMIN RECORD INFO REPOSITORY	NEWSART		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021202 IMAGED LBSY_002

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N60258 / 000386 NONE MISC NONE	10-24-1994 07-01-1994 NONE 10.6		REMOVAL ACTION, SITE 12, FACT SHEET NO. 3	ADMIN RECORD	CERCLA DRUMS FACT SHEET FS	012	SOUTHWEST DIVISION - BLDG. 12
00004					HAZ WASTE IRP REMOVAL RI SARA		PALLET 14 - SW04021202 IMAGED LBSY_002
N60258 / 000905 NONE	04-23-1997 07-01-1994	BECHTEL NATIONAL, INC. C. SHERMAN C. SHERMAN NAVFAC - SOUTHWEST DIVISION	FINAL HEALTH AND SAFETY PLAN SUPPLEMENT (SEE AR #389 - DTSC COMMENTS)	ADMIN RECORD	FS H&SP	008 009	SOUTHWEST DIVISION - BLDG. 1
RPT N68711-92-D-4670	00037 03.5				RI TCE	010 011	
00054						012 013	PROBLEM PROBLEM SHELVING
N60258 / 000350 NONE MISC NONE 00002	10-21-1994 07-07-1994 NONE 10.6	PRESS- TELEGRAM	NEWS ARTICLE, 'RESCUING, REUSING NAVY SITES IN LONG BEACH'	ADMIN RECORD INFO REPOSITORY	BRAC NEWSART		SOUTHWEST DIVISION - BLDG. 12
							PALLET 14 - SW04021202 IMAGED LBSY_002
N60258 / 000616 NONE	10-31-1994 07-07-1994	DTSC A. GUTIERREZ	COMMENTS ON HEALTH AND SAFETY PLAN PROPOSED DRMO RELOCATION SITE 12 LOT X. ***COMMENTS: 29 CFR	ADMIN RECORD	COMMENTS H&SP	006A 012	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 01.1	BROWN & ROOT B. NINTEMAN			HAZ WASTE		12
00002							PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000798 NONE FAX NONE 00004	11-21-1994 07-10-1994 NONE 01.1	NAVFAC - SOUTHWEST DIVISION DIVISION A. LEE BECHTEL NATIONAL K. KAPUR	TRANSMITTAL OF MEMO FROM OFFICE OF COUNSEL REGARDING PERMIT TO DRILL MONITORING WELLS (COMMENTS BY LEGAL COUNCIL"	ADMIN RECORD CONFIDENTIAL	HAZ WASTE MONITORING WELLS		SOUTHWEST DIVISION - BLDG. 1 BNI - 12/11/03 BNI - 12/11/03
N60258 / 000351 NONE MISC NONE 00001	10-21-1994 07-13-1994 NONE 10.6	PRESS- TELEGRAM	NEWS ARTICLE, 'EDISON GIVING UP TO \$40,000 FOR SHIPYARD'	ADMIN RECORD INFO REPOSITORY	NEWSART		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021202 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000389 NONE LTR NONE 00002	10-24-1994 07-13-1994 NONE 01.1	DTSC A.A. ARELLANO NSY LONG B. JANOV	COMMENTS ON FINAL HEALTH AND SAFETY PLAN SUPPLEMENT (SEE AR #905 - FINAL HASP). ***COMMENTS: 29 CFR 1910.12***	ADMIN RECORD	COMMENTS FS H&SP RI		PALLET 14 - SW04021202 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000643 NONE MM NONE 00004	11-01-1994 07-13-1994 00037 04.0		MONTHLY REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) STATUS MEETING (HARD TO READ)	ADMIN RECORD	ARAR COMMENTS FS H&SP IDWMP PRG RI SAP SI		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000352 NONE	10-21-1994 07-15-1994	IT CORPORATION J.M. RICHARDS	PAINTS AND SOLVENTS REMOVAL, SITE 11 SEED MIX AND THE CIRCUMSTANCES UNDER WHICH HYDROSEEDING WAS PERFORMED	ADMIN RECORD	REMOVAL SMP	011	SOUTHWEST DIVISION - BLDG. 12 12
LTR N47408-92-D-3056	00008 02.0	NAVFAC - SOUTHWEST DIVISION					
00026		J. JOYCE					PALLET 14 - SW04021202 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000353 NONE	10-21-1994 07-15-1994	NAVFAC - SOUTHWEST DIVISION DIVISION M. RADECKI DISTRIBUTION	TRANSMITTAL OF FINAL DMP, FINAL RA WORK PLAN, FINAL INVESTIGATION DERIVED WASTEMANAGEMENT PLAN, FINAL TECHNICAL MEMORANDUM NO. 1 (ENCLOSURES CAN BE FOUND IN AR #354 THROUGH #357)	ADMIN RECORD	DMP IDWMP RA TECH MEMO		PALLET 14 - SW04021202 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12
LTR N68711-92-D-4670 00004	00037 01.1						
N60258 / 000354 NONE RPT N68711-92-D-4670 00153	10-21-1994 07-18-1994 00037 01.1	BECHTEL NATIONAL, INC. A. MASVIDAL	FINAL DATA MANAGEMENT PLAN CTO-0037	ADMIN RECORD	COMMENTS DMP FS GW LAB OU QAPP RI SAP		PALLET 14 - SW04021202 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000355 NONE	10-21-1994 07-18-1994	BECHTEL NATIONAL, INC. K. KAPUR K. KAPUR NAVFAC - SOUTHWEST DIVISION	FINAL TECHNICAL MEMORANDUM NO. 1 FINAL TECHNICAL MEMORANDUM AERIAL PHOTOGRAPHY REVIEW AND REVISED SAMPLING RECOMMENDATIONS CTO-0037 SITE 12	ADMIN RECORD	COMMENTS FS RI SAP TECH MEMO	012	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021202 IMAGED LBSY_002
RPT N68711-92-D-4670 00033	00037 01.1						

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N60258 / 000356 NONE	10-21-1994 07-18-1994	BECHTEL NATIONAL, INC. K. KAPUR	FINAL REMEDIAL INVESTIGATION/FEASIBILITY STUDY RISK ASSESSMENT WORK PLAN	ADMIN RECORD	CHAR FS		SOUTHWEST DIVISION - BLDG. 12
RPT N68711-92-D-4670	00037 04.3	K. KAPUR NAVFAC - SOUTHWEST DIVISION			GW HAZ WASTE		12
00036					RI RISK SAP WORK PLAN		PALLET 14 - SW04021202 IMAGED LBSY_002
N60258 / 000357 NONE	10-21-1994 07-18-1994	BECHTEL NATIONAL K. KAPUR	FINAL INVESTIGATION DERIVED WASTE (IDW) MANAGEMENT PLAN CTO-0037	ADMIN RECORD	COMMENTS FS		SOUTHWEST DIVISION - BLDG. 12
RPT N68711-92-D-4670	00037 01.1				GW HAZ WASTE IDWMP		
00008					LAB RI SB		PALLET 14 - SW04021202 IMAGED LBSY_002
N60258 / 000376 NONE	11-17-1994 07-19-1994	NAVFAC - SOUTHWEST DIVISION	RAB COMMUNITY MEETING HELD JULY 19, 1994 AGENDA, MINUTES, IR INDEX, IRP REMOVAL ACTION , SITE 11, HANDOUT	ADMIN RECORD INFO REPOSITORY REPOSITORY	IRP RA	011	SOUTHWEST DIVISION - BLDG. 12
MISC MISC NONE	00017 00017 10.4	DIVISION			RAB REMOVAL		12
00029							
N60258 / 000615 NONE	10-31-1994 07-27-1994	DTSC C. BEST	COMMENTS ON FACT SHEET FOR SITE 12	ADMIN RECORD	COMMENTS FS	012	PALLET 14 - SW04021202 IMAGED LBSY_002
LTR NONE	NONE 10.1	NSY LONG A. ULASZEWSKI			GW RI		SOUTHWEST DIVISION - BLDG. 12
00002					SB		
							PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000614 NONE LTR NONE	10-31-1994 07-29-1994 NONE 10.1	DTSC C. BEST NSY LONG A. ULASZEWSKI	COMMENTS ON DRAFT FINAL FACT SHEET	ADMIN RECORD	COMMENTS RA REMOVAL VOC	012	SOUTHWEST DIVISION - BLDG. 12
00001							PALLET 14 - SW04021202 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000368 NONE MISC NONE 00001	10-24-1994 08-07-1994 NONE 10.6	PRESS- TELEGRAM	NEWS ARTICLE, 'PRAISE AND PILLORY' SHIPYARD OUTPERFORMS SEVEN OTHER YARDS IN WASTE	ADMIN RECORD INFO REPOSITORY	NEWSART		PALLET 14 - SW04021202 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000650 NONE LTR NONE 00003	11-01-1994 08-09-1994 NONE 10.2	DTSC C. BEST NAVFAC - SOUTHWEST DIVISION M. RADACKI	RECOMMENDATIONS BASED ON OBSERVATIONS OF 07/19/94 RESTORATION ADVISORY BOARD	ADMIN RECORD	IRP RAB TRC		PALLET 14 - SW04021203 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000609 NONE LTR NONE 00017	10-31-1994 08-15-1994 NONE 02.0	NSY LONG L.H. SMITH RWQCB H.R. MARLEY	RESULTS OF LYSIMETER SAMPLING ON INSTALLATION RESTORATION SITE 11	ADMIN RECORD	DATA IRP	011	PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000642 NONE	11-01-1994 08-16-1994		MONTHLY REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) STATUS MEETING	ADMIN RECORD	ARAR FS		SOUTHWEST DIVISION - BLDG. 12
MM NONE	00037 04.0				LAB PCE		12
00004					PRG		
					REMOVAL RI TANK TCE		PALLET 14 - SW04021202 IMAGED LBSY_003
N60258 / 000757 NONE	11-21-1994 08-16-1994		MONTHLY STATUS MEETING AGENDA AND MINUTES, RI/FS ACTIVITIES AND FACILITY-WIDE INVESTIGATION. ***COMMENTS: ALSO COVERS ACTIVITIES UNDER CTO-0015 (CTO-0015/0196), CTO- 0016 (CTO-0016/0194) AND CTO-0043 (CTO-	ADMIN RECORD	ARAR DATA	006B	SOUTHWEST DIVISION - BLDG. 1
MM NONE 00004	00015 04.3				FS LAB RA		PROBLEM FILE CABINET
					RI		
N60258 / 000388 NONE MISC NONE 00001	10-24-1994 08-21-1994 NONE 10.6	PRESS- TELEGRAM	NEWS ARTICLE, 'SHIPYARD IN L.B. MAY GET WORK'	ADMIN RECORD INFO REPOSITORY	NEWSART		SOUTHWEST DIVISION - BLDG. 12
							PALLET 14 - SW04021202 IMAGED LBSY_002
N60258 / 000647 NONE	11-01-1994 09-07-1994	R. TALMAGE	TELEPHONE CONVERSATION TO INFORM THAT SHOP 3 HAD TESTED CIRCUIT ON REPAIRED WIRING NORTH OF BLDG 129	ADMIN RECORD	MONITORING WELLS		SOUTHWEST DIVISION - BLDG. 12
TEL NONE	00037 01.1	B. HARDIN					12
00001							
							PALLET 14 - SW04021203 IMAGED LBSY_003

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N60258 / 000653 NONE	11-01-1994 09-07-1994	DTSC A.A. ARELLANO	APPROVAL OF REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) SUPPLEMENTS	ADMIN RECORD	FS IDWMP		SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 04.3	NAVSTA/NSY LB			RA RI		12
00002					TECH MEMO		
							PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000656 NONE CORRESP NONE	11-01-1994 09-07-1994 NONE 10.0	DTSC C. BEST R.R. JAKOB	RESPONSE TO QUESTIONS ASKED AT A MEETING DATED 07/27/94	ADMIN RECORD CONFIDENTIAL	COST RAB		SOUTHWEST DIVISION - BLDG. 12
00005							
							PALLET 14 - SW04021203 IMAGED LBSY_003
N60258 / 000387 NONE	10-24-1994 09-12-1994	NSY LONG J.A. PICKERING	ACTION MEMORANDUM FOR REMOVAL ACTION AT SITE 12. ***COMMENTS: 10 USC 2705; FEDERAL EXECUTIVE ORDER 12580; NCP 300.415(B)(2); 42 USC 9604***	ADMIN RECORD	ACTMEMO DRUMS	012	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 02.5	EPA			FS NCP		12
00011					RCRA		
					REMOVAL RFA RI SI VOC		PALLET 14 - SW04021202 IMAGED LBSY_002
N60258 / 000766 NONE	11-21-1994 09-20-1994	NAVFAC - SOUTHWEST DIVISION	20 SEPTEMBER 1994 RESTORATION ADVISORY BOARD (RAB) COMMUNITY MEETING MINUTES - INCLUDES AGENDA, RAB MEETING NOTICE, HANDOUTS, [PORTION OF MAILING LIST IS CONFIDENTIAL]	ADMIN RECORD CONFIDENTIAL	FS MTG MINS	001 002	SOUTHWEST DIVISION - BLDG. 12
MISC NONE 00033	00017 10.4	DIVISION RAB MEMBERS		INFO REPOSITORY	RAB RI	003 004 005	12
						006A	PALLET 14 - SW04021204 IMAGED LBSY_003

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N60258 / 000641 NONE	11-01-1994 09-21-1994		MONTHLY REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) STATUS MEETING	ADMIN RECORD	BRAC COMMENTS		SOUTHWEST DIVISION - BLDG. 12
MM NONE	00037 04.0				DATA DERA		12
00002					FS		
					GW RA REMOVAL RI RISK		PALLET 14 - SW04021202 IMAGED LBSY_003
N60258 / 000810 NONE LTR N68711-92-D-4673	01-04-1995 09-27-1994 00027 01.1	BROWN AND CALDWELL D.G. WHITTAKER NAVFAC - SOUTHWEST DIVISION E. DIENZO	UPDATED REVISED SUBMITTAL SCHEDULE RCRA PART B PERMIT	ADMIN RECORD	PERMIT RCRA		SOUTHWEST DIVISION - BLDG. 12
00003							PALLET 14 - SW04022601 IMAGED LBSY_003
N60258 / 000907 NONE LTR N68711-92-D-4673	04-23-1997 10-24-1994 DO 27 01.1	BROWN AND CALDWELL D. WHITTAKER D. WHITTAKER NAVFAC - SOUTHWEST DIVISION E. DIENZO	PART A AND PART B PERMIT APPLICATION AND BUILDING 314 OPERATION PLAN (W/O ENCL)	ADMIN RECORD	PERMIT	BLDG. 314	SOUTHWEST DIVISION - BLDG. 1
00002							PROBLEM PROBLEM SHELVING
N60258 / 000814 NONE MISC MISC NONE 00039	01-05-1995 11-15-1994 00017 00017 10.4	RESTORATION ADVISORY PUBLIC INTEREST	RESTORATION ADVISORY BOARD (RAB) COMMUNITY MEETING HELD 15 NOVEMBER 1994 AGENDA, RAB MEETING NOTICE, AND HANDOUT	ADMIN RECORD INFO REPOSITORY	BRAC RAB		SOUTHWEST DIVISION - BLDG. 12 12
							PALLET 14 - SW04022601 IMAGED LBSY_003

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N60258 / 000816 NONE	03-08-1995 11-15-1994	RADIAN CORPORATION M. HATCH	ADDENDUM TO YD-258 INTERNAL COMBUSTION ENGINE PERMIT APPLICATION	ADMIN RECORD	PERMIT RISK		SOUTHWEST DIVISION - BLDG. 1
LTR N68711-92-D-4671 00150	DO 0021 01.1	M. HATCH SCAQMD J. TRAMMA					PROBLEM SHELVING
N60258 / 000811 NONE MISC NONE 00003	01-04-1995 11-17-1994 NONE 10.6	PRESS- TELEGRAM	NEWS ARTICLE, "SHIPYARD BACK ON HIT LIST", "NAVY CONSIDERING RECOMMENDATION TO SHUT IT DOWN"	ADMIN RECORD INFO REPOSITORY	NEWSART		SOUTHWEST DIVISION - BLDG. 12
							PALLET 14 - SW04022601 IMAGED LBSY_003
N60258 / 000813 NONE MISC NONE 00002	01-04-1995 11-18-1994 NONE 10.6	PRESS- TELEGRAM PUBLIC INTEREST	NEWS ARTICLE, "NAVY SAYS SHIPYARD IS AT RISK"	ADMIN RECORD INFO REPOSITORY	NEWSART		SOUTHWEST DIVISION - BLDG. 12
							PALLET 14 - SW04022601 IMAGED LBSY_003
N60258 / 000909 NONE	04-23-1997 11-21-1994	CRWQCB LOS ANGELES J. ROSS	REVIEW OF DRAFT ENVIRONMENTAL SOIL AND GROUNDWATER INVESTIGATION REPORT (W/O ENCL). ***COMMENTS: DRAFT ENVIRONMENTAL SOIL AND GROUNDWATER INVESTIGATION REPORT	ADMIN RECORD	GW INVESTIGATION		SOUTHWEST DIVISION - BLDG. 12
LTR NONE 00003	NONE 01.4	NAVFAAC - SOUTHWEST DIVISION S. RUBALOFF	WAS NOT SUBMITTED TO ADMINISTRATIVE RECORDS.***		SOIL		PALLET 14 - PALLET 14 - SW04022602 IMAGED LBSY_004

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N60258 / 000910 NONE LTR NONE 00001	04-23-1997 11-23-1994 NONE 01.4	NAVFAC - SOUTHWEST DIVISION DIVISION M. RADECKI CITY OF LONG BEACH X. COLAZAS	APPRECIATION TO D. C. CLARKE AND R. STRAHLE FOR COOPERATION WITH DON IN EFFORTS IN PREPARING THE RI/FS	ADMIN RECORD	PR		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022602 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000812 NONE MISC NONE 00002	01-04-1995 11-29-1994 NONE 10.6	PRESS- TELEGRAM PUBLIC INTEREST	NEWS ARTICLE, "PROPOSAL RUNS OUT OF POWER, LATEST SHIPYARD PLAN MAY BE DELAYED AND MAY NOT WORK AT	ADMIN RECORD INFO REPOSITORY	NEWSART		PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000962 NONE MISC NONE 00003	09-22-1997 12-08-1994 NONE 11.6	NAVSHPYD LONG BEACH VARIOUS AGENCIES	RECEIPT AND RESOLUTION OF REPORT OF VIOLATION (TWX REPLY TO VIOLATION QUESTIONNAIRE) (ORIGINAL MESSAGE 3 PAGES; 2 PAGES ON FILE)	ADMIN RECORD	TANK		PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000809 NONE MISC NONE 00003	01-03-1995 01-03-1995 00017 10.0		RESTORATION ADVISORY BOARD MEMBERS	ADMIN RECORD INFO REPOSITORY	RAB		PALLET 14 - SW04022601 IMAGED LBSY_003

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N60258 / 000817 NONE LTR NONE 00002	03-08-1995 01-05-1995 NONE 03.3	RWQCB J.E. ROSS NAVFAC - SOUTHWEST DIVISION S. RUBALOFF	COMMENTS TO DRAFT PROJECT WORK PLANS REMEDIATION OF BUILDING 144	ADMIN RECORD	GW LAB MONITORING TPH WELLS		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000815 NONE MISC NONE 00004	01-05-1995 01-17-1995 00017 10.4	RESTORATION ADVISORY PUBLIC INTEREST	RESTORATION ADVISORY BOARD (RAB) COMMUNITY MEETING HELD 17 JANUARY 1994 AGENDA, RAB MEETING NOTICE	ADMIN RECORD INFO REPOSITORY	BCP RAB		PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000913 NONE LTR N68711-92-D-4671 00003	04-23-1997 02-03-1995 DO 21 01.6	RADIAN CORPORATION R. BEAUREGARD NAVFAC - SOUTHWEST DIVISION S. RUBALOFF	PROJECT PERFORMANCE APPRAISAL	ADMIN RECORD	DATA		PALLET 14 - SW04022601 IMAGED LBSY_003 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000860 NONE MISC N68711-92-D-4670 00009	06-05-1996 03-21-1995 00017 10.5		RAB MEETING NOTICE, AGENDA, MINUTES OF MEETING, AND SCHEDULE OF MEETINGS	ADMIN RECORD INFO REPOSITORY	RAB		PALLET 14 - SW04022602 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12
							PALLET 14 - SW04022602 IMAGED LBSY_004

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N60258 / 000929 SWDIV SER 1832.KB/579 1832.KB/579 LTR NONE 00003	06-10-1997 04-06-1995 NONE NONE 01.6	NAVFAC - SOUTHWEST DIVISION DIVISION M. RADECKI PORT OF LONG BEACH G. KNATZ	REQUEST FOR ADDENDUM ON THE PERMIT TO INCLUDE THE WORK DESCRIBED BELOW (PERMIT # 94018)	ADMIN RECORD	ADPM PERMIT REQUEST	008 009 010 011 012 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000914 NONE LTR NONE 00005	04-24-1997 04-11-1995 NONE 03.3	CRWQCB MONTEREY PARK J. ROSS J. ROSS NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	COMMENTS TO FINAL SITE REMEDIATION WORK PLAN - UST REMEDIATION OF BUILDING 144	ADMIN RECORD	COMMENTS SV UST WORK PLAN	BLDG. 144	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000820 NONE LTR NONE 00020	07-17-1995 04-14-1995 NONE 01.1	BROWN & CALDWELL D.G. WHITTAKER D.G. WHITTAKER NAVFAC - SOUTHWEST DIVISION E. DIENZO	RESOURCE CONSERVATION AND RECOVERY ACT PART B PERMIT APPLICATION RENEWAL; RESPONSES TO ADDITIONAL NAVY COMMENTS, BUILDING 314, TREATMENT STORAGE DISPOSAL FACILITY OPERATION PLAN	ADMIN RECORD	COMMENTS PERMIT RCRA RESPONSE TSDF	BLDG. 314	SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING
N60258 / 000861 NONE MISC N68711-92-D-4670 00007	06-05-1996 04-18-1995 00017 10.5		RAB MEETING NOTICE, AGENDA, MINUTES OF MEETING	ADMIN RECORD INFO REPOSITORY	RAB		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022602 IMAGED LBSY_004

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N60258 / 000915 NONE	04-24-1997 04-19-1995	NAVSHPYD LONG BEACH L. SMITH L. SMITH CRWQCB MONTEREY PARK	NOTIFICATION OF INTENT TO TRANSPORT EXTRACTED GW FROM BUILDING 144 TO NEX GAS STATION SITE FOR TREATMENT ANDDISPOSAL	ADMIN RECORD	DISPOSAL GW TREATMENT	BLDG. 144	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
LTR NONE 00003	NONE 01.6	MR. MARLEY					
N60258 / 000901 NONE RPT N47408-92-D-3056 00528	03-11-1997 05-01-1995 DO 0008 01.2	IT CORP NCBC PORT HUENEME	REMOVAL ACTION CLOSEOUT REPORT	ADMIN RECORD	DRY DOCK SHIPYARD	011	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022602 IMAGED LBSY_004

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N60258 / 000175 NONE	11-07-2001 05-15-1995	BECHTEL NATIONAL, INC. N. THOMAS	FINAL HEALTH AND SAFETY PLAN SUPPLEMENT, REVISION 1 (SEE AR #905 - REV 0)	ADMIN RECORD	ARAR COPC	008 009	SOUTHWEST DIVISION - BLDG. 1
PLAN N68711-92-D-4670	00037	N. THOMAS NAVFAC - SOUTHWEST DIVISION			DMP FS	010 011	
00125					GW	012	PROBLEM PROBLEM SHELVING
					H&SP PCB PEA PID QA QAPP QC RI SI SOIL SOLVENTS SVOC TCE TCP TPH UST VOC	013 BLDG. 303	
N60258 / 000862 NONE MISC N68711-92-D-4670	06-05-1996 05-16-1995 00017 10.5		RAB MEETING NOTICE, AGENDA, MINUTES OF MEETING	ADMIN RECORD INFO REPOSITORY	RAB		SOUTHWEST DIVISION - BLDG. 12
00007							PALLET 14 - SW04022602 IMAGED LBSY_004

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N60258 / 000835 NONE RPT RPT N68711-92-D-4670 00150	03-14-1996 05-18-1995 00037 00037 04.3	BECHTEL NATIONAL, INC. K. KAPUR K. KAPUR NAVFAC - SOUTHWEST DIVISION	DRAFT TECHNICAL MEMORANDUM NO. 2 REMEDIAL INVESTIGATION/FEASIBILITY STUDY	ADMIN RECORD INFO REPOSITORY REPOSITORY	FS RI TECH MEMO		SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING
N60258 / 000276 SWDIV SER RE/0711 LTR N47408-92-D-3056 00002	12-08-2003 05-24-1995 DO 0008 DO 0008	NAVFAC - SOUTHWEST DIVISION DIVISION COMMANDING OFFICER NSY LB RESIDENT OFFICER	TRANSMITTAL OF DRAWINGS TO BE MADE AVAILABLE TO APPROPRIATE MAINTENANCE PERSONNEL FOR REFERENCE (WITHOUT ENCLOSURES)	ADMIN RECORD INFO REPOSITORY			SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000865 NONE LTR N68711-92-D-4670 00075	08-19-1996 05-24-1995 00026 03.6	BECHTEL NATIONAL, INC. NAVFAC - SOUTHWEST DIVISION	FINAL ADDENDUM TO REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORK PLAN AND RISK ASSESSMENT	ADMIN RECORD	FS RI RISK WORK PLAN	007	SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING
N60258 / 000822 NONE LTR NONE 00004	09-27-1995 05-26-1995 NONE 01.1	NAVFAC - SOUTHWEST DIVISION DIVISION K. BAER TIDELANDS M. SHEMARIA	LOCATIONS OF PROPOSED TEMPORARY POINT SAMPLING LOCATIONS FOR RI/FS ACTIVITIES	ADMIN RECORD	FS IRP RCRA RI	BLDG. 129 BLDG. 314	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022601 IMAGED LBSY_003

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N60258 / 000863 NONE MISC N68711-92-D-4670	06-05-1996 06-20-1995 00017 10.5		RAB MEETING NOTICE, AGENDA, MINUTES OF MEETING	ADMIN RECORD INFO REPOSITORY	RAB		SOUTHWEST DIVISION - BLDG. 12
00008							PALLET 14 - SW04022602 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000838 NONE MISC N68711-92-D-4670 00009	03-26-1996 07-18-1995 00017 10.5	RESTORATION ADVISORY PUBLIC INTEREST	RESTORATION ADVISORY BOARD (RAB) MEETING NOTICE, AGENDA, AND MINUTES OF MEETING (PORTION OF MAILING LIST IS CONFIDENTIAL)	ADMIN RECORD CONFIDENTIAL INFO REPOSITORY	RAB		PALLET 14 - SW04022601 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000831 NONE LTR NONE	11-16-1995 07-19-1995 NONE 04.3	DTSC A. GUTIERREZ NSY LONG J. PICKERING	COMMENTS ON THE DRAFT TECHNICAL MEMORANDUM NO. 2 REMEDIAL INVESTIGATION/FEASIBILITY STUDY	ADMIN RECORD	FS RI TECH MEMO	011	PALLET 14 - SW04022601 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12 12
00007							PALLET 14 - SW04022601 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000843 NONE RPT N68711-92-D-4670 00350	04-15-1996 08-01-1995 00037 03.3	BNI K.K. KAPUR NAVFAC - SOUTHWEST DIVISION	FINAL TECHNICAL MEMORANDUM NO. 2 RI/FS (SIGNED 8/14/95)	ADMIN RECORD	FS RI TECH MEMO	008 009 010 011 012 013	PROBLEM PROBLEM SHELVING

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N60258 / 000827 NONE LTR N68711-92-D-4670 00006	11-16-1995 09-15-1995 NONE 01.1	POLB G. KNATZ NAVFAC - SOUTHWEST DIVISION M. RADECKE	MARINE BIOLOGICAL DATA	ADMIN RECORD	DATA HISTORIC		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000828 NONE MISC N68711-92-D-4670 00010	11-16-1995 09-19-1995 00017 10.3	RESTORATION ADVISORY PUBLIC INTEREST	RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES AGENDA AND NOTICE	ADMIN RECORD	RAB		PALLET 14 - SW04022601 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000839 NONE MISC N68711-92-D-4670 00009	03-26-1996 10-17-1995 00017 10.5	RESTORATION ADVISORY PUBLIC INTEREST	RESTORATION ADVISORY BOARD (RAB) MEETING NOTICE, AGENDA, AND MINUTES OF MEETING	ADMIN RECORD INFO REPOSITORY	RAB		PALLET 14 - SW04022601 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000866 NONE LTR NONE 00004	08-20-1996 11-06-1995 NONE 10.1	NAVFAC - SOUTHWEST DIVISION DIVISION A. LEE PORT OF LOS ANGELES R. GROVES	COMMENTS ON THE PORT'S DRAFT AQUIFER CHARACTERIZATION REPORT AND DRAFT GROUND WATER FLOW MODELING REPORT	ADMIN RECORD	COMMENTS GW	006A	PALLET 14 - SW04022601 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022602 IMAGED LBSY_004

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N60258 / 000837 NONE	03-18-1996 11-22-1995	BROWN & CALDWELL D.G. WHITTAKER	MEETING MINUTES FOR PART A & PART B PERMIT APPLICATION & BLDG 314 OPERATION PLAN, RESPONSETO COMMENTS FROM DTSC AND REQUEST FOR DIRECTION	ADMIN RECORD	PERMIT RCRA		SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE	NONE 01.1	D.G. WHITTAKER NAVFAC - SOUTHWEST DIVISION E. DIENZO					
00008							PALLET 14 - SW04022601 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000836 NONE	03-18-1996 12-04-1995	DTSC S.C. LEMIEUX	COMMENTS TO PIER 'T' MARINE TERMINAL NOTICE OF PREPARATION, DRAFT ENVIRONMENTAL IMPACT REPORT (EIR)	ADMIN RECORD	COMMENTS GW		
LTR NONE	NONE 01.1	POLB G. KNATZ			UST		
00003							
N60258 / 000854 NONE MISC MISC NONE	05-22-1996 12-15-1995 00017 00017 10.1		RESPONSE TO RESTORATION ADVISORY BOARD AND PUBLIC COMMENTS RECEIVED ON THE DRAFT BCP DATED 15 DECEMBER 1995	ADMIN RECORD INFO REPOSITORY	COMMENTS RAB		PALLET 14 - SW04022601 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12 12
00009							
N60258 / 000926 SW1271-1	06-10-1997 01-01-1996	OHM REMEDIATION K. WILLIAMS K. WILLIAMS NAVFAC - SOUTHWEST DIVISION K. KENNEDY	FINAL VERSION QUARTERLY GROUNDWATER MONITORING REPORT FOURTH QUARTER 1995 (INSERTION PAGES FROM DRAFT TO FINAL)	ADMIN RECORD	GW MONITORING	BLDG. 144	PALLET 14 - SW04022601 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 1
RPT N68711-93-D-1459	DO008 03.4						POSSIBLE POSSIBLE COMPLIANCE
00005							

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N60258 / 000927 SW1270-1	06-10-1997 01-01-1996	OHM REMEDIATION K. WILLIAMS K. WILLIAMS NAVFAC - SOUTHWEST DIVISION K. KENNEDY	FINAL VERSION QUARTERLY GROUNDWATER MONITORING REPORT FOURTH QUARTER 1995 (INSERTION PAGES FROM DRAFT TO FINAL)	ADMIN RECORD	GW MONITORING		SOUTHWEST DIVISION - BLDG. 1
RPT N68711-93-D-1459 00003	DO 05 03.4						POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000842 NONE MISC N68711-92-D-4670 00008	03-26-1996 01-16-1996 00017 10.5		RAB MEETING NOTICE, AGENDA, AND MINUTES OF MEETING	ADMIN RECORD INFO REPOSITORY	RAB		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000928 NONE LTR NONE 00001	06-10-1997 01-26-1996 NONE 01.6	CRWQCB MONTEREY PARK J.E. ROSS J.E. ROSS NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	DRAFT GROUNDWATER SAMPLING WORKPLAN RECEIVED AND REVIEWED BY AGENCY ON NEX GAS STATION. ***COMMENTS: FILE NO.#90-76***	ADMIN RECORD	GW SAP WORK PLAN	NEX GAS ST	PALLET 14 - SW04022601 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000867 NONE LTR NONE 00002	08-20-1996 02-08-1996 NONE 03.6	NSY LONG C. ULASZEWSKI DTSC - LONG BEACH A. GUTIERREZ	REQUEST FOR WRITTEN CONCURRENCE REGARDING A SMALL SECTION OF SITE 12 INADVERTENTLY LEFT UNPAVED, TO BE DONE UNDER THE EXISTING ACTION MEMORANDUM	ADMIN RECORD	ACTMEMO REMOVAL	012	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022602 IMAGED LBSY_004

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N60258 / 000841 NONE MISC N68711-92-D-4670	03-26-1996 02-20-1996 00017 10.5		RAB MEETING NOTICE, AGENDA, AND MINUTES OF MEETING	ADMIN RECORD INFO REPOSITORY	RAB		SOUTHWEST DIVISION - BLDG. 12
00009							
N60258 / 000857 NONE MISC MISC N68711-92-D-4670	06-05-1996 02-22-1996 00017 00017 10.3		PRELIMINARY RESPONSE TO RESTORATION ADVISORY BOARD AND PUBLIC COMMENTS RECEIVED ON THE DRAFT REMEDIAL INVESTIGATION RPT	ADMIN RECORD INFO REPOSITORY REPOSITORY	CERCLA COMMENTS IAS IRP	007	PALLET 14 - SW04022601 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12 12
00033					NPL RAB RI SAP SARA		PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 000855 NONE MISC MISC N68711-92-D-4670	06-05-1996 03-19-1996 00017 00017 10.5		RAB MEETING NOTICE, AGENDA, MINUTES OF MEETING, AND REMEDIAL INVESTIGATION PRESENTATION FOR IRP SITE 7 - HARBOR	ADMIN RECORD INFO REPOSITORY	RAB RI	007	SOUTHWEST DIVISION - BLDG. 12 12
00031							PALLET 14 - SW04022601 IMAGED LBSY_004
N60258 / 000844 NONE RPT RPT N68711-92-D-4670	05-21-1996 04-01-1996 00037 00037 03.4	BNI K.K. KAPUR NAVFAC - NAVFAC - SOUTHWEST DIVISION	DRAFT REMEDIAL INVESTIGATION (RI) REPORT, VOLUME I OF IX. ***COMMENTS: SEE AR #44 - DRAFT GROUNDWATER INVESTIGATION WORK PLAN (SUPPLEMENTAL) AND 845 THROUGH 852 -	ADMIN RECORD INFO REPOSITORY REPOSITORY	CHAR GW MW QA	008 009 010 010 011	SOUTHWEST DIVISION - BLDG. 12 12
00395			DRAFT REMEDIAL INVESTIGATION REPORT, VOLUME II THROUGH IX***		RCRA RI SI	012 013	PALLET 14 - PALLET 14 - SW04021204 IMAGED LBSY_002

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N60258 / 000845 NONE RPT RPT N68711-92-D-4670	05-21-1996 04-01-1996 00037 00037 03.4	BNI K.K. KAPUR NAVFAC - NAVFAC - SOUTHWEST DIVISION	DRAFT REMEDIAL INVESTIGATION (RI) REPORT (VOLUME II OF IX). ***COMMENTS: SEE AR #44 - DRAFT GROUNDWATER INVESTIGATION WORK PLAN (SUPPLEMENTAL), 844 - DRAFT	ADMIN RECORD INFO REPOSITORY REPOSITORY	CHAR GW MW QA	008 009 010 010 011	SOUTHWEST DIVISION - BLDG. 12 12
00377			REMEDIAL INVESTIGATION REPORT, VOLUME I, AND 846 THROUGH 852, VOLUME III THROUGH IX***		RCRA RI SI	012 013	PALLET 14 - PALLET 14 - SW04021204 IMAGED LBSY_002
N60258 / 000846 NONE RPT RPT N68711-92-D-4670	05-21-1996 04-01-1996 00037 00037 03.4	BNI K.K. KAPUR NAVFAC - NAVFAC - SOUTHWEST DIVISION	DRAFT REMEDIAL INVESTIGATION (RI) REPORT (VOLUME III OF IX). ***COMMENTS: SEE AR #44 - DRAFT GROUNDWATER INVESTIGATION WORK PLAN (SUPPLEMENTAL), 844 THROUGH 845	ADMIN RECORD INFO REPOSITORY REPOSITORY	CHAR GW MW QA	008 009 010 010 011	SOUTHWEST DIVISION - BLDG. 12 12
00437			- DRAFT REMEDIAL INVESTIGATION REPORT, VOLUME I THROUGH II, AND 847 THROUGH 852 - VOLUME IV THROUGH IX***		RCRA RI SI	012 013	PALLET 14 - PALLET 14 - SW04021204 IMAGED LBSY_002
N60258 / 000847 NONE RPT RPT N68711-92-D-4670	05-21-1996 04-01-1996 00037 00037 03.4	BNI K.K. KAPUR NAVFAC - NAVFAC - SOUTHWEST DIVISION	DRAFT REMEDIAL INVESTIGATION (RI) REPORT (VOLUME IV OF IX). ***COMMENTS: SEE AR #44 - DRAFT GROUNDWATER INVESTIGATION WORK PLAN (SUPPLEMENTAL), 844 THROUGH 846	ADMIN RECORD INFO REPOSITORY REPOSITORY	CHAR GW MW QA	008 009 010 010 011	SOUTHWEST DIVISION - BLDG. 12 12
00582			- DRAFT REMEDIAL INVESTIGATION REPORT, VOLUME I THROUGH III, AND 848 THROUGH 852, VOLUME V THROUGH IX***		RCRA RI SI	012 013	PALLET 14 - PALLET 14 - SW04021204 IMAGED LBSY_002
N60258 / 000848 NONE RPT RPT N68711-92-D-4670	05-21-1996 04-01-1996 00037 00037 03.4	BNI K.K. KAPUR NAVFAC - NAVFAC - SOUTHWEST DIVISION	DRAFT REMEDIAL INVESTIGATION (RI) REPORT (VOLUME V OF IX). ***COMMENTS: SEE AR #44 - DRAFT GROUNDWATER INVESTIGATION WORK PLAN (SUPPLEMENTAL), 844 THROUGH 847	ADMIN RECORD INFO REPOSITORY REPOSITORY	CHAR GW MW QA	008 009 010 010 011	SOUTHWEST DIVISION - BLDG. 12 12
00555			- DRAFT REMEDIAL INVESTIGATION REPORT, VOLUME I THROUGH IV, AND 849 THROUGH 852, VOLUME VI THROUGH IX***		RCRA RI SI	012 013	PALLET 14 - PALLET 14 - SW04021205 IMAGED LBSY_002

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N60258 / 000849 NONE RPT RPT N68711-92-D-4670	05-21-1996 04-01-1996 00037 00037 03.4	BNI K.K. KAPUR NAVFAC - NAVFAC - SOUTHWEST DIVISION	DRAFT REMEDIAL INVESTIGATION (RI) REPORT (VOLUME VI OF IX). ***COMMENTS: SEE AR #44 - DRAFT GROUNDWATER INVESTIGATION WORK PLAN (SUPPLEMENTAL), 844 THROUGH 848	ADMIN RECORD INFO REPOSITORY REPOSITORY	CHAR GW MW QA	008 009 010 010 011	SOUTHWEST DIVISION - BLDG. 12 12
00573			- DRAFT REMEDIAL INVESTIGATION REPORT, VOLUME I THROUGH V, AND 850 THROUGH 852, VOLUME VII THROUGH IX***		RCRA RI SI	012 013	PALLET 14 - PALLET 14 - SW04021205 IMAGED LBSY_002
N60258 / 000850 NONE RPT RPT N68711-92-D-4670	05-21-1996 04-01-1996 00037 00037 03.4	BNI K.K. KAPUR NAVFAC - NAVFAC - SOUTHWEST DIVISION	DRAFT REMEDIAL INVESTIGATION (RI) REPORT (VOLUME VII OF IX). ***COMMENTS: SEE AR #44 - DRAFT GROUNDWATER INVESTIGATION WORK PLAN (SUPPLEMENTAL), 844 THROUGH 849	ADMIN RECORD INFO REPOSITORY REPOSITORY	CHAR GW MW QA	008 009 010 010 011	SOUTHWEST DIVISION - BLDG. 12 12
00387			- DRAFT REMEDIAL INVESTIGATION REPORT, VOLUME I THROUGH VI, AND 851 THROUGH 852, VOLUME VIII THROUGH		RCRA RI SI	012 013	PALLET 14 - PALLET 14 - SW04021205 IMAGED LBSY_002
N60258 / 000851 NONE RPT RPT N68711-92-D-4670	05-21-1996 04-01-1996 00037 00037 03.4	BNI K.K. KAPUR NAVFAC - NAVFAC - SOUTHWEST DIVISION	DRAFT REMEDIAL INVESTIGATION (RI) REPORT (VOLUME VIII OF IX). ***COMMENTS: SEE AR #44 - DRAFT GROUNDWATER INVESTIGATION WORK PLAN (SUPPLEMENTAL), 844 THROUGH 850	ADMIN RECORD INFO REPOSITORY REPOSITORY	CHAR GW MW QA	008 009 010 010 011	SOUTHWEST DIVISION - BLDG. 12 12
00390			- DRAFT REMEDIAL INVESTIGATION REPORT, VOLUME I THROUGH VII, AND 852, VOLUME IX***		RCRA RI SI	012 013	PALLET 14 - PALLET 14 - SW04021205 IMAGED LBSY_002
N60258 / 000852 NONE RPT RPT N68711-92-D-4670	05-21-1996 04-01-1996 00037 00037 03.4	BNI K.K. KAPUR NAVFAC - NAVFAC - SOUTHWEST DIVISION	DRAFT REMEDIAL INVESTIGATION (RI) REPORT (VOLUME IX OF IX). ***COMMENTS: SEE AR #44 - DRAFT GROUNDWATER INVESTIGATION WORK PLAN (SUPPLEMENTAL), 844 THROUGH 851	ADMIN RECORD INFO REPOSITORY REPOSITORY	CHAR GW MW QA	008 009 010 010 011	SOUTHWEST DIVISION - BLDG. 12 12
00348			- DRAFT REMEDIAL INVESTIGATION REPORT, VOLUME I THROUGH VIII***		RCRA RI SI	012 013	PALLET 14 - PALLET 14 - SW04021205 IMAGED LBSY_002

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N60258 / 000853 NONE MISC NONE	05-22-1996 04-01-1996 NONE 10.6	DAILY BREEZE	NEWS ARTICLE, 'REPORT: WEST BASIN CLEANUP NOT NEEDED'	ADMIN RECORD INFO REPOSITORY	NEWSART		SOUTHWEST DIVISION - BLDG. 12
00002							PALLET 14 - SW04022601 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000856 NONE MISC N68711-92-D-4670	06-05-1996 04-16-1996 00017 10.5		RAB MEETING NOTICE, AGENDA, MINUTES OF MEETING	ADMIN RECORD INFO REPOSITORY	RAB		PALLET 14 - SW04022601 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12
00006							PALLET 14 - SW04022601 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000858 NONE MISC MISC N68711-92-D-4670	06-05-1996 05-07-1996 00017 00017 10.3		TECHNICAL WORKSHOP IRP SITE 7 LONG BEACH HARBOR PRESENTATION HANDOUT, AGENDA, AND SIGN-IN SHEET	ADMIN RECORD INFO REPOSITORY REPOSITORY	IRP LAB RA RCRA	007	PALLET 14 - SW04022601 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12 12
00015					SAP		PALLET 14 - SW04022601 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000323 CTO-111/0015 RPT N68711-92-D-4670 00200	05-31-2006 05-15-1996 00111	BECHTEL NATIONAL, INC. K. KAPUR K. KAPUR NAVFAC - SOUTHWEST DIVISION	DRAFT ENVIRONMENTAL BASELINE SURVEY (EBS) FOR LOS ALAMITOS, WHITES POINT, PALOS VERDES, AND SAN PEDRO HOUSING AREAS	ADMIN RECORD	EBS PCB		

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N60258 / 000864 NONE LTR N68711-92-D-4670 00227	08-19-1996 05-19-1996 00026 03.6	BECHTEL NATIONAL INC NAVFAC - SOUTHWEST DIVISION	REVIEW DRAFT INTERIM STATUS OF RI FOR SITE 7	ADMIN RECORD	RI	007	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000859 NONE MISC MISC N68711-92-D-4670 00057	06-05-1996 05-21-1996 00017 00017 10.3		RESTORATION ADVISORY BOARD AGENDA; MEETING NOTICE; AND EXECUTIVE SUMMARY, CHAPTER 1, AND CHAPTER 8 FROM THE LBNSY DRAFT RI	ADMIN RECORD INFO REPOSITORY REPOSITORY	OU RAB RI SAP	008 009 010 010 011 012 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022601 IMAGED LBSY_004
N60258 / 000868 NONE LTR NONE 00007	08-20-1996 06-13-1996 NONE 10.1	DTSC - LONG BEACH S. LEMIEUX NAVFAC - SOUTHWEST DIVISION A. LEE	COMMENTS ON DRAFT ENVIRONMENTAL BASELINE SURVEY W/ENCL	ADMIN RECORD	COMMENTS GW HAZMAT	OT08 OT21 OU 1	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000869 NONE LTR NONE 00012	08-20-1996 07-08-1996 NONE 10.1	DTSC LONG BEACH A. GUTIERREZ NAVFAC - SOUTHWEST DIVISION K. BAER	COMMENTS ON DRAFT RI REPORT ON SITES 8 THROUGH 13	ADMIN RECORD	COMMENTS RI RISK	008 009 010 011 012 013	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022602 IMAGED LBSY_004

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N60258 / 000953 NONE	09-19-1997 07-16-1996	BECHTEL NATIONAL INC	16 JULY 1996 RESTORATION ADVISORY BOARD MEETING MINUTES - INCLUDES MEETING NOTICE, AGENDA, ATTENDANCE, AND SIGN-IN SHEET	ADMIN RECORD	COMMENTS DATA	007 008	SOUTHWEST DIVISION - BLDG. 12
MM NONE 00009	NONE 10.4	DISTRIBUTION			MTG MINS PUB. PARTICIPATI RAB	009 010 011	12
					RESPONSE RI	012 013	PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000874 SWDIV SER 1170/4819 1170/4819 RPT N68711-95-P-0054 02000	08-20-1996 07-18-1996 NONE NONE 09.3	ENV PROTECTION DIV C. ULASZEWSKI C. ULASZEWSKI NAVFAC - SOUTHWEST DIVISION	DRAFT ENVIRONMENTAL BASELINE SURVEY, VOLS I AND II OF II (INCLUDES SWDIV TRANSMITTAL BY C.A. VLAZEWSKI). ***COMMENTS: CONTRACT NOS. N6871195P005400 AND	ADMIN RECORD	EBS	006B 008 009 010 011	SOUTHWEST DIVISION - BLDG. 12 12
						012 013	PALLET 14 - PALLET 14 - SW04032503 - PACKAGE
N60258 / 000880 NONE	11-14-1996 07-19-1996	CRWQCB MONTEREY PARK J.E. ROSS J.E. ROSS NSY LONG C. ULASZEWSKI	QUARTERLY GROUNDWATER MONITORING REPORT, FIRST QUARTER 1996 (FILE NO. 90-76)-NEX GAS STATION	ADMIN RECORD	GW MONITORING	MW 15 MW 16	SOUTHWEST DIVISION - BLDG. 1
LTR NONE 00003	NONE 03.4				MW WELLS	MW 17 MW 18	POSSIBLE COMPLIANCE
N60258 / 000333 SWDIV SER 1832.AL/643 CORRESP NONE 00002	05-31-2006 07-24-1996 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION A. LEE DTSC - LONG BEACH S. LEMIEUX	TRANSMITTAL OF FINAL ENVIRONMENTAL BASELINE SURVEY (EBS) FOR LOS ALAMITOS, WHITES POINT, PALOS VERDES, AND SAN PEDRO HOUSING AREAS (SEE AR #335 - FINAL EBS)	ADMIN RECORD	EBS		SOUTHWEST DIVISION - BLDG. 1

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N60258 / 000335 CTO-111/0037 RPT N68711-920D04670 00300	05-31-2006 08-01-1996 00111	BECHTEL NATIONAL, INC. K. KAPUR K. KAPUR NAVFAC - SOUTHWEST DIVISION	FINAL ENVIRONMENTAL BASELINE SURVEY (EBS) FOR LOS ALAMITOS, WHITES POINT, PALOS VERDES, AND SAN PEDRO HOUSING AREAS (SEE AR #333 - SWDIV TRANSMITTAL LETTER BY A. LEE)	ADMIN RECORD	EBS PCB SVOC TPH-D TPH-G TRPH VOC		SOUTHWEST DIVISION - BLDG. 1
N60258 / 000959 NONE MISC NONE 00010	09-22-1997 08-20-1996 NONE 10.4	BECHTEL NATIONAL INC DISTRIBUTION	20 AUGUST 1996 RESTORATION ADVISORY BOARD MEETING MINUTES - INCLUDES MEETING NOTICE, AGENDA, ATTENDANCE, AND SIGN-IN SHEET	ADMIN RECORD	ARSENIC GW MONITORING MTG MINS PUB. PARTICIPATI RAB REMOVAL RI SOIL WELLS	001 002 003 004 006A 006B 007 008 009 010 011 012 013	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004
N60258 / 000875 NONE MM NONE 00015	09-18-1996 08-21-1996 NONE 06.3	TSC J.R. PFEIFFER NAVFAC - EFA WEST	21 AUGUST 1996 TSC MEETING MINUTES W/ENCL	ADMIN RECORD	MTG MINS	013	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022602 IMAGED LBSY_004

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N60258 / 000877 NONE LTR NONE 00002	09-18-1996 08-21-1996 NONE 06.3	DREADAUGHT CONSULTG R.A. LANDGRAFT R.A. LANDGRAFT NAVFAC - SOUTHWEST DIVISION K. LEE	COMMENTS ON THE ADDENDUM TO REVIEW OF ENVIRONMENTAL BASELINE SURVEY	ADMIN RECORD	COMMENTS EBS	PIER 1 PIER 2 PIER 3 PIER 4 PIER 5 PIER 6	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000876 NONE LTR NONE 00003	09-18-1996 08-22-1996 NONE 06.3	DREADAUGHT CONSULTG R.A. LANDGRAFT NAVFAC - SOUTHWEST DIVISION K. LEE	COMMENTS ON THE REVIEW OF ENVIRONMENTAL BASELINE SURVEY	ADMIN RECORD	COMMENTS EBS	BLDG. 102 BLDG. 133 BLDG. 140 BLDG. 141 BLDG. 144 BLDG. 218 LOT L	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 001129 NONE MTG MINS NONE 00004	06-28-2005 09-10-1996 CTO-0123/0008	KLEINFELDER S. DRAPER NAVFAC - SOUTHWEST DIVISION	10 SEPTEMBER 1996 MEETING MINUTES FOR THE KICK-OFF STRATEGY FOR GROUNDWATER INVESTIGATION	ADMIN RECORD	MTG MINS	009 012 013	SOUTHWEST DIVISION - BLDG. 1
N60258 / 000883 NONE LTR NONE 00002	11-14-1996 09-17-1996 NONE 10.1	CRWQCB MONTEREY PARK J.E. ROSS J.E. ROSS NAVFAC - SOUTHWEST DIVISION G. SIMON	COMMENTS ON THE PROPOSED WORKPLAN-SITE CHARACTERIZATION AND ANALYSIS PENETROMETER SYSTEM PROJECT (FILE NO. 90-76)	ADMIN RECORD	COMMENTS WORK PLAN	BLDG. 7	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022602 IMAGED LBSY_004

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N60258 / 000960 NONE	09-22-1997 09-17-1996	BECHTEL NATIONAL INC	19 NOVEMBER 1996 RESTORATION ADVISORY BOARD MEETING MINUTES - INCLUDES MEETING NOTICE, AGENDA, ATTENDANCE, AND SIGN-IN SHEET	ADMIN RECORD	MTG MINS PUB. PARTICIPATI	001 002	SOUTHWEST DIVISION - BLDG. 12
MISC NONE 00013	NONE 10.4	DISTRIBUTION			RAB	003 004 005 006A 006B 007 014 AOPC 5	12 PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004
N60258 / 000881 NONE	11-14-1996 09-18-1996	DTSC LONG BEACH S. LEMIEUX S. LEMIEUX NSY LONG C. ULASZEWSKI	COMMENTS FROM DTSC AND RWQCB ON THE DRAFT ENVIRONMENTAL BASELINE SURVEY W/ENCLS	ADMIN RECORD	COMMENTS EBS		SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE 00042	NONE 10.1						PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000882 NONE	11-14-1996 09-19-1996	GERAGHTY & MILLER B. JACOBS B. JACOBS PORT OF LOS ANGELES	GROUNDWATER ANALYTICAL DATA AND GROUNDWATER FLOW MODELING TECHNICAL MEMORANDUM NO. 6, LATERMINAL RAILCAR DUMPER PIT. ***COMMENTS: WDR ORDER NO. 95-120	ADMIN RECORD	DATA GW TECH MEMO		SOUTHWEST DIVISION - BLDG. 12 12
XMTL CA0256018005 00044	NONE 03.6	B. FOLEY	NPDES PERMIT NO. CA0063541, CI NO. 759***				PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 001128 NONE	06-28-2005 09-19-1996	DREADNAUGHT CONSULTING	REVIEW AND COMMENT ON THE BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP PLAN (BCP)	ADMIN RECORD	AOC BCP	006A 011	SOUTHWEST DIVISION - BLDG. 1
CORRESP NONE 00002	NONE	NAVFAC - SOUTHWEST DIVISION A. LEE			BRAC	013	

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N60258 / 000878 NONE	10-10-1996 09-26-1996	BECHTEL NATIONAL INC K. KAPUR	WORKING DRAFT OF DATA QUALITY OBJECTIVES FOR SITES 9 AND 12/13 GROUNDWATER INVESTIGATION	ADMIN RECORD	DATA GW	009 012	SOUTHWEST DIVISION - BLDG. 1
LTR N68711-92-D-4670 00046	00123 01.1	K. KAPUR VARIOUS AGENCIES			INVESTIGATION	013	 PROBLEM PROBLEM SHELVING
N60258 / 000879 NONE LTR NONE 00001	11-14-1996 09-26-1996 NONE 01.6	CRWQCB MONTEREY PARK J.E. ROSS NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	APPROVAL OF THE DRAFT SAMPLING WORKPLAN (FILE NO. 90-76)	ADMIN RECORD	GW WORK PLAN		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000925 NONE LTR NONE 00001	06-10-1997 09-30-1996 NONE 01.6	CRWQCB MONTEREY PARK J.E. ROSS J.E. ROSS NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	FINAL QUARTERLY GROUNDWATER MONITORING REPORT SECOND QUARTER 1996, RECEIVED AND REVIEWED BY AGENCY NO FURTHER COMMENTS AT THIS TIME	ADMIN RECORD	GW MONITORING		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000891 NSY LB SER 1170/4841 1170/4841 PLAN NONE 00228	03-06-1997 10-17-1996 NONE NONE 00.0	NSY LONG C. ULASZEWSKI NAVFAC - NAVFAC - SOUTHWEST DIVISION	FINAL BASE REALIGNMENT AND CLOSURE CLEANUP PLAN (BCP) - INCLUDES NSY LB TRANSMITTAL LETTER	ADMIN RECORD	BCP BRAC CLOSURE	006A 006B 007 008 009 010 011 012 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022602 IMAGED LBSY_004

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N60258 / 000916 NONE	04-24-1997 10-17-1996	DTSC LONG BEACH S. LEMIEUX S. LEMIEUX NSY LONG A. ULASZEWSKI	COMMENTS TO DRAFT ENVIRONMENTAL BASELINE SURVEY RESPONSE TO COMMENTS. ***COMMENTS: RESPONSE TO COMMENTS ON THE DRAFT ENVIRONMENTAL BASELINE SURVEY NOT SUBMITTED TO ADMINISTRATIVE RECORDS.***	ADMIN RECORD	COMMENTS EBS		SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE 00003	NONE 10.1						PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000917 NONE	04-24-1997 10-24-1996	DTSC LONG BEACH A. GUTIERREZ A. GUTIERREZ NAVFAC - SOUTHWEST DIVISION K. BAER	REVIEW OF RESPONSE TO COMMENTS ON DRAFT REMEDIAL INVESTIGATION DATED 20 JUNE 1996. ***COMMENTS: RESPONSE TO COMMENTS ON DRAFT REMEDIAL INVESTIGATION DATED 20 JUNE 1996 WAS NOT SUBMITTED TO ADMINISTRATIVE RECORDS.***	ADMIN RECORD	COMMENTS RESPONSE RI	007 OU 3	SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE 00005	NONE 10.1						PALLET 14 - PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000918 NONE	04-24-1997 10-28-1996	DTSC LOONG BEACH S. LEMIEUX S. LEMIEUX NAVFAC - SOUTHWEST DIVISION M. AULT	COMMENTS TO DRAFT ENVIRONMENTAL IMPACT STATEMENT FOR THE DISPOSAL AND REUSE OF NAVSHIPYARD. ***COMMENTS: DRAFT IMPACT STATEMENT FOR THE DISPOSAL AND REUSE WAS NOT SUBMITTED TO ADMINISTRATIVE RECORDS.***	ADMIN RECORD	BRAC COMMENTS DISPOSAL EIS IRP	006A 007	SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE 00003	NONE 10.1						PALLET 14 - PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000919 NONE	04-24-1997 11-04-1996	DTSC LONG BEACH S. LEMIEUX S. LEMIEUX NSY LONG A. ULASZEWSKI	REVIEW OF RESPONSE TO COMMENTS ON DRAFT ENVIRONMENTAL BASELINE SURVEY, DATED OCTOBER 8, 1996. ***COMMENTS: RESPONSE TO COMMENTS ON THE DRAFT ENVIRONMENTAL BASELINE SURVEY WAS NOT SUBMITTED TO ADMINISTRATIVE RECORDS.***	ADMIN RECORD	COMMENTS EBS RESPONSE		SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE 00002	NONE 10.1						PALLET 14 - SW04022602 IMAGED LBSY_004

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N60258 / 000885 SW2415	01-20-1997 11-05-1996	OHM REMEDIATION	DRAFT WORK PLAN ADDENDUM AIR SPARGING PILOT TEST AT THE NEX GAS STATION, REV. 0. ***COMMENTS: OHM PROJ.NO# 16715***	ADMIN RECORD	AIR WORK PLAN	NEX GAS	SOUTHWEST DIVISION - BLDG. 1
PLAN N68711-93-D-1459 00037	DO 05 03.3	NAVFAC - SOUTHWEST DIVISION					POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000920 NONE	04-24-1997 11-06-1996	NAVFAC - SOUTHWEST DIVISION	RESPONSES TO RWQCB LOS ANGELES REGION COMMENTS ON THE PROPOSED WORKPLAN FOR SC AND ANALYSIS PANETROMETER SYS PROJECT, DATED SEPTEMBER 17, 1996	ADMIN RECORD	COMMENTS RESPONSE	BLDG. 7	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 10.1	G. SIMON CRWQCB MONTEREY PARK H. MARLEY			RI SC		12
00005					WORK PLAN		PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000921 NONE	04-24-1997 11-12-1996	CRWQCB MONTEREY PARK J. ROSS	REVIEW OF RESPONSE TO COMMENTS ON PROPOSED WORKPLAN FOR SITE CHARACTERIZATION AND ANALYSIS PENETROMETER SYSTEM PROJECT	ADMIN RECORD	COMMENTS RESPONSE		SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 10.1	J. ROSS NAVFAC - SOUTHWEST DIVISION G. SIMON			SC WORK PLAN		12
00001							PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000884 SW2742	11-21-1996 11-15-1996	OHM REMEDIATION	FINAL SITE HEALTH AND SAFETY PLAN SOIL REMOVAL AND CONFIRMATION WELLS INSTALLATION	ADMIN RECORD	H&SP REMOVAL	BLDG. 4	SOUTHWEST DIVISION - BLDG. 1
PLAN N68711-93-D-1459 00050	DO 83 03.5	R. MARGOTTO R. MARGOTTO NAVFAC - SOUTHWEST DIVISION			SOIL SSHP		PROBLEM PROBLEM SHELVING
					WELLS		

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N60258 / 000886 NONE	01-20-1997 11-15-1996	OHM REMEDIATION	RESPONSE TO AGENCY COMMENTS ON DRAFT SAMPLING PLAN (SW2608) SOIL REMOVAL CONFIRMATION WELL INSTALLATION BLDG.S-4 BOILER PLANT W/ENCLS	ADMIN RECORD	COMMENTS REMOVAL	BLDG. S4	SOUTHWEST DIVISION - BLDG. 1
MISC N68711-93-D-1459 00003	DO 83 10.1	NAVSHIPYD LONG BEACH			RESPONSE SMP SOIL		PROBLEM PROBLEM SHELVING
N60258 / 000961 NONE	09-22-1997 11-19-1996	BECHTEL NATIONAL INC	19 NOVEMBER 1996 RESTORATION ADVISORY BOARD MEETING MINUTES - INCLUDES MEETING NOTICE, AGENDA, ATTENDANCE, AND SIGN-IN SHEET	ADMIN RECORD	CERCLA GW	001 002	SOUTHWEST DIVISION - BLDG. 12
MISC NONE 00009	NONE 10.4				INVESTIGATION MTG MINS PUB. PARTICIPATI RAB REMOVAL RI SOIL	003 004 005 006A 007 008 009 010 011 012 013 014 AOPC 1 AOPC 5 BLDG. 46	12 PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004
N60258 / 000887 NONE	01-20-1997 11-21-1996	NAVFAC - SOUTHWEST DIVISION DIVISION D. ROLLEFSON CRWQCB MONTEREY H. MARLEY	COPY OF THE DRAFT WORK PLAN ADDENDUM FOR REVIEW; REQUEST WRITTEN COMMENTS BE PROVIDED BY 27 NOVEMBER 1996 (SEE AR #885) W/O ENCLS	ADMIN RECORD	COMMENTS WORK PLAN		SOUTHWEST DIVISION - BLDG. 1
LTR NONE 00003	NONE 01.6						POSSIBLE POSSIBLE COMPLIANCE

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N60258 / 000902 NONE	03-11-1997 11-21-1996	NSY ENVIRON. PROTECTION DIV. C. ULASZEWSKI	FINAL ENVIRONMENTAL BASELINE SURVEY (EBS) VOLUMES I OF II (SEE AR #903 - VOLUME II). ***COMMENTS: AR #903 IS MISSING AT SWDIV***	ADMIN RECORD	EBS GW	006A 007	SOUTHWEST DIVISION - BLDG. 1
RPT N68711-95-P-0054 00900	NONE 03.4	C. ULASZEWSKI NAVFAC - SOUTHWEST DIVISION			METALS PAH PCB PCE PESTICIDES RFA SOIL SVOC SWMU VOC VSI	008 009 010 011 012 013	PROBLEM PROBLEM SHELVING
N60258 / 000903 NONE	03-11-1997 11-21-1996	NSY LONG	FINAL ENVIRONMENTAL BASELINE SURVEY (EBS) VOLUME II OF II (SEE AR #902 - VOLUME I)	ADMIN RECORD MISSING @ SWDIV	EBS SHIPYARD		SOUTHWEST DIVISION - BLDG. 1
RPT N68711-95-P-0054 01025	NONE 03.4	NAVFAC - SOUTHWEST DIVISION					
N60258 / 000922 NONE	04-24-1997 11-21-1996	CRWQCB MONTEREY PARK J. ROSS	APPROVAL OF REQUEST TO ELIMINATE QUARTERLY MONITORING FOR MEK AND BYPASS THE OWS AT THE NEX GAS STATION (FILE NO. 90-76)	ADMIN RECORD	MONITORING REQUEST		SOUTHWEST DIVISION - BLDG. 1
LTR NONE 00001	NONE 01.6	J. ROSS NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON					POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000923 NONE	04-24-1997 11-22-1996	CRWQCB MONTEREY PARK J. ROSS	COMMENTS ON THE DRAFT WORK PLAN ADDENDUM, AIR SPARGING PILOT TEST, NEX GAS STATION (FILE NO. 90-76)	ADMIN RECORD	AIR COMMENTS WORK PLAN	NEX GAS ST	SOUTHWEST DIVISION - BLDG. 1
LTR NONE 00003	NONE 10.1	J. ROSS NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON					POSSIBLE POSSIBLE COMPLIANCE

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N60258 / 000974 NONE	12-15-1998 11-22-1996	OHM REMEDIATION	DRAFT REMEDIATION WORK PLAN, REMOVAL OF UNDERGROUND STORAGE TANKS, VARIOUS LOCATIONS	ADMIN RECORD	GW PCB	BLDG. 128 BLDG. 301	SOUTHWEST DIVISION - BLDG. 1
PLAN N68711-93-D-1459	DO 88 03.3	S. BORNHOFT S. BORNHOFT VARIOUS AGENCIES			SOIL UST	BLDG. 501	
00300					VOC WORK PLAN		POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000952 NONE	09-19-1997 01-01-1997	BECHTEL NATIONAL INC K. KAPUR K. KAPUR NAVFAC - SOUTHWEST DIVISION R. SELBY	STRIKEOUT TEXT AND RESPONSE TO COMMENTS FOR DRAFT REMEDIAL INVESTIGATION REPORT AND APPENDIX P FOR SITES 8 THRU 13)	ADMIN RECORD	BACKGROUND COMMENTS GW HAZ WASTE INVESTIGATION MONITORING RESPONSE RI SOIL TCE TOC VOC WELLS	007 008 009 010 011 012 013 AOPC 1 AOPC 2 AOPC 4 BLDG. 129 OU 3	SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING
N60258 / 000888 NONE	01-20-1997 01-14-1997	BECHTEL NATIONAL INC K. KAPUR K. KAPUR NAVFAC - SOUTHWEST DIVISION R. SELBY	RESPONSE TO ADDITIONAL DTSC COMMENTS FOR DRAFT REMEDIAL INVESTIGATION REPORT FOR SITES 8 THROUGH 13 W/ENCLS	ADMIN RECORD	COMMENTS RESPONSE RI	008 009 010 011 012 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022602 IMAGED LBSY_004
XMTL N68711-92-D-4670	00037 10.1						
00007							

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N60258 / 000904 SW2742	03-11-1997 01-20-1997	OHM REMEDIATION	FINAL SITE HEALTH AND SAFETY PLAN SOIL REMOVAL AND CONFIRMATION WELLS INSTALLATION BOILER PLANT REV. 1	ADMIN RECORD MISSING @ SWDIV	H&SP REMOVAL	BLDG. 4	SOUTHWEST DIVISION - BLDG. 1
PLAN N68711-93-D-1459	DO 83 03.5	R. MARGOTTO R. MARGOTTO NAVFAC - SOUTHWEST DIVISION			SOIL SSHP		
00050		K. KENNEDY			WELLS		
N60258 / 000954 NONE	09-19-1997 01-21-1997	BECHTEL NATIONAL INC	21 JANUARY 1997 RESTORATION ADVISORY BOARD MEETING MINUTES - INCLUDES MEETING NOTICE, AGENDA, ATTENDANCE, AND SIGN-IN SHEET	ADMIN RECORD	BRAC EIS	001 007	SOUTHWEST DIVISION - BLDG. 12
MM NONE 00009	NONE 10.4				MTG MINS RAB REMOVAL	BLDG. 128	12
					SEDIMENTS UST		PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000899 SW3007	03-06-1997 01-22-1997	OHM REMEDIATION	RESPONSE TO RPM COMMENTS ON THE FINAL SITE HEALTH AND SAFETY PLAN (DCN 2742), DATED JANUARY 20, 1997	ADMIN RECORD	COMMENTS H&SP	BLDG. S4	SOUTHWEST DIVISION - BLDG. 12
RPT N68711-93-D-1459	DO 05 10.1	S. BORNHOFT S. BORNHOFT NAVFAC - SOUTHWEST DIVISION K. KENNEDY			RESPONSE SSHP		12
00007							PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000892 NONE PLAN N68711-92-D-4670	03-06-1997 02-03-1997 00112 03.6	BECHTEL NATIONAL INC J. KLUESENER NAVFAC - SOUTHWEST DIVISION	AMENDMENTS TO DRAFT APPENDIX U SUPPLEMENTAL FIELD ACTIVITIES	ADMIN RECORD	CHAR GW IRP VOC	001 002 003 004	SOUTHWEST DIVISION - BLDG. 1
00110		R. SELBY				006A	PROBLEM PROBLEM SHELVING
						AOPC 1 AOPC 3 AOPC 4	

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N60258 / 001115 SW2791 & PROJ NO. 19232 NO. 19232 RPT N68711-93-D-1459 00300	01-03-2005 02-03-1997 DO 0088 DO 0088	OHM REMEDIATION L. ARJOMAND L. ARJOMAND VARIOUS ANGENCIES	FINAL UNDERGROUND STORAGE TANK (UST) FOR THE REMOVAL AND SITE REMEDIATION WORK PLAN AT VARIOUS LOCATIONS	ADMIN RECORD	PCB REMOVAL SVOC UST VOC WORK PLAN	BLDG. 128 BLDG. 301	SOUTHWEST DIVISION - BLDG. 1
N60258 / 000044 CTO 0123/0023 PLAN PLAN N68711-92-D-4670 00263	08-29-2000 02-10-1997 00123 00123	BECHTEL NATIONAL, INC. K. KAPUR K. KAPUR NAVFAC - SOUTHWEST DIVISION	DRAFT GROUNDWATER INVESTIGATION WORK PLAN (SUPPLEMENT TO THE RI) FOR SITES 9, 12, AND 13. ***COMMENTS: SEE AR #844 THROUGH 852 - DRAFT REMEDIATION INVESTIGATION REPORT VOLUMES I THROUGH IX***	ADMIN RECORD INFO REPOSITORY REPOSITORY	BCT BETX BRAC DCA DCE DO FS FSP GW IRA IRP PCE PVC RAB RI RI/FS SI TCA TCE TPH TRPH VC VOC	009 012 013 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021201 IMAGED LBSY_002

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N60258 / 000897 NONE	03-06-1997 02-20-1997	OHM REMEDIATION	MONTHLY MONITORING REPORT, NPDES	ADMIN RECORD	GW MONITORING		SOUTHWEST DIVISION - BLDG. 1
RPT N68711-93-D-1459	DO 05 03.4	J. FRANKLIN J. FRANKLIN NAVFAC - SOUTHWEST DIVISION	PERMIT NO. CAG834001, SOIL & GROUNDWATER REMEDIATION SYSTEM, DATED OCTOBER 6, 1996 TO NOVEMBER 2, 1996. ***COMMENTS: DOC. CTRL		PERMIT SOIL		POSSIBLE POSSIBLE COMPLIANCE
00105		NO.#SW3106*** D. JESPERSON					
N60258 / 000898 NONE	03-06-1997 02-20-1997	OHM REMEDIATION	MONTHLY MONITORING REPORT, NPDES	ADMIN RECORD	GW MONITORING		SOUTHWEST DIVISION - BLDG. 1
RPT N68711-93-D-1459	DO 05 03.4	J. FRANKLIN J. FRANKLIN NAVFAC - SOUTHWEST DIVISION	PERMIT NO. CAG834001, SOIL & GROUNDWATER REMEDIATION SYSTEM, DATED NOVEMBER 3, 1996 TO NOVEMBER 30, 1996. ***COMMENTS: DOC. CTRL NO.#		PERMIT SOIL		POSSIBLE POSSIBLE COMPLIANCE
00144		SW3107*** D. JESPERSON					
N60258 / 000894 NONE	03-06-1997 02-25-1997	OHM REMEDIATION	MONTHLY MONITORING REPORT-	ADMIN RECORD	GW MONITORING		SOUTHWEST DIVISION - BLDG. 1
RPT N68711-93-D-1459	DO 05 03.4	S. BORNHOFT S. BORNHOFT NAVFAC - SOUTHWEST DIVISION	DECEMBER 29, 1996 TO JANUARY 25, 1997, NPDES PERMIT NO. CAG834001, SOIL AND GROUNDWATER REMEDIATION SYSTEM. ***COMMENTS: DOCUMENT		PERMIT SOIL		POSSIBLE POSSIBLE COMPLIANCE
00085		CTRL# SW3109 OHM PROJECT NO. D. JESPERSON					
N60258 / 000975 NONE MM NONE	12-15-1998 03-18-1997 NONE 10.4	LONG BEACH NSY RAB INTERESTED PARTIES	NOTICE, AGENDA AND MINUTES OF MARCH 18, 1997 RAB MEETING	ADMIN RECORD	GW MTG MINS RAB UST	009 012 013	SOUTHWEST DIVISION - BLDG. 12
00006							PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004

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N60258 / 000936 NONE MM N68711-93-D-1459 00004	05-15-1997 04-04-1997 NONE 10.4	OHM REMEDIATION G. JAMES VARIOUS	APRIL 4, 1997 CQC MEETING MINUTES	ADMIN RECORD	MTG MINS		SOUTHWEST DIVISION - BLDG. 12
N60258 / 000937 NONE MM N68711-93-D-1459 00004	05-15-1997 04-09-1997 NONE 10.4	OHM REMEDIATION G. JAMES VARIOUS	APRIL 9, 1997 CQC MEETING MINUTES	ADMIN RECORD	MTG MINS		PALLET 14 - SW04022602 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000957 NONE MISC NONE 00002	09-22-1997 04-09-1997 00123 10.1	U.S. EPA NAVFAC - SOUTHWEST DIVISION	COMMENTS ON DRAFT GROUNDWATER INVESTIGATION WORK PLAN FOR SITES 9, 12, AND 13	ADMIN RECORD	COMMENTS GW INVESTIGATION IRP PRG VOC WORK PLAN	009 012 013 AOPC 4	PALLET 14 - SW04022602 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000958 NONE MISC NONE 00002	09-22-1997 04-09-1997 00123 10.1	CRWQCB - MONTEREY PARK J. ROSS J. ROSS NAVFAC - SOUTHWEST DIVISION	COMMENTS ON THE DRAFT GROUNDWATER INVESTIGATION WORK PLAN FOR SITES 9, 12, AND 13	ADMIN RECORD	COMMENTS GW INVESTIGATION IRP MONITORING SOIL UST VOC WELLS WORK PLAN	009 012 013 BLDG. 128 BLDG. 129	PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12 12

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N60258 / 000938 NONE MM N68711-93-D-1459 00003	05-15-1997 04-16-1997 NONE 10.4	OHM REMEDIATION G. JAMES VARIOUS	APRIL 16 1997 CQC MEETING MINUTES	ADMIN RECORD	MTG MINS		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022602 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022602 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000939 NONE MM N68711-93-D-1459 00004	05-15-1997 04-23-1997 NONE 10.4	OHM REMEDIATION G. JAMES VARIOUS	APRIL 23, 1997 CQC MEETING MINUTES	ADMIN RECORD	MTG MINS		
N60258 / 000963 NONE LTR NONE 00002	09-24-1997 04-28-1997 NONE 10.1	NAVFAC - SOUTHWEST DIVISION DIVISION D. ROLLEFSON VARIOUS AGENCIES	TRANSMITTAL OF MONTHLY NPDES MONITORING REPORT, NPDES PERMIT CAG834001, MARCH 1997, NEX GAS STATION FOR REVIEW AND COMMENT (W/O ENCL)	ADMIN RECORD	MONITORING		POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000956 SW3693 MM N68711-93-D-1459 00004	09-19-1997 04-30-1997 DO 83 10.4	OHM REMEDATION SVC S. BORNHOFT MEETING ATTENDEES	30 APRIL 1997 CQC MEETING MINUTES	ADMIN RECORD	CLOSURE DISPOSAL DRUMS INVESTIGATION MTG MINS PERMIT SOIL TANK WELLS	BLDG. 132 BLDG. 301	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004

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N60258 / 000955 SW3694 MM N68711-93-D-1459 00004	09-19-1997 05-05-1997 DO 83 10.4	OHM REMEDATION SVCS S. BORNHOFT MEETING ATTENDEES	7 MAY 1997 CQC MEETING MINUTES	ADMIN RECORD	CLEANUP CLOSURE MTG MINS PERMIT REMOVAL SOIL TANK	013	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000966 NONE LTR NONE 00001	09-24-1997 05-13-1997 NONE 10.1	CRWQCB MONTEREY PARK J. ROSS J. ROSS NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	CRWQCB COMMENTS TO QUARTERLY GROUNDWATER MONITORING REPORT, FIRST QUARTER 1996 - NEX GAS STATION	ADMIN RECORD	GW MONITORING		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000945 SWDIV SER 1170/220 1170/220 LTR N68711-92-D-4670 00010	09-17-1997 05-19-1997 00123 00123 10.1	BECHTEL NATIONAL INC K. KAPUR K. KAPUR DTSC LONG BEACH A. GUTIEREZ	RESPONSE TO AGENCY COMMENTS REGARDING THE DRAFT GROUNDWATER INVESTIGATION WORK PLAN FOR SITES 9, 12, AND 13	ADMIN RECORD	COMMENTS GW INVESTIGATION RESPONSE TPH VOC WORK PLAN	009 012 013 AOPC 4	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000976 NONE MM NONE 00007	12-15-1998 05-20-1997 NONE 10.4	LONG BEACH NSY RAB INTERESTED PARTIES	NOTICE, AGENDA AND MINUTES OF MAY 20, 1997 RAB MEETING	ADMIN RECORD	GW MTG MINS PCE RAB SOIL	007	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004

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N60258 / 000968 NONE	09-24-1997 05-21-1997	BECHTEL NATIONAL INC K. KAPUR	TRANSMITTAL OF APRIL 1 AND 28 1997 WORKSHOP MINUTES, RESULTS OF UN- IONIZED AMMONIA AND HYDROGEN SULFIDE CALCULATIONS AND DEFINITIONS AND LISTING	ADMIN RECORD	AOC BACKGROUND	007	SOUTHWEST DIVISION - BLDG. 12
LTR N68711-92-D-4670	00026 10.4	K. KAPUR VARIOUS AGENCIES			DATA MTG MINS		12
00027					PCB		PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004
N60258 / 000948 NONE	09-17-1997 05-28-1997	BECHTEL NATIONAL INC E. MORELAN	CONTACT REPORT - INFORMED SWDIV OF VERBAL CONCURRENCE OF GROUNDWATER INVESTIGATION WORK PLAN FOR SITES 9, 12, 13 BY U.S.EPA	ADMIN RECORD	GW INVESTIGATION	009 012	SOUTHWEST DIVISION - BLDG. 12
RPT N68711-92-D-4670	00123 01.6	E. MORELAN NAVFAC - SOUTHWEST DIVISION K. OSTROWSKI			IRP WORK PLAN	013	12
00003							PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000949 NONE	09-17-1997 05-29-1997	NAVFAC - SOUTHWEST DIVISION	TRANSMITTAL OF MONTHLY NPDES MONITORING REPORT, SOIL AND GROUNDWATER REMEDIATION SYSTEM, NAVAL EXCHANGE GAS STATION, APRIL 1997, FOR REVIEW AND APPROVAL	ADMIN RECORD	DATA GW	NEX GAS ST	SOUTHWEST DIVISION - BLDG. 1
LTR N68711-93-D-1459	DO 05 03.2	D. ROLLEFSON CRWQCB MONTEREY PARK			MONITORING		POSSIBLE POSSIBLE COMPLIANCE
00127							
N60258 / 000967 NONE	09-24-1997 05-29-1997	BECHTEL NATIONAL INC R. BOYNTON	EMERGENCY MEDICAL CARE ARRANGEMENTS	ADMIN RECORD	EXPOSURE GW H&SP HAZ WASTE		SOUTHWEST DIVISION - BLDG. 12
LTR N68711-92-D-4670	00123 01.6	ST MARY MED CTR					
00002		S. SHEA			PCB		PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004
					SOIL VOC		

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N60258 / 000940 CTO-0037/0442 & NSY LB SER NSY LB SER 1170/222 RPT N68711-92-D-4670 05283	09-17-1997 06-02-1997 00037 00037 03.4 03.4	BECHTEL NATIONAL INC K. KAPUR K. KAPUR VARIOUS VARIOUS AGENCIES	FINAL REMEDIAL INVESTIGATION REPORT - VOLUMES I THROUGH VII OF VII - INCLUDES NSY LB TRANSMITTAL LETTER BY C. ULASZEWSKI (SEE AR #19 - DRAFT SUPPLEMENTAL GROUNDWATER INVESTIGATION AND #1020 - FINAL SUPPLEMENTAL GWI)	ADMIN RECORD	BACKGROUND DISPOSAL EXPOSURE GW IRP METALS MONITORING RI SCRAPYARD SEDIMENTS SOIL VOC WATER WELLS	008 009 010 011 012 013 AOC 1 AOPC 1 AOPC 2 BLDG. 129 BLDG. 210 BLDG. 303 OU 4 OU 5	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04032504 IMAGED LBSY_004
N60258 / 000950 CTO-0123/0048 RPT N68711-92-D-4670 00304	09-17-1997 06-11-1997 00123 03.3	BECHTEL NATIONAL INC K. KAPUR K. KAPUR VARIOUS AGENCIES	FINAL GROUNDWATER INVESTIGATION WORK PLAN (SUPPLEMENT TO THE RI) FOR SITES 9, 12, AND 13	ADMIN RECORD	GW INVESTIGATION IRP MONITORING RI SOIL VOC WELLS WORK PLAN	009 012 013 AOPC 1 AOPC 2 AOPC 3 AOPC 4 BLDG. 129	SOUTHWEST DIVISION - BLDG. 1 PROBLEM FILE PROBLEM FILE CABINET
N60258 / 000942 NONE LTR NONE 00001	09-17-1997 06-12-1997 NONE 10.1	CRWQCB MONTEREY PARK J. ROSS J. ROSS NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	APPROVAL OF RESPONSE TO COMMENTS ON THE QUARTERLY GROUNDWATER MONITORING REPORT, FIRST QUARTER 1997 - NEX GAS STATION	ADMIN RECORD	COMMENTS GW MONITORING RESPONSE		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE

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N60258 / 000946 NONE	09-17-1997 06-12-1997	BECHTEL NATIONAL INC E. MORELAN	CONTACT REPORT - INFORMED SWDIV OF VERBAL CONCURRENCE OF GROUNDWATER INVESTIGATION WORK PLAN FOR SITES 9, 12, 13 BY LOS ANGELES RWQCB	ADMIN RECORD	COMMENTS GW	009 012	SOUTHWEST DIVISION - BLDG. 12
RPT N68711-92-D-4670	00123 01.6	E. MORELAN NAVFAC - SOUTHWEST DIVISION K. OSTROWSKI			INVESTIGATION WORK PLAN	013	12
00003							PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000947 NONE	09-17-1997 06-12-1997	BECHTEL NATIONAL INC E. MORELAN	CONTACT REPORT - INFORMED SWDIV OF VERBAL CONCURRENCE OF GROUNDWATER INVESTIGATION WORK PLAN FOR SITES 9, 12, 13 BY CAL-	ADMIN RECORD	GW INVESTIGATION	009 012	SOUTHWEST DIVISION - BLDG. 12
RPT N68711-92-D-4670	00123 01.6	E. MORELAN NAVFAC - SOUTHWEST DIVISION K. OSTROWSKI			IRP WORK PLAN	013	12
00003							PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000943 NONE	09-17-1997 06-18-1997	CRWQCB MONTEREY PARK J. ROSS	APPROVAL OF AGENCY RESPONSE TO COMMENTS ON DRAFT GROUNDWATER INVESTIGATION WORKPLAN FOR SITES 9, 12, AND 13	ADMIN RECORD	COMMENTS RESPONSE	009 012	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 10.1	J. ROSS NAVFAC - SOUTHWEST DIVISION K. OSTROWSKI				013	12
00001							PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000944 NONE	09-17-1997 06-20-1997	DTSC, LONG BEACH J. SCANDURA	CONCURRENCE WITH FINAL PRELIMINARY ASSESSMENT FOR THE POINT OF INTEREST , DATED APRIL 1997	ADMIN RECORD	PA		SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 10.1	J. SCANDURA NAVFAC - SOUTHWEST DIVISION K. BAER					12
00002							PALLET 14 - SW04022602 IMAGED LBSY_004

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N60258 / 000951 NONE	09-17-1997 06-24-1997	BECHTEL NATIONAL INC K. KAPUR	RESPONSE TO AGENCY COMMENTS ON FIRST QUARTER GRONDWATER MONITORING REPORT	ADMIN RECORD	COMMENTS GW	001 002	SOUTHWEST DIVISION - BLDG. 12
LTR N68711-92-D-4670	00112 10.1	K. KAPUR NAVFAC - SOUTHWEST DIVISION			MONITORING RESPONSE	003 004	12
00003						AOPC 4 AOPC 8	PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000941 NONE	09-17-1997 06-27-1997	BECHTEL NATIONAL INC E. MORELAN	25 JUNE 1997 CONTACT REPORT REGARDING INSTALLATION OFGROUNDWATER MONITORING WELLS IN THE VICINITY OF IRP SITE 9	ADMIN RECORD	GW IRP	009	SOUTHWEST DIVISION - BLDG. 12
RPT N68711-92-D-4670	00123 01.6	E. MORELAN NAVFAC - SOUTHWEST DIVISION			MONITORING SOIL		12
00002					WELLS		PALLET 14 - SW04022602 IMAGED LBSY_004
N60258 / 000965 NONE	09-24-1997 07-07-1997	U.S. EPA - SAN FRANCISCO M. HAUSLADEN	APPROVAL OF FINAL REMEDIAL INVESTIGATION REPORT FOR SITES 8 THROUGH 13	ADMIN RECORD	IR RI	008 009	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 10.1	M. HAUSLADEN NAVFAC - SOUTHWEST DIVISION K. BAER				010 011	12
00001						012 013	PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004
N60258 / 000977 NONE MM NONE	12-15-1998 07-15-1997 NONE 10.4	LONG BEACH NSY RAB INTERESTED PARTIES	NOTICE, AGENDA AND MINUTES OF JULY 15, 1997 RAB MEETING	ADMIN RECORD	MTG MINS RAB	007	SOUTHWEST DIVISION - BLDG. 12
00005							PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004

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N60258 / 000043 CTO-0123/0083	08-18-2000 08-04-1997	BECHTEL NATIONAL, INC. E. MORELAN E. MORELAN NAVFAC - SOUTHWEST DIVISION	DRAFT ADDENDUM TO THE FINAL GROUNDWATER INVESTIGATION WORK PLAN (SUPPLEMENT TO THE RI), TECHNICAL MEMORANDUM NO. 1	ADMIN RECORD	GW IRP RI SITE VOC WORK PLAN	009 012 013	SOUTHWEST DIVISION - BLDG. 1 PROBLEM FILE PROBLEM FILE CABINET
RPT N68711-92-D-4670 00016	00123						
N60258 / 000964 NONE	09-24-1997 08-07-1997	DTSC LONG BEACH A. GUTIERREZ A. GUTIERREZ NAVFAC - SOUTHWEST DIVISION K. BAER	NON-CONCURRENCE OF FINAL REMEDIAL INVESTIGATION REPORT FOR SITES 8 THROUGH 13, DATED JUNE 1997	ADMIN RECORD	IR RI	008 009 010 011	SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE 00002	NONE 10.1					012 013	PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000282 NONE	01-13-2004 09-01-1997	BECHTEL NATIONAL, INC. S. WAIDE S. WAIDE NAVFAC - SOUTHWEST DIVISION	PROGRAM SAFETY AND HEALTH PLAN, REVISION 2. ***COMMENTS: (SEE AR #281 - PROGRAM SAFETY AND HEALTH PLAN, REVISIONS 0 AND 1)***	ADMIN RECORD	H&SP MONITORING PAH PCB PERMIT TPH UST		
PLAN N68711-92-D-4670 00121	NONE						
N60258 / 000978 NONE MM NONE 00005	12-15-1998 11-18-1997 NONE 10.4	LONG BEACH NSY RAB INTERESTED PARTIES	NOTICE, AGENDA AND MINUTES OF NOVEMBER 18, 1997 RAB MEETING	ADMIN RECORD	MTG MINS RAB	006B 007 008 009 010 011 012 013	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004

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N60258 / 000969 SW4625	12-29-1997 12-04-1997	OHM REMEDIATION	FINAL UST SITE CLOSURE REPORT, REMOVAL OF DIESEL- CONTAMINATED SOIL AND ABANDONED USTS BUILDING S- 4 BOILER PLANT, DATED DECEMBER 4, 1997. ***COMMENTS: OHM PROJ.#	ADMIN RECORD	CLOSURE LF	BLDG. S4	SOUTHWEST DIVISION - BLDG. 1
RPT N68711-93-D-1459	DO 83 01.1	K. WILLIAMS K. WILLIAMS NAVFAC - SOUTHWEST DIVISION			REMOVAL SOIL		
02000		D. JESPERSEN			UST		POSSIBLE POSSIBLE COMPLIANCE
					WELLS		
N60258 / 000979 SWDIV SER 56LB.AL/1027 56LB.AL/1027 LTR NONE	12-15-1998 12-09-1997 NONE NONE 01.6	NAVFAC - SOUTHWEST DIVISION DIVISION A. LEE DTSC - LONG BEACH	REQUEST FOR DTSC CONCURRENCE WITH CONCLUSIONS AND RECOMMENDATIONS FOR SITES 8, 10 AND 11 AS PRESENTED IN FINAL REMEDIAL INVESTIGATION REPORT OF JUNE 2, 1997	ADMIN RECORD	GW NFA	008 009	SOUTHWEST DIVISION - BLDG. 12
00003		A. GUTIERREZ			RI	010 011 012	12
							PALLET 14 - PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004
N60258 / 000058 CTO-0123/0113	08-29-2000 12-10-1997	BECHTEL NATIONAL, INC. K. KAPUR	TECHNICAL MEMORANDUM NO. 2, PRE- DRAFT ADDENDUM TO FINAL GROUNDWATER INVESTIGATION WORK PLAN (SUPPLEMENT TO THE RI) INCLUDES TRANSMITTAL LETTER	ADMIN RECORD	GW IRP	009 012	SOUTHWEST DIVISION - BLDG. 1
RPT N68711-92-D-4670	00123	K. KAPUR NAVFAC - SOUTHWEST DIVISION			RI SOIL	013	
00050					VOC		PROBLEM FILE PROBLEM FILE CABINET
N60258 / 000970 SW4625	12-29-1997 12-10-1997	OHM REMEDIATION	FINAL UST SITE CLOSURE REPORT, REMOVAL OF DIESEL- CONTAMINATED SOIL & ABANDONED USTS BLDG S-4 BOILER PLT DTD DECEMBER 4, 1997 (REVISED COVER,SPINE,SIG.PAGES).	ADMIN RECORD	CLOSURE REMOVAL	BLDG. S4	SOUTHWEST DIVISION - BLDG. 1
RPT N68711-93-D-1459	DO 83 01.1	G. JAMES G. JAMES NAVFAC - SOUTHWEST DIVISION			SOIL UST		
00006		D. JESPERSEN	***COMMENTS: OHM PROJ.# 19022***				POSSIBLE POSSIBLE COMPLIANCE

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N60258 / 000980 SWDIV SER 26LB/AL/1029 26LB/AL/1029 PLAN NONE 00186	12-15-1998 12-17-1997 NONE NONE 01.1	NAVFAC - SOUTHWEST DIVISION DIVISION A. LEE VARIOUS AGENCIES	DRAFT BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP PLAN FOR LONG BEACH NAVAL SHIPYARD AND ASSOCIATED HOUSING - INCLUDES SWDIV TRANSMITTAL LETTER	ADMIN RECORD	AST BRAC GW PCB SWMU UST	006A 006B 007 008 009 010 011 012 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004
N60258 / 000973 CTO-0132/0120 RPT N68711-92-D-4670 00094	01-12-1998 12-22-1997 00123 03.3	BECHTEL NATIONAL INC K. KAPUR K. KAPUR VARIOUS AGENCIES	DRAFT ADDENDUM TO THE FINAL GROUNDWATER INVESTIGATION WORK PLAN (SUPPLEMENT TO THE RI) FOR SITES 9,12,& 13 (TECH. MEMO #2) DEC.97	ADMIN RECORD	GW INVESTIGATION IRP TECH MEMO WORK PLAN	009 012 013	SOUTHWEST DIVISION - BLDG. 1 PROBLEM FILE PROBLEM FILE CABINET
N60258 / 000972 SW4714 PLAN N68711-93-D-1459 00014	01-12-1998 01-02-1998 DO117 01.1	OHM REMEDIATION S. BORNHOFT S. BORNHOFT NAVFAC - SOUTHWEST DIVISION D. JESPERSEN	PLAN OF ACTION, BLDG. 128 OVEREXCAVATION, AMENDMENT TO FINAL UNDERGROUND STORAGE TANK REMOVAL AND SITE REMEDIATION WORK PLAN, DATED DECEMBER 23, 1997. ***COMMENTS: OHM PROJ NO#20404***	ADMIN RECORD	REMOVAL UST WORK PLAN	BLDG. 128	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000981 NONE LTR NONE 00001	12-15-1998 01-08-1998 NONE 01.6	CRWQCB LOS ANGELES J. ROSS J. ROSS NAVFAC - SOUTHWEST DIVISION K. OSTROWSKI	CRWQCB REVIEW OF DRAFT ADDENDUM TO THE FINAL GROUND WATER INVESTIGATION WORK PLAN FOR SITES 9, 12 AND 13, WITH NO OBJECTION TO IMPLEMENTATION OF WORK PLAN	ADMIN RECORD	GW SOIL VOC WORK PLAN	009 012 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004

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N60258 / 000982 NONE	12-15-1998 01-15-1998	DTSC LONG BEACH	DTSC COMMENTS ON DRAFT ADDENDUM TO THE FINAL GROUND WATER INVESTIGATION WORK PLAN FOR SITES 9, 12 AND 13	ADMIN RECORD	COMMENTS GW	009 012	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 10.1	A. GUTIERREZ A. GUTIERREZ NAVFAC - SOUTHWEST DIVISION K. OSTROWSKI			SOIL VOC	013 BLDG. 128	12
00004					WORK PLAN	BLDG. 217	PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004
N60258 / 000098 NONE MM MM NONE	12-11-2000 01-20-1998 NONE NONE	RESTORATION ADVISORY	RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES HELD ON JANUARY 20, 1998	ADMIN RECORD INFO REPOSITORY REPOSITORY	FS IR MTG MINS NFA	001 002 003 003 004	SOUTHWEST DIVISION - BLDG. 12 12
00004		NAVFAC - SOUTHWEST DIVISION			RAB	005 006A	PALLET 14 - SW04011502 IMAGED LBSY_001
N60258 / 000983 NONE	12-15-1998 02-03-1998	OHM REMEDIATION	RESPONSE TO COMMENTS ON THE PLAN OF ACTION, BUILDING 128 OVEREXCAVATION AMENDMENT TO THE FINAL UNDERGROUND STORAGE TANK REMOVAL AND SITE REMEDIATION WORK	ADMIN RECORD	COMMENTS PRG	BLDG. 128	SOUTHWEST DIVISION - BLDG. 1
XMTL N68711-93-D-1459	DO117 10.1	S. BORNHOFT S. BORNHOFT NAVFAC - SOUTHWEST DIVISION D. JESPERSEN	PLAN		RESPONSE SOIL UST		POSSIBLE POSSIBLE COMPLIANCE
N60258 / 001063 NONE MISC NONE	06-08-1999 02-17-1998 NONE 03.6	EPA J. RICH NAVFAC - SOUTHWEST DIVISION A. LEE	COMMUNITY RELATIONS PLAN AND FACT SHEETS	ADMIN RECORD	COMM REL FACT SHEETS		SOUTHWEST DIVISION - BLDG. 12
00004							PALLET 14 - SW04031101 IMAGED LBSY_004

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N60258 / 000987 NONE	12-15-1998 02-19-1998	BECHTEL NATIONAL INC K. KAPUR	FINAL ADDENDUM TO FINAL GROUNDWATER INVESTIGATION WORK PLAN (SUPPLEMENT TO THE RI FOR LBNSY), SITES 9, 12, AND 13 (TECHNICAL MEMORANDUM NO. 2)	ADMIN RECORD	GW SOIL	009 012	SOUTHWEST DIVISION - BLDG. 1
RPT N68711-92-D-4670	00123 03.3	K. KAPUR VARIOUS AGENCIES			VOC WORK PLAN	013	PROBLEM FILE PROBLEM FILE CABINET
00120							
N60258 / 000984 SWDIV SER 56LB.AL/0071 56LB.AL/0071 PLAN NONE	12-15-1998 02-25-1998 NONE NONE 01.1	NAVFAC - SOUTHWEST DIVISION DIVISION A. LEE VARIOUS AGENCIES	BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP PLAN (BCP) UPDATE FOR LONG BEACH NAVAL SHIPYARD AND ASSOCIATED HOUSING - INCLUDES SWDIV TRANSMITTAL LETTER	ADMIN RECORD	AST BCP BRAC GW PCB SWMU UST	006A 006B 007 008 009 010 011 012 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004
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N60258 / 000985 NONE	12-15-1998 02-25-1998	CDM FEDERAL PROGRAMS	PRELIMINARY ASSESSMENT (PA) REPORT FOR 25 GROUP B AREAS OF CONCERN (AOC)	ADMIN RECORD	AOC GW	DD 1 DD 2	SOUTHWEST DIVISION - BLDG. 1
RPT N68711-96-D-2029 00300	DO 14 01.3	NAVFAC - SOUTHWEST DIVISION			NFA PA SOIL UST	DD 3 HIST 3 HIST 5 HWF 5 MISC 9 SAP 151 SAP 148 SAP 149 SAP 150 SAP 152 SAP 24 SAP 3 SAP 4 SAP 5 SAP 6 SAP 7 SSS 1 SWS 1 SWS 2 UST 15 UST 18 UST 5 UST 6	PROBLEM FILE PROBLEM FILE CABINET
N60258 / 000986 NONE	12-15-1998 02-25-1998	CDM FEDERAL PROGRAMS	WORK PLAN FOR GROUP B AREAS OF CONCERN PRELIMINARY ASSESSMENT/SITE INSPECTION (SEE AR #993 - WORK PLAN ADDENDUM NO. 1 FOR GROUP B AREAS OF CONCERN	ADMIN RECORD	AOC GW	BLDG. 128 BLDG. 129	SOUTHWEST DIVISION - BLDG. 12
PLAN N68711-96-D-2029 00263	DO 14 03.3	NAVFAC - SOUTHWEST DIVISION	PRELIMINARY ASSESSMENT/SITE INSPECTION)		PRG SOIL UST WORK PLAN	BLDG. 130 BLDG. 132 BLDG. 210	PALLET 14 - PALLET 14 - SW04031101 IMAGED LBSY_004

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N60258 / 000099 NONE MM MM NONE 00003	12-11-2000 03-17-1998 NONE NONE	RESTORATION ADVISORY NAVFAC - SOUTHWEST DIVISION	RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES HELD ON MARCH 17, 1998	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC MTG MINS PA RAB		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04011502 IMAGED LBSY_001
N60258 / 000988 NONE MISC N68711-92-D-4670 00042	12-15-1998 03-19-1998 00123 01.4	BECHTEL NATIONAL INC K. KAPUR K. KAPUR VARIOUS AGENCIES	GRAPHICS DISPLAYING PRELIMINARY SOIL AND GROUNDWATER RESULTS FOR THE SUPPLEMENTAL GROUNDWATER INVESTIGATION (SUPPLEMENT TO THE RI FOR LBNSY), SITES 9, 12 AND 13 (TECH MEMO NO.2)	ADMIN RECORD	GW RI SOIL	009 012 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 000989 NONE LTR NONE 00008	12-15-1998 03-24-1998 NONE 10.1	CRWQCB LOS ANGELES J. ROSS J. ROSS NAVFAC - SOUTHWEST DIVISION K. BAER	CRWQCB COMMENTS ON THE DRAFT PRELIMINARY ASSESSMENT (PA) FOR 25 GROUP B AREAS OF CONCERN (AOCS)	ADMIN RECORD	AOC COMMENTS PA SOIL	DD 1 DD 2 DD 3 HIST 3 HWF 5 MISC 9 SAP 149 SAP 151 SAP 24 SAP 7 SSS 1 SWS 2 UST 15 UST 18 UST 6	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04031101 IMAGED LBSY_004

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N60258 / 000990 NONE	12-15-1998 04-03-1998	NAVFAC - SOUTHWEST DIVISION A. DIDOMENICO DTSC GLENDALE	NAVY REQUEST TO DTSC TO APPROVE CLOSURE FOR BUILDING 118, CONTAINER STORAGE AREA, WITH TECHNICAL SUMMARY	ADMIN RECORD	CLOSURE GW SOIL	BLDG. 118	SOUTHWEST DIVISION - BLDG. 12 12
MISC NONE	NONE 01.6						
00006		J. KOU					PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 000991 NONE	12-15-1998 04-03-1998	NAVFAC - SOUTHWEST DIVISION A. DIDOMENICO DTSC CYPRESS	NAVY REQUEST THAT TIER PERMITTED EQUIPMENT AT FORMER LBNSY BE REMOVED FROM DTSC DATABASE	ADMIN RECORD			SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE	NONE 01.6						
00002							PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 000992 NONE	12-15-1998 04-07-1998	DTSC CYPRESS A. GUTIERREZ	DTSC REVIEW OF DRAFT PRELIMINARY ASSESSMENT FOR 25 AREAS OF CONCERN, WITH CONCURRENCE AND COMMENTS	ADMIN RECORD	AOC COMMENTS PA	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE	NONE 01.6	NAVFAC - SOUTHWEST DIVISION					
00003		K. BAER					PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 000993 NONE	12-15-1998 04-13-1998	CDM FEDERAL PROGRAMS D. BJOSTAD D. BJOSTAD NAVFAC - SOUTHWEST DIVISION	DRAFT WORK PLAN ADDENDUM NO. 1 FOR GROUP B AREAS OF CONCERN INVESTIGATION PRELIMINARY ASSESSMENT/SITE INSPECTION (SEE AR #986 - WORK PLAN FOR GROUP B AREAS OF CONCERN PRELIMINARY ASSESSMENT/SITE INSPECTION)	ADMIN RECORD	AOC GW PA SEDIMENTS SI SOIL WORK PLAN	HIST 3 HIST 5 HWF 5 MISC 9 SSS 1 SWS 2 SWS 4 SWS 5	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04031101 IMAGED LBSY_004
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N60258 / 000994 NONE	12-15-1998 04-17-1998	CDM FEDERAL PROGRAMS D. BJOSTAD	DRAFT WORK PLAN ADDENDUM NO. 1 FOR GROUP B AREAS OF CONCERN INVESTIGATION PRELIMINARY ASSESSMENT/SITE INSPECTION	ADMIN RECORD	AOC GW	HIST 3 HIST 5	SOUTHWEST DIVISION - BLDG. 12
PLAN N68711-96-D-2029	DO 14 03.3	D. BJOSTAD NAVFAC - SOUTHWEST DIVISION			PA SEDIMENTS	HWF 5 MISC 9	12
00026					SI SOIL WORK PLAN	SSS 1 SWS 2 SWS 4 SWS 5	PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 000995 SWDIV SER 56LB.KB/0147	12-15-1998 04-21-1998 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION K. KESLER DTSC - LONG BEACH	LETTER REQUESTING DTSC COMMENTS ON THE DRAFT WORK PLAN ADDENDUM NO. 1 FOR GROUP B AREAS OF CONCERN PRELIMINARY ASSESSMENT/SITE INSPECTION BY 4/24/98	ADMIN RECORD	COMMENTS WORK PLAN	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE	01.6						
00003		A. GUTIERREZ					PALLET 14 - PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 000996 NONE	12-15-1998 04-28-1998	DTSC CYPRESS A. GUTIERREZ	DTSC COMMENTS ON THE DRAFT WORK PLAN FOR GROUP B AREAS OF CONCERN PRELIMINARY ASSESSMENT/SITE INSPECTION AND ADDENDUM NO. 1	ADMIN RECORD	AOC COMMENTS	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE	NONE 10.1	NAVFAC - SOUTHWEST DIVISION			PA SI		
00003		K. BAER			WORK PLAN		PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 000997 SWDIV SER 56LB.DR/0149 56LB.DR/0149 MISC NONE	12-15-1998 04-29-1998 NONE NONE 01.6	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI DTSC - LONG BEACH	DRAFT ENVIRONMENTAL FACT SHEET NO. 1 FOR THE LONG BEACH NAVAL COMPLEX FOR REVIEW AND COMMENT	ADMIN RECORD	COMMENTS	006A 006B 007 008 009	SOUTHWEST DIVISION - BLDG. 12 12
00006		A. GUTIERREZ				010 011 012 013	PALLET 14 - PALLET 14 - SW04031101 IMAGED LBSY_004

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N60258 / 000998 NONE	12-15-1998 04-29-1998	CRWQCB LOS ANGELES J. ROSS	CRWQCB COMMENTS ON THE DRAFT WORK PLAN AND WORK PLAN ADDENDUM NO. 1 - GROUP B AREAS OF CONCERN PRELIMINARY ASSESSMENT/SITE INSPECTION	ADMIN RECORD	AOC COMMENTS	GROUP B	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 10.1	J. ROSS NAVFAC - SOUTHWEST DIVISION K. BAER			PA SI		12
00011					WORK PLAN		PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 000999 NONE	12-15-1998 05-04-1998	OHM REMEDIATION S. BORNHOFT S. BORNHOFT NAVFAC - SOUTHWEST DIVISION	DRAFT REMEDIATION CLOSURE REPORT, BUILDING 128 UNDERGROUND STORAGE TANK SITE	ADMIN RECORD	CLOSURE METALS	BLDG. 128	SOUTHWEST DIVISION - BLDG. 1
RPT N68711-93-D-1459	DO117 03.4				PCB SOIL		
00100		D. JESPERSEN			UST VOC		POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000100 NONE MM NONE	12-11-2000 05-19-1998 NONE	RESTORATION ADVISORY NAVFAC - SOUTHWEST DIVISION	RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES HELD ON MAY 19, 1998	ADMIN RECORD INFO REPOSITORY	AOC FS IR MTG MINS	003 004 005 006A	SOUTHWEST DIVISION - BLDG. 12
00003					RAB	007	PALLET 14 - SW04011502 IMAGED LBSY_001
N60258 / 001000 NONE	12-15-1998 05-28-1998	NAVFAC - SOUTHWEST DIVISION DIVISION K. KESLER DTSC - LONG BEACH A. GUTIERREZ	FINAL RESPONSE TO COMMENTS ON THE DRAFT WORK PLAN AND WORK PLAN ADDENDUM NO. 1 - GROUP B AREAS OF CONCERN	ADMIN RECORD	COMMENTS RESPONSE	GROUP B	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 10.1						12
00032							PALLET 14 - SW04031101 IMAGED LBSY_004

[illegible]

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N60258 / 001003 NONE RPT N68711-96-D-2029 00525	12-16-1998 06-23-1998 DO 14 01.3	NAVFAC - SOUTHWEST DIVISION DIVISION	FINAL PRELIMINARY ASSESSMENT REPORT FOR 25 GROUP B AREAS OF CONCERN - REPORT ON 2 DISKETTES, FIGURES ON 2 CD-ROMS	ADMIN RECORD	AOC PA	GROUP B	SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING
N60258 / 001004 NONE PLAN N68711-96-D-2029 00390	12-16-1998 06-26-1998 DO 14 03.3	CDM FEDERAL PROGRAMS NAVFAC - SOUTHWEST DIVISION	FINAL WORK PLAN FOR GROUP B AREAS OF CONCERN INVESTIGATION	ADMIN RECORD	AOC GW INVESTIGATION PCB PRG SOIL UST WORK PLAN	BLDG. 128 BLDG. 129 BLDG. 130 BLDG. 132 BLDG. 210 GROUP B	SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING
N60258 / 001005 NONE LTR NONE 00002	12-16-1998 07-07-1998 NONE 01.6	DTSC CYPRESS S. FAIR NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	LETTER OF CONCURRENCE WITH FINAL REMEDATION CLOSURE REPORT FOR BUILDING 128 UNDERGROUND STORAGE TANK SITE	ADMIN RECORD	CLOSURE GW METALS PCB SOIL UST	BLDG. 128	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 001006 NONE XMTL N68711-96-D-2029 00030	12-16-1998 07-09-1998 DO 14 03.3	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI VARIOUS AGENCIES	TRANSMITTAL OF FINAL WORK PLAN ADDENDUM NO. 1 FOR GROUP B AREAS OF CONCERN INVESTIGATION	ADMIN RECORD	AOC GW SEDIMENTS SOIL WORK PLAN	GROUP B HIST 3 HIST 5 HWF 5 MISC 9 SSS 1 SWS 2 SWS 3 SWS 4 SWS 5	SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING

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N60258 / 001007 NONE	12-16-1998 07-10-1998	CRWQCB LOS ANGELES J. ROSS J. ROSS NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	LETTER OF CONCURRENCE WITH FINAL REMEDIATION CLOSURE REPORT FOR BUILDING 128 UNDERGROUND STORAGE TANK SITE WITH NO FURTHER ACTION REQUIRED FOR SOIL	ADMIN RECORD	CLOSURE GW NFA SOIL UST	BLDG. 128	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
LTR NONE 00001	NONE 01.6						
N60258 / 001008 NONE	12-16-1998 07-13-1998	EPA SAN FRANCISCO M. HAUSLADEN M. HAUSLADEN NAVFAC - SOUTHWEST DIVISION K. BAER	ACCEPTANCE OF FINAL PA REPORT, 25 GROUP B AOCS, AND FINAL WORK PLAN FOR GROUP B AOCS	ADMIN RECORD	AOC PA WORK PLAN	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04031101 IMAGED LBSY_004
LTR NONE 00001	NONE 01.6						
N60258 / 001009 NONE	12-16-1998 07-16-1998	DTSC CYPRESS S. FAIR NAVFAC - SOUTHWEST DIVISION K. BAER	DTSC REVIEW OF AND CONCURRENCE WITH FINAL WORK PLAN FOR GROUP B AREAS OF CONCERN (AOCS)	ADMIN RECORD	AOC WORK PLAN	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04031101 IMAGED LBSY_004
LTR NONE 00002	NONE 01.6						
N60258 / 000101 NONE MM NONE 00004	12-11-2000 07-21-1998 NONE	RESTORATION ADVISORY NAVFAC - SOUTHWEST DIVISION	RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES HELD ON JULY 21,	ADMIN RECORD INFO REPOSITORY	EE/CA IR MTG MINS NFA RAB VOC	007 014	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04011502 IMAGED LBSY_001

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N60258 / 001010 NONE	12-16-1998 07-22-1998	CRWQCB LOS ANGELES J. ROSS	CRWQCB REVIEW OF DRAFT PRELIMINARY ASSESSMENT REPORT FOR 25 GROUP B AREAS OF CONCERN, WITH	ADMIN RECORD	AOC COMMENTS	GROUP B	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 10.1	J. ROSS NAVFAC - SOUTHWEST DIVISION K. BAER			PA		
00001							PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 001011 NONE	12-16-1998 07-28-1998	CRWQCB LOS ANGELES J. ROSS	CRWQCB REVIEW OF FINAL WORK PLAN AND FINAL WORK PLAN ADDENDUM NO. 1 FOR GROUP B AOCS, WITH	ADMIN RECORD	AOC WORK PLAN	GROUP B	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 01.6	J. ROSS NAVFAC - SOUTHWEST DIVISION K. BAER	AUTHORIZATION FOR IMPLEMENTATION OF BOTH				
00001							PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 001012 NONE	12-16-1998 07-30-1998	CRWQCB LOS ANGELES J. ROSS	CRWQCB REVIEW OF RESPONSES TO COMMENTS ON THE FINAL PA FOR 25 GROUP B AOCS, WITH NO ADDITIONAL COMMENTS	ADMIN RECORD	AOC COMMENTS	GROUP B	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 10.1	J. ROSS NAVFAC - SOUTHWEST DIVISION K. BAER			PA RESPONSE		
00001							PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 001013 NONE	12-16-1998 07-30-1998	CDM FEDERAL PROGRAMS	DRAFT SAMPLING REPORT FOR NINE GROUP B AREAS OF CONCERN (VOLS. 1 & 2)	ADMIN RECORD	AOC GW	GROUP B HIST 3	SOUTHWEST DIVISION - BLDG. 1
RPT N68711-96-D-2029	DO 14 03.4	NAVFAC - SOUTHWEST DIVISION			PCB PRG	HIST 5 HWF 5	
01700					SEDIMENTS	MISC 9	PROBLEM PROBLEM SHELVING
					SOIL VOC	SSS 1 SWS 2 SWS 3 SWS 4 SWS 5	

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N60258 / 001015 NONE LTR NONE 00005	12-16-1998 07-31-1998 NONE 01.6	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI CRWQCB LOS ANGELES H. MARLEY	RESPONSE TO CRWQCB COMMENTS IN LETTER OF JULY 22, 1998 REGARDING THE FINAL PRELIMINARY ASSESSMENT FOR 25 GROUP B AREAS OF CONCERN	ADMIN RECORD	COMMENTS RESPONSE	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 001028 SWDIV SER 56LB.DR/0343 56LB.DR/0343 XMTL N68711-96-D-2029 00168	12-17-1998 08-01-1998 DO 015 DO 015 10.2	CDM FEDERAL PROGRAMS CORP. CORP. L. DAVIDSON NAVFAC - SOUTHWEST DIVISION DIVISION	DRAFT FINAL COMMUNITY RELATIONS PLAN (INCLUDES RESPONSE TO COMMENTS ON THE DRAFT COMMUNITY RELATIONS PLAN AND SWDIV TRANSMITTAL LETTER BY F. ALJABI)	ADMIN RECORD	COMMENTS CRP RESPONSE	006A 006B 007 008 009 010 011 012 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04032505 IMAGED LBSY_004
N60258 / 001016 NONE LTR NONE 00001	12-17-1998 08-04-1998 NONE 01.6	EPA SAN FRANCISCO M. HAUSLADEN NAVFAC - SOUTHWEST DIVISION K. BAER	ACCEPTANCE OF FINAL WORK PLAN ADDENDUM NO. 1, 25 GROUP B AOCS	ADMIN RECORD	AOC WORK PLAN	GROUP B	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 000285 NONE LTR NONE 00005	01-23-2004 08-05-1998 NONE	DTSC - CYPRESS J. RICH NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	ADDITIONAL DTSC COMMENTS ON THE DRAFT COMMUNITY RELATIONS PLAN	ADMIN RECORD INFO REPOSITORY	COMMENTS CRP		SOUTHWEST DIVISION - BLDG. 1

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N60258 / 001017 NONE LTR NONE 00001	12-17-1998 08-07-1998 NONE 10.1	CRWQCB LOS ANGELES J. ROSS NAVFAC - SOUTHWEST DIVISION K. BAER	COMMENTS ON DRAFT SAMPLING REPORT FOR NINE GROUP B AREAS OF	ADMIN RECORD	AOC COMMENTS GW SEDIMENTS SOIL TPH	GROUP B	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 001018 NONE PLAN N68711-96-D-2029 00090	12-17-1998 08-18-1998 DO 14 03.3	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI VARIOUS AGENCIES	DRAFT WORK PLAN ADDENDUM NO. 2 FOR TEN GROUP B AREAS OF CONCERN INVESTIGATION	ADMIN RECORD	AOC GW METALS PCB SOIL TPH UST VOC WORK PLAN	GROUP B HIST 1 HIST 2 HIST 8 HIST 9 MISC 6 MISC 8 PCB 17 PT 3 UST 2 UST 4	SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING
N60258 / 001024 NONE XMTL N68711-96-D-2029 00085	12-17-1998 08-18-1998 DO 13 03.4	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI VAROUS AGENCIES	TRANSMITTAL OF DRAFT SECOND QUARTER 1998 GROUNDWATER MONITORING AND SITE CLOSURE SUMMARY REPORT, BUILDING 4	ADMIN RECORD	BTX&E GW MONITORING SOIL TPH UST WELLS	BLDG. 4	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000019 CTO-0123/0205 RPT N68711-92-D-4670 04244	01-05-2000 08-20-1998 00123 03.4	BECHTEL NATIONAL INC K. KAPUR K. KAPUR NAVFAC - SOUTHWEST DIVISION M, ORPILLA	DRAFT - SUPPLEMENTAL GROUNDWATER INVESTIGATION - VOLUMES I THROUGH VI OF VI (SEE AR #940 - FINAL REMEDIAL INVESTIGATION REPORT AND #1020 - FINAL SUPPLEMENTAL GWI)	ADMIN RECORD	DCA GW MTBE PCE SOIL TCE VOCS	009 012 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04032502 IMAGED LBSY_001

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N60258 / 001019 NONE	12-17-1998 08-20-1998	NAVFAC - SOUTHWEST DIVISION	TRANSMITTAL OF THE DRAFT SUPPLEMENTAL GROUNDWATER INVESTIGATION (SGI) FOR SITES 9, 12, AND 13, WITH REQUEST FOR COMMENTS BY 9/22/98 (REF. DOC. #000019)	ADMIN RECORD	GW	009	SOUTHWEST DIVISION - BLDG. 12 12
XMTL NONE	NONE 01.4	A. LEE VARIOUS AGENCIES					
00004							PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 001021 NONE	12-17-1998 08-21-1998	NAVFAC - SOUTHWEST DIVISION	TRANSMITTAL OF THE FINAL FEASIBILITY STUDY WORK PLAN FOR SITE 7, WITH REQUEST FOR WRITTEN ACCEPTANCE BY AUGUST 28, 1998 (W/O ENCLOSURE)	ADMIN RECORD	FS WORK PLAN	007	SOUTHWEST DIVISION - BLDG. 1
XMTL NONE	NONE 01.6	A. LEE VARIOUS AGENCIES					
00003							TO BE DELETED TO BE DELETED
N60258 / 001022 NONE	12-17-1998 08-26-1998	DTSC CYPRESS S. FAIR	DTSC CONCURRENCE WITH THE FINAL WORK PLAN ADDENDUM NO. 1 FOR GROUP B AREAS OF CONCERN	ADMIN RECORD	AOC INVESTIGATION	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE	NONE 01.6	NAVFAC - SOUTHWEST DIVISION			WORK PLAN		
00006		K. BAER					PALLET 14 - SW04032505 IMAGED LBSY_004
N60258 / 001023 NONE	12-17-1998 08-26-1998	DTSC CYPRESS S. FAIR	DTSC CONCURRENCE WITH THE FINAL PRELIMINARY ASSESSMENT REPORT FOR 25 GROUP B AREAS OF CONCERN	ADMIN RECORD	AOC PA	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE	NONE 01.6	NAVFAC - SOUTHWEST DIVISION			UST		
00003		K. BAER					PALLET 14 - SW04032505 IMAGED LBSY_004

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

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N60258 / 001025 SWDIV SER 56LB.DR/0339 56LB.DR/0339 XMTL NONE 00004	12-17-1998 08-31-1998 NONE NONE 01.1	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI SCAQMD S. CASO	TRANSMITTAL OF CLOSURE REPORTS & DAILY AIR MONITORING RECORDS FOR SITE 4 EAST AND SITE 4 WEST, FOR REVIEW (W/O ENCLOSURES)	ADMIN RECORD	CLOSURE MONITORING SOIL	004	SOUTHWEST DIVISION - BLDG. 1 PROBLEM SHELVING
N60258 / 001026 NONE LTR NONE 00003	12-17-1998 08-31-1998 NONE 10.1	EPA SAN FRANCISCO M. HAUSLADEN NAVFAC - SOUTHWEST DIVISION K. BAER	COMMENTS ON THE DRAFT SAMPLING REPORT FOR NINE GROUP B AOCS	ADMIN RECORD	COMMENTS	GROUP B	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04032505 IMAGED LBSY_004
N60258 / 001027 NONE XMTL NONE 00007	12-17-1998 08-31-1998 NONE 10.6	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI VARIOUS AGENCIES	TRANSMITTAL OF THE DRAFT ENVIRONMENTAL FACT SHEET #2 FOR THE LONG BEACH NAVAL COMPLEX, FOR REVIEW AND COMMENTS BY SEPTEMBER 11, 1998	ADMIN RECORD	RA RAB	011	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04032505 IMAGED LBSY_004
N60258 / 000290 NONE MISC NONE 00005	01-23-2004 09-01-1998 NONE	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI VARIOUS AGENCIES	FINAL ENVIRONMENTAL FACT SHEET #2 FOR THE LONG BEACH NAVAL COMPLEX	ADMIN RECORD INFO REPOSITORY	FACT SHEET RA RAB	003 014	SOUTHWEST DIVISION - BLDG. 1

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N60258 / 001030 NONE	12-17-1998 09-08-1998	NAVFAC - SOUTHWEST DIVISION	MEETING MINUTES FROM THE AUGUST 19, 1998 SITE TOUR OF THE FORMER LONG BEACH NAVAL SHIPYARD, WITH REQUEST FOR COMMENTS ON MEETING MINUTES BY SEPTEMBER 14, 1998	ADMIN RECORD	GW MTG MINS	BLDG. 128 BLDG. 129	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 01.6	F. ALJABI VARIOUS AGENCIES			PCB SOIL	BLDG. 132 BLDG. 202	12
00006					UST	BLDG. 203 BLDG. 204 BLDG. 205 BLDG. 52 BLDG. 54 BLDG. 73 UST 202 UST 216	PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004
N60258 / 000103 NONE MM MM NONE	12-11-2000 09-15-1998 NONE NONE	RESTORATION ADVISORY	RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES HELD ON SEPTEMBER 15, 1998	ADMIN RECORD INFO REPOSITORY REPOSITORY	BCT BRAC	001 002 006A 006A 007	SOUTHWEST DIVISION - BLDG. 12 12
00012		NAVFAC - SOUTHWEST DIVISION			EIR IR MTG MINS RAB ROD VOC	009 012 013 014	PALLET 14 - SW04012901 IMAGED LBSY_002
N60258 / 001064 NONE FACT NONE	06-08-1999 10-05-1998 NONE 10.6	NAVFAC - SOUTHWEST DIVISION F. ALJABI DTSC - LONG BEACH A. GUTIERREZ	FINAL ENVIRONMENTAL FACT SHEET #2	ADMIN RECORD	FACT SHEET		SOUTHWEST DIVISION - BLDG. 12
00005							PALLET 14 - SW04031101 IMAGED LBSY_004

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N60258 / 001032 SWDIV SER 05BL.DR/0396 PLAN N68711-96-D-2029 00139	12-17-1998 10-06-1998 DO 15 10.2	NAVFAC - SOUTHWEST DIVISION F. ALJABI NAVFAC - SOUTHWEST DIVISION DIVISION	FINAL COMMUNITY RELATIONS PLAN - INCLUDES SWDIV TRANSMITTAL LETTER	ADMIN RECORD	CRP IR	006A 006B 007 008 009 010 011 012 013	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING
N60258 / 001067 NONE PLAN NONE 00050	06-08-1999 10-07-1998 NONE 03.3	NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	DRAFT FINAL WORK PLAN ADDENDUM NO. 2	ADMIN RECORD			
N60258 / 001035 NONE MISC NONE 00005	05-27-1999 10-08-1998 NONE 10.1	DTSC CYPRESS A. GUTIERREZ NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	DTSC COMMENTS ON THE DRAFT FINAL COMMUNITY RELATIONS PLAN	ADMIN RECORD	COMMENTS CRP		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004
N60258 / 001033 NONE MISC NONE 00003	12-17-1998 10-21-1998 NONE 10.1	DTSC CYPRESS A. GUTIERREZ NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	COMMENTS ON DRAFT SAMPLING REPORT FOR NINE GROUP B AREAS OF	ADMIN RECORD	AOC COMMENTS TPH	GROUP B	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004

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N60258 / 001031 NONE	12-17-1998 10-22-1998	BECHTEL NATIONAL INC K. KAPUR	RESPONSE TO COMMENTS ON THE DRAFT SUPPLEMENTAL GROUNDWATER INVESTIGATION REPORT	ADMIN RECORD	COMMENTS GW		SOUTHWEST DIVISION - BLDG. 12
MISC N68711-92-D-4670	00123 10.1	K. KAPUR VARIOUS AGENCIES			INVESTIGATION RESPONSE		12
00031							PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004
N60258 / 001034 NONE	12-17-1998 10-23-1998	CRWQCB LOS ANGELES J. ROSS	COMMENTS ON DRAFT FINAL VERSION OF THE WORK PLAN ADDENDUM NO. 2 FOR THE TEN GROUP B AREAS OF CONCERN INVESTIGATION	ADMIN RECORD	COMMENTS UST	BLDG. 129 BLDG. 202	SOUTHWEST DIVISION - BLDG. 12
MISC NONE	NONE 10.1	J. ROSS NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON			VOC	BLDG. 216 BLDG. 54	12
00001						GROUP B	PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004
N60258 / 001037 NONE	06-02-1999 11-04-1998	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI CAL-EPA	RESPONSE TO COMMENTS FOR AGENCY REVIEW OF THE DRAFT SAMPLING REPORT FOR NINE GROUP B AREAS OF CONCERN	ADMIN RECORD	COMMENTS RESPONSE	GROUP B	SOUTHWEST DIVISION - BLDG. 12
MISC NONE	NONE 10.1						12
00011							PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004
N60258 / 001038 SWDIV SER 05BL.DR/0451	06-02-1999 11-06-1998	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI LONG BEACH FIRE DEPT W. SWENSEN	LETTER TRANSMITTING A COPY OF THE WORKING FILE SUMMARY FOR THE UNDERGROUND STORAGE TANKS (USTS) (W/O ENCLOSURE)	ADMIN RECORD	UST		SOUTHWEST DIVISION - BLDG. 1
LTR NONE	NONE 01.6						POSSIBLE COMPLIANCE COMPLIANCE
00002							

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N60258 / 000104 NONE MM MM NONE 00005	12-11-2000 11-17-1998 NONE NONE	RESTORATION ADVISORY NAVFAC - SOUTHWEST DIVISION	RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES HELD ON NOVEMBER 17, 1998	ADMIN RECORD INFO REPOSITORY REPOSITORY	FS IR MTG MINS RAB ROD UST	001 002 003 003 004 005 006A 007 008 009 010 011 012 013 014	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012901 IMAGED LBSY_002
N60258 / 001040 NONE LTR NONE 00001	06-02-1999 11-18-1998 NONE 03.6	CRWQCB J. ROSS NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	AGENCY REVIEW OF NAVY'S RESPONSE TO AGENCY COMMENTS ON THE DRAFT SAMPLING REPORT FOR NINE GROUP B AREAS OF CONCERN WITH NO FURTHER COMMENTS	ADMIN RECORD	COMMENTS RESPONSE	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04022603 - PACKAGE IMAGED LBSY_004
N60258 / 001039 SWDIV SER 05BL.DR/0471 05BL.DR/0471 RPT N68711-96-D-2029 01638	06-02-1999 11-24-1998 DO 14 DO 14 03.4	CDM FEDERAL PROGRAMS CORP. CORP. VARIOUS AGENCIES	FINAL SAMPLING REPORT FOR NINE GROUP B AREAS OF CONCERN, VOLUMES 1 & 2 OF 2 (SEE AR #1048 - REPLACEMENT PAGE 12-3, AR #1050 - ADDITIONAL PAGE ES-5, AR #45 - DRAFT ADDENDUM, AR #61 - FINAL ADDENDUM) - INCLUDES SWDIV TRANSMITTAL LETTER BY F. ALJABI	ADMIN RECORD	AOCs GW PRGs SEDIMENTS SOIL SVOCs TPH VOCs	GROUP B HIST 3 HIST 5 HWF 5 MISC 9 SSS 1 SWS 2 SWS 3 SWS 4 SWS 5	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04011502 IMAGED LBSY_001

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N60258 / 000093 NONE	09-06-2000 11-30-1998	U.S. EPA - SAN FRANCISCO D. OPALSKI	REVIEW OF THE RECORD OF DECISION DATED NOVEMBER 17, 1998 AND USEPA SUPPORTS THE NAVY'S SELECTED ALTERNATIVES FOR THESE SITES	ADMIN RECORD	GW IR	003 004	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE	D. OPALSKI NAVFAC - SOUTHWEST DIVISION A. LEE			ROD SOIL	005 006A	12
00002							PALLET 14 - SW04011502 IMAGED LBSY_001
N60258 / 001065 NONE MISC NONE	06-08-1999 12-09-1998 NONE 10.6	CRWQCB J. ROSS NAVFAC - SOUTHWEST DIVISION	REVIEW OF DRAFT ENVIRONMENTAL FACT SHEET #3	ADMIN RECORD	FACT SHEET REVIEW		SOUTHWEST DIVISION - BLDG. 12
00005		D. ROLLEFSON					PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 001041 NONE	06-02-1999 12-10-1998	CRWQCB J. ROSS	AGENCY COMMENTS ON SITE WALK MEETING MINUTES AND WORKPLAN ADDENDUM NO. 2 INSERT FOR GROUP B AREAS OF CONCERN	ADMIN RECORD	AOCs COMMENTS	GROUP B	SOUTHWEST DIVISION - BLDG. 12
MISC NONE	NONE 10.1	NAVFAC - SOUTHWEST DIVISION			WORKPLAN		12
00001		D. ROLLEFSON					PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 001042 NONE	06-02-1999 12-14-1998	CRWQCB J. ROSS	AGENCY RECEIPT AND REVIEW OF THE FINAL SAMPLING REPORT FOR NINE GROUP B AREAS OF CONCERN WITH NO FURTHER ACTION REQUIRED AT 5 AOCs AND CONCURR	ADMIN RECORD	AOCs NFA	GROUP B HIST 3	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 03.6	NAVFAC - SOUTHWEST DIVISION			RA	HIST 5 HWF 5	12
00001		D. ROLLEFSON				MISC 9	
						SSS 1 SWS 2 SWS 3 SWS 4 SWS 5	PALLET 14 - SW04031101 IMAGED LBSY_004

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N60258 / 001036 CTO-0177/0010 PLAN N68711-92-D-4670 00360	06-01-1999 12-18-1998 00177 03.3	BECHTEL NATIONAL, INC. S. DONOVAN S. DONOVAN VARIOUS AGENCIES	DRAFT WORK PLAN FOR GROUNDWATER MONITORING AT SITES 9, 12, AND 13. ***COMMENTS: INCLUDES FIELD SAMPLING PLAN, QUALITY ASSURANCE PROJECT PLAN, DATA MANAGEMENT PLAN, INVESTIGATION-DERIVED WASTE MANAGEMENT PLAN, AND MODIFICATIONS TO HEALTH AND SAFETY PLAN***	ADMIN RECORD	COPC DCA DCE DMP FSP GW IDWMP MONITORING MW PCE QAPP RCRA RFA RFI TCE VOC WELLS WORK PLAN	009 012 013 BLDG. 129 BLDG. 303	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 001043 NONE LTR NONE 00003	06-02-1999 12-30-1998 NONE 03.6	DTSC - CYPRESS S. FAIR NAVFAC - SOUTHWEST DIVISION A. LEE	DTSC DELAY IN REVIEW OF (AND COMMENTS ON) PREFINAL RECORD OF DECISION FOR SITES 3, 4, 5 AND 6A	ADMIN RECORD	COMMENTS ROD	006A	SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING
N60258 / 001044 NONE PLAN N68711-97-D-8702 00022	06-02-1999 01-13-1999 DO 16 03.3	GEOFON, INC. NAVFAC - SOUTHWEST DIVISION	WORK PLAN FOR ADDITIONAL SITE ASSESSMENT ACTIVITIES	ADMIN RECORD	GW MONITORING MTBE TPH WELLS WORK PLAN	BLDG. 101	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE

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N60258 / 001045 NONE RPT N68711-96-D-2029 00220	06-02-1999 01-13-1999 DO 19 03.4	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI VARIOUS AGENCIES	FINAL CLOSURE REPORT FOR BUILDING 128 GROUNDWATER INVESTIGATION - WITH ELECTRONIC MEDIA COPY (3 - 3.5" DISKETTES)	ADMIN RECORD	DCA GW PCB PCE SOIL SVOCs TCE TPH USTs VOCs	BLDG. 128	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 001066 NONE MISC NONE 00007	06-08-1999 01-19-1999 NONE 10.6	NAVFAC - SOUTHWEST DIVISION F. ALJABI DTSC - LONG BEACH A. GUTIERREZ	FINAL ENVIRONMENTAL FACT SHEET #3	ADMIN RECORD	FACT SHEET		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 000107 NONE MM MM NONE 00011	12-11-2000 01-20-1999 NONE NONE	RESTORATION ADVISORY NAVFAC - SOUTHWEST DIVISION	RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES HELD ON JANUARY 20, 1999	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC BCP BCT BRAC IR MTG MINS RAB	007	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012901 IMAGED LBSY_002
N60258 / 001046 SWDIV SER 05BL.ED/0544 05BL.ED/0544 RPT N68711-97-D-8702 00033	06-02-1999 02-01-1999 DO 06 DO 06 03.4	GEOFON INC J. FRENCH NAVFAC - NAVFAC - SOUTHWEST DIVISION	DRAFT SUMMARY REPORT, ADDITIONAL SOIL AND GROUNDWATER INVESTIGATION AT BUILDING 150 - INCLUDES SWDIV TRANSMITTAL LETTER	ADMIN RECORD	GW INVESTIGATION PCB SOIL USTs	BLDG. 150 UST 363 UST 364	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04031101 IMAGED LBSY_004

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N60258 / 001047 NONE	06-02-1999 02-01-1999	USEPA REGION IX M. HAUSLADEN	US EPA CONCURRENCE WITH FINDINGS PRESENTED IN THE FINAL SAMPLING REPORT FOR NINE GROUP B AREAS OF CONCERN	ADMIN RECORD		GROUP B	SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE	NONE 03.6	NAVFAC - SOUTHWEST DIVISION					
00001		D. ROLLEFSON					PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 001048 SWDIV SER 05BL.DR/0540	06-02-1999 02-10-1999 DO 14 DO 14	NAVFAC - SOUTHWEST DIVISION DIVISION	REPLACEMENT PAGE 12-3 FOR THE FINAL SAMPLING REPORT FOR NINE GROUP B AREAS OF CONCERN ((SEE AR #1039 - FINAL SAMPLING REPORT, AR #1050 - ADDITIONAL PAGE ES-5 TO AR #1039, AR #45 - DRAFT ADDENDUM SAMPLING	ADMIN RECORD		GROUP B	SOUTHWEST DIVISION - BLDG. 12 12
MISC N68711-96-D-2029	03.4	F. ALJABI DTSC - LONG BEACH	REPORT, AR #61 - FINAL ADDENDUM SAMPLING REPORT)				PALLET 14 - PALLET 14 - SW04031101 IMAGED LBSY_001
00006		A. GUTIERREZ					
N60258 / 001020 CTO-0123/0226 & SWDIV SER SWDIV SER	06-07-1999 02-11-1999 00123 00123	BECHTEL NATIONAL, INC. K. KAPUR K. KAPUR	FINAL SUPPLEMENTAL GROUNDWATER INVESTIGATION, VOLUMES 1 THROUGH 6 - INCLUDES SWDIV TRANSMITTAL LETTER BY A. LEE (SEE AR #19 - DRAFT SUPPLEMENTAL GROUNDWATER	ADMIN RECORD	GW INVESTIGATION	009 012	SOUTHWEST DIVISION - BLDG. 12 12
05BL.TM/0551 RPT N68711-92-D-4670 04274	03.3 03.3	VARIOUS VARIOUS AGENCIES	INVESTIGATION AND #940 - FINAL RI)		IRP	013	PALLET 14 - SW04032505 IMAGED LBSY_003

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N60258 / 001049 NONE	06-02-1999 02-11-1999	NAVFAC - SOUTHWEST DIVISION	FINAL WORK PLAN ADDENDUM NO. 2 FOR TWENTY GROUP B AREAS OF CONCERN INVESTIGATION	ADMIN RECORD	AOCs DCE	ADD 12 ADD 13	SOUTHWEST DIVISION - BLDG. 1
PLAN N68711-96-D-2029	DO 14 03.3	F. ALJABI VARIOUS AGENCIES			GW PAHs	ADD 14 ADD 3	
00140					PCBs	ADD 4	PROBLEM PROBLEM SHELVING
					PCE SEDIMENT SOIL TPH VC VOCs	ADD 5 ADD 6 ADD 7 ADD 8 ADD 9 GROUP B HIST 1 HIST 2 HIST 8 HIST 9 MISC 6 MISC 8 PCB 17 PT 3 UST 2 UST 4	
N60258 / 001050 SWDIV SER 05BL.DR/0542 05BL.DR/0542 LTR NONE	06-02-1999 02-18-1999 NONE NONE 03.6	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI VARIOUS AGENCIES	PAGE ES-5 FROM THE EXECUTIVE SUMMARY OF FINAL SAMPLING REPORT FOR NINE GROUP B AREAS OF CONCERN WITH REQUEST TO INCLUDE AOCs SSS 1 AND SWS 2 IN FI (* SEE COMMENT). ***COMMENTS: * (SEE AR #1039 - FINAL	ADMIN RECORD	AOCs	GROUP B SSS 1 SWS 2	SOUTHWEST DIVISION - BLDG. 12 12
00006			SAMPLING REPORT, AR #1048 - REPLACEMENT PAGE 12-3 TO AR #1039, AR #45 - DRAFT ADDENDUM TO SAMPLING REPORT, AR #61 - FINAL ADDENDUM TO SAMPLING REPORT)***				PALLET 14 - PALLET 14 - SW04031101 IMAGED LBSY_001

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N60258 / 001051 NONE	06-02-1999 02-18-1999	DTSC CYPRESS S. FAIR	DTSC REVIEW OF AND CONCURRENCE WITH THE FINAL SAMPLING REPORT FOR NINE GROUP B AREAS OF CONCERN	ADMIN RECORD	AOCs	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE	NONE 03.6	NAVFAC - SOUTHWEST DIVISION					
00002		D. ROLLEFSON					PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 001052 NONE	06-02-1999 02-19-1999	CRWQCB LOS ANGELES R. CHOU R. CHOU NAVFAC - SOUTHWEST DIVISION	CRWQCB REVIEW OF DRAFT CLOSURE REPORT FOR BUILDING 128 WITH CONCURRENCE ON NO FURTHER	ADMIN RECORD	GW NFA	BLDG. 128	SOUTHWEST DIVISION - BLDG. 1
LTR NONE	NONE 03.6				SOIL		POSSIBLE POSSIBLE COMPLIANCE
00001		D. ROLLEFSON					
N60258 / 001053 NONE	06-02-1999 02-19-1999	CRWQCB LOS ANGELES R. CHOU R. CHOU NAVFAC - SOUTHWEST DIVISION	CRWQCB REVIEW OF FINAL WORKPLAN ADDENDUM NO. 2 FOR TWENTY GROUP B AREAS OF CONCERN INVESTIGATION WITH AUTHORIZATION TO IMPLEMENT THE WORKPLAN,	ADMIN RECORD	AOCs WORKPLAN	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE	NONE 03.6	D. ROLLEFSON					PALLET 14 - SW04031101 IMAGED LBSY_004
00001							SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 001054 NONE	06-02-1999 02-23-1999	DTSC CYPRESS S. FAIR	DTSC REVIEW OF AND CONCURRENCE WITH THE FINAL WORKPLAN ADDENDUM NO. 2 FOR TWENTY GROUP B AREAS OF CONCERN INVESTIGATION	ADMIN RECORD	AOCs WORKPLAN	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE	NONE 03.6	NAVFAC - SOUTHWEST DIVISION					PALLET 14 - SW04031101 IMAGED LBSY_004
00002		D. ROLLEFSON					

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N60258 / 000108 NONE MM MM NONE 00003	12-11-2000 02-24-1999 NONE NONE	RESTORATION ADVISORY NAVFAC - SOUTHWEST DIVISION	RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES HELD ON FEBRUARY 24, 1999, NEW MEMBER SELECTION COMMITTEE	ADMIN RECORD INFO REPOSITORY	MTG MINS RAB		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000056 SW6633 RPT	08-29-2000 03-01-1999 DO005	OHM REMEDATION SERVICES CORP SERVICES CORP	MONTHLY MONITORING REPORT, NPDES PERMIT NUMBER CAG834001, SOIL AND GROUNDWATER REMEDIATION SYSTEM, NAVAL EXCHANGE GAS STATION DATED	ADMIN RECORD	BTEX GW MONITORING		
N68711-93-D-1459 00050		NAVFAC - SOUTHWEST DIVISION	MARCH 1, 1999 TO MARCH 31, 1999 INCLUDES TRANSMITTAL LETTER		MTBE SOIL TPH-G		POSSIBLE COMPLIANCE
N60258 / 001055 NONE LTR NONE 00001	06-02-1999 03-04-1999 NONE 03.6	USEPA REGION IX M. HAUSLADEN NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	US EPA REVIEW AND ACCEPTANCE OF FINAL WORK PLAN ADDENDUM NO. 2 FOR TWENTY AREAS OF CONCERN INVESTIGATION	ADMIN RECORD	AOCs	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04031101 IMAGED LBSY_004

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N60258 / 001059 CTO-0177/0019	06-07-1999 03-11-1999	BECHTEL NATIONAL, INC. S. DONOVAN	FINAL WORK PLAN FOR GROUNDWATER MONITORING. ***COMMENTS: INCLUDES FIELD SAMPLING PLAN, QUALITY ASSURANCE PROJECT PLAN, DATA MANAGEMENT PLAN, INVESTIGATION-	ADMIN RECORD	COPC DCA	009 012	SOUTHWEST DIVISION - BLDG. 1
PLAN N68711-92-D-4670	00177 03.4	S. DONOVAN NAVFAC - SOUTHWEST DIVISION	DERIVED WASTE MANAGEMENT PLAN, AND MODIFICATIONS TO HEALTH AND SAFETY PLAN***		DCE DMP DQO FS FSP GW IDWMP IRP MONITORING MTBE MW PCE QAPP RCRA RFA RFI RI TCE VOC WELLS WORK PLAN	013 BLDG. 129 BLDG. 303	PROBLEM PROBLEM SHELVING
N60258 / 001056 NONE	06-02-1999 03-15-1999	NAVFAC - SOUTHWEST DIVISION	DRAFT WORK PLAN GROUNDWATER INVESTIGATION FOR BUILDING 118 - FORMER HAZARDOUS WASTE STORAGE FACILITY	ADMIN RECORD	GW HAZ WASTE	BLDG. 118	SOUTHWEST DIVISION - BLDG. 1
PLAN N68711-96-D-2111	DO 08 03.3	F. ALJABI VARIOUS AGENCIES			INVESTIGATION METALS PRG SOIL SVOC TOC TPH VOC WORK PLAN		POSSIBLE POSSIBLE COMPLIANCE
00520							
00135							

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N60258 / 000110 NONE MM MM NONE 00008	12-11-2000 03-17-1999 NONE NONE	RESTORATION ADVISORY NAVFAC - SOUTHWEST DIVISION	RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES HELD ON MARCH 17, 1999	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOEC FS IR MTG MINS RAB	007	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012901 IMAGED LBSY_002
N60258 / 001058 NONE PLAN N68711-97-D-8702 00300	06-02-1999 03-19-1999 DO 24 03.3	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI VARIOUS AGENCIES	WORK PLAN FOR REMOVAL OF UNDERGROUND STORAGE TANKS (USTS) AND CLARIFIERS	ADMIN RECORD	SOIL UST WORK PLAN	BLDG. 128 BLDG. 129 BLDG. 132 BLDG. 205 BLDG. 210 BLDG. 216 BLDG. 217 BLDG. 101 BLDG. 210	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE SOUTHWEST DIVISION - BLDG. 1
N60258 / 001057 NONE PLAN N68711-97-D-8702 00030	06-02-1999 03-24-1999 DO 16 03.3	GEOFON, INC F. ALJABI VARIOUS AGENCIES	WORK PLAN FOR ADDITIONAL SOIL AND GROUNDWATER INVESTIGATION	ADMIN RECORD	GW SOIL WORK PLAN		POSSIBLE COMPLIANCE
N60258 / 001060 NONE RPT N68711-92-D-4670 00120	06-07-1999 04-12-1999 00183 03.3	NAVFAC - SOUTHWEST DIVISION ORPILLA VARIOUS AGENCIES	DRAFT EFFLUENT CONTIGENCY PLAN FOR DRYDOCK NUMBER 1	ADMIN RECORD	DRYDOCK		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE

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N60258 / 001081 NONE DATA NONE 00120	07-16-1999 04-27-1999 NONE 03.4	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI VARIOUS AGENCIES	SUMMARY OF RECENT SAMPLING PERFORMED IN FEBRUARY AND MARCH 1999 FOR GROUP B AREAS OF CONCERN INVESTIGATION WITH DATA FROM FIELD SAMPLING CONDUCTED IN JUNE 1998	ADMIN RECORD	AOC DATA		SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING
N60258 / 001062 NONE RPT N68711-97-D-8702 00019	06-08-1999 04-30-1999 NONE 03.3	NAVFAC - SOUTHWEST DIVISION F. ALJABI CRWQCB A. TOWNSEND	PLAN OF ACTION INSTALLATION OF FOUR MINIWELLS AT BUILDNG 150	ADMIN RECORD	MINIWELLS	BLDG. 150	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04031101 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000112 NONE CORRESP NONE 00001	12-11-2000 05-04-1999 NONE	RESTORATION ADVISORY NAVFAC - SOUTHWEST DIVISION	RESTORATION ADVISORY BOARD (RAB) SITE TOUR NOTICE	ADMIN RECORD INFO REPOSITORY	RAB		PROBLEM FILE PROBLEM FILE CABINET
N60258 / 001061 NONE MISC N68711-92-D-4670 00008	06-07-1999 05-18-1999 00177 03.4	BECHTEL NATIONAL PROVENCHER NAVFAC - SOUTHWEST DIVISION ORPILLA	INVESTIGATION DERIVED WASTE DISPOSAL	ADMIN RECORD	DISPOSAL		SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE

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N60258 / 000111 NONE MM NONE 00009	12-11-2000 05-19-1999 NONE	RESTORATION ADVISORY NAVFAC - SOUTHWEST DIVISION	RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES HELD ON MAY 19, 1999	ADMIN RECORD INFO REPOSITORY	AOC FS IR MTG MINS RAB ROD SVOC VOC	009 012 013	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012901 IMAGED LBSY_002
N60258 / 001076 NONE RPT N68711-97-D-8702 00050	07-08-1999 05-21-1999 DO016 03.3	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI VARIOUS AGENCIES	WORK PLAN - ADDITIONAL SOIL AND GROUNDWATER INVESTIGATION EAST OF BUIDLING 210	ADMIN RECORD	DATA GW MONITORING SOIL WMP	BLDG. 210	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 001068 NONE LTR NONE 00002	01-01-2000 05-27-1999 NONE 03.6	NAVFAC - SOUTHWEST DIVISION DIVISION T. DTSC - LONG BEACH A. GUTIERREZ	LETTER REGARDING INTENTION TO REMOVE AREA KNOWN AS IR SITE 9 FROM FEASIBILITY STUDY	ADMIN RECORD	FS IRP REMOVAL	009	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 000057 SW6955 RPT	08-29-2000 06-01-1999 DO005	OHM REMEDATION SERVICES CORP SERVICES CORP	MONTHLY MONITORING REPORT, NPDES PERMIT NUMBER CAG834001, SOIL AND GROUNDWATER REMEDIATION SYSTEM, NAVAL EXCHANGE GAS STATION DATED	ADMIN RECORD	BTXE GW MONITORING		SOUTHWEST DIVISION - BLDG. 1
N68711-93-D-1459 00040		NAVFAC - SOUTHWEST DIVISION	JUNE 1, 1999 TO JUNE 30, 1999 INCLUDES TRANSMITTAL LETTER		MTBE SOIL TPH-G		POSSIBLE COMPLIANCE

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N60258 / 001069 NONE	01-01-2000 06-03-1999	CRWQCB A. TOWNSEND	COMMENTS REGARDING WORK PLAN - REMOVAL OF UNDERGROUND STORAGE TANKS AND CLARIFIERS	ADMIN RECORD	COMMENTS UST		SOUTHWEST DIVISION - BLDG. 1
MISC NONE	NONE 10.1	NAVFAC - SOUTHWEST DIVISION			WORK PLAN		POSSIBLE POSSIBLE COMPLIANCE
00002		G. SHEFFER					
N60258 / 001070 NONE MISC NONE	01-01-2000 06-03-1999 NONE 10.1	NAVFAC - SOUTHWEST DIVISION F. ALJABI EPA	NPDES DISCHARGE MONITORING RPT FOR REVIEW	ADMIN RECORD	MONITORING		SOUTHWEST DIVISION - BLDG. 1
00010		C. HOUK					POSSIBLE POSSIBLE COMPLIANCE
N60258 / 001071 NONE	01-01-2000 06-09-1999	DTSC S. FAIR	COMPLETION OF REVIEW OF FINAL SUPPLEMENTAL GROUNDWATER INVESTIGATION	ADMIN RECORD	GW IR	009 012	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE 10.1	NAVFAC - SOUTHWEST DIVISION				013	12
00003		T. MACCHIRELLA					PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 001072 SWDIV SER 05BN.DR/0180 MISC NONE 00007	01-01-2000 06-09-1999 NONE 03.6	NAVFAC - SOUTHWEST DIVISION F. ALJABI PORT OF L.B. A. STEINBERG	NAVY REQUEST FOR POLB ACCEPTANCE FOR THE TRANSFER OF USTS 202.1, 202.2 AND 202.3 (BUILDING 202)	ADMIN RECORD	POLB UST		SOUTHWEST DIVISION - BLDG. 12
							PALLET 14 - SW04031101 IMAGED LBSY_004

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N60258 / 001073 SWDIV SER 05BL.DR/0181 MISC NONE 00006	01-01-2000 06-09-1999 NONE 03.6	NAVFAC - SOUTHWEST DIVISION F. ALJABI CRWQCB A. TOWNSEND	RESPONSE TO REQUESTED ADDITIONAL SAMPLING OF UST 129.8 AND 129.9	ADMIN RECORD	CLOSURE UST	UST 129.8 UST 129.9	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04031101 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 1
N60258 / 001077 FWSD-RAC-99- RPT N68711-98-D-5713 00060	07-08-1999 06-10-1999 00007 03.5	FOSTER WHEELER J. SADEGHIPOUR J. SADEGHIPOUR R. LOVERING	FINAL FACILITY-WIDE HEALTH AND SAFETY PLAN, INVESTIGATION AND REMOVAL OF UNDERGROUND STORAGE TANKS/OIL WATER SEPARATORS, VARIOUS UNDERGROUND VAULTS AND	ADMIN RECORD	AIR GW H&SP MONITORING UST	 POSSIBLE COMPLIANCE	
N60258 / 001078 FWSD-RAC-99- RPT N68711-98-D-5713 00150	07-08-1999 06-10-1999 00007 03.5	FOSTER WHEELER W.OLSON W.OLSON NAVFAC - SOUTHWEST DIVISION R. LOVERING	FINAL SITE-SPECIFIC HEALTH AND SAFETY PLAN, INVESTIGATION AND REMOVAL OF UNDERGROUND STORAGE TANKS/OIL WATER SEPARATORS, VARIOUS UNDERGROUND VAULTS AND	ADMIN RECORD	AIR H&SP MONITORING QA QC UST	 POSSIBLE POSSIBLE COMPLIANCE	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001075 FWSD-RAC-99- PLAN N68711-98-D-5713 00120	07-08-1999 06-11-1999 00007 03.3	FOSTER WHEELER W. OLSON W. OLSON NAVFAC - SOUTHWEST DIVISION R. LOVERING	INVESTIGATION AND REMOVAL OF UNDERGROUND STORAGE TANKS/OIL WATER SEPARATORS, VARIOUS UNDERGROUND VAULTS AND PIPING	ADMIN RECORD	GW H&SP OWS QAPP REMOVAL UST WMP	 POSSIBLE POSSIBLE COMPLIANCE	SOUTHWEST DIVISION - BLDG. 1

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N60258 / 001080 SWDIV SER 05BL.ED/0228 PLAN N68711-97-D-8702 00020	07-13-1999 06-17-1999 DO006 03.3	GEOFON, INC. L. WILLIAMSON NAVFAC - SOUTHWEST DIVISION	PLAN OF ACTION INSTALLATION OF FOUR MINI-WELLS AT BUILDING 150	ADMIN RECORD	DATA GW LAB MONITORING PCB SAP UST	BLDG. 150	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04031101 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000009 FWSD-RAC-99- MM N6871198-D-5173 00008	08-05-1999 06-21-1999 00007 02.7	FOSTER WHEELER N. HART N. HART NAVFAC - SOUTHWEST DIVISION R. LOVERING	PRE-CONSTRUCTION MEETING MINUTES, INVESTIGATION AND REMOVAL OF UNDERGROUND STORAGE TANKS AND VARIOUS UNDERGROUND VAULTS/PIPING JUNE 16, 1999	ADMIN RECORD	AHA BACKFILL CQC CST LEL MSDS OWS UST ZIP		BNI - 12/11/03 BNI - 12/11/03
N60258 / 000055 NONE MISC NONE 00002	08-29-2000 06-23-1999 NONE	PRESS- TELEGRAM NAVFAC - SOUTHWEST DIVISION	PROOF OF PUBLICATION REGARDING NEWSPAPER ARTICLE BY PRESS- TELEGRAM ON PUBLIC COMMENT PERIOD, PROPOSED CLEANUP PLANS AND PROPOSED NEGATIVE DECLARATION FOR SITES 1, 2, AND 14	ADMIN RECORD	EE/CA RAP	001 002 014	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04011502 IMAGED LBSY_001 SOUTHWEST DIVISION - BLDG. 12
N60258 / 001074 SWDIV SER 05BL.DR/0212 RPT N68711-89-D-9296 00044	06-29-1999 06-23-1999 NONE 03.4	NAVFAC - SOUTHWEST DIVISION F. ALJABI CRWQCB LOS ANGELES C. CHANG	ANNUAL REPORT FOR STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITIES	ADMIN RECORD	PERMIT WATER		PALLET 14 - PALLET 14 - SW04031101 IMAGED LBSY_004

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N60258 / 001079 NONE	07-13-1999 07-01-1999	NAVFAC - SOUTHWEST DIVISION	REPORT ON THE PERFORMANCE OF THE LOW-FLOW (MINIMAL DRAWDOWN) PURGING TECHNIQUE COMPARED TO THE CONVENTIONAL THREE-VOLUME METHOD	ADMIN RECORD	DATA GW	009 012	SOUTHWEST DIVISION - BLDG. 12
RPT N68711-92-D-4670	00177 03.4	F. ALJABI CRWQCB			MONITORING VOC	013	12
00008		A. TOWNSEND					PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 000092 FWSD-RAC-99-	09-06-2000 07-05-1999	FOSTER WHEELER ENV. CORP. CORP. C. JONES	DRAFT WORK PLAN, CLOSURE OF THE INDUSTRIAL WASTE TREATMENT PLANT (IWTP) INCLUDES DRAFT SAMPLING AND ANALYSIS PLAN AND DRAFT SITE-	ADMIN RECORD	IWTP METALS	BLDG. 132 BLDG. 210	SOUTHWEST DIVISION - BLDG. 1
PLAN	00009				PVC	DRY DOCK 1	
N68711-98-D-5713		NAVFAC - SOUTHWEST	SPECIFIC HEALTH AND SAFETY PLAN		RCRA	DRY DOCK 2	
00200		DIVISION			SAP	DRY DOCK 3	POSSIBLE POSSIBLE COMPLIANCE
N60258 / 001082 NONE	07-20-1999 07-14-1999	NAVFAC - SOUTHWEST DIVISION	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM, PERMIT NUMBER CA0003786	ADMIN RECORD	MONITORING NPDES	004 006	SOUTHWEST DIVISION - BLDG. 1
LTR NONE	NONE 01.6	A. LEE PORT OF LONG BEACH			PERMIT	015 016	
00005		B. KANTER					POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000113 NONE MM NONE	12-11-2000 07-21-1999 NONE	RESTORATION ADVISORY	RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES HELD ON JULY 21,	ADMIN RECORD INFO REPOSITORY	BCT BRAC EIS IR	001 002 007 014	SOUTHWEST DIVISION - BLDG. 12
00008		NAVFAC - SOUTHWEST DIVISION			MTG MINS RAB ROD		PALLET 14 - SW04012901 IMAGED LBSY_002

Tuesday, August 08, 2006

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N60258 / 000001 NONE	08-03-1999 07-26-1999	CDM FEDERAL PROGRAMS CORP.	DRAFT PRELIMINARY ASSESSMENT/SAMPLING REPORT, 171 GROUP B AREAS OF CONCERN, VOLUMES 1 THROUGH 6	ADMIN RECORD	AOC DCA DCE IRP	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12
RPT N68711-96-D-2029 03619	DO 14 03.1	NAVFAC - SOUTHWEST DIVISION			IWTP MTBE PAH PCB PCE RCRA RI SVOC TCA TCE TPH TPH-D TPH-G TPH-O TRPH UST VOC		PALLET 14 - SW04032501 IMAGED LBSY_003
N60258 / 000002 NONE LTR NONE 00005	08-03-1999 07-26-1999 NONE 03.6	DOD A. LEE DOTSC A. YUE	ENVIRONMENTAL FACT SHEET REVIEW REQUEST	ADMIN RECORD MISSING @ SWDIV	EPA GW IRA ROD WASTE	003 004 005 006A	SOUTHWEST DIVISION - BLDG. 1

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N60258 / 000008 CTO-0177/0057 RPT N68711-92-D-4670 00283	08-03-1999 07-28-1999 00177 03.4	BECHTEL NATIONAL, INC. S. DONOVAN NAVFAC - SOUTHWEST DIVISION	DRAFT FIRST QUARTER GROUNDWATER MONITORING REPORT	ADMIN RECORD	ARSENIC COPC FS FSP GW IRA METALS MONITORING MW RI SOIL BORING VOC WATER WELLS	009 012 013 BLDG. 129 BLDG. 303	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04032501 IMAGED LBSY_003
N60258 / 000012 PROJECT NO. 04- 4304.70 RPT N68711-97-D-8702 00040	08-18-1999 07-30-1999 DO006 03.4	GEOFON, INC. VARIOUS AGENCIES	GROUNDWATER MONITORING REPORT - 1ST AND 2ND QUARTERS OF 1999	ADMIN RECORD	BGS GW MONITORING PCB SOIL UST WELLS	BLDG. 150	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04011501
N60258 / 000015 SWDIV SER 05BN.DR/0549 05BN.DR/0549 MISC NONE 00007	10-06-1999 08-01-1999 NONE NONE 10.6	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI VARIOUS AGENCIES	FINAL - ENVIRONMENTAL FACT SHEET NO. 4 (INCLUDES TRANSMITTAL LETTER BY F. ALJABI)	ADMIN RECORD INFO REPOSITORY REPOSITORY	BRAC GW MONITORING RA RAB ROD	003 004 005 005A	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04011501 IMAGED LBSY_001

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N60258 / 000013 CTO-0183/0032	08-18-1999 08-06-1999	BECHTEL NATIONAL INC R. SCHILLING	FINAL - EFFLUENT CONTINGENCY PLAN FOR DRYDOCK NUMBER 1 (INCLUDES RESPONSE TO COMMENTS OF 14 JULY 1999 BY CRWQCB ON DRAFT EFFLUENT CONTINGENCY PLAN)	ADMIN RECORD	BGS GW	009	SOUTHWEST DIVISION - BLDG. 12
PLAN N68711-92-D-4670	00183 03.3	R. SCHILLING NAVFAC - SOUTHWEST DIVISION			IRP PVC		12
00127					RI SI VOC WELLS		PALLET 14 - SW04011501 IMAGED LBSY_001
N60258 / 000087 SWDIV SER 05BN.DR/0411 05BN.DR/0411 LTR NONE	09-06-2000 08-09-1999 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI VARIOUS AGENCIES	REVIEW OF NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR) FOR PERMIT #CA 0003786. THE OWNERSHIP OF THIS PERMIT WAS TRANSFERRED TO ASTORIA METALS	ADMIN RECORD	DMR MONITORING NPDES		SOUTHWEST DIVISION - BLDG. 1
00019			CORPORATION, THE NAVY HAS NO FURTHER RESPONSIBILITY FOR THIS PERMIT				POSSIBLE COMPLIANCE COMPLIANCE
N60258 / 000047 NONE LTR NONE	08-29-2000 08-13-1999 NONE	DTSC, CYPRESS A. YUE NAVFAC - SOUTHWEST DIVISION	COMMENTS ON FACT SHEET NUMBER 4 FOR SITES 3-6A	ADMIN RECORD	FS IR RAB RI		SOUTHWEST DIVISION - BLDG. 12
00004		D. ROLLEFSON			ROD		PALLET 14 - SW04012901 IMAGED LBSY_002
N60258 / 000089 FWSD-RAC-99- PLAN PLAN	09-06-2000 08-17-1999 00009 00009	FOSTER WHEELER ENV. CORP. CORP. C. JONES	FINAL WORK PLAN, CLOSURE OF THE INDUSTRIAL WASTE TREATMENT PLANT (IWTP) INCLUDES FINAL SAMPLING AND ANALYSIS PLAN (APPENDIX A) AND FINAL	ADMIN RECORD INFO REPOSITORY REPOSITORY	IWTP METALS PVC	BLDG. 132 BLDG. 210 DRY DOCK 1 DRY DOCK 1	SOUTHWEST DIVISION - BLDG. 1
N68711-98-D-5713 00200		NAVFAC - SOUTHWEST DIVISION	SITE-SPECIFIC HEALTH AND SAFETY PLAN (APPENDIX B)		RCRA SAP SHSP TOC	DRY DOCK 2 DRY DOCK 3	POSSIBLE COMPLIANCE

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N60258 / 000045 NONE	08-29-2000 08-19-1999	CDM FEDERAL PROGRAMS	DRAFT ADDENDUM SAMPLING REPORT TO SAMPLING REPORT FOR NINE GROUP B AREAS OF CONCERN (SEE AR #1039 - FINAL SAMPLING REPORT, AR #1048 - REPLACEMENT PAGE 12-3 TO AR #1039,	ADMIN RECORD	AOC GW PAH PCE	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12
RPT N68711-96-D-2029 00317	DO014	NAVFAC - SOUTHWEST DIVISION	AR #1050 - ADDITIONAL PAGE ES-5 TO AR #1039, AR #61 - FINAL ADDENDUM SAMPLING REPORT)		RI SOIL SVOC TCE TPH VOC		PALLET 14 - PALLET 14 - SW04012901 IMAGED LBSY_001
N60258 / 000017 SW7149	10-06-1999 08-27-1999	IT CORP M. MILLER	MONTHLY MONITORING REPORT, SOIL AND GROUNDWATER REMEDIATION SYSTEM, NAVAL EXCHANGE GAS STATION	ADMIN RECORD	GW MONITORING		SOUTHWEST DIVISION - BLDG. 1
RPT N68711-93-D-1459 00045	DO005 03.4	NAVFAC - SOUTHWEST DIVISION B. DEMAREE			SOIL		POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000040 SW7362	08-18-2000 09-01-1999	OHM REMEDATION SERV. CORP. SERV. CORP. M. MILLER	MONTHLY MONITORING REPORT, NPDES PERMIT NUMBER CAG834001, SOIL AND GROUNDWATER REMEDIATION SYSTEM, NAVAL EXCHANGE GAS STATION FOR	ADMIN RECORD	BTEX GW		SOUTHWEST DIVISION - BLDG. 1
RPT N68711-93-D-1459 00030	DO5	NAVFAC - SOUTHWEST DIVISION DIVISION B. DEMAREE	PERIOD OF SEPTEMBER 1, 1999 TO SEPTEMBER 30, 1999 INCLUDES TRANSMITTAL LETTER TO CRWQCB DATED NOVEMBER 1, 1999		MONITORING MTBE O&G SOIL TPH-G		POSSIBLE COMPLIANCE COMPLIANCE

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N60258 / 000014 CTO-0176/0041 AND SWDIV SER AND SWDIV SER	09-13-1999 09-07-1999 00176 00176 04.2	BECHTEL NATIONAL, INC. R. SCHILLING R. SCHILLING VARIOUS	DRAFT FEASIBILITY STUDY REPORT INCLUDING TRANSMITTAL LETTER BY T. MACCHIARELLA WITH REQUEST FOR STATE ACTION SPECIFIC APPLICABLE OR RELEVANT AND APPROPRIATE	ADMIN RECORD	AOPC ARAR BTEX CANCER	009 012 013	SOUTHWEST DIVISION - BLDG. 12 12
05BNE.TM/0545 RPT N68711-92-D-4670 00525	04.2	VARIOUS AGENCIES	REQUIREMENTS		COC COPC DCA DCE DDD DDE DDT DQO FS GW MTBE PAH PCB PCE PESTICIDES RI ROD SOIL SVE SVOC TCA TCE TPH TRPH UST VOC		PALLET 14 - SW04011501 IMAGED LBSY_001

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N60258 / 000018 CTO-0177/0064 RPT N68711-92-D-4670 00284	10-07-1999 09-15-1999 00177 03.4	BECHTEL NATIONAL INC B. KOWN B. KOWN NAVFAC - SOUTHWEST DIVISION M. ORPILLA	FINAL - FIRST QUARTER GROUNDWATER MONITORING REPORT DATED SEPTEMBER 1999	ADMIN RECORD	DATA GW MONITORING VOC WELLS	009 012 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04011501 IMAGED LBSY_001
N60258 / 000070 SWDIV SER 05BN.DR/0677 05BN.DR/0677 LTR NONE 00007	08-30-2000 09-30-1999 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION F. ALJABI DTSC, CYPRESS A. YUE	REQUEST TO CONSIDER PROPOSED CHANGE TO THE RECOMMENDATION OF FURTHER ACTION TO NO FURTHER ACTION FOR AOC MISC 8 (DRAFT PRELIMINARY ASSESSMENT SAMPLING REPORT FOR THE 171 GROUP B AREAS OF CONCERN) BASED ON GROUNDWATER SAMPLING RESULTS (W/	ADMIN RECORD	AOC BEHP GW	BLDG. 54 GROUP B	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012901 IMAGED LBSY_002
N60258 / 000033 NONE LTR NONE 00002	08-18-2000 10-06-1999 NONE	DTSC CYPRESS A. YUE NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	REVIEW OF THE DRAFT ADDENDUM SAMPLING REPORT FOR NINE GROUP B AREAS OF CONCERN (AOC), DTSC HAS NO SPECIFIC COMMENTS AND AGREES WITH THE NAVY'S RECOMMENDATION OF NO FURTHER ACTION FOR AOC SWS2	ADMIN RECORD	AOC NFA		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012901 IMAGED LBSY_002
N60258 / 000071 NONE LTR NONE 00001	08-30-2000 10-07-1999 NONE	CRWQCB - LOS ANGELES A. TOWNSEND A. TOWNSEND NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	RESPONSE TO NAVY'S LETTER DATED SEPT. 30, 1999 GIVING AUTHORIZATION TO REVISE THE FINAL PRELIMINARY ASSESSMENT REPORT TO INCLUDE NO FURTHER ACTION RECOMMENDATION PROPOSED FOR AOC MISC 8 (DRAFT PRELIMINARY ASSESSMENT SAMPLING REPORT FOR 171 GROUP B AOC)	ADMIN RECORD	AOC BEHP GW	BLDG. 54 GROUP B	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04012901 IMAGED LBSY_002

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N60258 / 000038 NONE LTR LTR NONE 00001	08-18-2000 10-14-1999 NONE NONE	CRWQCB - LOS ANGELES A. TOWNSEND A. TOWNSEND NAVFAC - SOUTHWEST DIVISION	REVIEW OF THE DRAFT ADDENDUM SAMPLING REPORT FOR NINE GROUP B AREAS OF CONCERN (AOC), CRWQCB CONCURS WITH THE NAVY'S RECOMMENDATION FOR NO FURTHER ACTION AND HAVE NO OTHER COMMENTS	ADMIN RECORD INFO REPOSITORY	AOC NFA		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012901 IMAGED LBSY_002
N60258 / 000023 SWDIV SER 6CA.ED/0723 6CA.ED/0723 RPT N68711-96-D-2111 00450	08-18-2000 10-19-1999 DO 8 DO 8	SOTA ENVIRONMETAL TECHNOLOGY TECHNOLOGY M. SAYRE NAVFAC - SOUTHWEST DIVISION DIVISION	DRAFT GROUNDWATER INVESTIGATION REPORT, FORMER HAZARDOUS WASTE STORAGE FACILITY, INCLUDES - (SWDIV TRANSMITTAL LETTER BY R. PLASEIED)	ADMIN RECORD	BRAC GW PAH PCB PCE SVOC TPH VOC	BLDG. 118	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04012901 IMAGED LBSY_001
N60258 / 000067 SWDIV SER 5BN.ED/0703 5BN.ED/0703 RPT N68711-97-D-8702 00025	08-30-2000 10-20-1999 DO007 DO007	GEOFON, INC. NAVFAC - NAVFAC - SOUTHWEST DIVISION	GROUNDWATER MONITORING REPORT, THIRD QUARTER OF 1999 INCLUDES TRANSMITTAL LETTER	ADMIN RECORD	GW MONITORING PCB VOC	BLDG. 150	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE COMPLIANCE
N60258 / 000021 FWSD-RAC-00- RPT RPT N68711-98-D-5713 00972	08-18-2000 10-26-1999 00007 00007	FOSTER WHEELER ENV. CORP. CORP. P. ZORBA NAVFAC - SOUTHWEST DIVISION	DRAFT CLOSURE REPORT, INVESTIGATION AND REMOVAL OF UNDERGROUND STORAGE TANKS/OIL WATER SEPARATORS, VARIOUS UNDERGROUND VAULTS AND PIPING	ADMIN RECORD INFO REPOSITORY REPOSITORY	OWS PCB RCRA UST		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012901 IMAGED LBSY_001

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N60258 / 000061 SWDIV SER 05BN.DR/0704 05BN.DR/0704 RPT N68711-96-D-2029 00320	08-29-2000 10-26-1999 DO014 DO014	CDM FEDERAL PROGRAMS NAVFAC - SOUTHWEST DIVISION	FINAL ADDENDUM SAMPLING REPORT TO SAMPLING REPORT FOR NINE GROUP B AREAS OF CONCERN INCLUDES SWDIV TRANSMITTAL LETTER (DISKETTE VERSION ENCLOSED) [*SEE COMMENTS]. ***COMMENTS: * (SEE AR #1039 - FINAL SAMPLING REPORT, AR #1048 - REPLACEMENT PAGE 12-3 TO AR #1039, AR #1050 - ADDITIONAL PAGE ES-5 TO AR #1039, AR #45 - DRAFT ADDENDUM SAMPLING REPORT)***	ADMIN RECORD	AOC PAH PCE RI SVOC TCE TPH VOC	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04011502 IMAGED LBSY_001
N60258 / 000025 CT0-0177/0076 RPT N68711-92-D-4670 00218	08-18-2000 11-08-1999 00177	BECHTEL NATIONAL, INC. S. DONOVAN NAVFAC - SOUTHWEST DIVISION	DRAFT SECOND QUARTER GROUNDWATER MONITORING REPORT	ADMIN RECORD INFO REPOSITORY	FS FSP GW IRP MONITORING RI VOC	009 012 013	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012901 IMAGED LBSY_001 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000039 FWSD-RAC-00- MISC MISC N68711-98-D-5713 00007	08-18-2000 11-08-1999 00007 00007	FOSTER WHEELER ENV. CORP. CORP. NAVFAC - SOUTHWEST DIVISION	RESPONSES TO COMMENTS ON DRAFT CLOSURE REPORT, INVESTIGATION AND REMOVAL OF UST/OWS AND VARIOUS UNDERGROUND STRUCTURES	ADMIN RECORD INFO REPOSITORY REPOSITORY	OWS RESPONSE UST		PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000064 NONE LTR NONE 00003	08-29-2000 11-08-1999 NONE	CRWQCB - LOS ANGELES A. TOWNSEND A. TOWNSEND NAVFAC - SOUTHWEST DIVISION	COMMENTS ON DRAFT PRELIMINARY ASSESSMENT/SAMPLING REPORT, 171 GROUP B AREAS OF CONCERN	ADMIN RECORD	AOC IR UST	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012901 IMAGED LBSY_002

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N60258 / 000066 NONE	08-30-2000 11-12-1999	USEPA, SAN FRANCISCO M. HAUSLADEN	REVIEW OF FINAL ADDENDUM SAMPLING REPORT TO THE FINAL SAMPLING REPORT FOR NINE GROUP B AREAS OF CONCERN; EPA HAS NO FURTHER COMMENTS AND CONCURS WITH THE NO	ADMIN RECORD	AOC	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE	NONE	NAVFAC - SOUTHWEST DIVISION	FURTHER ACTION RECOMMENDATION				PALLET 14 - SW04012901 IMAGED LBSY_002
00001		D, ROLLEFSON					
N60258 / 000160 FWSD-RAC-00-	08-10-2001 11-12-1999	FOSTER WHEELER P. ZORBA	FINAL CLOSURE REPORT, REV. 0 - INVESTIGATION AND REMOVAL OF UNDERGROUND STORAGE TANKS /OIL	ADMIN RECORD	AIR CHAR	BLDG. 101 BLDG. 121	SOUTHWEST DIVISION - BLDG. 1
RPT N68711-98-D-5713	00007	P. ZORBA NAVFAC - SOUTHWEST DIVISION	WATER SEPARATORS, VARIOUS UNDERGROUND VAULTS AND PIPING		CLOSURE CYANIDE	BLDG. 122 BLDG. 183	
00500					DISPOSAL	BLDG. 210	PROBLEM PROBLEM SHELVING
					DUST GW METALS MTBE OWS PCB PERMIT PRG SEDIMENTS SLUDGE SOIL SOIL BORING SVOC TANK TEPH TPH TRPH UST VOC WATER	BLDG. 54 BLDG. 73 BLDG. 882 SITE 121-2 SITE 54-2	

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N60258 / 000065 NONE LTR NONE 00004	08-29-2000 11-15-1999 NONE	DTSC, CYPRESS S. FAIR NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	COMMENTS ON DRAFT PRELIMINARY ASSESSMENT/SAMPLING REPORT, 171 GROUP B AREAS OF CONCERN	ADMIN RECORD	AOC	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012901 IMAGED LBSY_002
N60258 / 000114 NONE MM MM NONE 00007	12-11-2000 11-18-1999 NONE NONE	RESTORATION ADVISORY NAVFAC - SOUTHWEST DIVISION	RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES HELD ON 18 NOVEMBER 1999 (INCLUDES CANCELLATION NOTICE OF RESTORATION ADVISORY BOARD MEETING FOR 15 SEPTEMBER 1999)	ADMIN RECORD INFO REPOSITORY REPOSITORY	BRAC FS IR MTG MINS RAB ROD	001 002 003 003 006A 007 008 009 010 011 012 013 014 014	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000024 FWSD-RAC-00- PLAN PLAN N68711-98-D-5713 00100	08-18-2000 11-22-1999 00012 00012	FOSTER WHEELER ENV. CORP. CORP. R. MARGOTTO NAVFAC - SOUTHWEST DIVISION	DRAFT - SITE SPECIFIC HEALTH AND SAFETY PLAN (INCLUDES SITE SAFETY PLAN CHANGE APPROVAL FORM: AMENDMENT 1, DATED 25 APR. 1999 AND AMENDMENT 2 DATED 5 MAY 2000)	ADMIN RECORD INFO REPOSITORY REPOSITORY	IR PAH SHSP SOIL	014	PROBLEM PROBLEM SHELVING
N60258 / 000050 FWSD-RAC-00- PLAN N68711-98-D-5713 00150	08-29-2000 11-22-1999 00012	FOSTER WHEELER ENV. CORP CORP R. MARGOTTO NAVFAC - SOUTHWEST DIVISION	DRAFT SITE-SPECIFIC HEALTH AND SAFETY PLAN, INSTALLATION AND OPERATION OF A TREATMENT SYSTEM	ADMIN RECORD	GW IR MONITORING PAH SHSP SOIL	014	SOUTHWEST DIVISION - BLDG. 1 TO BE DELETED TO BE DELETED

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N60258 / 000027 NONE PLAN N68711-97-D-8702 00050	08-18-2000 12-01-1999 DO16	GEOFON, INC. NAVFAC - SOUTHWEST DIVISION	DRAFT CORRECTIVE ACTION PLAN (CAP), GASOLINE STATION	ADMIN RECORD	BTEX CAP DO FUEL GW MONITORING MTBE SOIL SVE SVOC TDS TPH TPH-D TPH-G TRPH UST VOC	BLDG. 101	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000091 FWSD-RAC-00- RPT RPT N68711-98-D-5713 00060	09-06-2000 12-03-1999 00009 00009	FOSTER WHEELER ENV. CORP. CORP. C. JONES NAVFAC - SOUTHWEST DIVISION	DRAFT CERTIFICATION OF CLOSURE/CLOSURE REPORT, CLOSURE OF THE INDUSTRIAL WASTE TREATMENT PLANT (IWTP)	ADMIN RECORD INFO REPOSITORY REPOSITORY	IWTP PVC RCRA RI SVOC TOC	BLDG. 132 BLDG. 205 BLDG. 210 BLDG. 210 DRY DOCK 1 DRY DOCK 2 DRY DOCK 3	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000477 NONE RPT N62474-77-C-2760 00159	10-26-1994 01-01-2000 NONE 01.1	H.W.CAMPBELL & ASSOC NAVFAC - EFA WEST	ENGINEERING INVESTIGATION FOR BUILDING 128 INTERIM REPORT	ADMIN RECORD	COST TANK		SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04021202 IMAGED LBSY_003

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N60258 / 000900 NONE	03-11-1997 01-01-2000		VIDEO-SIDE WALK REPORT SITE 11- HILLSIDE EAST OF DRY DOCK 1 (REFER# 305924)	ADMIN RECORD	DRY DOCK SHIPYARD	011	SOUTHWEST DIVISION - BLDG. 12 12
RPT NONE 00001	NONE 11.0	NAVSHPYD LONG BEACH					PALLET 14 - SW04022602 IMAGED LBSY_004 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000971 NONE MISC NONE 00074	12-29-1997 01-01-2000 NONE 01.3	LONG BEACH SHIPYARD EPA SAN FRANCISCO	RCRA FACILITY ASSESSMENT PRELIMINARY REVIEW	ADMIN RECORD	ASSESSMENT EVALUATION RCRA SWMU		POSSIBLE POSSIBLE COMPLIANCE

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N60258 / 000031 NONE	08-18-2000 01-05-2000	LB NAVAL COMPLEX	DRAFT BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP PLAN (BCP) - INCLUDES SWDIV TRANSMITTAL LETTER BY T.MACCHIARELLA WITH CONFIDENTIAL DISTRIBUTION LIST	ADMIN RECORD CONFIDENTIAL	AOC AST BCP BCT	006A 006B	SOUTHWEST DIVISION - BLDG. 12 12
PLAN NONE 00204	NONE	NAVFAC - SOUTHWEST DIVISION T.			BRAC BTEX CERCLA DCE EIR EIS FS IR IWTP MTBE OU PAH PCB RA RCRA RI RI/FS SVOC TCE TPH UST VOC		PALLET 14 - SW04012901 IMAGED LBSY_002
N60258 / 000068 SWDIV SER 06CM.DR/021 06CM.DR/021 LTR NONE 00011	08-30-2000 01-12-2000 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION T. DTSC, CYPRESS S. HAKIM	NAVY'S RESPONSE TO AGENCIES COMMENTS ON THE DRAFT PRELIMINARY ASSESSMENT/SAMPLING REPORT FOR 171 GROUP B AREAS OF CONCERN (W/ ENCLOSURE)	ADMIN RECORD	AOC IR RCRA RI UST	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012901 IMAGED LBSY_002

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N60258 / 000026 FWSO-RAC-00- RPT RPT	08-18-2000 01-14-2000 00009 00009	FOSTER WHEELER ENV. CORP. CORP. E. DIENZO	FINAL CERTIFICATION OF CLOSURE/CLOSURE REPORT, CLOSURE OF THE INDUSTRIAL WASTE TREATMENT PLANT (IWTP)	ADMIN RECORD INFO REPOSITORY REPOSITORY	IWTP PCW PVC	BLDG. 132 BLDG. 205 BLDG. 210 BLDG. 210	SOUTHWEST DIVISION - BLDG. 1
N68711-98-D-5713 00300		NAVFAC - SOUTHWEST DIVISION			RCRA RI SVOC TOC		POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000084 NONE PLAN N68711-97-D-8702 00010	08-30-2000 01-19-2000 DO37	GEOFON, INC. NAVFAC - SOUTHWEST DIVISION	FINAL PLAN OF ACTION NO. 2 FOR BUILDING 816	ADMIN RECORD	GW PAH POA SOIL TPH VOC	BLDG. 816	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE
N60258 / 000116 NONE MM MM NONE 00007	12-20-2000 01-19-2000 NONE NONE	RESTORATION ADVISORY NAVFAC - SOUTHWEST DIVISION	RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES HELD ON JANUARY 19, 2000	ADMIN RECORD INFO REPOSITORY REPOSITORY	ARAR BRAC EE/CA IR MTBE MTG MINS RAB RI SI	001 002 003 003 004 005 006 007 008 009 010 011 012 013 014	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002

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N60258 / 000041 SW8186	08-18-2000 02-01-2000	OHM REMEDATION SERV. CORP. SERV. CORP. M. MILLER	MONTHLY MONITORING REPORT, NPDES PERMIT NUMBER CAG834001, SOIL AND GROUNDWATER REMEDIATION SYSTEM, NAVAL EXCHANGE GAS STATION FOR	ADMIN RECORD	BTEX GW		SOUTHWEST DIVISION - BLDG. 1
RPT	DO5				MONITORING		
N68711-93-D-1459 00030		NAVFAC - SOUTHWEST DIVISION DIVISION	PERIOD OF FEBRUARY 1, 2000 TO FEBRUARY 29, 2000 INCLUDES TRANSMITTAL LETTER TO CRWQCB DATED APRIL 3, 2000		MTBE SOIL TPH-G		POSSIBLE COMPLIANCE COMPLIANCE
N60258 / 000081 SWDIV SER 06CM.DR/065	08-30-2000 02-01-2000 NONE NONE	B. DEMAREE NAVFAC - SOUTHWEST DIVISION DIVISION T. CRWQCB, LOS ANGELES A. TOWNSEND	REQUEST TO RESCIND THE EXISTING WASTE DISCHARGE REQUIREMENTS (WDR) ORDER NO. 96-098 FOR CLEANUP OF PETROLEUM HYDROCARBON IMPACTED SOIL	ADMIN RECORD	SOIL WDR		SOUTHWEST DIVISION - BLDG. 1
LTR NONE 00002							POSSIBLE COMPLIANCE COMPLIANCE
N60258 / 000082 NONE	08-30-2000 02-03-2000	DTSC, CYPRESS S. HAKIM	RESPONSE TO NAVY'S RESPONSE TO AGENCY'S COMMENTS ON DRAFT PRELIMINARY ASSESSMENT/SAMPLING REPORT FOR 171 GROUP B AREAS OF	ADMIN RECORD	AOC	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE 00002	NONE	NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	CONCERN				PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000042 NONE	08-18-2000 02-14-2000	CRWQCB - LOS ANGELES A. TOWNSEND A. TOWNSEND	REVIEWED NAVY'S RESPONSE TO AGENCIES COMMENTS ON THE DRAFT PRELIMINARY ASSESSMENT/SAMPLING REPORT FOR 171 GROUP B AREAS OF	ADMIN RECORD	AOC RESPONSE		SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE 00001	NONE	NAVFAC - SOUTHWEST DIVISION	COMMENTS; NAVY IS AUTHORIZED TO SUBMIT THE FINAL VERSION (* SEE COMMENTS)				PALLET 14 - PALLET 14 - SW04012901 IMAGED LBSY_002

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N60258 / 000029 CTO-0177/0086 RPT N68711-92-D-4670 00220	08-18-2000 02-17-2000 00177	BECHTEL NATIONAL, INC. S. DONOVAN NAVFAC - SOUTHWEST DIVISION	FINAL SECOND QUARTER GROUNDWATER MONITORING REPORT	ADMIN RECORD	FS FSP GW IRP MONITORING RI VOC	009 012 013	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012901 IMAGED LBSY_001
N60258 / 000032 NONE PLAN NONE 00200	08-18-2000 02-25-2000 NONE	LB NAVAL COMPLEX NAVFAC - SOUTHWEST DIVISION T.	FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP PLAN (BCP)	ADMIN RECORD	AST BCP BCT BRAC BTEX CERCLA DCE EA FS IR IWTP MTBE OU PAH PCE RA RFI RI SI TPH UST VOC	006A 006B	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012901 IMAGED LBSY_002

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N60258 / 000118 NONE MM MM NONE 00005	12-20-2000 03-29-2000 NONE NONE	RESTORATION ADVISORY NAVFAC - SOUTHWEST DIVISION	RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES HELD ON MARCH 29, 2000	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC FFSRA MTG MINS PAH RAB RCRA ROD	001 002 007 007 009 012 013 014	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000022 CTO-0177/0095 RPT RPT N68711-92-D-4670 00284	08-18-2000 04-13-2000 00177 00177	BECHTEL NATIONAL, INC. S. DONOVAN S. DONOVAN NAVFAC - SOUTHWEST DIVISION	DRAFT THIRD QUARTER GROUNDWATER MONITORING REPORT - INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA	ADMIN RECORD INFO REPOSITORY REPOSITORY	FS GW IRP MONITORING RI VOC	009 012 013 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012901 IMAGED LBSY_001

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N60258 / 000052 NONE	08-29-2000 04-14-2000	CDM FEDERAL PROGRAMS	FINAL PRELIMINARY ASSESSMENT/SAMPLING REPORT, 171 GROUP B AREAS OF CONCERN, VOLUME 1 THROUGH 6 INCLUDES TRANSMITTAL LETTER (ELECTRONIC VERSION	ADMIN RECORD	AOC AST DCA DCE	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12
RPT N68711-96-D-2029 03400	DO014	NAVFAC - SOUTHWEST DIVISION	ENCLOSED). ***COMMENTS: CD-ROM NOT IN PDF FORMAT***		FSP IRA IWTP METALS MTBE PAH PCB PCE PVC RI SVOC TCA TCE TPH TPH-D TPH-G TPH-O TRPH UST VOC		PALLET 14 - PALLET 14 - SW04011501 AND SW04011502
N60258 / 000072 NONE RPT RPT N68711-97-D-8702 00030	08-30-2000 04-19-2000 DO006 DO006	GEOFON, INC. NAVFAC - NAVFAC - SOUTHWEST DIVISION	GROUNDWATER MONITORING REPORT, 1ST QUARTER OF 2000 INCLUDES TRANSMITTAL LETTER	ADMIN RECORD INFO REPOSITORY REPOSITORY	GW MONITORING PCB UST	BLDG. 150	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE

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N60258 / 000150 NONE	07-11-2001 05-01-2000	DTSC - CYPRESS S. HAKIM	TRANSMITTAL OF COMMENTS ON THE DRAFT FEASIBILITY STUDY REPORT (W/O ENCLOSURE-FOR COMMENTS SEE AR #94 - RESPONSE TO COMMENTS)	ADMIN RECORD	COMMENTS FS	009 012 013	SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING
XMTL NONE 00002	NONE	NAVFAC - SOUTHWEST DIVISION T.					
N60258 / 000075 NONE	08-30-2000 05-08-2000	CRWQCB - LOS ANGELES A. TOWNSEND A. TOWNSEND NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	REVIEW OF FINAL PRELIMINARY ASSESSMENT/SAMPLING REPORT, 171 GROUP B AREAS OF CONCERN AND CONCUR WITH THE CONCLUSIONS PRESENTED IN THE DOCUMENT AND AUTHORIZED TO IMPLEMENT THE RECOMMENDATIONS AS PROPOSED IN THE REPORT (* SEE COMMENT)	ADMIN RECORD	AOC	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12
LTR NONE 00001	NONE						
N60258 / 000086 FWSD-RAC-00-	08-30-2000 05-12-2000	FOSTER WHEELER ENV. CORP. CORP. M. TOY DTSC, CYPRESS S. HAKIN	RESPONSE TO COMMENTS ON DRAFT WORK PLAN FOR SIX-PHASE HEATING PILOT TEST, NON-TIME-CRITICAL REMOVAL ACTION (NTCRA)	ADMIN RECORD	GW IR MONITORING NTCRA PCE SITE SOIL TCE VOC	014	PALLET 14 - SW04012901 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12 12
MISC N68711-98-D-5713 00031	00012						
N60258 / 000078 NONE	08-30-2000 05-13-2000	USEPA, SAN FRANCISCO M. HAUSLADEN M. HAUSLADEN NAVFAC - SOUTHWEST DIVISION D. ROLLEFSON	REVIEW OF FINAL 171 AREAS OF CONCERN DOCUMENT (FINAL PRELIMINARY ASSESSMENT/SAMPLING REPORT, 171 GROUP B AREAS OF CONCERN) AND CONCUR WITH THE	ADMIN RECORD	AOC	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012901 IMAGED LBSY_002
LTR NONE 00001	NONE						

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N60258 / 000080 NONE	08-30-2000 05-31-2000	DTSC, CYPRESS S. HAKIM	REVIEW OF FINAL PRELIMINARY ASSESSMENT/SAMPLING REPORT FOR 171 GROUP B AREAS OF CONCERN AND ACCEPTS NAVY'S RESPONSES AND	ADMIN RECORD	AOC	GROUP B	SOUTHWEST DIVISION - BLDG. 12 12
LTR	NONE	NAVFAC - SOUTHWEST DIVISION	CONCUR WITH THIS DOCUMENT				
NONE 00002		T.					PALLET 14 - SW04012901 IMAGED LBSY_002
N60258 / 000034 CTO-0177/0110	08-18-2000 06-01-2000	BECHTEL NATIONAL, INC. S. DONOVAN S. DONOVAN	TECHNICAL MEMORANDUM FOR CONTINUED GROUNDWATER MONITORING ACTIVITIES DATED MAY 2000 INCLUDES TRANSMITTAL LETTER	ADMIN RECORD	GW IRP	009 012	SOUTHWEST DIVISION - BLDG. 12 12
MEMO N68711-92-D-4670 00006	00177	NAVFAC - SOUTHWEST DIVISION			MONITORING WORK PLAN	013	PALLET 14 - SW04012901 IMAGED LBSY_002
N60258 / 000074 SWDIV SER 06CA.ED/0430 06CA.ED/0430 LTR NONE 00004	08-30-2000 06-06-2000 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION T. CRWQCB, LOS ANGELES A. TOWNSEND	REVIEW OF 52 GROUNDWATER MONITORING WELLS DESTRUCTION SCHEDULE OF UPCOMING DEMOLITION AND GRADING ACTIVITIES BY THE PORT OF LONG BEACH (W/OUT ENCLOSURE) (SEE AR #1059 - FIGURE 2-1)	ADMIN RECORD	GW MONITORING	009 012 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04012901 IMAGED LBSY_002

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N60258 / 000119 NONE MM NONE 00005	12-20-2000 06-07-2000 NONE	RESTORATION ADVISORY NAVFAC - SOUTHWEST DIVISION	RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES HELD ON JUNE 7, 2000	ADMIN RECORD INFO REPOSITORY	AOC ARAR FFSRA FS IR MTG MINS RAB ROD	001 002 003 004 005 006A 008 009 010 011 012 013 014	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000060 CTO-0177/0114 RPT RPT N68711-92-D-4670 00300	08-29-2000 06-09-2000 00177 00177	BECHTEL NATIONAL, INC. S. DONOVAN S. DONOVAN NAVFAC - SOUTHWEST DIVISION	DRAFT ANNUAL GROUNDWATER MONITORING REPORT DATED JUNE 2000 INCLUDES TRANSMITTAL LETTER	ADMIN RECORD INFO REPOSITORY REPOSITORY	DCA DCE FS GW IRP MONITORING PCE RI SITE TCE VOC	009 012 013 013	SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING
N60258 / 000062 CTO-0177/0123 RPT RPT N68711-92-D-4670 00277	08-29-2000 07-31-2000 00177 00177	BECHTEL NATIONAL, INC. S. DONOVAN S. DONOVAN NAVFAC - SOUTHWEST DIVISION	FINAL THIRD QUARTER GROUNDWATER MONITORING REPORT DATED JULY 2000 INCLUDES TRANSMITTAL LETTER	ADMIN RECORD INFO REPOSITORY REPOSITORY	DCA GW IRP MONITORING RI VOC	009 012 013 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04011502 IMAGED LBSY_001

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N60258 / 000095 CTO-0177/0133	09-28-2000 08-14-2000	BECHTEL NATIONAL, INC.	COMPILED RESPONSE TO COMMENTS ON THE DRAFT ANNUAL GROUNDWATER MONITORING REPORT	ADMIN RECORD	COMMENTS DCE	009 012	SOUTHWEST DIVISION - BLDG. 12
MISC N68711-92-D-4670 00006	00177	NAVFAC - SOUTHWEST DIVISION			GW MONITORING MW RI VOC WELLS	013	12 PALLET 14 - SW04011502 IMAGED LBSY_001
N60258 / 000120 NONE MM MM NONE 00005	12-20-2000 08-30-2000 NONE NONE	RESTORATION ADVISORY NAVFAC - SOUTHWEST DIVISION	RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES HELD ON AUGUST 30, 2000	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC BRAC FFSRA MTBE MTG MINS RAB RCRA ROD	001 002 003 003 004 005 006A 007 008 009 010 011 012 013 014	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000094 SWDIV SER 06CA.AT/0755 06CA.AT/0755 LTR NONE 00050	09-20-2000 09-18-2000 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION T. DTSC, CYPRESS S. HAKIM	NAVY'S RESPONSE TO AGENCIES' COMMENTS ON THE DRAFT FEASIBILITY STUDY REPORT INCLUDES TRANSMITTAL LETTER	ADMIN RECORD	COMMENTS FS IRP RESPONSE	009 012 013	SOUTHWEST DIVISION - BLDG. 1 PROBLEM SHELVING

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N60258 / 000128 NONE	04-12-2001 11-01-2000	DTSC - CYPRESS S. HAKIM	DTSC RESPONSE TO NAVY RESPONSE TO COMMENTS ON THE DRAFT FEASIBILITY STUDY	ADMIN RECORD	COMMENTS FS	009 012	SOUTHWEST DIVISION - BLDG. 12
LTR NONE	NONE	NAVFAC - SOUTHWEST DIVISION			GW REMEDIAL ACTION	013	12
00002		T. TACTAY			RESPONSE SOIL		PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000096 CTO-0177/0137 RPT RPT N68711-92-D-4670	11-27-2000 11-02-2000 00177 00177	BECHTEL NATIONAL, INC. S. DONOVAN S. DONOVAN NAVFAC - SOUTHWEST DIVISION	DRAFT WORK PLAN ADDENDUM NO. 3, AREA OF CONCERN NUMBER 10 (PROCESS TANK)	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC FSP GW IRP SOIL SVOC	AOC 10 BLDG. 128	SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING
N60258 / 000121 SWDIV SER 06CA.TM/0960 06CA.TM/0960 LTR	12-20-2000 11-20-2000 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION T. MACCCHIARELLA	LETTER TO FORMALLY NOTIFY THE BRAC CLEANUP TEAM (BCT) THAT THE NAVY IS IMPLEMENTING THE CONTINGENCY PLAN OF THE SITE 14 ACTION MEMORANDUM	ADMIN RECORD INFO REPOSITORY REPOSITORY	ACTMEMO BCT BRAC RAB	014	SOUTHWEST DIVISION - BLDG. 12 12
NONE 00002		DTSC, CYPRESS S. HAKIM					PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000097 CTO-0177/0143-1	11-29-2000 12-05-2000	BECHTEL NATIONAL, INC. T. HEIRONIMUS T. HEIRONIMUS NAVFAC - SOUTHWEST DIVISION	REVISED ANALYTICAL RESULTS FROM IR SITE 3, GROUNDWATER SAMPLING RESULTS FROM AUGUST 2000 AT GROUNDWATER MONITORING WELL MW- 3-05 (PREVIOUS LETTER REPORT WAS DATED NOVEMBER 27, 2000)	ADMIN RECORD	GW IR MW	003 MW-3-05	SOUTHWEST DIVISION - BLDG. 12 12
LTR N68711-92-D-4670	00177	R. SELBY					PALLET 14 - SW04011502 IMAGED LBSY_001
00005							

Tuesday, August 08, 2006

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

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N60258 / 000122 CTO-0177/0152 PLAN PLAN N68711-92-D-4670 00040	01-08-2001 12-12-2000 00177 00177	BECHTEL NATIONAL, INC. S. DONOVAN S. DONOVAN NAVFAC - SOUTHWEST DIVISION	FINAL WORK PLAN ADDENDUM NO. 3, AREA OF CONCERN NUMBER 10 (PROCESS TANK), BUILDING 128 DATED DECEMBER 2000	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC FSP PCB SVOC WORK PLAN	AOC 10 BLDG. 128 BNI - 12/11/03	SOUTHWEST DIVISION - BLDG. 12 12
N60258 / 000130 SWDIV SER 06CA.JV/0344 06CA.JV/0344 RPT NONE 00050	04-12-2001 02-28-2001 NONE NONE	URS NAVFAC - NAVFAC - SOUTHWEST DIVISION	CHRONOLOGY OF EVENTS AND SAMPLING RESULTS, CHROMIUM CONTAMINATED SOIL AND GROUNDWATER, FORMER PLATING SHOP, BUILDING 210 DEMOLITION (INCLUDES SWDIV TRANSMITTAL LETTER	ADMIN RECORD INFO REPOSITORY REPOSITORY	ARSENIC CHROMIUM CYANIDE GW METALS SOIL WATER	016 AOC PT 1 BLDG. 129 BLDG. 129 BLDG. 210	SOUTHWEST DIVISION - BLDG. 1 PROBLEM SHELVING
N60258 / 000124 CTO-0177/0162 RPT RPT N68711-92-D-4670 00150	03-14-2001 03-02-2001 00177 00177	BECHTEL NATIONAL, INC. S. DONOVAN S. DONOVAN NAVFAC - SOUTHWEST DIVISION	DRAFT AUGUST 2000 GROUNDWATER MONITORING REPORT AT THE GROUND FLOOR SPILLS, PARKING LOT X TOXIC SANDBLAST DISPOSAL, AND THE TANK FARM	ADMIN RECORD INFO REPOSITORY REPOSITORY	ARSENIC COPC DATA DISPOSAL FS GW METALS MONITORING MW RI TANK VOC WATER WELLS	009 012 013 013 BLDG. 129 BLDG. 303	SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING

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N60258 / 000127 CTO-0177/0169 AND SWDIV SER AND SWDIV SER	03-20-2001 03-26-2001 00177 00177	BECHTEL NATIONAL, INC. NAVFAC - NAVFAC - SOUTHWEST DIVISION	ANALYTICAL RESULTS FROM JANUARY 2001 SAMPLING AT AREA OF CONCERN 10 (BLDG. 128) [INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA]	ADMIN RECORD INFO REPOSITORY REPOSITORY	GW QC SOIL SOIL BORING	AOC 10 BLDG. 128	SOUTHWEST DIVISION - BLDG. 12 12
06CA.ED/0335 MISC N68711-92-D-4670 00006					TANK WATER		PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000131 NONE	04-12-2001 03-30-2001	CDM FEDERAL PROGRAMS	DRAFT FINAL SITE MANAGEMENT PLAN FOR LONG BEACH NAVAL COMPLEX (INCLUDES DTSC COMMENTS ON DRAFT SITE MANAGEMENT PLAN)	ADMIN RECORD	AOC AOPC	001 002	SOUTHWEST DIVISION - BLDG. 12
PLAN N68711-00-M-0109 00103	NONE	NAVFAC - SOUTHWEST DIVISION			BCP EE/CA	003 004	12
					FFSRA FS GW MTBE NFA PA PCB REMEDIAL ACTION RI ROD SI SMP SOIL TPH UST	005 006A 007 008 009 010 011 012 013 014 BLDG. 816	PALLET 14 - SW04011502 IMAGED LBSY_001

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N60258 / 000132 CTO-0176/0116 MISC	04-25-2001 04-12-2001 00176	BECHTEL NATIONAL, INC. R. SCHILLING & D. PEELER	RESPONSE TO DTSC COMMENTS ON THE DRAFT FEASIBILITY STUDY REPORT	ADMIN RECORD INFO REPOSITORY	COC COMMENTS COPC	009 012 013	SOUTHWEST DIVISION - BLDG. 12
N68711-92-D-4670 00004		NAVFAC - SOUTHWEST DIVISION			FS GW RESPONSE RISK SOIL VOC		PALLET 14 - SW04011502 IMAGED LBSY_001
N60258 / 000144 NONE MISC MISC NONE	06-20-2001 04-12-2001 NONE NONE	CDM FEDERAL PROGRAMS NAVFAC - SOUTHWEST DIVISION	RESPONSE TO AGENCY COMMENTS ON THE DRAFT FINAL SITE MANAGEMENT PLAN FOR LONG BEACH NAVAL COMPLEX	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC COMMENTS DRUMS GW	001 002 003 003 004	SOUTHWEST DIVISION - BLDG. 12 12
00003					MONITORING REMEDIAL ACTION REMOVAL RESPONSE ROD SMP SOIL SVE	005 006A 007 008 009 010 011 012 013 014 BLDG. 101	PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000137 CTO-0177/0173 AND SWDIV SER AND SWDIV SER 06CA.ED/0516	05-17-2001 05-02-2001 00177 00177	BECHTEL NATIONAL, INC. S. DONOVAN S. DONOVAN NAVFAC - NAVFAC - SOUTHWEST DIVISION	FINAL AUGUST 2000 GROUNDWATER MONITORING REPORT (INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA)	ADMIN RECORD INFO REPOSITORY REPOSITORY	ARSENIC COPC FS GW	009 012 013 013	SOUTHWEST DIVISION - BLDG. 1
RPT N68711-92-D-4670 00250					MONITORING MW RI VOC WATER WELLS	BLDG. 129 BLDG. 303	PROBLEM SHELVING

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N60258 / 000133 CTO-0177/0176 MISC MISC N68711-92-D-4670	05-15-2001 05-09-2001 00177 00177	BECHTEL NATIONAL, INC. NAVFAC - SOUTHWEST DIVISION	RESPONSE TO DTSC COMMENTS ON THE DRAFT AUGUST 2000 GROUNDWATER MONITORING REPORT AT THE GROUND FLOOR SPILLS, PARKING LOT X TOXIC SANDBLAST DISPOSAL, AND THE TANK	ADMIN RECORD INFO REPOSITORY REPOSITORY	COMMENTS GW MONITORING MW	009 012 013 013	SOUTHWEST DIVISION - BLDG. 12 12
00004			FARM		RESPONSE VOC WATER WELLS		PALLET 14 - SW04011502 IMAGED LBSY_001
N60258 / 000135 CTO-0177/0177 MISC MISC N68711-92-D-4670	05-15-2001 05-09-2001 00177 00177	BECHTEL NATIONAL, INC. NAVFAC - SOUTHWEST DIVISION	COMPILED RESPONSE TO COMMENTS ON THE DRAFT ANNUAL GROUNDWATER MONITORING REPORT	ADMIN RECORD INFO REPOSITORY REPOSITORY	COMMENTS GW MONITORING MW	009 012 013 013	SOUTHWEST DIVISION - BLDG. 12 12
00006					RESPONSE WELLS		PALLET 14 - SW04011502 IMAGED LBSY_001
N60258 / 000138 CTO-0177/0174 AND SWDIV SER AND SWDIV SER CA.ED/0515	05-17-2001 05-10-2001 00177 00177	BECHTEL NATIONAL, INC. S. DONOVAN S. DONOVAN NAVFAC - NAVFAC - SOUTHWEST DIVISION	FINAL ANNUAL GROUNDWATER MONITORING REPORT (INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA)	ADMIN RECORD INFO REPOSITORY REPOSITORY	ARSENIC COPC DCA	009 012 013 013	SOUTHWEST DIVISION - BLDG. 1
RPT N68711-92-D-4670 00250					DCE FS GW METALS MONITORING MW PCE RD RI TCA TCE VOC WATER	BLDG. 129 BLDG. 303	PROBLEM SHELVING

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N60258 / 000143 SWDIV SER 06CA.JV/0522 06CA.JV/0522 LTR NONE 00005	06-04-2001 05-18-2001 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION T. DTSC - CYPRESS S. HAKIM	REQUEST TO REVISE THE SOUTHERNMOST BOUNDARY OF SITE 9 - GROUNDWATER AREA OF POTENTIAL CONCERN (GWAOPC) 2	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC GW MW SOIL SOIL BORING VOC WELLS	009 012 013 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000146 FWSD-RAC-01- MISC MISC N68711-98-D-5713 00031	06-20-2001 06-08-2001 00012 00012	FOSTER WHEELER C. O'ROURKE C. O'ROURKE DTSC - CYPRESS N. PAUTASSI	RESPONSE TO REQUEST FOR INFORMATION CONCERNING WASTE SOIL DISPOSAL FROM THE PROJECT AT SITE	ADMIN RECORD INFO REPOSITORY REPOSITORY	DISPOSAL HAZ WASTE LF RCRA SOIL	014	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000151 NONE LTR LTR NONE 00002	07-11-2001 06-14-2001 NONE NONE NONE	CRWQCB - LOS ANGELES A. TOWNSEND A. TOWNSEND NAVFAC - SOUTHWEST DIVISION J. VALENZIA	RESPONSE TO REQUEST TO REVISE THE SOUTHERNMOST BOUNDARY OF SITE 9 - GROUNDWATER AREA OF POTENTIAL CONCERN (GWAOPC) 2 - WATER BOARD HAS NO OBJECTIONS WITH THE CONDITION THAT TWO MONITORING WELLS BE RE-INSTALLED, IF WARRANTED (SEE AR #143 - ORIGINAL LETTER)	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC AOPC GW MW VOC WELLS	009	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000152 NONE LTR LTR NONE 00002	07-11-2001 06-14-2001 NONE NONE	DTSC - CYPRESS S. HAKIM NAVFAC - NAVFAC - SOUTHWEST DIVISION T.	RESPONSE TO REQUEST TO REVISE THE SOUTHERNMOST BOUNDARY OF SITE 9 - GROUNDWATER AREA OF POTENTIAL CONCERN (GWAOPC) 2 - DTSC AGREES WITH PROPOSED BOUNDARY CHANGE (SEE AR #143 - ORIGINAL LETTER)	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC AOPC GW VOC	009	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002

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N60258 / 000153 NONE LTR LTR NONE	07-11-2001 06-18-2001 NONE NONE	DTSC - CYPRESS S. HAKIM NAVFAC - NAVFAC - SOUTHWEST DIVISION	COMMENTS ON THE FINAL SITE MANAGEMENT PLAN FOR LONG BEACH NAVAL COMPLEX	ADMIN RECORD INFO REPOSITORY REPOSITORY	COMMENTS DRUMS GW NFA	001 002 009 009 012	SOUTHWEST DIVISION - BLDG. 12 12
00003		J. VALENZIA			REMEDIAL ACTION	013	PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000154 NONE LTR LTR NONE	07-11-2001 06-20-2001 NONE NONE	CRWQCB - LOS ANGELES A. TOWNSEND A. TOWNSEND NAVFAC - SOUTHWEST DIVISION J. VALENZIA	COMMENTS ON THE DRAFT SITE MANAGEMENT PLAN WERE ADEQUATELY ADDRESSED AND NAVY IS AUTHORIZED TO IMPLEMENT THE FINAL SITE MANAGEMENT PLAN FOR LONG BEACH	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC COMMENTS SMP	001 002 009 009 012	SOUTHWEST DIVISION - BLDG. 12 12
00001						013	PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000155 NONE LTR LTR NONE	07-11-2001 06-22-2001 NONE NONE	DTSC - CYPRESS S. HAKIM NAVFAC - NAVFAC - SOUTHWEST DIVISION	ADDITIONAL COMMENTS ON THE FINAL SITE MANAGEMENT PLAN FOR LONG BEACH NAVAL COMPLEX	ADMIN RECORD INFO REPOSITORY REPOSITORY	COMMENTS FFSRA SMP	001 002 009 009 012	SOUTHWEST DIVISION - BLDG. 12 12
00002		J. VALENZIA				013	PALLET 14 - SW04012902 IMAGED LBSY_002

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N60258 / 000158 CTO-0177/0185	08-06-2001 07-25-2001	BECHTEL NATIONAL, INC.	RESTORATION ADVISORY BOARD MEETING AGENDA WITH DRAFT MINUTES FROM 23 MAY 2001 MEETING & FINAL MINUTES FROM 7 FEBRUARY 2001 MEETING (INCLUDES MAILING LIST PARTS	ADMIN RECORD CONFIDENTIAL	DISPOSAL DRUMS	001 002	SOUTHWEST DIVISION - BLDG. 12
MISC N68711-92-D-4670	00177	NAVFAC - SOUTHWEST DIVISION	OF WHICH SHOULD BE CONSIDERED CONFIDENTIAL)		FOST FS GW MONITORING MTG MINS MW PIM RAB REMOVAL ROD SOIL SOLVENTS TECH MEMO WORK PLAN	003 004 005 006A 007 008 009 010 011 012 013 014 016 BLDG. 101 BLDG. 210	12
00014							

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N60258 / 000147 NONE PLAN PLAN N68711-00-M-0109 00150	06-20-2001 08-28-2001 NONE NONE	CDM FEDERAL PROGRAMS NAVFAC - SOUTHWEST DIVISION	FINAL SITE MANAGEMENT PLAN FOR LONG BEACH NAVAL COMPLEX {INCLUDES REVISION PAGES DATED, 8/01 - REV. 2}	ADMIN RECORD INFO REPOSITORY REPOSITORY	AIR AOC AOPC BCP BCT BRAC CYANIDE EE/CA FFSRA FS GW MONITORING MTBE MW NFA ORDNANCE PA PCB PESTICIDES REMEDIAL ACTION RI ROD SI SMP SOIL SVOC TPH UST VOC WELLS	001 002 003 003 004 005 006A 007 008 009 010 011 012 013 014 016 BLDG. 101 BLDG. 129 BLDG. 816	SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING

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N60258 / 000148 FWSD-RAC-01- 0777 AND SWDIV 0777 AND SWDIV SER 06CM.ED/1043	09-19-2001 09-07-2001 00012 00012	FOSTER WHEELER A. ELOSKOF A. ELOSKOF NAVFAC - NAVFAC - SOUTHWEST DIVISION	DRAFT SOIL EXCAVATION AND DISPOSAL REPORT - NON-TIME-CRITICAL REMOVAL ACTION, VOLUMES I & II (INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA)	ADMIN RECORD INFO REPOSITORY REPOSITORY	ARAR ASBESTOS CLOSURE COC DCE GW NCP NTCRA PAH PCB PCE RCRA REMOVAL SOIL SOLVENTS SVE TCE TRPH TSDf VOC	014 BLDG. 46	SOUTHWEST DIVISION - BLDG. 1 PROBLEM SHELVING
RPT N68711-98-D-5713 00500							

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N60258 / 000169 NONE	10-25-2001 09-24-2001	BATTELLE A. CHEN	FINAL RADIATION DATA SUMMARY REPORT (INCLUDES TRANSMITTAL LETTER TO REGULATORS)	ADMIN RECORD	WATER DATA DISPOSAL	001 002	SOUTHWEST DIVISION - BLDG. 1
RPT N47408-95-D-0730 00300	DO 32	NAVFAC - SOUTHWEST DIVISION			DRUMS GW RADIATION SOIL SVE		PROBLEM PROBLEM SHELVING

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N60258 / 000159 CTO- 0176/0118/0118-1 & 0176/0118/0118-1 &	08-08-2001 10-04-2001 00176 00176	BECHTEL NATIONAL, INC. R. SCHILLING R. SCHILLING NAVFAC - NAVFAC - SOUTHWEST DIVISION	FINAL FEASIBILITY STUDY REPORT (INCLUDES RESPONSES TO REGULATOR COMMENTS [COMMENTS BY CRWQCB, DTSC, & US EPA] AND SWDIV TRANSMITTAL LETTER FROM T.	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC AOPC ARAR BRAC	009 012 013 013 AOC 1	SOUTHWEST DIVISION - BLDG. 12 12
CTO-0039/0018 RPT N68711-92-D-4670 00400			MACCHIARELLA {SWDIV SER 06CM.JV\1011}). ***COMMENTS: THIS REPORT "FINALIZED" AS OF 4 OCTOBER 2001, FROM DRAFT FINAL DATED AUGUST 2001: INCLUDES REPLACEMENT COVER, AND PAGES; ALSO INCLUDES ADDITIONAL REPLACEMENT PAGES, DATED 25 SEPTEMBER 02: FOREWARD, TOC, EXECUTIVE SUMMARY PAGES ES-7 & 8, PAGES 5-55/56, 5-63/64, 5-75/76, 5-93/94, 5- 97/98, & 5-103/104, AND NEW APPENDIX G - FINAL TECH MEMO FOR AOC 1***		BTEX COC COPC DCA DCE DDD DDE DDT DQO EE/CA FS GW MEK METALS MTBE NCP NFA PAH PCB PCE POTW PRG QA QC RCRA ROD SI SOIL SOLVENTS SVE SVOC	BLDG. 128 BLDG. 129 BLDG. 454 BLDG. 457	PALLET 14 - SW04031101

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					TCA TCE TPH TRPH TSDF UST VOC		
N60258 / 000171 SWDIV SER	10-31-2001	NAVFAC -	SITE MANAGEMENT PLAN - QUARTERLY	ADMIN RECORD	AOC	001	SOUTHWEST
06CM.JV\1076	10-10-2001	SOUTHWEST	PROGRESS REPORT FOR JUNE 16, 2001	INFO	BCT	002	DIVISION - BLDG. 1
06CM.JV\1076	NONE	DIVISION	THROUGH SEPTEMBER 15, 2001 AT THE	REPOSITORY		003	
PLAN	NONE		NAVAL COMPLEX (WITH NAVY		BRAC	003	
NONE		DTSC - CYPRESS	TRANSMITTAL LETTER)		FFSRA	004	
00037					GW	005	POSSIBLE COMPLIANCE
					MONITORING	006A	
					SMP	007	
					SOIL	008	
					SVE	009	
					TPH	010	
					WORK PLAN	011	
						012	
						013	
						014	
						016	
						BLDG. 101	
						BLDG. 129	
						BLDG. 314	
N60258 / 000172	10-31-2001	BECHTEL	PUBLIC NOTICE FOR RESTORATION	ADMIN RECORD	IRP		SOUTHWEST
CTO-0177/0203	10-17-2001	NATIONAL, INC.	ADVISORY BOARD MEETING OF 24	INFO	PUBNOT		DIVISION - BLDG. 1
MISC	00177		OCTOBER, 2001	REPOSITORY			
MISC	00177			REPOSITORY	RAB		
N68711-92-D-4670		NAVFAC -					PROBLEM
		SOUTHWEST					PROBLEM
00002		DIVISION					SHELVING

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N60258 / 000162 CTO-0177/0201	10-25-2001 10-24-2001	BECHTEL NATIONAL, INC.	NAVAL COMPLEX RESTORATION ADVISORY BOARD MEETING AGENDA MAILER WHICH INCLUDES DRAFT MINUTES FROM 7/25/01 MEETING AND FINAL MINUTES FROM 5/23/01 MEETING	ADMIN RECORD CONFIDENTIAL	FOST FS	001 002	SOUTHWEST DIVISION - BLDG. 12
MM N68711-92-D-4670	00177	NAVFAC - SOUTHWEST DIVISION	(ALSO CONTAINS MAILING LIST PARTS OF WHICH SHOULD BE CONSIDERED		GW MTG MINS	003 004	12
00017					MW	005	PALLET 14 - PALLET 14 - SW04021201
					ORDNANCE	006A	IMAGED
					RAB	007	LBSY_002
					ROD	008	
					SMP	009	
					SOIL	010	
					SVE	011	
						012	
						013	
						014	
						016	
						BLDG. 210	
N60258 / 000167 CTO-0177/0202	10-25-2001 10-25-2001	BECHTEL NATIONAL, INC.	BASE REALIGNMENT AND CLOSURE TEAM MEETING AGENDA WITH DRAFT MINUTES FROM 7/26/01 MEETING	ADMIN RECORD	BCT BRAC	001 002	SOUTHWEST DIVISION - BLDG. 12
MM N68711-92-D-4670	00177	NAVFAC - SOUTHWEST DIVISION			FOST FS	003 004	12
00010					GW	005	PALLET 14 -
					MTBE	006A	SW04021201
					MTG MINS	006B	IMAGED
					MW	007	LBSY_002
					REMEDIAL ACTION	008	
					SMP	009	
					SOIL	010	
						011	
						012	
						013	
						014	
						BLDG. 101	
						BLDG. 816	

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N60258 / 000178 SWDIV SER 06CA.JV/1218 06CA.JV/1218 XMTL NONE 00018	12-17-2001 11-19-2001 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION T. DTSC - CYPRESS S. HAKIM	TRANSMITTAL OF THE DRAFT FINAL PROPOSED PLAN/DRAFT REMEDIAL ACTION PLAN FOR THE TRICHLOROETHYLENE DISPOSAL SITE, LOT H, PAST OPERATIONS & THE HILLSIDE EAST OF DRY DOCK NO. 1	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOPC ARAR ARSENIC BACKGROUND COPC GW MONITORING NFA PROPOSED PLAN REMEDIAL ACTION SOIL TCE	008 010 011 011 BLDG. 210	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000179 SWDIV SER 06CA.JV/1218 06CA.JV/1218 XMTL NONE 00008	12-17-2001 11-19-2001 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION T. DTSC - CYPRESS S. HAKIM	TRANSMITTAL OF RESPONSE TO COMMENTS ON THE DRAFT PROPOSED PLAN / DRAFT REMEDIAL ACTION PLAN FOR THE TRICHLOROETHYLENE DISPOSAL SITE, LOT H, PAST OPERATIONS, & THE HILLSIDE EAST OF	ADMIN RECORD INFO REPOSITORY REPOSITORY	ARSENIC COMMENTS GW METALS PROPOSED PLAN RAB RESPONSE SOIL TCE	008 010 011 011	SOUTHWEST DIVISION - BLDG. 1 TO BE DELETED

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N60258 / 000180 CTO-0177/0207 MISC MISC N68711-92-D-4670	12-17-2001 11-20-2001 00177 00177	BECHTEL NATIONAL, INC. C. RAYKOWSKI C. RAYKOWSKI VARIOUS AGENCIES	TRANSMITTAL OF THE AGENDA FOR THE NOVEMBER 28, 2001 RESTORATION ADVISORY BOARD MEETING AND DRAFT MINUTES FROM 25 OCTOBER 2001 FOR REVIEW AND APPROVAL	ADMIN RECORD INFO REPOSITORY REPOSITORY	ARAR CEQA EBS FS	001 002 007 007 008	SOUTHWEST DIVISION - BLDG. 1
00011		REGULATORS AND NAVY PERSONNEL			MTBE MTG MINS ORDNANCE PIM PUBNOT RAB REMEDIAL ACTION ROD SMP TCE TECH MEMO TSDF UXO	009 010 011 012 013 014 016 BLDG. 101 BLDG. 210 BLDG. 314	PROBLEM PROBLEM SHELVING
N60258 / 000177 CTO-0177/0209 MISC N68711-92-D-4670	12-17-2001 11-21-2001 00177	BECHTEL NATIONAL, INC. NAVFAC - SOUTHWEST DIVISION	PUBLIC NOTICE IN PRESS TELEGRAM FOR RESTORATION ADVISORY BOARD MEETING OF 28 NOVEMBER 2001	ADMIN RECORD	PIM PUBNOT RAB		SOUTHWEST DIVISION - BLDG. 12 12
00002							PALLET 14 - SW04012902 IMAGED LBSY_002

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N60258 / 000176 CTO-0177/0208	12-17-2001 11-28-2001	BECHTEL NATIONAL, INC.	RESTORATION ADVISORY BOARD DRAFT MEETING MINUTES FOR 24 OCTOBER 2001, AGENDA, MAILING LIST, AND 07/25/01 FINAL MEETING MINUTES - INCLUDES CONFIDENTIAL DISTRIBUTION	ADMIN RECORD CONFIDENTIAL	ARAR ARSENIC COC GW	001 002 003 004	SOUTHWEST DIVISION - BLDG. 12 12
MISC N68711-92-D-4670 00018	00177	NAVFAC - SOUTHWEST DIVISION T.			METALS MTG MINS PIM PUBNOT RAB ROD SOIL TCE	005 006A 007 008 009 010 011 012 013 014 016 BLDG. 129 BLDG. 210	PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000181 NONE PLAN PLAN NONE 00015 SHELVING	01-10-2002 01-02-2002 NONE NONE NONE	NSY LONG NAVFAC - NAVFAC - SOUTHWEST DIVISION	FINAL PROPOSED PLAN/DRAFT REMEDIAL ACTION PLAN FOR THE TRICHLOROETHYLENE DISPOSAL SITE, LOT H, PAST OPERATIONS & THE HILLSIDE EAST OF DRY DOCK NO. 1 (INCLUDES SWDIV TRANSMITTAL LETTER TO REGULATORS - SER 06CA.TM/0018)	ADMIN RECORD INFO REPOSITORY REPOSITORY	ARSENIC BACKGROUND COPC DISPOSAL GW METALS MONITORING NCP NFA NPL PP RAP REMEDIAL ACTION ROD SOIL TCE	008 010 011 011 BLDG. 210	SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING

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N60258 / 000182 CTO-0177/0213	01-15-2002 01-23-2002	BECHTEL NATIONAL, INC.	RESTORATION ADVISORY BOARD MEETING NOTICE AND AGENDA - INCLUDES 11/28/01 DRAFT MEETING MINUTES AND 10/24/01 FINAL MEETING MINUTES (CONTAINS CONFIDENTIAL DISTRIBUTION LIST)	ADMIN RECORD CONFIDENTIAL	COC FS	003 004	SOUTHWEST DIVISION - BLDG. 12
MISC N68711-92-D-4670 00022	00177	PUBLIC		INFO REPOSITORY	GW LUFT MTG MINS	006A 007 008	12
					PIM PUBNOT RAB REMEDIAL ACTION SARA SOIL TECH MEMO	009 010 011 012 013 014 016	PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000189 NONE	03-06-2002 01-30-2002	NAVFAC - SOUTHWEST DIVISION	SITE MANAGEMENT PLAN - QUARTERLY PROGRESS REPORT FOR SEPTEMBER 16, 2001 THROUGH DECEMBER 15, 2001 AT THE NAVAL COMPLEX (WITH NAVY	ADMIN RECORD	AOC BCT	001 002	SOUTHWEST DIVISION - BLDG. 1
PLAN	NONE	DIVISION			BRAC	003	
NONE 00041		DTSC - CYPRESS	TRANSMITTAL LETTER AND REVISIONS). ***COMMENTS: THIS REPORT CONTAINS REVISION PAGES: FIGURE 3-1 (MASTER SCHEDULE) AND FIGURE 3-2 (DETAILED SCHEDULE); REPLACEMENT PAGES 3-3 THROUGH 3-22***		FFSRA FS GW HAZ WASTE IAS RCRA REMEDIAL ACTION ROD SI SMP SOIL SVE WORK PLAN	004 005 006A 007 008 009 010 011 012 013 014 016 BLDG. 101 BLDG. 118 BLDG. 210 BLDG. 314	POSSIBLE COMPLIANCE

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N60258 / 000192 CTO-0177/0225	04-04-2002 02-25-2002	BECHTEL NATIONAL, INC.	AGENDA FOR 28 FEBRUARY 2002 BASE REALIGNMENT AND CLOSURE CLEANUP TEAM MEETING WITH DRAFT MINUTES FROM 23 JANUARY 2002, AND FINAL MINUTES FROM 28 NOVEMBER 2001	ADMIN RECORD	ARAR ARSENIC	001 002	SOUTHWEST DIVISION - BLDG. 12
MM N68711-92-D-4670 00015	00177	NAVFAC - SOUTHWEST DIVISION			BCT BRAC DISPOSAL FOSET FOST GW MTG MINS MW RAB ROD SI SMP SOIL TECH MEMO TSDF	006B 007 008 009 010 011 012 013 014 016 BLDG. 101 BLDG. 118 BLDG. 210 BLDG. 314 OU 1	PALLET 14 - SW04031101 IMAGED LBSY_003
N60258 / 000188 CTO-0177/0220	03-06-2002 02-26-2002	BECHTEL NATIONAL, INC. T. HEIRONIMUS T. HEIRONIMUS	RESTORATION ADVISORY BOARD MEMBERS ONLY MAILER OF 2002 RULES OF OPERATION, UPDATED RAB CONTACTS, AND MAILING LIST (MAILING LIST IS CONFIDENTIAL)	ADMIN RECORD CONFIDENTIAL	IRP PIM PUBNOT RAB		SOUTHWEST DIVISION - BLDG. 12 12
MISC N68711-92-D-4670 00006	00177	NAVFAC - SOUTHWEST DIVISION					PALLET 14 - SW04012902 IMAGED LBSY_002

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N60258 / 000190 CTO-0177/0224	04-04-2002 03-25-2002	BECHTEL NATIONAL, INC.	AGENDA FOR 27 MARCH 2002 BASE REALIGNMENT AND CLOSURE CLEANUP TEAM MEETING WITH DRAFT MINUTES FROM 28 FEBRUARY 2002, FINAL MINUTES FROM 23 JANUARY 2002, AND	ADMIN RECORD	BCT BRAC	001 002	SOUTHWEST DIVISION - BLDG. 12
MM N68711-92-D-4670	00177	NAVFAC - SOUTHWEST DIVISION	REVISED FINAL MINUTES FROM 28		FOSET FOST	007 008	12
00019					GW MONITORING MTBE MTG MINS ROD SMP SOIL TSDf	009 010 011 012 013 014 016 BLDG. 101 BLDG. 118	PALLET 14 - SW04031101 IMAGED LBSY_003
N60258 / 000193 NONE PLAN PLAN	04-19-2002 04-10-2002 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION	SITE MANAGEMENT PLAN - QUARTERLY PROGRESS REPORT FOR DECEMBER 16, 2001 THROUGH MARCH 15, 2002 AT THE NAVAL COMPLEX (WITH NAVY	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC ARSENIC BCT	001 002 003 003	SOUTHWEST DIVISION - BLDG. 1
NONE 00040		DTSC - CYPRESS S. HAKIM	TRANSMITTAL LETTER)		BRAC FFSRA	004 005	POSSIBLE POSSIBLE COMPLIANCE
					GW HAZ WASTE MONITORING MW RCRA ROD SI SMP SOIL WELLS WORK PLAN	006A 007 008 009 010 011 012 013 014 016 BLDG. 101 BLDG. 118 BLDG. 314 OU 1	

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N60258 / 000196 CTO-0177/0229 MM MM N68711-92-D-4670	04-24-2002 04-22-2002 00177 00177	BECHTEL NATIONAL, INC. C. RAYKOWSKI C. RAYKOWSKI NAVFAC - SOUTHWEST DIVISION	DRAFT BASE REALIGNMENT AND CLOSURE CLEANUP TEAM MINUTES FROM 27 MARCH 2002 MEETING, AGENDA FOR 24 APRIL 2002 MEETING, AND FINAL MINUTES FROM 28 FEBRUARY 2002 MEETING; ALSO INCLUDES DOCUMENT	ADMIN RECORD INFO REPOSITORY REPOSITORY	BCT BRAC FOSL FOST	001 002 007 007 008	SOUTHWEST DIVISION - BLDG. 12 12
00018					FS GW MTBE MTG MINS MW ROD SI SMP SOIL TSDF WELLS	009 010 011 012 013 014 016 BLDG. 101 BLDG. 118 BLDG. 314	PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000194 CTO-0177/0226 MISC N68711-92-D-4670	04-19-2002 04-24-2002 00177	BECHTEL NATIONAL, INC. T. HEIRONIMUS T. HEIRONIMUS NAVFAC - SOUTHWEST DIVISION	RESTORATION ADVISORY BOARD MEETING NOTICE AND AGENDA - INCLUDES 01/23/02 DRAFT MEETING MINUTES (CONTAINS CONFIDENTIAL DISTRIBUTION LIST)	ADMIN RECORD CONFIDENTIAL INFO REPOSITORY	ARAR FS GW MONITORING	001 002 003 004	SOUTHWEST DIVISION - BLDG. 12 12
00011					PIM PUBNOT RAB SOIL SOLVENTS SVE TECH MEMO WELLS	005 006A 007 008 009 010 011 012 013 014 016 BLDG. 118	PALLET 14 - SW04012902 IMAGED LBSY_002

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N60258 / 000195 CTO-0177/0228 MISC MISC N68711-92-D-4670 00003	04-24-2002 04-24-2002 00177 00177	BECHTEL NATIONAL, INC. T. HEIRONIMUS T. HEIRONIMUS NAVFAC - SOUTHWEST DIVISION PUBLIC	PUBLIC NOTICE FOR RESTORATION ADVISORY BOARD MEETING ON 24 APRIL 2002	ADMIN RECORD INFO REPOSITORY REPOSITORY	IRP PUBNOT RAB		SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 1
N60258 / 001086 SWDIV SER 06CM.TM/0420 RPT N47408-01-D-8207 00050	04-01-2003 05-01-2002 00007 00007	BATTELLE NAVFAC - NAVFAC - SOUTHWEST DIVISION	REPORT DESCRIBING SOIL AND GROUNDWATER SAMPLING ACTIVITIES AT THE FORMER HAZARDOUS WASTE STORAGE FACILITY [INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACHIARELLA]	ADMIN RECORD INFO REPOSITORY		BLDG. 118	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE COMPLIANCE
N60258 / 000225 SWDIV SER 06CM.JV/0520 06CM.JV/0520 MISC N47408-95-D-0730 00200	01-28-2003 05-16-2002 NONE NONE	BATTELLE NAVFAC - NAVFAC - SOUTHWEST DIVISION	DRAFT FINAL RISK ASSESSMENT FOR THE GASOLINE STATION INCLUDES - [SWDIV TRANSMITTAL LETTER FROM T. MACCHIARELLA]	ADMIN RECORD	BGS BRAC BTEx CANCER COPC GW MTBE MW RISK SOIL TOC TPH UST WELLS	009 BLDG. 101 BLDG. 118 BLDG. 210 DRYDOCK NO. 3	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE COMPLIANCE

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N60258 / 000197 CTO-0039/0007 AND SWDIV SER AND SWDIV SER 06CM.JV/0519	05-23-2002 05-20-2002 00039 00039	BECHTEL ENVIRONMENTAL, INC. INC.	DRAFT TECHNICAL MEMORANDUM FOR AREA OF CONCERN (AOC) 1 (INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA). ***COMMENTS: NOTE:	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC AOPC ARSENIC	012 AOC 1	SOUTHWEST DIVISION - BLDG. 1
MEMO N68711-95-D-7526 00150		NAVFAC - NAVFAC - SOUTHWEST DIVISION	THE TECHNICAL MEMORANDUM WILL BECOME APPENDIX G OF THE FINAL FEASIBILITY STUDY REPORT (AR #159) PER SWDIV TRANSMITTAL LETTER BY TOM MACCHIARELLA DATED 21 MAY 2002.***		CANCER COC COPC FS PAH PCB REMEDIAL ACTION SOIL SOIL BORING SVOC TECH MEMO		PROBLEM PROBLEM SHELVING
N60258 / 000198 CTO-0177/0231 MM MM N68711-92-D-4670 00018	05-23-2002 05-29-2002 00177 00177	BECHTEL NATIONAL, INC. C. RAYKOWSKI C. RAYKOWSKI NAVFAC - SOUTHWEST DIVISION	DRAFT BASE REALIGNMENT AND CLOSURE CLEANUP TEAM MINUTES FROM 24 APRIL 2002 MEETING, AGENDA FOR 29 MAY 2002 MEETING, AND FINAL MINUTES FROM 27 MARCH 2002 MEETING; ALSO INCLUDES DOCUMENT REVIEW STATUS	ADMIN RECORD INFO REPOSITORY REPOSITORY	BCT BRAC FFSRA FS GW MTBE MTG MINS PERMIT PROPOSED PLAN RAB RCRA REMEDIAL ACTION ROD SI SMP SOIL TSDF WELLS	001 002 007 007 008 009 010 011 012 013 014 016 BLDG. 101 BLDG. 118 BLDG. 314 OU 1	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002

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N60258 / 000199 SWDIV SER 06CA.JV/0575 06CA.JV/0575 LTR NONE 00004	06-12-2002 06-04-2002 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION T. PORT OF LONG BEACH T. JELLENIC	HARBOR DEVELOPMENT PERMIT APPLICATION FOR COLLECTING SOIL AND GROUNDWATER SAMPLES AT BUILDING 210, FORMER PLATING SHOP	ADMIN RECORD INFO REPOSITORY REPOSITORY	GW PERMIT SI SOIL	016 BLDG. 210	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 001087 SWDIV SER 06CM.JV/0619 PLAN N47408-01-D-8207 00067	04-01-2003 06-07-2002 00017 00017	BATTELLE M. KELLEY NAVFAC - NAVFAC - SOUTHWEST DIVISION	FINAL WORK PLAN FOR CONDUCTING AN EXPANDED SITE INSPECTION FOR THE FORMER PLATING SHOP [INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACHIARELLA], (SEE AR #268 - DRAFT WP ADDENDUM, AND #242 - FINAL WP ADDENDUM)	ADMIN RECORD INFO REPOSITORY	DOC SVOC	016 BLDG. 210	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002

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N60258 / 000200 SWDIV SER 06CM.JV/0618 06CM.JV/0618 PLAN N68711-00-D-0004 00104	08-13-2002 06-14-2002 DO 17 DO 17	CDM FEDERAL PROGRAMS S. HAKIM S. HAKIM NAVFAC - SOUTHWEST DIVISION	DRAFT SITE MANAGEMENT PLAN ANNUAL UPDATE FOR LONG BEACH NAVAL COMPLEX - INCLUDES SWDIV TRANSMITTAL LETTER FROM T. MACCHIARELLA	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC AOPC ARAR AST BCP BCT BRAC CYANIDE EE/CA FFSRA FS GW HRA MW NEPA NPL PA PCB PROPOSED PLAN RCRA REMEDIAL ACTION RI ROD SDWA SI SMP SOIL SVE SWMU TPH TSCA UST WELLS WORK PLAN	007 008 009 009 010 011 012 013 014 016 BLDG. 101 BLDG. 118 BLDG. 314	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04012902 IMAGED LBSY_002

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N60258 / 000203 CTO-0177/0236 MM MM N68711-92-D-4670 00016	08-13-2002 07-10-2002 00177 00177	BECHTEL NATIONAL, INC. C. RAYKOWSKI C. RAYKOWSKI NAVFAC - SOUTHWEST DIVISION	29 MAY 2002 DRAFT BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM MEETING MINUTES - INCLUDES 24 APRIL 2003 FINAL BRAC MEETING MINUTES AND 10 JULY 2002 AGENDA	ADMIN RECORD INFO REPOSITORY REPOSITORY	ARAR BCT BRAC CLOSURE FOSET FOST FS GW MTBE MTG MINS PROPOSED PLAN ROD SI SMP TSDF WELLS	007 008 009 009 010 011 012 013 014 016 BLDG. 101 BLDG. 118 BLDG. 314	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021201 IMAGED LBSY_002
N60258 / 000232 NONE MISC NONE 00006	01-28-2003 07-12-2002 NONE	DTSC - CYPRESS S. HAKIM NAVFAC - SOUTHWEST DIVISION T.	COMMENTS ON THE DRAFT FINAL RISK ASSESSMENT FOR THE GASOLINE STATION (BUILDING 101)	ADMIN RECORD	BTEX CANCER COMMENTS GW MTBE PETROLEUM RISK SOIL	009 BLDG. 101 BLDG. 210 DRYDOCK NO. 3	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000207 CTO-0177/0240 MISC MISC N68711-92-D-4670 00003	08-13-2002 07-17-2002 00177 00177	BECHTEL NATIONAL, INC. A.LEE A.LEE GENERAL PUBLIC	PROOF OF PUBLICATION, IN LONG BEACH PRESS-TELEGRAM, OF PUBLIC NOTICE FOR RESTORATION ADVISORY BOARD MEETING OF 24 JULY 2002	ADMIN RECORD INFO REPOSITORY REPOSITORY	IRP PIM PUBNOT RAB	 12 12	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021201 IMAGED LBSY_002

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N60258 / 000233 NONE	01-28-2003 07-23-2002	CRWQCB - LOS ANGELES A. TOWNSEND	COMMENTS ON THE DRAFT FINAL RISK ASSESSMENT FOR THE GASOLINE STATION (BUILDING 101) - ALL WATER	ADMIN RECORD	COMMENTS RISK	009 BLDG. 101	SOUTHWEST DIVISION - BLDG. 1
MISC NONE	NONE	A. TOWNSEND NAVFAC - SOUTHWEST DIVISION	BOARD COMMENTS AND CONCERNS ON THE DRAFT VERSIONS HAVE BEEN			BLDG. 210	
00001		J. VALENZIA	ADEQUATELY ADDRESSED				PROBLEM PROBLEM SHELVING
N60258 / 000208 CTO-0177/0237	08-13-2002 07-24-2002	BECHTEL NATIONAL, INC.	DRAFT MINUTES FROM THE 24 APRIL 2002 RESTORATION ADVISORY BOARD MEETING, FINAL MINUTES FROM THE 23 JANUARY 2002 MEETING AND	ADMIN RECORD CONFIDENTIAL	FS GW	007 008	SOUTHWEST DIVISION - BLDG. 12
MM N68711-92-D-4670	00177	NAVFAC - SOUTHWEST DIVISION	NOTIFICATION & AGENDA OF 24 JULY	INFO REPOSITORY	MTG MINS PIM	009 010	12
00021			2002 MEETING (INCLUDES CONFIDENTIAL MAILING LIST)		PRG RAB RCRA ROD SOIL	011 012 013 014 016 BLDG. 118 BLDG. 210	PALLET 14 - PALLET 14 - SW04021201 IMAGED LBSY_002
N60258 / 000238 NONE MISC N47408-01-D-8207	01-28-2003 08-02-2002 NONE	BATTELLE NAVFAC - SOUTHWEST DIVISION	FINAL RISK ASSESSMENT FOR THE GASOLINE STATION (BUILDING 101)	ADMIN RECORD	BTEX COPC GW MTBE RISK TOC TPH UST VOC	009 BLDG. 101 BLDG. 210 DRYDOCK NO. 3	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE POSSIBLE COMPLIANCE

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N60258 / 000239 PROJECT NO. 57- 0984P463.00 RPT POLB HD-S2127 00400	01-28-2003 08-05-2002 NONE	URS CORPORATION THE PORT OF LONG BEACH	FINAL COMPLETION REPORT SOIL & DEBRIS REMOVAL PIER T PARKING LOT E	ADMIN RECORD	COC METALS NFA PCB PESTICIDES RCRA REMOVAL SOIL	012	SOUTHWEST DIVISION - BLDG. 1 PROBLEM SHELVING
N60258 / 000211 CTO-0039/0015 MISC MISC	08-23-2002 08-19-2002 00039 00039	BECHTEL ENVIRONMENTAL, INC. INC.	COMPILED RESPONSES TO DTSC AND CRWQCB COMMENTS ON THE DRAFT TECHNICAL MEMORANDUM FOR AREA OF CONCERN (AOC) 1 W/ATTACHMENTS	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC COMMENTS COPC	012 AOC 1	SOUTHWEST DIVISION - BLDG. 1
N68711-95-D-7526 00040		NAVFAC - SOUTHWEST DIVISION			GW RESPONSE SOIL TECH MEMO VOC VOLATILES WELLS		PROBLEM PROBLEM SHELVING
N60258 / 000214 NONE LTR LTR NONE 00002	09-25-2002 09-13-2002 NONE NONE	DTSC - CYPRESS K. BAKER NAVFAC - NAVFAC - SOUTHWEST DIVISION T.	ACCEPTANCE OF CLOSURE CERTIFICATION FOR HAZARDOUS WASTE STORAGE AREA, BUILDING 314 - DTSC CONSIDERS THE STORAGE AREA CLOSED	ADMIN RECORD INFO REPOSITORY REPOSITORY	CLOSURE HAZ WASTE PERMIT RCRA SWMU	BLDG. 314	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04021201 IMAGED LBSY_002

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N60258 / 000212 CDM 6046 PLAN PLAN N68711-00-D-0004	09-19-2002 09-16-2002 DO 17 DO 17	CDM FEDERAL PROGRAMS NAVFAC - SOUTHWEST DIVISION	FINAL SITE MANAGEMENT PLAN ANNUAL UPDATE FOR LONG BEACH NAVAL COMPLEX - INCLUDES (RESPONSE TO COMMENTS ON THE DRAFT SMP AND REVISION PAGES). ***COMMENTS:	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC AOPC AST BCP	007 008 009 009 010	SOUTHWEST DIVISION - BLDG. 12 12
00105			REVISION PAGES: FIGURE 6-1 (MASTER SCHEDULE PAGES 6-5 TO 6-8) AND FIGURE 6-2 (DETAILED SCHEDULE PAGES 6-11, 6-12, 6-17, AND 6-18)***		BCT BRAC GW NFA NPL PCB PROPOSED PLAN RCRA REMEDIAL ACTION RI ROD SI SMP SOIL SVE TPH UST WORK PLAN	011 012 013 014 016 BLDG. 101 BLDG. 118 BLDG. 314 BLDG. 816	PALLET 14 - PALLET 14 - SW04021201 IMAGED LBSY_002

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N60258 / 000219 NONE	12-19-2002 09-16-2002	CDM FEDERAL PROGRAMS K. TAYLOR	DRAFT WORK PLAN FOR GROUNDWATER MONITORING AT INSTALLATION RESTORATION SITES 8, 9, 10, 11, 12, & 13	ADMIN RECORD	BGS BRAC	008 009	SOUTHWEST DIVISION - BLDG. 12
PLAN N68711-00-D-0004	DO 0009	K. TAYLOR NAVFAC - SOUTHWEST DIVISION			DCE DQO	010 011	12
00242					GW MONITORING MW QA QC RCRA SAP SOP SOW TCE UST VOC WELLS WORK PLAN	012 013	PALLET 14 - SW04022601 IMAGED LBSY_003
N60258 / 001088 SWDIV SER 06CM.TM/0932 RPT NONE	04-02-2003 10-01-2002 NONE	PORT OF LONG BEACH NAVFAC - SOUTHWEST DIVISION	ANNUAL INSPECTION REPORT, OCTOBER 2002 [INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACHIARELLA]	ADMIN RECORD INFO REPOSITORY		003 004 005 006A	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE COMPLIANCE COMPLIANCE
00014							

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N60258 / 000216 NONE PLAN PLAN	10-16-2002 10-10-2002 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION	SITE MANAGEMENT PLAN - QUARTERLY PROGRESS REPORT FOR JUNE 16 THROUGH SEPTEMBER 15, 2002 AT THE NAVAL COMPLEX	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC ARSENIC BCT	007 008 009 009	SOUTHWEST DIVISION - BLDG. 12 12
NONE 00037		DTSC - CYPRESS			BRAC CLOSURE	010 011	
					FFSRA FS GW HAZ WASTE RCRA ROD SMP SOIL	012 013 016 BLDG. 101 BLDG. 118 BLDG. 314	PALLET 14 - SW04021201 IMAGED LBSY_002
N60258 / 000218 NONE RPT RPT N47408-01-D-8207 00100	10-24-2002 10-17-2002 00017 00017	BATTELLE NAVFAC - NAVFAC - SOUTHWEST DIVISION	DRAFT EXPANDED SITE INSPECTION REPORT FOR THE FORMER PLATING SHOP IN BUILDING 210	ADMIN RECORD INFO REPOSITORY REPOSITORY	AOC BGS COPC GPR GW METALS NFA PRG QA QC SI SOIL SVOC TOC VOC WQO	016 AOC PT 1 BLDG. 210 BLDG. 210	SOUTHWEST DIVISION - BLDG. 1 PROBLEM FILE PROBLEM FILE CABINET

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N60258 / 000223 NONE MISC MISC NONE	12-19-2002 10-31-2002 NONE NONE	CRWQCB - LOS ANGELES A. TOWNSEND A. TOWNSEND NAVFAC - SOUTHWEST DIVISION T.	COMMENTS ON THE DRAFT WORK PLAN FOR GROUNDWATER MONITORING AT INSTALLATION RESTORATION SITES 8, 9, 10, 11, 12, & 13	ADMIN RECORD INFO REPOSITORY REPOSITORY	ARSENIC COMMENTS GW MONITORING	008 009 010 010 011	SOUTHWEST DIVISION - BLDG. 12 12
00002					MW VOC WELLS WORK PLAN	012 013	PALLET 14 - SW04022601 IMAGED LBSY_003
N60258 / 000224 SWDIV SER 06CM.ED/0245 06CM.ED/0245 MISC NONE	01-22-2003 12-20-2002 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION T. DTSC/CYPRESS & RWQCB/LOS ANGEL ANGEL S. HAKIM & A. TOWNSEND	RESPONSE TO COMMENTS ON THE DRAFT WORK PLAN FOR GROUNDWATER MONITORING AT INSTALLATION RESTORATION SITES 8, 9, 10, 11, 12, & 13 {COMMENTS BY DTSC & CRWQCB}	ADMIN RECORD INFO REPOSITORY REPOSITORY	COMMENTS GW MONITORING MW PID	008 009 010 010 011 012	SOUTHWEST DIVISION - BLDG. 12 12
00011					RESPONSE SOIL BORING VOC WELLS WORK PLAN	013	PALLET 14 - PALLET 14 - SW04022601 IMAGED LBSY_003

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N60258 / 001089 SWDIV SER 06CM.TM/0336 06CM.TM/0336 PLAN NONE 00020	04-02-2003 01-13-2003 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION DTSC - CYPRESS	SITE MANAGEMENT PLAN, QUARTERLY PROGRESS REPORT FOR SEPTEMBER 16 THROUGH DECEMBER 15, 2002 AT THE NAVAL COMPLEX [INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACHIARELLA]	ADMIN RECORD INFO REPOSITORY	SMP	001 002 003 003 004 005 006A 007 008 009 010 011 012 013 014 016 BLDG. 101 BLDG. 118 BLDG. 314	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE COMPLIANCE
N60258 / 000294 SWDIV SER 06CM.JV/0383 MISC NONE 00020	04-06-2004 02-10-2003 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION T. DTSC - CYPRESS S. HAKIM	RESPONSE TO COMMENTS ON THE DRAFT EXPANDED SITE INSPECTION REPORT FOR THE FORMER PLATING SHOP IN BUILDING 210	ADMIN RECORD INFO REPOSITORY	COMMENTS	016 BLDG. 210	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001083 SWDIV SER 06CA.JV/0493 06CA.JV/0493 LTR NONE 00004	04-01-2003 02-28-2003 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION T. MACHIARELLA DTSC - CYPRESS S. HAKIM	LETTER REGARDING NAVY'S REVIEW ON THE FINAL COMPLETION REPORT FOR THE SOIL AND DEBRIS REMOVAL AT PIER T, PARKING LOT E - IT WAS DETERMINED THAT THE DATA PRESENTED DOES NOT IMPACT THE IR PROGRAM	ADMIN RECORD INFO REPOSITORY		009 012 013 013 AOPC 2	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04031101 IMAGED LBSY_004

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N60258 / 000269 NONE PLAN	06-10-2003 03-19-2003 DO 0009	CDM FEDERAL PROGRAMS CORP. K. TAYLOR	FINAL WORK PLAN FOR GROUNDWATER MONITORING	ADMIN RECORD INFO REPOSITORY	DCE GW TCE	008 009 010	SOUTHWEST DIVISION - BLDG. 1
N68711-00-D-0004 00300		NAVFAC - SOUTHWEST DIVISION			VOC	011 012 013	PROBLEM PROBLEM SHELVING
N60258 / 001084 SWDIV SER 06CM.TM/0572 06CM.TM/0572 LTR NONE 00005	04-01-2003 03-19-2003 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION T. DTSC - CYPRESS K. BAKER	LETTER REQUESTING CONCURRENCE THAT NO FURTHER ACTION STATUS IS NEEDED ON THE 18 SOLID WASTE MANAGEMENT UNITS	ADMIN RECORD INFO REPOSITORY		BLDG. 128 BLDG. 129 BLDG. 130 BLDG. 130 BLDG. 132 BLDG. 202 BLDG. 210 BLDG. 54 BLDG. 7	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE COMPLIANCE
N60258 / 001091 SWDIV SER 06CM.ED/0622 06CM.ED/0622 PLAN N68711-00-D-0004 00254	07-24-2003 03-19-2003 DO 0009 DO 0009	CDM FEDERAL PROGRAMS CORP. CORP. K. TAYLOR NAVFAC - SOUTHWEST DIVISION DIVISION	FINAL WORK PLAN FOR GROUNDWATER MONITORING WITH THE FINAL SAMPLING AND ANALYSIS PLAN (APPENDIX A) [INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA]	ADMIN RECORD INFO REPOSITORY REPOSITORY	DCE GW TCE VOC	008 009 010 010 011 012 013	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - PALLET 14 - SW04031101 IMAGED LBSY_004
N60258 / 001085 SWDIV SER 06CM.JV/0586 06CM.JV/0586 PLAN N68711-97-D-8702 00100	04-01-2003 03-21-2003 DO 0016 DO 0016	GEOFON, INC. C. DUCKWORTH NAVFAC - NAVFAC - SOUTHWEST DIVISION	FINAL REVISED CORRECTIVE ACTION PLAN (CAP) FOR GROUNDWATER AT THE FORMER GASOLINE STATION WITH RESPONSE TO COMMENTS ON THE DRAFT [INCLUDES SWDIV TRANSMITTAL LETTER T. MACHIARELLA]	ADMIN RECORD INFO REPOSITORY REPOSITORY	BTEX COMMENTS MTBE RESPONSE TDS TPH TRPH VOC	BLDG. 101 BLDG. 210	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE COMPLIANCE

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N60258 / 000262 SWDIV SER 06CM.JV/0657 06CM.JV/0657 RPT NONE 00032	05-05-2003 04-10-2003 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION DTSC - CYPRESS	SITE MANAGEMENT PLAN, QUARTERLY PROGRESS REPORT FOR 16 DECEMBER 2002 THROUGH 15 MARCH 2003 - INCLUDES (SWDIV TRANSMITTAL LETTER BY T. MACHIARELLA)	ADMIN RECORD INFO REPOSITORY		001 002 003 003 004 005 006A 007 008 009 010 011 012 013 014 016 BLDG. 101 BLDG. 118	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 001092 NONE LTR NONE 00002	04-06-2004 04-22-2003 NONE	DTSC - CYPRESS S. HAKIM NAVFAC - SOUTHWEST DIVISION T. MACHIARELLA	REVIEW AND CONCURRENCE ON THE FINAL WORK PLAN GROUNDWATER MONITORING	ADMIN RECORD INFO REPOSITORY		008 009 010 011 012 013	SOUTHWEST DIVISION - BLDG. 1
N60258 / 000267 PROJ. NO. 04- 4428.20 & SWDIV 4428.20 & SWDIV SER 06CM.JV/0820 PLAN N68711-01-D-6008 00120	06-03-2003 05-22-2003 DO 0002 DO 0002	GEOFON, INC. NAVFAC - NAVFAC - SOUTHWEST DIVISION DIVISION	DRAFT WORK PLAN FOR GROUNDWATER MONITORING AT THE GASOLINE STATION [INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA]	ADMIN RECORD INFO REPOSITORY REPOSITORY	BTEX HDPE MTBE PVC TPH VOC	BLDG. 101 POSSIBLE POSSIBLE COMPLIANCE	SOUTHWEST DIVISION - BLDG. 1

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N60258 / 000268 PROJ. NO. 04- 4428.20 & SWDIV 4428.20 & SWDIV SER 06CA.JV/0819 PLAN N68711-01-D-6008 00036	06-03-2003 05-22-2003 DO 0002 DO 0002	GEOFON, INC. NAVFAC - NAVFAC - SOUTHWEST DIVISION DIVISION	DRAFT WORK PLAN ADDENDUM TO THE ZINC PLUME DELINEATION AT THE FORMER PLATING SHOP [INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA] (SEE AR #242 - FINAL WP ADDENDUM AND #1087 - FINAL WP)	ADMIN RECORD INFO REPOSITORY REPOSITORY VOC	HDPE PVC TPH VOC	016 BLDG. 210	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 001090 CTO-0039/0038-1 PLAN N68711-95-D-7526 00019	07-22-2003 06-01-2003 00039	BECHTEL ENVIRONMENTAL, INC. NAVFAC - SOUTHWEST DIVISION	REVISED DRAFT PROPOSED PLAN/DRAFT REMEDIAL ACTION PLAN (SEE AR #273 - REVISION 0)	ADMIN RECORD INFO REPOSITORY	VOC	009	SOUTHWEST DIVISION - BLDG. 12 PALLET 14 - SW04031101 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 12
N60258 / 000273 CTO-0039/0035 & SWDIV SER SWDIV SER 06CA.JV/0929 PLAN N68711-95-D-7526 00023	06-24-2003 06-18-2003 00039 00039	BECHTEL ENVIRONMENTAL, INC. INC. NAVFAC - NAVFAC - SOUTHWEST DIVISION	DRAFT PROPOSED PLAN/DRAFT REMEDIAL ACTION PLAN - INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA (SEE AR #1090 - REVISION 1)	ADMIN RECORD INFO REPOSITORY REPOSITORY	DCE PCE TCE VC VOC	009	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 1
N60258 / 001103 SWDIV SER. 06CA.JV/0930 06CA.JV/0930 PLAN N68711-01-D-6009 00150	08-30-2004 06-18-2003 00005 00005	NBVC - PORT HUENEME NAVFAC - SOUTHWEST DIVISION	DRAFT RECORD OF DECISION (ROD)/REMEDIAL ACTION PLAN (RAP) INSTALLATION RESTORATION PROGRAM (IRP) [INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA] (CD COPY ENCLOSED). ***COMMENTS: INSERT PAGES: RESPONSE TO COMMENTS, REPLACEMENT PAGES: PAGE XIV, PAGE 14-19, PAGE 1-7, PAGE 6-1, PAGE 10-6, PAGE 12-1THROUGH 12-3, PAGE 12-6 AND PAGE 14-7***	ADMIN RECORD INFO REPOSITORY REPOSITORY	DCA DCE GW PAH PCB PLAN SOIL SVOC TCE VOC	008 010	SOUTHWEST DIVISION - BLDG. 1

Tuesday, August 08, 2006
documents which cite bibliography sources.

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N60258 / 000242 PROJ. NO. 04- 4428.20 & SWDIV SER. 06CA.JV/1130	08-06-2003 08-01-2003 DO 0002 DO 0002	GEOFON, INC. A. FORD NAVFAC - NAVFAC - SOUTHWEST DIVISION DIVISION	FINAL WORK PLAN ADDENDUM TO THE ZINC PLUME DELINEATION AT THE FORMER PLATING SHOP [INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA] (SEE AR #268 - DRAFT WP ADDENDUM, AND #1087 - FINAL WP)	ADMIN RECORD INFO REPOSITORY		016 BLDG. 210	SOUTHWEST DIVISION - BLDG. 12 12
PLAN N68711-01-D-6008 00034							PALLET 14 - SW04012902 IMAGED LBSY_002
N60258 / 000245 SWDIV SER. 06CA.JV/1131 06CA.JV/1131 PLAN N68711-01-D-6008 00100	08-06-2003 08-01-2003 DO 0002 DO 0002	GEOFON, INC. A. FORD NAVFAC - NAVFAC - SOUTHWEST DIVISION	FINAL WORK PLAN FOR GROUNDWATER MONITORING AT THE GASOLINE STATION [INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA]	ADMIN RECORD INFO REPOSITORY	BTEX GW HDPE MTBE PVC TPH VOC	BLDG. 101	SOUTHWEST DIVISION - BLDG. 1 POSSIBLE COMPLIANCE
N60258 / 000270 SWDIV SER 06CM/0920 PLAN N68711-00-D-0004 00100	06-24-2003 08-11-2003 DO 0017 DO 0017	CDM FEDERAL PROGRAMS NAVFAC - SOUTHWEST DIVISION	FINAL SITE MANAGEMENT PLAN ANNUAL UPDATE [INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA]. ***COMMENTS: DOCUMENT WAS REVIEWED BY REGULATORS WITH NO FURTHER COMMENTS. DRAFT VERSION ISSUED ON 06/16/03.***	ADMIN RECORD INFO REPOSITORY	PCB TPH		SOUTHWEST DIVISION - BLDG. 1 PROBLEM SHELVING SHELVING
N60258 / 000256 SWDIV SER 06CA.JV/1214 MISC NONE 00015	10-03-2003 08-25-2003 00039 00039	NAVFAC - SOUTHWEST DIVISION DIVISION T. DTSC - CYPRESS S. HAKIM	RESPONSE TO COMMENTS ON THE DRAFT PROPOSED PLAN/DRAFT REMEDIAL ACTION PLAN [INCLUDES SWDIV TRANSMITTAL LETTER]	ADMIN RECORD INFO REPOSITORY	COMMENTS	009	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002

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N60258 / 000246 CTO-0039/0055 & CTO-0039/0062 & CTO-0039/0062 & SER. 06CA.JV/1214 PLAN N68711-95-D-7526 00040	10-03-2003 09-01-2003 00039 00039	BECHTEL ENVIRONMENTAL, INC. INC. NAVFAC - SOUTHWEST DIVISION	DRAFT FINAL PROPOSED PLAN/DRAFT REMEDIAL ACTION PLAN [INCLUDES RESPONSE TO COMMENTS ON THE DRAFT PP/RAP, NOTICE OF EXEMPTION AND SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA]	ADMIN RECORD CONFIDENTIAL INFO REPOSITORY	COMMENTS	009	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 SW04012902
N60258 / 000257 CTO-0039-51 MISC MISC N68711-95-D-7526 00008	10-03-2003 09-10-2003 00039 00039	BECHTEL ENVIRONMENTAL, INC. INC. R. TAIT DTSC - CYPRESS S. HAKIM	RESPONSE TO COMMENTS ON THE DRAFT PROPOSED PLAN/DRAFT REMEDIAL ACTION PLAN [INCLUDES TRANSMITTAL LETTER]	ADMIN RECORD INFO REPOSITORY	COMMENTS	009	SOUTHWEST DIVISION - BLDG. 12 12 PALLET 14 - SW04012902 IMAGED LBSY_002 SOUTHWEST DIVISION - BLDG. 1
N60258 / 000234 FWSD-RAC-03- 3247 & SWDIV SER 3247 & SWDIV SER 06CM.ED/1475 RPT N68711-98-D-5713 00400	08-06-2003 10-08-2003 00012 00012	FOSTER WHEELER V. RICHARDS V. RICHARDS NAVFAC - NAVFAC - SOUTHWEST DIVISION	FINAL GROUNDWATER MONITORING REPORT, FIFTH QUARTERLY EVENT, REVISION 1 - INCLUDES RESPONSE TO COMMENTS ON THE DRAFT VERSION AND SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA. ***COMMENTS: DRAFT VERSION (REVISION 0, SWDIV SER 06CM.ED/1098) WAS ISSUED ON 07/22/03. INCLUDES REPLACEMENT PAGES: COVER PAGE, TITLE PAGE, AND 3-1 TO 3-	ADMIN RECORD INFO REPOSITORY REPOSITORY	DCE GW PCE TCE TDS VOC	014	PROBLEM SHELVING
N60258 / 000278 NONE PLAN NONE 00020	12-08-2003 10-10-2003 NONE	NAVFAC - SOUTHWEST DIVISION DTSC - CYPRESS	SITE MANAGEMENT PLAN, QUARTERLY PROGRESS REPORT FOR 16 JUNE 2003 THROUGH 15 SEPTEMBER 2003	ADMIN RECORD INFO REPOSITORY			SOUTHWEST DIVISION - BLDG. 1 PROBLEM PROBLEM SHELVING

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N60258 / 000295 NONE PLAN	04-06-2004 01-09-2004 NONE	NAVFAC - SOUTHWEST DIVISION	SITE MANAGEMENT PLAN, QUARTERLY PROGRESS REPORT FOR 16 SEPTEMBER 2003 THROUGH 15 DECEMBER 2003	ADMIN RECORD INFO REPOSITORY		001 002 003	SOUTHWEST DIVISION - BLDG. 1
NONE 00010		DTSC - CYPRESS				004 005	
						006A 007 008 009 010 011 012 014 016 BLDG. 101 BLDG. 118 OU 1	
N60258 / 001122 SWDIV SER 06CA.JV/0110 06CA.JV/0110 MISC NONE 00003	03-02-2005 02-02-2004 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION GENERAL PUBLIC	FACT SHEET: DRAFT PROPOSED PLAN/DRAFT REMEDIAL ACTION PLAN [INCLUDES SWDIV TRANSMITTAL LETTER BY J. VALENZIA]	ADMIN RECORD INFO REPOSITORY REPOSITORY	IR PP RA	012 013	SOUTHWEST DIVISION - BLDG. 1
N60258 / 000293 CTO-0044/0029 & SWDIV SER 06CM.AD/0323	04-06-2004 03-01-2004 00044 00044	BECHTEL ENVIRONMENTAL, INC. INC.	DRAFT FINAL PROPOSED PLAN/DRAFT REMEDIAL ACTION PLAN (RAP) [INLCUDES RESPONSE TO COMMENTS ON THE DRAFT PP/RAP AND SWDIV TRANSMITTAL LETTER BY J. VALENZIA]	ADMIN RECORD INFO REPOSITORY	COMMENTS	007	SOUTHWEST DIVISION - BLDG. 1
PLAN N68711-95-D-7526 00040		NAVFAC - SOUTHWEST DIVISION					

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N60258 / 000291 04-1319 MISC MISC N68711-98-D-5713 00009	03-22-2004 03-11-2004 00012 00012	TETRA TECH FW INC. M. LOSI M. LOSI NAVFAC - SOUTHWEST DIVISION	ARTICLE: MONITORING OF SUBSURFACE BIOPROCESSES USING QUANTITATIVE BIOMARKER ANALYSES	ADMIN RECORD INFO REPOSITORY REPOSITORY	CVOC DCE PCE TCE		SOUTHWEST DIVISION - BLDG. 1
N60258 / 001120 SWDIV SER 06CM.LB/0299 CORRESP NONE 00007	03-02-2005 03-17-2004 NONE NONE	VARIOUS AGENCIES NAVFAC - SOUTHWEST DIVISION	COMPILATION OF RESPONSES TO COMMENTS ON THE DRAFT PROPOSED PLAN/DRAFT REMEDIAL ACTION PLAN [INCLUDES SWDIV TRANSMITTAL LETTER BY J. VALENZIA]	ADMIN RECORD INFO REPOSITORY	COMMENTS IR	012 013	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001121 SWDIV SER 06CM.LB/0313 CORRESP NONE 00003	03-02-2005 03-22-2004 NONE NONE	VARIOUS AGENCIES DTSC - CYPRESS S. HAKIM	COMPILATION OF ADDITIONAL RESPONSES TO COMMENTS ON THE DRAFT PROPOSED PLAN/REMEDIAL ACTION PLAN [INCLUDES SWDIV TRANSMITTAL LETTER BY J. VALENZIA]	ADMIN RECORD INFO REPOSITORY	COMMENTS IR	012 013	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001119 SWDIV SER 06CM.LB/0368 PUB NOTICE NONE 00014	03-02-2005 04-01-2004 NONE	NAVFAC - SOUTHWEST DIVISION GENERAL PUBLIC	DRAFT FINAL PROPOSED PLAN/REMEDIAL ACTION PLAN (PP/RAP)	ADMIN RECORD INFO REPOSITORY	PAH PP RAP	012 013	SOUTHWEST DIVISION - BLDG. 1

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N60258 / 001099 SWDIV SER. 06CA.LB/0699 06CA.LB/0699 MISC N47408-D-070 00009	07-12-2004 04-08-2004 DO 0070 DO 0070	NAVFAC - NAVFAC - SOUTHWEST DIVISION	NAVY'S RESPONSE TO COMMENTS ON THE DRAFT RECORD OF DECISION (ROD)/REMEMDIAL ACTION PLAN (RAP), INSTALLATION RESTORATION (IR) PROGRAM [INCLUDES SWDIV TRANSMITTAL LETTER BY J. VALENZIA]	ADMIN RECORD INFO REPOSITORY REPOSITORY	BTEX COMMENTS GW HAZ PAH PCE SOIL TCE VOC	009	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001093 SWDIV SER. 06CM.AD/0456 06CM.AD/0456 LTR NONE 00003	05-18-2004 04-22-2004 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION J. VALENZIA DTSC - CYPRESS S. HAKIM	FEDERAL FACILITIES SITE REMEDIATION AGREEMENT (FFSRA) SITE MANAGEMENT PLAN SCHEDULE EXTENSION REQUEST	ADMIN RECORD INFO REPOSITORY REPOSITORY	GW PLAN SOIL	016	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001094 SWDIV SER. 06CA.AD/0456 LTR NONE 00002	05-18-2004 04-22-2004 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION J. VALENZIA DTSC - CYPRESS S. HAKIM	DEPARTMENT OF TOXIC SUBSTANCES CONTROL (DTSC) SCHEDULE EXTENSION REQUEST LETTER OF 16 APRIL 2004 (SEE AR # 293)	ADMIN RECORD INFO REPOSITORY		007	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001096 MODIFICATION NO.1 & SWDIV NO.1 & SWDIV SER.06CM.AD/0451 PLAN N47408-01-D-8207 00040	06-29-2004 04-22-2004 DO 0069 DO 0069	BATTELLE S. DE SILVA NAVFAC - NAVFAC - SOUTHWEST DIVISION DIVISION	DRAFT WORK PLAN FOR GROUNDWATER SAMPLING, CERCLA STATUTORY FIVE- YEAR REVIEW, [INCLUDES SWDIV TRANSMITTAL LETTER BY J. VALENZIA] (SEE AR# 1097 FINAL WORK PLAN)	ADMIN RECORD INFO REPOSITORY REPOSITORY	GW PAH PCB PCE PLAN TCE VOC	003 06A	SOUTHWEST DIVISION - BLDG. 1

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N60258 / 001095 SWDIV SER. 06CM.EB/0476 06CM.EB/0476 MISC NONE 00020	05-18-2004 04-28-2004 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION J. VALENZIA DTSC - CYPRESS S. HAKIM	RESPONSE TO COMMENTS ON THE DRAFT RECORD OF DECISION (ROD)/REMEDIAL ACTION PLAN (RAP), SECTION 14, APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS SECTION (ARARS), TABLE - CONSTITUENTS OF CONCERN	ADMIN RECORD INFO REPOSITORY REPOSITORY	GW WATER WELLS	008 010	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001111 SWDIV SER 06CM.LB/0548 LTR N68711-01-F-6009 00006	10-25-2004 05-20-2004 DO 0005 DO 0005	BATTELLE P. JAGUCKI NAVFAC - NAVFAC - SOUTHWEST DIVISION J. VALENZIA	RESPONSE TO COMMENTS ON THE DRAFT RECORD OF DECISION DATED 12 MAY 2004 [INCLUDES SWDIV TRANSMITTAL LETTER BY J. VALENZIA]	ADMIN RECORD INFO REPOSITORY	COMMENTS	008 010	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001112 SWDIV SER 06CM.LB/0540 CORRESP N47408-D-070 00005	10-25-2004 05-21-2004 DO 0070 DO 0070	NAVFAC - SOUTHWEST DIVISION DIVISION J. VALENZIA DTSC - CYPRESS S. HAKIM	RESPONSE TO COMMENTS ON THE DRAFT FINAL PROPOSED PLAN/DRAFT REMEDIAL ACTION PLAN (DOCUMENT WAS NOT SUBMITTED TO ADMINISTRATIVE RECORDS)	ADMIN RECORD INFO REPOSITORY	COMMENTS	012 013	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001097 MODIFICATION NO. 1 & SWDIV NO. 1 & SWDIV SER. PLAN N47408-01-D-8207 00150	06-29-2004 06-07-2004 00069 00069	BATTELLE NAVFAC - NAVFAC - SOUTHWEST DIVISION DIVISION	FINAL WORK PLAN FOR GROUNDWATER SAMPLING, CERCLA STATUTORY FIVE- YEAR REVIEW, [RESPONSE TO COMMENTS FROM DTSC AND RWQCB] (INCLUDES SWDIV TRANSMITTAL LETTER BY J. VALENZIA) [SEE AR# 1096 DRAFT WORK PLAN]. ***COMMENTS: REPLACEMENT PAGES: REVIEW AND COMMENT PAGE, B-VII PAGE, B-13 PAGE, B-14 PAGE, B-20 PAGE, B-21 PAGE AND B-	ADMIN RECORD INFO REPOSITORY REPOSITORY	COMMENTS GW PAH PCB PCE PLAN VOC	003 06A	SOUTHWEST DIVISION - BLDG. 1

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N60258 / 001114 SWDIV SER 06CM.LB/0606 CORRESP NONE 00003	12-02-2004 06-08-2004 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION J. VALENZIA DTSC - CYPRESS S. HAKIM	RESPONSE TO 05/20/04 RESPONSE TO COMMENTS ON THE DRAFT RECORD OF DECISION/REMEDIAL ACTION PLAN AND UPDATED APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) SECTION (W/OUT ENCLOSURE)	ADMIN RECORD INFO REPOSITORY	ARAR COMMENTS	008 010	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001098 NONE PLAN PLAN NONE 00040	06-29-2004 06-16-2004 NONE NONE	CDM FEDERAL PROGRAMS CORP. CORP. NAVFAC - SOUTHWEST DIVISION	2004 DRAFT SITE MANAGEMENT PLAN ANNUAL UPDATE AND QUARTERLY PROGRESS REPORTS FOR 16 JUNE 2004 THROUGH 15 MARCH 2005 (W/ OUT THE QUARTERLY PROGRESS REPORTS). ***COMMENTS: [SEE AR #1140 - 6/16/04 TO 9/15/04 QUARTERLY PROGRESS REPORT; SEE AR #1116 - 9/16/04 TO 12/15/04 QUARTERLY PROGRESS REPORT; SEE AR #1127 - 12/16/04 TO 3/15/05 QUARTERLY PROGRESS REPORT]***	ADMIN RECORD INFO REPOSITORY REPOSITORY	GW PCB PLAN REPORTS VOC		SOUTHWEST DIVISION - BLDG. 1
N60258 / 001101 SWDIV SER 06CM.LB/0687 06CM.LB/0687 MISC N47408-D-070 00018	08-13-2004 07-01-2004 DO 0070 DO 0070	BATTELLE P. JAGUCKI NAVFAC - NAVFAC - SOUTHWEST DIVISION J. VALENZIA	FINAL PROPOSED PLAN/REMEDIAL ACTION PLAN (PP/RAP) AND NOTICE OF EXEMPTION [INCLUDES SWDIV TRANSMITTAL LETTER BY J. VALENZIA]	ADMIN RECORD INFO REPOSITORY REPOSITORY	ARSENIC GW PAH SOIL	012 013	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001110 SWDIV SER 06CM.LB/0759 LTR NONE 00003	10-25-2004 07-22-2004 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION J. VALENZIA CAL-EPA - CYPRESS S. HAKIM	TRANSMITTAL OF RESPONSE TO COMMENTS ON THE DRAFT RECORD OF DECISION/REMEDIAL ACTION PLAN (RESPONSE TO COMMENTS AND DOCUMENT WAS NOT SUBMITTED TO ADMINISTRATIVE RECORDS)	ADMIN RECORD INFO REPOSITORY	COMMENTS	009	SOUTHWEST DIVISION - BLDG. 1

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N60258 / 001100 NONE MISC	08-05-2004 07-25-2004 DO 0005	WATER RESOURCES CONTROL BOARD R. SAMS	RESPONSE TO COMMENTS ON DRAFT RECORD OF DECISION (ROD)/REMEDIAL ACTION PLAN (RAP)	ADMIN RECORD INFO REPOSITORY	COMMENTS	008 010	SOUTHWEST DIVISION - BLDG. 1
N68711-01-D-6009 00001		NAVFAC - SOUTHWEST DIVISION					
N60258 / 001131 SWDIVSER BPMOW.LB/1034 & BPMOW.LB/1034 & SWDIVSER 06CA.JV/0141 RPT N47408-01-D-8207 00300	07-06-2005 08-01-2004 00070 00070	BATTELLE NAVFAC - NAVFAC - SOUTHWEST DIVISION	FINAL RECORD OF DECISION/REMEDIAL ACTION PLAN (ROD/RAP);REPLACEMENT PAGES ISSUED 08/04/2005 CONVERTING DRAFT ROD DATED 02/01/2004 TO FINAL {CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY REPOSITORY	BTEX DCA DCE MTBE PCE RAP ROD VOC	009	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001125 SWDIV SER 06CM.LB/0795 CORRESP NONE 00004	05-17-2005 08-02-2004 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION J. VALENZIA DTSC - CYPRESS S. HAKIM	RESPONSE TO COMMENTS ON THE DRAFT RECORD OF DECISION/REMEDIAL ACTION PLAN (ROD/RAP) [INCLUDES SWDIV TRANSMITTAL LETTER BY J.	ADMIN RECORD INFO REPOSITORY	RAP ROD	008 010	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001108 SWDIV SER 06CM.SL/0817 RPT N47408-01-D-8207 00050	10-06-2004 08-06-2004 00017 00017	BATTELLE P. JAGUCKI NAVFAC - NAVFAC - SOUTHWEST DIVISION	DRAFT FINAL EXPANDED SITE INSPECTION REPORT FOR THE FORMER PLATING SHOP [INCLUDES SWDIV TRANSMITTAL LETTER BY J. VALENZIA]	ADMIN RECORD INFO REPOSITORY	TOC VOC	016 BLDG. 210	SOUTHWEST DIVISION - BLDG. 1

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N60258 / 001137 SWDIV SER 06CM.EB\0925 RESPONSE NONE 00003	09-20-2005 08-09-2004 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION J. VALENZIA DTSC - CYPRESS S. HAKIM	TRANSMITTAL OF RESPONSE TO COMMENTS ON SITE MANAGEMENT PLAN ANNUAL UPDATE AND QUARTERLY PROGRESS REPORTS FOR 16 JUNE 2004 THROUGH 15 MARCH 2005 (W/O ENCLOSURES)	ADMIN RECORD	RESPONSE SMP		SOUTHWEST DIVISION - BLDG. 1
N60258 / 001104 NONE RPT RPT N47408-01-D-8207 00080	08-30-2004 08-27-2004 00025 00025	BATTELLE NAVFAC - NAVFAC - SOUTHWEST DIVISION	THIRD QUARTERLY JUNE 2004 LONG TERM GROUNDWATER MONITORING REPORT {CD COPY ENCLOSED]	ADMIN RECORD INFO REPOSITORY REPOSITORY	DCA DCE GW REPORT SOIL TCE VOC WELLS	001 002	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001105 PROJ. NO. 4- 128023 & SWDIV 128023 & SWDIV SER. RPT N68711-01-D-6008 00030	09-23-2004 08-30-2004 DO 0002 DO 0002	GEOFON, INC. S. BREHMER NAVFAC - NAVFAC - SOUTHWEST DIVISION DIVISION	INSTALLATION REPORT GROUNDWATER MONITORING WELL INSTALLATION [INCLUDES SWDIV TRANSMITTAL LETTER BY J. VALENZIA] {CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY REPOSITORY	GW REPORT TPH VOC WELLS	016 BLDG. 210	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001102 SWDIV SER BPMOW/0029 & BPMOW/0029 & 06CM.LB/0825 PLAN N68711-01-D-6009 00100	08-16-2004 09-01-2004 00005 00005	NAVFAC - PORT HUENEME NAVFAC - NAVFAC - SOUTHWEST DIVISION	FINAL RECORD OF DECISION (ROD)/REMEDIAL ACTION PLAN (RAP) [INCLUDES SWDIV TRANSMITTAL LETTER BY A. LEE AND J. VALENZIA] {CD COPY ENCLOSED}. ***COMMENTS: CHANGE PACKAGE ISSUED FOR DRAFT 8/16/04 TO BE FINAL. REPLACED PAGES: FINAL SPINE, COVER AND FIRST PAGE OF THE ROD/RAP (FIRST PAGE NOT	ADMIN RECORD INFO REPOSITORY REPOSITORY	DCE PAH PCB PLAN SVOC TCE VOC	008 010 OU 4 OU 4	SOUTHWEST DIVISION - BLDG. 1

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N60258 / 001106 SWDIV SER. 06CM.EB/0963 06CM.EB/0963 PLAN NONE 00080	09-23-2004 09-21-2004 NONE NONE	CDM FEDERAL PROGRAM CORP NAVFAC - SOUTHWEST DIVISION	FINAL 2004 SITE MANAGEMENT PLAN ANNUAL UPDATE [INCLUDES SWDIV TRANSMITTAL LETTER BY J. VALENZIA]	ADMIN RECORD INFO REPOSITORY REPOSITORY	PCB PLAN UST VOC		SOUTHWEST DIVISION - BLDG. 1
N60258 / 001109 SWDIV SER. 06CM.LB/1007 LTR NONE 00003	10-20-2004 09-29-2004 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION J. VALENZIA DTSC - CYPRESS S. HAKIM	TRANSMITTAL OF SIGNATORY PAGE TO FINALIZE THE RECORD OF DECISION (ROD)/REMEDIAL ACTION PLAN (RAP) INSTALLATION RESTORATION PROGRAM (IRP) (W/OUT ENCLOSURE). ***COMMENTS: SIGNATORY PAGE TO FINALIZE THE RECORD OF DECISION (ROD) WAS NOT SUBMITTED TO ADMINISTRATIVE RECORDS***	ADMIN RECORD INFO REPOSITORY	PLAN ROD	008 010	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001107 NONE RPT RPT N47408-01-D-8207 00200	10-04-2004 09-30-2004 DO 0069 DO 0069	BATTELLE NAVFAC - NAVFAC - SOUTHWEST DIVISION	FIVE-YEAR REVIEW REPORT FOR INSTALLATION RESTORATION (IR) AND FORMER PALOS VERDES NAVY HOUSING {CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY REPOSITORY	DCB DCE MTBE PAH PCB PCE REPORT SVOC TCE TPH VOC	002 003 004 004 005 006A 011 014 OU 1	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001136 SWDIV SER 06CM/1016 RESPONSE NONE 00003	09-20-2005 09-30-2004 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION J. VALENCIA DTSC - CYPRESS S. HAKIM	RESPONSE TO DEPARTMENT OF HEALTH SERVICES COMMENTS DATED 22 MAY 2002 ON PREVIUOS RADIOLOGICAL INVESTIGATION RELATED REPORTS FOR INSTALLATION RESTORATION (IR) SITES (W/O ENCLOSURE)	ADMIN RECORD	IRA RESPONSE	001 002	SOUTHWEST DIVISION - BLDG. 1

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N60258 / 001140 NONE RPT NONE 00031	12-21-2005 10-08-2004 NONE	NAVFAC - SOUTHWEST DIVISION DIVISION DTSC - CYPRESS	SITE MANAGEMENT PLAN QUARTERLY PROGRESS REPORT FOR 16 JUNE 2004 THROUGH 15 SEPTEMBER 2004	ADMIN RECORD	BCT BRAC RCRA ROD SMP		SOUTHWEST DIVISION - BLDG. 1
N60258 / 001113 SER BPMOW.LB/0041 LTR N47408-D-070 00050	10-27-2004 10-26-2004 DO 0070	BATTELLE P.JAGUCKI BRAC - SAN DIEGO E. BARR	RESPONSE TO COMMENTS ON THE DRAFT RECORD OF DECISION (ROD)	ADMIN RECORD INFO REPOSITORY	COMMENTS ROD	009	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001138 SWDIV SER BPMOW.SO/0077 RESPONSE NONE 00003	09-20-2005 11-03-2004 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION A. LEE DTSC - CYPRESS S. HAKIM	RESPONSE TO DEPARTMENT OF HEALTH SERVICES COMMENTS DATED 22 MAY 2002 ON PREVIUOS RADIOLOGICAL INVESTIGATION RELATED REPORTS FOR INSTALLATION RESTORATION (IR) SITES (W/O ENCLOSURES)	ADMIN RECORD	IR RESPONSE	001 002	SOUTHWEST DIVISION - BLDG. 1
N60258 / 000300 SWDIV SER BPMOW.SAO/0097 CORRESP NONE 00015	09-08-2005 11-10-2004 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION A. LEE DTSC - CYPRESS S. HAKIM	RESPONSES TO COMMENTS (RTC) ON THE DRAFT FINAL EXPANDED SITE INSPECTION (ESI) REPORT FOR THE FORMER PLATING SHOP	ADMIN RECORD INFO REPOSITORY	COMMENTS ESI	016 BLDG. 210	SOUTHWEST DIVISION - BLDG. 1

UIC No. / Rec. Doc. Control No. Record Type Contr./Guid. No. Approx. # Pages	Prc. Date Record Date CTO No. EPA Cat. #	Author Affil. Author Recipient Affil. Recipient	Subject/Comment	Classification	Keywords	Sites	Location FRC Access. No. FRC/SWDIV Box No. FRC Warehouse Loc. CD
N60258 / 001117 SWDIV SER BPMOW.LB/0339 BPMOW.LB/0339 CORRESP NONE 00010	01-31-2005 12-17-2004 NONE NONE	BATTELLE P. JAGUCKI NAVFAC - NAVFAC - SOUTHWEST DIVISION E. BARR	RESPONSE TO COMMENTS ON THE DRAFT RECORD OF DECISION/REMEDIAL ACTION PLAN (ROD/RAP) AND THE REVISED SECTION 10. [INCLUDES SWDIV TRANSMITTAL LETTER BY J. VALENZIA]	ADMIN RECORD INFO REPOSITORY REPOSITORY	COMMENTS GW REMEDIAL ACTION ROD SOIL VOC	009	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001116 NONE RPT RPT	01-12-2005 01-10-2005 NONE NONE	CDM FEDERAL PROGRAMS CORP. CORP.	SITE MANAGEMENT PLAN, QUARTERLY PROGRESS REPORT FOR 16 SEPTEMBER 2004 THROUGH 15 DECEMBER 2004 AT FORMER LONG BEACH NAVAL COMPLEX	ADMIN RECORD INFO REPOSITORY REPOSITORY	OU SVE VOC	001 002 003 003	SOUTHWEST DIVISION - BLDG. 1
NONE 00020		NAVFAC - SOUTHWEST DIVISION				004 005 006A 007 008 009 010 011 012 013 014 016 BLDG. 101 BLDG. 118 OU1	
N60258 / 000337 BRAC SER BPMOW.SO/0315 CORRESP NONE 00004	06-21-2006 01-18-2005 NONE NONE	BRAC PMO WEST J. VALENZIA DTSC - CYPRESS DTSC - CYPRESS S. HAKIM	NAVY SCHEDULE EXTENSION REQUEST FOR SITE 7 DOCUMENTS IN ACCORDANCE WITH THE FEDERAL FACILITIES SITE REMEDIATION AGREEMENT (FFSRA) (W/ ENCLOSURE -	ADMIN RECORD INFO REPOSITORY	ARAR FFSRA	007	SOUTHWEST DIVISION - BLDG. 1

UIC No. / Rec. Doc. Control No. Record Type Contr./Guid. No. Approx. # Pages	Prc. Date Record Date CTO No. EPA Cat. #	Author Affil. Author Recipient Affil. Recipient	Subject/Comment	Classification	Keywords	Sites	Location FRC Access. No. FRC/SWDIV Box No. FRC Warehouse Loc. CD
N60258 / 001132 SWDIVSER BPMOW.SO/0385 BPMOW.SO/0385 RESPONSE NONE 00010	08-15-2005 02-09-2005 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION J. VALENZIA DTSC - CYPRESS S. HAKIM	RESPONSE TO NOVEMBER 10, 2004 RESPONSE TO COMMENTS OF DRAFT FINAL EXPANDED SITE INSPECTION REPORT FOR INSTALLATION RESTORATION SITE FORMER PLATING SHOP	ADMIN RECORD INFO REPOSITORY REPOSITORY	IR RESPONSE SI	016 BLDG. 210	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001123 SWDIV SER BPMOW.PXG/0444 BPMOW.PXG/0444 RPT N68711-01-D-6009 00100	03-10-2005 02-28-2005 00004 00004	BATTELLE P. JAGUCKI BRAC - SAN DIEGO BRAC - SAN DIEGO	QUARTERLY (OCTOBER TO DECEMBER 2004) GROUNDWATER MONITORING REPORT AT THE FORMER HAZARDOUS WASTE STORAGE FACILITY, MODIFICATION NO. 2 [INCLUDES SWDIV TRANSMITTAL LETTER BY J. VALENZIA] {CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY REPOSITORY	GW HAZ WASTE MONITORING	BLDG. 118	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001127 SWDIV SER BPMOW.DLD/0574 RPT NONE 00035	05-25-2005 04-08-2005 NONE NONE	BRAC - SAN DIEGO EPA - CYPRESS	SITE MANAGEMENT PLAN QUARTERLY PROGRESS REPORT FOR DECEMBER 16, 2004 THROUGH MARCH 15, 2005 [INCLUDES SWDIV TRANSMITTAL LETTER BY J. VALENZIA]	ADMIN RECORD INFO REPOSITORY	SMP VOCS		SOUTHWEST DIVISION - BLDG. 1
N60258 / 001126 SWDIV SER BPMOW.PXG/0710 RPT N68711-01-D-6009 00100	05-18-2005 05-12-2005 00004 00004	BATTELLE A. CHEN NAVFAC - NAVFAC - SOUTHWEST DIVISION	JANUARY TO MARCH 2005 QUARTERLY GROUNDWATER MONITORING REPORT AT THE FORMER HAZARDOUS WASTE STORAGE FACILITY, MODIFICATION NO. 2[INCLUDES SWDIV TRANSMITTAL LETTER BY J. VALENZIA]{CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY		BLDG. 118	SOUTHWEST DIVISION - BLDG. 1

UIC No. / Rec. Doc. Control No. Record Type Contr./Guid. No. Approx. # Pages	Prc. Date Record Date CTO No. EPA Cat. #	Author Affil. Author Recipient Affil. Recipient	Subject/Comment	Classification	Keywords	Sites	Location FRC Access. No. FRC/SWDIV Box No. FRC Warehouse Loc. CD
N60258 / 001124 SWDIV SER 06CM.LB/0497 & 06CM.LB/0497 & SWDIV SER 06CM.LB/0759 RPT RPT N68711-01-D-6009 00100	03-10-2005 05-26-2005 00005 00005	BATTELLE P. JAGUCKI BRAC - SAN DIEGO BRAC - SAN DIEGO	FINAL FIRST (APRIL 2004) AND SECOND (JULY 2004) QUARTERLY GROUNDWATER MONITORING REPORT {CD COPY OF APPENDICES A-E ENCLOSED} REPLACEMENT PAGES ISSUED CONVERT DRAFT REPORT DATED 01 MARCH 2005 TO FINAL DOCUMENT	ADMIN RECORD INFO REPOSITORY REPOSITORY	DCE GW MONITORING PAH PCE TCE VOC	008 009 010 010 011 012 013	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001135 NONE RPT NONE 00150	09-06-2005 06-15-2005 NONE	CDM EPA - CYPRESS	DRAFT 2005 SITE MANAGEMENT PLAN (SMP) ANNUAL UPDATE	ADMIN RECORD INFO REPOSITORY	PCB SMP VC VOC		SOUTHWEST DIVISION - BLDG. 1
N60258 / 001130 SWDIV SER BPMOW.SO/0847 BPMOW.SO/0847 RPT N47408-01-D-8207 00130	06-29-2005 06-27-2005 00017 00017	BATTELLE C. COONFARE NAVFAC - NAVFAC - SOUTHWEST DIVISION	FINAL EXPANDED SITE INSPECTION (SI) REPORT FOR THE FORMER PLATING SHOP {CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY REPOSITORY	DOC SI SVOC VOC	016 BLDG. 210	SOUTHWEST DIVISION - BLDG. 1
N60258 / 000297 SWDIV SER BPMOW.LB/979 RPT N47408-01-D-8207 00500	07-27-2005 07-01-2005 00070	BATTELLE NAVFAC - SOUTHWEST DIVISION	DRAFT RECORD OF DECISION/REMEDIAL ACTION PLAN (ROD/RAP)	ADMIN RECORD INFO REPOSITORY	DDD DDE DDT HCH PAH PCB RAP ROD TCE TPH-D TRPH VOC	011 012 013	SOUTHWEST DIVISION - BLDG. 1

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N60258 / 001133 SWDIVSER BPMOW.JV/1023 BPMOW.JV/1023 LTR NONE 00003	08-19-2005 08-02-2005 NONE NONE	NAVFAC - SOUTHWEST DIVISION DIVISION J. VALENZIA DTSC - CYPRESS S. HAKIM	ANNOUNCEMENT OF NEW BASE REALIGNMENT AND CLOSURE (BRAC) ENVIRONMENTAL COORDINATOR ANDREA ESPINOZA SERVING AS THE FEDERAL FACILITIES SITE REMEDIATION AGREEMENT (FFSRA) PROJECT MANAGER (INCLUDES DELIVERABLE EXTENTION REQUEST FOR VARIOUS IR SITES)	ADMIN RECORD INFO REPOSITORY REPOSITORY	BRAC FFSRA IR	007 008 010 010 012 013 016	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001134 SWDIV SER 06CM.LB/1148 06CM.LB/1148 RPT N68711-01-D-6009 00150	09-06-2005 08-31-2005 00005 00005	BATTELLE S. DESILVA NAVFAC - NAVFAC - SOUTHWEST DIVISION	FIRST ANNUAL GROUNDWATER MONITORING REPORT FOR INSTALLATION RESTORATION SITES [CD COPY	ADMIN RECORD INFO REPOSITORY REPOSITORY	DCE IRP PAH PCE TCE VOC	008 009 010 010 011 012 013	SOUTHWEST DIVISION - BLDG. 1
N60258 / 000311 SWDIV SER BPMOW.DSG/1218 RPT N68711-01-D-6009 00100	09-19-2005 09-16-2005 00004 00004	BATTELLE P. JAGUCKI NAVFAC - NAVFAC - SOUTHWEST DIVISION	FINAL APRIL - JUNE 2005 QUARTERLY GROUNDWATER MONITORING REPORT FOR THE FORMER HAZARDOUS WASTE STORAGE FACILITY, MODIFICATION NO. 2 {CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY	C1	BLDG. 118	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001139 PROJECT NO. 4- 12802 12802 RPT N68711-01-D-6008 00150	10-19-2005 10-14-2005 DO 0002 DO 0002	GEOFON, INC A. FAHEEM NAVFAC - NAVFAC - SOUTHWEST DIVISION	FINAL QUARTERLY GROUNDWATER MONITORING REPORT, QUARTERLY GROUNDWATER SMAPLES COLLECTED IN JUNE 2005 AT THE FORMER GASOLINE STATION BUILDING SITE (CD COPY ENCLOSED)	ADMIN RECORD INFO REPOSITORY REPOSITORY	BTX&E GW MTBE MTBX ORP TPH	BLDG. 101	SOUTHWEST DIVISION - BLDG. 1

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N60258 / 001145 NONE RPT RPT N68711-01-D-6009 00080	02-17-2006 10-31-2005 00005 00005	BATTELLE S. SILVA BRAC BRAC	FIFTH QUARTER GROUNDWATER MONITORING REPORT (CD COPY ENCLOSED)	ADMIN RECORD INFO REPOSITORY REPOSITORY	BGS DCE DO DTW IDWMP	008 009 010 010 011 012	SOUTHWEST DIVISION - BLDG. 1
					NTU ORP PAH PCE TCE TOC VOC	013	
N60258 / 001144 BRAC SER BPMOW.ELB\1351 BPMOW.ELB\1351 LTR NONE 00001	02-17-2006 11-01-2005 NONE NONE	BRAC A. ESPINOZA DTSC - CYPRESS DTSC - CYPRESS S. HAKIM	TRANSMITTAL OF FIFTH QUARTER GROUNDWATER MONITORING REPORT (SEE AR # 1145 - FIFTH QUARTER GROUNDWATER MONITORING REPORT)	ADMIN RECORD INFO REPOSITORY REPOSITORY	COP DCE DO IDWDTW NTU	008 009 010 010 011 012	SOUTHWEST DIVISION - BLDG. 1
					ORP PAH PCE TCE VOC	013	
N60258 / 001141 BRAC SER BPMOW.LB\0033 BPMOW.LB\0033 RPT N68711-01-D-6009 00150	01-25-2006 01-19-2006 00005 00005	BATTELLE BRAC BRAC	LAST QUARTER GROUNDWATER MONITORING REPORT (6TH QUARTER DATA) (INCLUDES BRAC TRANSMITTAL LETTER BY A. ESPINOZA) [CD COPY ENCLOSED]	ADMIN RECORD INFO REPOSITORY REPOSITORY	COC COPC DCE DOP IDWMP	008 009 010 010 011 012	SOUTHWEST DIVISION - BLDG. 1
					NTU ORP PAH TCE VC VOC	013	

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N60258 / 001142 NONE RPT RPT N68711-01-D-6009 00075	02-17-2006 02-07-2006 00004 00004	BATTELLE B. SASS BRAC BRAC	ANNUAL GROUNDWATER MONITORING REPORT, FORMER HAZARDOUS WASTE STORAGE FACILITY (CD COPY ENCLOSED) [SEE AR # 1143 TRANSMITTAL BY A. ESPINOZA]	ADMIN RECORD INFO REPOSITORY REPOSITORY	CL CRO CRP DO FE HSA IDWMP ORP PPE PQL PRG PVC TSDF	BLDG. 118	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001143 BRAC SER BPMOW.SG/0097 BPMOW.SG/0097 LTR NONE 00003	02-17-2006 02-07-2006 NONE NONE	BRAC A. ESPINOZA DTSC - CYPRESS DTSC - CYPRESS A. YUE	TRANSMITTAL OF ANNUAL GROUNDWATER MONITORING REPORT, FORMER HAZARDOUS WASTE STORAGE FACILITY (SEE AR # 1142 - ANNUAL GROUNDWATER MONITORING REPORT FORMER HAZARDOUS WASTE STORAGE FACILITY]	ADMIN RECORD INFO REPOSITORY REPOSITORY	CL CRO CRP DO FE ORP PVC SO TSD	BLDG. 118	SOUTHWEST DIVISION - BLDG. 1
N60258 / 001146 NONE RPT N68711-01-D-6009 00050	02-27-2006 02-14-2006 DO 0005	BATTELLE P. JAGUCKI BRAC A. ESPINOZA	7TH QUARTER GROUNDWATER MONITORING DATA SUMMARY	ADMIN RECORD INFO REPOSITORY	COCS COPCS DCE IR PCE TCE VC	008 009 010 011 013	SOUTHWEST DIVISION - BLDG. 1

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N60258 / 001147 NONE RESPONSE RESPONSE N47408-01-D-8207 00019	03-14-2006 03-01-2006 00070 00070	BATTELLE P. JAGUCKI BRAC BRAC E. BARR	RESPONSE TO COMMENTS ON DRAFT RECORD OF DECISION/REMEDIAL ACTION PLAN (ROD/RAP) FOR INSTALLATION RESTORATION PROGRAM SITES	ADMIN RECORD INFO REPOSITORY REPOSITORY	BRAC IR RESPONSE ROD	011 012 013 013	SOUTHWEST DIVISION - BLDG. 1
N60258 / 000313 BRAC SER BPMOW.LB/0304 BPMOW.LB/0304 RESPONSE NONE 00002	05-31-2006 03-30-2006 NONE NONE	BRAC PMO WEST A. ESPINOZA DTSC - CYPRESS DTSC - CYPRESS J. RICH	.TRANSMITTAL OF RESPONSES TO COMMENTS ON THE FIFTH AND SIXTH QUARTERLY GROUNDWATER MONITORING REPORTS (W/OUT ENCLOSURE) [SEE AR #314 - RESPONSES	ADMIN RECORD INFO REPOSITORY REPOSITORY	COMMENTS GW MONITORING RESPONSE	008 009 010 010 011 012 013	SOUTHWEST DIVISION - BLDG. 1
N60258 / 000314 NONE RESPONSE RESPONSE N68711-01-D-6009 00002	05-31-2006 04-07-2006 DO 0005 DO 0005	BATTELLE P. JAGUCKI BRAC PMO WEST BRAC PMO WEST A. ESPINOZA	RESPONSE TO COMMENTS ON THE FIFTH AND SIXTH QUARTER GROUNDWATER MONITORING REPORTS (SEE AR #313 - BRAC PMO WEST TRANSMITTAL LETTER BY A. ESPINOZA)	ADMIN RECORD INFO REPOSITORY REPOSITORY	COMMENTS GW MONITORING RESPONSE	008 009 010 010 011 012	SOUTHWEST DIVISION - BLDG. 1
N60258 / 000345 BRAC SER 06CA.LB/0338 CORRESP NONE 00002	06-21-2006 04-10-2006 NONE NONE	BRAC PMO WEST A. ESPINOZA DTSC - CYPRESS DTSC - CYPRESS J. RICH	TRANSMITTAL OF SITE MANAGEMENT PLAN (SMP), QUARTERLY PROGRESS REPORT FOR DECEMBER 16, 2005 THROUGH MARCH 15, 2006 (W/OUT ENCLOSURE) [SEE AR# 347 - SITE MANAGEMENT PLAN, QUARTERLY	ADMIN RECORD INFO REPOSITORY	SMP		SOUTHWEST DIVISION - BLDG. 1

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N60258 / 000347 NONE RPT RPT NONE 00025	06-21-2006 04-10-2006 NONE NONE	BRAC PMO WEST DTSC - CYPRESS DTSC - CYPRESS	SITE MANAGEMENT PLAN (SMP), QUARTERLY PROGRESS REPORT FOR DECEMBER 16, 2005 THROUGH MARCH 15, 2006 [SEE AR# 345 - BRAC TRANSMITTAL LETTER BY A. ESPINOZA]	ADMIN RECORD INFO REPOSITORY	SMP		SOUTHWEST DIVISION - BLDG. 1
N60258 / 000317 BRAC SER BPMOW.LB/0383 BPMOW.LB/0383 CORRESP NONE 00019	05-31-2006 04-28-2006 NONE NONE	BRAC PMO WEST A. ESPINOZA DTSC - CYPRESS DTSC - CYPRESS J. RICH	TRANSMITTAL OF DRAFT FINAL RECORD OF DECISION/REMEDIAL ACTION PLAN (ROD/RAP) [INCLUDES RESPONSES TO COMMENTS ON DRAFT ROD/RAP] {SEE AR #318 - DRAFT FINAL ROD/RAP}	ADMIN RECORD INFO REPOSITORY REPOSITORY	COMMENTS RAP RESPONSE ROD	011 012 013 013	SOUTHWEST DIVISION - BLDG. 1
N60258 / 000318 NONE RPT RPT N47408-01-D-8207 00300	05-31-2006 05-01-2006 00070 00070	BATTELLE BRAC PMO WEST BRAC PMO WEST	DRAFT FINAL RECORD OF DECISION/REMEDIAL ACTION PLAN (ROD/RAP) [SEE AR #317 - BRAC PMO WEST TRANSMITTAL LETTER BY A.	ADMIN RECORD INFO REPOSITORY REPOSITORY	PAH PCB RAP ROD SVOC TPH-D TRPH VOC	011 012 013 013	SOUTHWEST DIVISION - BLDG. 1
N60258 / 000358 NONE RPT	06-21-2006 06-15-2006 DO 0111	CDM FEDERAL PROGRAMS CORP.	SITE MANAGEMENT PLAN (SMP), ANNUAL UPDATE [SEE AR# 349 - BRAC TRANSMITTAL LETTER BY J. HILL]	ADMIN RECORD INFO REPOSITORY	SMP		SOUTHWEST DIVISION - BLDG. 1
N68711-00-D-0004 00050		DTSC - CYPRESS					

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N60258 / 000359 BRAC SER BPMOW.DSG/0525 CORRESP NONE 00001	06-26-2006 06-15-2006 NONE NONE	BRAC PMO WEST J. HILL VARIOUS VARIOUS AGENCIES	TRANSMITTAL OF WELL ABANDONMENT WORK PLAN, GROUNDWATER MONITORING WELL ABANDONMENT AT THE FORMER PLATING SHOP (W/OUT ENCLOSURE) [SEE AR# 361 - WELL ABANDONMENT WORK PLAN]	ADMIN RECORD INFO REPOSITORY	GW WELLS	016 BLDG. 210	SOUTHWEST DIVISION - BLDG. 1
N60258 / 000361 GEOFON PROJECT NO. 4-12802 NO. 4-12802 RPT N68711-01-D-6008 00022	06-26-2006 06-15-2006 DO 0002 DO 0002	GEOFON, INC. S. BREHMER BRAC PMO WEST BRAC PMO WEST	WELL ABANDONMENT WORK PLAN, GROUNDWATER MONITORING ABANDONMENT AT THE FORMER PLATING SHOP [SEE AR# 359 - BRAC TRANSMITTAL LETTER BY J. HILL]	ADMIN RECORD INFO REPOSITORY REPOSITORY	GW HSP PVC TRPH WELLS	016 BLDG. 210	SOUTHWEST DIVISION - BLDG. 1
N60258 / 000349 BRAC SER 06CA.LB\0516 CORRESP NONE 00003	06-21-2006 06-16-2006 NONE NONE	BRAC PMO WEST J. HILL DTSC - CYPRESS DTSC - CYPRESS J. RICH	TRANSMITTAL OF SITE MANAGEMENT PLAN (SMP), ANNUAL UPDATE FOR JUNE 16, 2005 THROUGH JUNE 15, 2006 (W/OUT ENCLOSURE) [SEE AR# 358 - SITE MANAGEMENT PLAN, ANNUAL UPDATE]	ADMIN RECORD INFO REPOSITORY	SMP		SOUTHWEST DIVISION - BLDG. 1
N60258 / 000364 BRAC SER BPMOW.LB/0592 BPMOW.LB/0592 RESPONSE NONE 00016	07-20-2006 07-06-2006 NONE NONE	BRAC PMO WEST J. HILL DTSC - CYPRESS DTSC - CYPRESS J. RICH	TRANSMITTAL OF RESPONSES TO COMMENTS ON DRAFT FINAL RECORD OF DECISION (ROD)/REMEDIAL ACTION PLAN (W/ ENCLOSURE)	ADMIN RECORD INFO REPOSITORY REPOSITORY	GW ROD SOIL	011 012 013 013	SOUTHWEST DIVISION - BLDG. 1

Total Estimated Record Page Count: 77,446

Total - Administrative Records: 908

APPENDIX C

Public Notices, Rosters of Public Meeting Attendees, Public Meeting Transcripts, and Public Comments and Department of the Navy Responses

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Public Notices, Rosters of Public Meeting Attendees, Public Meeting Transcripts, and Public Comments and Department of the Navy Responses

**LONG BEACH
PRESS-TELEGRAM**

**604 Pine Avenue
Long Beach, CA 90844**

**PROOF OF PUBLICATION
(2015.5 C.C.P.)**

STATE OF CALIFORNIA

County of Los Angeles

I am a citizen of the United States, and a resident of the county aforesaid; I am over the age of eighteen years, and not a party to or interested in the above-entitled matter. I am the principal clerk of the printer of the Long Beach Press-Telegram, a newspaper of general circulation printed and published daily in the City of Long Beach, County of Los Angeles, and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Los Angeles, State of California, on the date of March 21, 1934, Case Number 370512. The notice, of which the annexed is a true printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to wit:

Jan. 19, 20, 21, 2002

I declare under penalty of perjury that the foregoing is true and correct.

Executed at Long Beach, LA Co. California

this 21 day of January, 20 02
Priscilla Flores
signature

**FORMER LONG BEACH
NAVAL SHIPYARD**

**Proposed Plan/Draft Remedial Action
Plan and Notice of Exemption
For Installation Restoration
Sites 8, 10, and 11**

The Southwest Division Naval Facilities Engineering Command invites the public to comment on a plan to address three areas of soil and groundwater contaminated with metals and other substances at the Former Long Beach Naval Shipyards in Long Beach, California. The Plan is presented in a document titled "Proposed Plan/Draft Remedial Action Plan (PP/RAP) for Installation Restoration (IR) Program Sites 8, 10, and 11," which is available for public review and comment from January 16 through February 15, 2002. A public meeting is also scheduled for Wednesday, January 23 (see details below).

The PP/RAP summarizes past actions and investigations that the Navy has performed at IR Sites 8, 10, and 11. It also provides the results of the risk assessments as well as information about all remedial action alternatives considered at these three sites. Additionally, the PP/RAP presents a preferred alternative and the basis for the preferred remedy for soil and groundwater. The Remedial Investigation and Feasibility Study reports, which are also available for review and comment, provide the technical information used to evaluate each of these sites. These sites do not currently pose a threat to human health or the environment, but need to be addressed to prevent future problems.

The Navy proposes institutional controls and groundwater monitoring as the preferred alternative at IR Sites 8, 10, and 11 based on soil and groundwater sampling and human health risk assessment results. Institutional controls in the form of land use restrictions will be implemented to restrict future use of the property to ensure that human health and the environment remain protected. Additionally, groundwater monitoring will ensure that contaminants identified in the groundwater do not reach surface water in concentrations that exceed the California Ocean Plan limits.

Written comments for the PP/RAP should be postmarked no later than February 15, 2002 and mailed to: Mr. Lee Saunders, Environmental Public Affairs Officer, Southwest Division Naval Facilities Engineering Command, 1220 Pacific Highway, San Diego, CA 92132-5190, (619) 532-0907 - phone; (619) 532-0940 - fax. All comments will be considered before the selection of the final remedial action alternative.

The California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) has determined that the proposed remedy for IR Sites 8, 10, and 11 will not have a significant effect on the environment. Therefore, it is exempt from the detailed environmental analysis required by the California Environmental Quality Act (CEQA). DTSC's decision is documented in a Notice of Exemption, which is available for public review during the Proposed Plan/Draft RAP 30-day comment period. Comments on the Notice of Exemption should be postmarked by February 15, 2002 and mailed or emailed to: Ms. Sue Hakim, DTSC, 3790 Corporate Avenue, Cypress, California 90630, shakim@dtsc.ca.gov, (714) 484-6381.

The PP/RAP, Notice of Exemption, and other documents that pertain to IR Sites 8, 10, and 11 are available for public review at the Long Beach Naval Complex Information Repository located at the Long Beach Public Library, Government Publications Section (located on the lower level), 101 Pacific Avenue, Long Beach, (562) 570-7500. Documents may also be viewed at the Administrative Record located at 1220 Pacific Highway, San Diego, CA. To arrange a time to review the documents, contact Ms. Diane Silva, Records Coordinator, (619) 532-3676, Mon-Fri, 7:00 a.m. - 3:30 p.m.

PUBLIC MEETING
Wednesday, January 23, 2002
Port of Long Beach
Fifth Floor Training Room
925 Harbor Plaza
Long Beach, CA 90802
6:30 PM

The public is invited to participate in the public meeting on the Proposed Plan/Draft Remedial Action Plan for Sites 8, 10, and 11. The public will have the opportunity to talk directly with Navy and regulatory agency representatives. A formal presentation will also be made followed by an open question session. The public will have the opportunity to provide oral and written comments on the investigation results and the Navy's proposal.

For further information about this meeting, please contact Mr. Lee Saunders at (619) 532-8100.
Pub. Jan. 19, 20, 21, 2002
(31)PT(56852/582406)

**LONG BEACH
PRESS-TELEGRAM**

604 Pine Avenue
Long Beach, CA 90844

**PROOF OF PUBLICATION
(2015.5 C.C.P.)**

**STATE OF CALIFORNIA
County of Los Angeles**

I am a citizen of the United States, and a resident of the county aforesaid; I am over the age of eighteen years, and not a party to or interested in the above-entitled matter. I am the principal clerk of the printer of the Long Beach Press-Telegram, a newspaper of general circulation printed and published daily in the City of Long Beach, County of Los Angeles, and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Los Angeles, State of California, on the date of March 21, 1934, Case Number 370512. The notice, of which the annexed is a true printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to wit:

Jan. 19, 20, 21, 2002

I declare under penalty of perjury that the foregoing is true and correct.

Executed at Long Beach, LA Co. California

this 21 day of January 20 02
Pussilla Flores
signature

**FORMER LONG BEACH
NAVAL SHIPYARD**

**Proposed Plan/Draft Remedial Action
Plan and Notice of Exemption
For Installation Restoration
Sites 8, 10, and 11**

The Southwest Division Naval Facilities Engineering Command invites the public to comment on a plan to address three areas of soil and groundwater contaminated with metals and other substances at the Former Long Beach Naval Shipyards in Long Beach, California. The Plan is presented in a document titled "Proposed Plan/Draft Remedial Action Plan (PP/RAP) for Installation Restoration (IR) Program Sites 8, 10, and 11," which is available for public review and comment from January 16 through February 15, 2002. A public meeting is also scheduled for Wednesday, January 23 (see details below).

The PP/RAP summarizes past actions and investigations that the Navy has performed at IR Sites 8, 10, and 11. It also provides the results of the risk assessments as well as information about all remedial action alternatives considered at these three sites. Additionally, the PP/RAP presents a preferred alternative and the basis for the preferred remedy for soil and groundwater. The Remedial Investigation and Feasibility Study reports, which are also available for review and comment, provide the technical information used to evaluate each of these sites. These sites do not currently pose a threat to human health or the environment, but need to be addressed to prevent future problems.

The Navy proposes institutional controls and groundwater monitoring as the preferred alternative at IR Sites 8, 10, and 11 based on soil and groundwater sampling and human health risk assessment results. Institutional controls in the form of land use restrictions will be implemented to restrict future use of the property to ensure that human health and the environment remain protected. Additionally, groundwater monitoring will ensure that contaminants identified in the groundwater do not reach surface water in concentrations that exceed the California Ocean Plan limits.

Written comments for the PP/RAP should be postmarked no later than February 15, 2002, and mailed to: Mr. Lee Saunders, Environmental Public Affairs Officer, Southwest Division Naval Facilities Engineering Command, 1220 Pacific Highway, San Diego, CA 92132-5190, (619) 532-0907 phone, (619) 532-0940 fax. All comments will be considered before the selection of the final remedial action alternative.

The California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) has determined that the proposed remedy for IR Sites 8, 10, and 11 will not have a significant effect on the environment. Therefore, it is exempt from the detailed environmental analysis required by the California Environmental Quality Act (CEQA). DTSC's decision is documented in a "Notice of Exemption," which is available for public review during the Proposed Plan/Draft RAP 30-day comment period. Comments on the Notice of Exemption should be postmarked by February 15, 2002, and mailed or emailed to: Ms. Sue Hakim, DTSC, 5796 Corporate Avenue, Cypress, California 90630, shakim@dtsc.ca.gov, (714) 484-5381.

The PP/RAP, Notice of Exemption, and other documents that pertain to IR Sites 8, 10, and 11 are available for public review at the Long Beach Naval Complex Information Repository located at the Long Beach Public Library, Government Publications Section (located on the lower level), 101 Pacific Avenue, Long Beach, (562) 570-7500. Documents may also be viewed at the Administrative Record located at 1220 Pacific Highway, San Diego, CA. To arrange a time to review the documents, contact Ms. Diane Silva, Records Coordinator, (619) 532-3676, Mon-Fri: 7:00 a.m. - 3:30 p.m.

PUBLIC MEETING
Wednesday, January 23, 2002
Port of Long Beach
Fifth Floor Training Room
925 Harbor Plaza
Long Beach, CA 90802
6:30 PM

The public is invited to participate in the public meeting on the Proposed Plan/Draft Remedial Action Plan for Sites 8, 10, and 11. The public will have the opportunity to talk directly with Navy and regulatory agency representatives. A formal presentation will also be made followed by an open question session. The public will have the opportunity to provide oral and written comments on the investigation results and the Navy's proposal.

For further information about this meeting, please contact Mr. Lee Saunders at (619) 532-3100. Pub: Jan. 19, 20, 21, 2002 (31)PT(56852/582406)

**LONG BEACH NAVAL COMPLEX PUBLIC MEETING
SIGN-IN SHEET FOR JANUARY 23, 2002**

RAB MEMBER	EMAIL ADDRESS PLEASE VERIFY OR ENTER E-MAIL ADDRESS	INITIAL IF PRESENT	RAB MEMBER	EMAIL ADDRESS PLEASE VERIFY OR ENTER E-MAIL ADDRESS	INITIAL IF PRESENT
Henry Brice			Howard Hargrove	h.h.hargrove@southside.net	HH
Mary Butler	Mary.L.Butler2@boeing.com		Tom Johnson	tjohnson@polb.com	TJ
Doug Carstens			Lloyd Klock		
Carol Churchill			Joseph Petway	Jkpetway@aol.com	
Greysen Edw. Cooley			Darwin Thorpe	MaryandDarwin@aol.com	HT
Ed Dienzo	dienzoem@efdswnavfac.navy.mil		Kim Foreman	kforeman@dtsc.ca.gov	KF
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Martin Hausladen	hausladen.martin@epa.gov	MH	Jennifer Valenzia	valenziaj@efdswnavfac.navy.mil	JV
J. Carlos Leal	Carlosleal2000@yahoo.com	CL			

1 FORMER LONG BEACH NAVAL SHIPYARD
2 PUBLIC MEETING FOR SITES 8, 10, AND 11
3 PROPOSED PLAN/DRAFT REMEDIAL ACTION PLAN
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16 REPORTER'S TRANSCRIPT OF PROCEEDINGS:

17 PUBLIC MEETING AND PRESENTATION
18 WEDNESDAY, JANUARY 23, 2002
19 6:39 P.M.
20
21
22
23

24 Reported by: THOMAS R. JOHNSEY

25 CSR No. 7635

1 Meeting and presentation given at Port of Long
2 Beach Building, Fifth Floor Training Room, 925 Harbor
3 Plaza, Long Beach, California 90802, on Wednesday,
4 January 23, 2002, at 6:39 p.m., before THOMAS R.
5 JOHNSEY, CSR No. 7635

6
7 APPEARANCES:

8 REMEDIAL PROJECT MANAGER SOUTHWEST DIVISION, NAVAL
9 FACILITIES ENGINEERING COMMAND:

10 JENNIFER VALENZIA

11 1220 Pacific Highway

12 San Diego, California 92132-5190

13 (619) 532-0919

14 BATTELLE MEMORIAL INSTITUTE:

15 PHIL JAGUCKI

16 505 King Avenue

17 Columbus, Ohio 43201

18 (614) 424-7081

19 BECHTEL NATIONAL, INC.:

20 CAROL RAYKOWSKI

21 COMMUNITY RELATIONS, NAVY CLEAN

22 1230 Columbia Street

23 Suite 400

24 San Diego, California 92101

25 (619) 744-3031

1 ALSO PRESENT:

2 PUBLIC COMMUNITY MEMBERS

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I N D E X

SPEAKERS

PAGE

MS. VALENZIA

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22

MR. JAGUCKI

8

1 LONG BEACH, CALIFORNIA; WEDNESDAY, JANUARY 23, 2002

2 6:39 P.M.

3
4 MS. VALENZIA: Welcome to the public meeting for
5 installation restoration Sites 8, 10, and 11. We are
6 going to be presenting the proposed plan and draft
7 remedial action plan for these sites that are located on
8 the Long Beach Naval Shipyard. My name is Jennifer
9 Valenzia. I'm a project manager for the Navy. The
10 purpose of tonight's meeting is to give you, the public,
11 the opportunity to comment on the work that's been
12 completed at three sites to date. We will be soliciting
13 your input on future environmental action at Sites 8, 10,
14 and 11. The information presented tonight is the result
15 of a collaborative effort between the BCT, which is the
16 Bracks (phonetic) Cleanup Team, and the Restoration
17 Advisory board. The BCT is comprised of the Navy, the
18 Department of Toxic Substances Control, The Regional
19 Water Quality Control Board, Port of Long Beach, and the
20 Navy -- did I already say that?

21 MR. JAGUCKI: The Navy, yes.

22 MS. VALENZIA: Oh, yeah, and the Environmental
23 Protection Agency, the EPA. I forgot that.

24 The Restoration Advisory Board consists of
25 interested members of the community. The proposed plan

1 was mailed to Long Beach residents, as well as other
2 interested parties about two weeks ago. The proposed
3 plan summarizes the history at IR Sites 8, 10, and 11;
4 and it includes the form reviews, why they were selected
5 for further environmental evaluation, as well as the
6 results of subsequent investigations. The technical
7 documents that support the proposed plan, that support
8 the contents and the conclusions presented in this
9 proposed plan, are also available for your review. These
10 documents can be found at the information repositories
11 located at the Long Beach Public Library, as well as the
12 Administrative Record that's located down in San Diego.
13 The specific locations of these two repositories are
14 presented -- are available in the proposed plan.

15 Tonight's presentation will take you step by
16 step through the regulatory process. We will summarize
17 the results of our studies and present the future
18 environmental actions that were evaluated for each of
19 these sites. We will also present what we believe to be
20 the best choice for future actions at these sites and
21 why.

22 Before we get started with tonight's
23 presentation, I'd like to go over the format of the
24 meeting.

25 We have a court reporter here that will record

1 the contents of this meeting for the official record.

2 Please hold your questions until the end of the
3 presentation. At the end of the presentation, we will
4 have an formal question-and-answer period. At that time
5 your questions that you offer at that time will not be
6 included in the official record, and the purpose of this
7 is to clarify any specific points of the presentation.

8 After we finish with the informal
9 question-and-answer period, we will open up for formal
10 comments. These comments will be recorded on the
11 official record, and responses will be provided in
12 writing in a responsiveness summary that will be included
13 in the Record of Decision. The Record of Decision will
14 document the final remedies selected for these sites. If
15 you choose not to comment verbally tonight, you also have
16 an opportunity to comment. You are -- also have the
17 ability to provide written comments. You can provide
18 written comments on a form that is included in the
19 proposed plan as an insert. You can fill out this form
20 and give it to Carol Raykowski, as Community Relations
21 Specialist, who is sitting near the door in the back of
22 the room. If you choose not to comment tonight, you
23 still can mail your comments to the address that's
24 provided on this form between -- anytime between now and
25 February 15th. This public review and comment period is

1 your opportunity to provide input on the selected remedy
2 for sites 8, 10, and 11.

3 I'm going to turn the presentation over to Phil
4 Jagucki. He is from Battelle Memorial. He has been a
5 contact there working on this project over the last five
6 years.

7 MR. JAGUCKI: Thanks for the introduction. Let's go
8 to the first slide.

9
10 PRESENTATION
11

12 MR. JAGUCKI: The purpose of tonight's meeting is --
13 as Jennifer indicated, is to present the preferred
14 remedial alternative in a public forum. This, again,
15 provides the public an opportunity to comment on the
16 selected alternative on all the work completed to date,
17 and this fulfills the regulatory requirement through the
18 process that we're following. I'll -- I'll go through
19 the process a little -- in a little more detail later in
20 the presentation.

21 Next slide, please.

22 So what I'm going to cover tonight are the site
23 locations, provide an overview of the projects, cover a
24 little bit of the site background and characteristics
25 that were identified through the course of the projects.

1 I want to talk about how we came up with the remedial
2 action objectives; and then I'll cover a summary of the
3 alternatives, how we evaluated those -- those
4 alternatives, and then we'll open the floor for public
5 comment.

6 The sites we're going to cover tonight -- just
7 to get everyone oriented, Site 8's up here (indicating).
8 This is Ocean Boulevard back along this way; and this is
9 Dry Dock No. 1, if you're familiar with the -- the area.
10 Site 10 here and Site 11 include two areas: The small
11 area up here and the larger area just below it
12 (indicating).

13 As Jennifer indicated, this is a cooperative
14 effort -- U.S. Navy; Port of Long Beach; lead agencies
15 for the State of California, California Department of
16 Toxic Substances Control, the Regional Water Quality
17 Control Board, U.S. Environmental Protection Agency,
18 Restoration Advisory Board, and the public.

19 The process that we followed was done under the
20 Comprehensive Environmental Response, Compensation, and
21 Liability Act, referred to as CERCLA, supervisors. This
22 included several preliminary steps before we got here,
23 such as a preliminary assessment and site inspection.
24 These were done just to determine whether there was
25 additional investigation needed at the site. The real

1 specific site-investigation-work began with remedial
2 investigation, and that -- that document included, among
3 other things, a human-health-risk assessment. After that
4 a feasibility study was completed. When that was done,
5 we were to evaluate the alternatives and identify which
6 alternative might be the best choice; and a proposed plan
7 was prepared which identified -- clearly identified that
8 alternative as the preferred remedial alternative.

9 The remaining steps of the reason we're here
10 tonight is to have a public meeting, and that's to accept
11 or modify the preferred remedial alternative to the --
12 the next major document will be the Record of Decision
13 and then the implementation of remedial action.

14 As I indicated earlier, there's a formal process
15 established to go through the investigation and
16 feasibility study. In the feasibility study, there are
17 nine criteria that are used to evaluate the alternatives.
18 The first of these is that the selected alternative needs
19 to be protective of human health and the environment.
20 The second is that it meet regulatory requirements that
21 would be effective over the long term. Fourth is that it
22 reduce the toxicity, mobility, or volume of contaminants.
23 It has to be evaluated for short-term effectiveness
24 and -- that's long-term effective is fairly implicit in
25 what it says. The alternative should be effective to be

1 more permanent. Short-term effectiveness refers to
2 concerns that might arise during implementation of
3 remedial action. Implementability is considered along
4 with cost. And then the last two items are state
5 acceptance and community acceptance. The check mark here
6 along the state acceptance is that feasibility study has
7 been accepted, and the feasibility study ranks the
8 alternatives. We're part way through the process. When
9 we get through -- finish with the study, we get these
10 last two boxes checked off, which are state and community
11 acceptance.

12 Next slide, please.

13 Two alternatives that we evaluated for this site
14 were no further actions -- alternative two was --
15 included institutional controls, which would be
16 implemented in the form of the land covenants and
17 groundwater monitoring. I'll cover each over those in a
18 little more detail a little bit later.

19 Just some general background, the site -- or the
20 general area is the Long Beach Naval complex. That
21 includes the Long Beach Naval Shipyard and Naval Station
22 in Long Beach. This is all now part of the Port of Long
23 Beach, or most of it anyway.

24 Again, the specific sites that we're dealing
25 with here are Sites 8, 10, and 11. Site 8ight is really

1 the parking lot of Building 10. Site 10 is also referred
2 to as Lot H, and Site 11 is the hillside east of Dry Dock
3 1.

4 The parking lot of Building 210 was an
5 electronic weapons shop. The documentation in the
6 remedial investigation indicated that between 1974 and
7 1980 there were several waste streams that came out of
8 that shop. These included Trichloroethene, or TCE, an
9 organic acid that would have been used in the shop; and
10 there also would have been electro-plating solutions.
11 And these may have contained metals.

12 Our Site 10 -- again, parking lot H is near
13 Gate 5. This was an unpaved scrap yard from 1952 to
14 1957. The waste stored there were used batteries and
15 the -- what occurred there was the batteries that were
16 brought to this site, consolidated, the battery was acid
17 released at the site, and then the batteries were taken
18 off site for recycling.

19 There was some waste oil stored there and some
20 mercury-containing equipment. So during the preliminary
21 documents, it indicated that those may have been released
22 on-site.

23 And then finally sandblasting that was also done
24 on-site.

25 According to the records, all the debris had

1 been removed from the site by 1962.

2 Our Site 11 is the hillside east of Dry Dock
3 No. 1, and again this at least two areas. Both of these
4 areas contain sandblast grit that were put there in 1975.

5 The characteristics of sandblast grit are that
6 it might contained paint chips and metals. In 1977 some
7 of the material was removed to accommodate construction
8 of Parking Lot G, and then in 1994 an additional 1,400
9 yards were moved and redispersed at a secure area south of
10 the site.

11 Once this preliminary information had been
12 collected, the remedial investigation began. That was in
13 19 -- it was completed in 1997, and the purpose was to
14 fully characterize the site. Based on the initial
15 information, the remedial investigation was designed to
16 focus on chemicals that were likely to be present at the
17 site. Those included the organic compounds, such as
18 solvents or oils, at the three sites; and then the
19 inorganic compounds, such as the metals we mentioned.

20 Following the collection of the data, they
21 were evaluated; and typically the results are compared to
22 a variety of criteria made through site background, which
23 is what the -- the metals resulted were compared to
24 background; and some of the other groundwater data were
25 compared to criteria, such as the state ocean down there.

1 Cleaning process, we then find out which
2 chemicals are elevated above these criteria; and you
3 identify the areas and chemicals of potential concern.

4 Another component of the remedial investigation
5 was a human-health-risk assessment. In order to do the
6 risk assessment, you have to make a few assumptions; and
7 one of the assumptions is: What is the future land use
8 of the land site going to be? And you do that so you can
9 make -- continue with making more appropriate risk
10 assumptions for the -- for the site. In this case it was
11 identified as: Future land will be port related and
12 industrial.

13 So two types of workers were identified that
14 might be at this site on a regular basis. First is an
15 industrial worker; and this is someone is on site eight
16 hours a day, 250 days a year, for a 25-year career. This
17 would be an indoor or outdoor worker who might come in
18 contact with the soils or dust that may be floating
19 around at the site.

20 The second type of worker that was considered in
21 the risk assessment is the utility worker. This is a
22 worker who would be on site eight hours a day, 10 days
23 per year, for 25 years. This person might be working in
24 a trench where they would have more direct contact with
25 the soil, groundwater; and they would also be exposed to

1 vapors that come out of the soil and groundwater.

2 The risk assessment concluded that no chemicals
3 present at the site in soil or groundwater would cause
4 adverse health effects.

5 One important thing to remember, as I mentioned
6 before, is that these conclusions are made based on the
7 assumptions we made up front. So, as long as the
8 assumptions are valid, that is, that the site will be
9 continued to be used as industrial and port related, then
10 the conclusions of the risk assessment are valid.

11 The remedial investigation also included an
12 environmental-risk assessment. This portion of the risk
13 assessment considered possible marine receptors, and that
14 was -- the concern there was whether the chemicals of
15 concern in the soil and groundwater could migrate to the
16 ocean and the concentration that might affect the marine
17 environment. And I guess the computer modeling programs
18 were used to make the evaluation.

19 The conclusion was that chemical concentrations
20 in the groundwater will not exceed California Ocean Plan
21 Limits; and these Ocean Plan Limits, again, are based on
22 ecological risks to the marine receptors.

23 Next slide.

24 So the RI's completed, we moved onto the
25 feasibility study. This was completed in 2001. The

1 feasibility study was accepted by the Navy and State
2 Regulatory Agency. We also received review and
3 concurrence from the U.S. EPA. And the feasibility study
4 established our remedial action objective, and it
5 evaluated the remedial alternatives.

6 In order to establish the remedial action
7 objective, we went through our primary considerations;
8 and that is that the alternative had to be protective of
9 human health and the environment. We wanted to ensure
10 future land use so that our risk assumptions --
11 risk-assessment assumptions would remain valid. Again,
12 this was -- we wanted to make sure when we considered the
13 sites' specific risks, we'd meet all the regulatory
14 requirements. So we formulated these primary
15 considerations into our objective; and those were to
16 maintain industrial land use at the sites, to prevent
17 unauthorized disturbance of the soils and groundwater,
18 and to prevent migration of chemicals to the ocean in
19 accordance with the Ocean Plan Limits.

20 Alternative 1 is: No further action. This is
21 used at a baseline for comparison, and it is simply as
22 it's stated. There really is no further action. Nothing
23 additional would be done at the site. It's a required
24 part of the evaluation process; and, again, it's simply
25 no activities at the site.

1 Next slide.

2 Alternative 2 we identified as institutional
3 controls and groundwater monitoring. Institutional
4 controls would be implemented in the form of land-use
5 covenants. These would ensure that the sites remain
6 industrial; and, again, probably the most important
7 consideration would be that the risk-assessment
8 assumptions will remain valid. And this -- the
9 assumptions used would be things such as limited
10 groundwater use. And, again, I'll talk about this in a
11 little more detail later in the presentation.

12 The second component of Alternative 2 is
13 groundwater monitoring. We assumed it would be done on a
14 quarterly basis, at least to start; and this would
15 provide early warning detections of the chemical
16 movement. And what that does is provides time to respond
17 if anything is moving at the site in the groundwater.

18 I mentioned these nine criteria earlier.
19 They're really broken out into three groups. Threshold
20 criteria includes overall protection of human health and
21 the environment and that the alternative comply with
22 applicable or a relative and appropriate requirements.
23 There are five primary balancing criteria: Long-term
24 effectiveness; reduction of toxicity, mobility, or volume
25 of chemicals; short-term effectiveness; implementability;

1 and cost. And then the last two are modified criteria,
2 state acceptance and community acceptance.

3 What I'll do is show how we scored these two
4 alternatives in each of these -- in each of the criteria.

5 Overall protection of human health and the
6 environment -- no further action is not protective
7 because it doesn't address the use of future land use.

8 Institutional control and groundwater monitoring
9 would be protective because it would regulate future land
10 use. Thereby, it reduces the risk of exposure to the
11 residual chemicals.

12 And, again, the groundwater monitoring scheme
13 will provide an early-warning system and give us time to
14 respond.

15 Second criteria is compliance with requirements.
16 Both alternatives are expected to comply with the -- the
17 appropriate requirements. The -- again, however, because
18 the no further action didn't provide any protection
19 against the assumption made in the assessment, it can't
20 assure future land use. This "no further action" scored
21 lower on this category than the second alternative.

22 We then went through five primary balancing
23 criteria, long-term effectiveness determinatives -- no
24 further action, is, again, limited because it does not
25 provide or does not address future land use.

1 Institutional controls would be effective because it
2 provides for site-use restrictions. And groundwater
3 monitoring can be operated long term if we need to.

4 The second is the reduction of toxicity,
5 mobility, or volume of chemicals. This is not really
6 required at this site because the contaminants are below,
7 under the site, subject to the assumption that we made
8 regarding land use. And, again, the monitoring assures
9 early detection.

10 The remaining three primary balancing criteria,
11 short-term effectiveness, implementability, and cost, is
12 not remedial action at this site that is involved with
13 any kind of basic procedure to dig up a group of soil and
14 groundwater. Short-term effectiveness isn't really
15 applicable. Both alternatives are relatively simple to
16 implement; and, obviously, no further action is extremely
17 simple. Cost for no further action is no cost.
18 Institutional controls is scored low to moderate cost.

19 The cost, to summarized here: Alternative 2, we
20 estimated that the land-use covenants would cost about
21 \$6,000 per site. This would be for things like legal
22 fees and filing fees to get the -- the covenants
23 established, the agreements among the parties, what we
24 want to attach to the property, and get all the paperwork
25 done.

1 Alternative 2 is for groundwater monitoring.
2 It's about \$46,000 per site, per year. Again, this was
3 based on an assumption for one year of monitoring done on
4 a quarterly basis. So the Alternative 2 totals about
5 \$155,000.

6 Finally, the two modifying criteria, state
7 acceptance -- no further action is unlikely to be
8 acceptable because it doesn't ensure that the land use
9 will remain industrial and port related.

10 Institutional controls of groundwater
11 monitoring, again, the state has approved the feasibility
12 study; and feasibility study ranked Alternative 2 higher
13 than Alternative 1.

14 Again, the last criteria was community
15 acceptance and the public comments during this progress,
16 and that's the reason we're here tonight.

17 So, just a little more detail on the preferred
18 alternative, the first components are the institutional
19 controls that would be implemented in the form of
20 land-use covenants. These can be implemented using
21 existing legal procedures. These would ensure the
22 continued industrial use and maintain our health-risk
23 assessment.

24 Another thing, this isn't a full laundry list.
25 Other site things that could be included in the covenants

1 would be measures to prevent disturbance of the
2 groundwater monitoring system, to prevent residential
3 development of the site, and to prevent using the
4 groundwater.

5 The groundwater monitoring component of the
6 preferred alternative again provides an early-defection
7 system for chemical movement. The cost I indicated as --
8 as -- are for quarterly monitoring for a period of one
9 year. At the end of that first year, an annual report
10 will be put together that compares the previously
11 collected data with that year's worth of data; and my
12 recommendations will be made in that report as to how to
13 continue with groundwater monitoring. And that could
14 include changing the frequency reporting and things like
15 that.

16 That's really the end of the technical portion
17 of my presentation.

18 Just a couple of last notes on the
19 public-comment period, the period is open to comment not
20 only on the proposed plan but on other project documents,
21 such as the remedial investigation and feasibility study.
22 The period is January 16th of this year through February
23 15th, 2002. There are copies of the proposed plan and
24 handouts of my presentation in the back. These include
25 Navy and regulatory contacts and locations of these other

1 documents that are available for review. The proposed
2 plan, again, includes the form inside for written
3 comments. And those comments will be addressed with a
4 written response, and then they'll be incorporated into
5 the Record of Decision. And this is the location of the
6 documents and also a website address where the proposed
7 plan is posted, Jennifer?

8 MS. VALENZIA: Uh-huh.

9 MR. JAGUCKI: And the phone number is there for
10 other information. Thank you.

11 MS. VALENZIA: Thank you, Phil.

12 Okay, we would like to go ahead and open up for
13 an informal question-and-answer period where you're
14 welcome to ask Phil any questions regarding his
15 presentation, as well the Navy, or any of the
16 representatives from the various agencies that are here
17 tonight.

18 (Discussion off the record.)

19 MR. VALENZIA: We'll go ahead and open the formal
20 comment period, and I'll reiterate you're opportunity to
21 comment on the proposed plan. You can submit your verbal
22 comment here tonight, in which case, if you choose to do
23 that, please state your name for the record; and the
24 court reporter will record your comment verbatim. And a
25 response will be provided in writing and will be included

1 in the Record of Decision. If you choose not to comment
2 verbally tonight, you can also submit a written comment;
3 and you can either submit that written comment to our
4 Community Relations Specialist, Carol Raykowski, tonight,
5 or your can pop it in the mail sometime between now and
6 February 15th.

7 MS. VALENZIA: Can they E-mail comments to you?

8 MS. RAYKOWSKI: (No audible response).

9 MS. VALENZIA: We prefer to have it actually on the
10 form and mailed to us. It's just folding it in half and
11 putting a stamp on it. It's all ready to be mailed --
12 the address actually is included on the form.

13 Now, does anyone have any comments on the
14 proposed plan they would like recorded in the official
15 record?

16 HOWARD HARGROVE: Do you want an "In favor" or --

17 MS. VALENZIA: No. No. If you have a question, if
18 you have some additional information that you'd like to
19 know --

20 HOWARD HARGROVE: I just think in -- in -- it seems
21 like in 15 years that we've been doing this, it -- it's
22 been covered, it's well-thought out, and it's been tested
23 and retested and magnetized and demagnetized and the
24 whole thing; and I think it's finally -- it's -- it's a
25 good solution, and I think it should be -- I would vote

1 to for this --

2 MS. VALENZIA: So you're comfortable with the
3 alternatives?

4 MR. HARGROVE: Yes. And my name is Howard Hargrove.

5 MS. VALENZIA: Thank you, Howard.

6 MR. THORPE: I would just like to add -- Darwin
7 Thorpe -- and we don't want to say, "Ditto" -- that
8 would, I guess, be professionally sloppy. I would urge
9 that if there was any infuse of regulatory change to
10 Alternative 2 that -- that the public and RAB be so
11 informed.

12 MS. VALENZIA: Okay. Thank you, Darwin.

13 Okay. So then I guess this concludes our public
14 meeting. And at 7:30 we will break for 15 minutes, and
15 at 7:30 we will begin our regular Restoration Advisory
16 Board meeting.

17 Thank you all for your time. Thank you for
18 coming.

19 (Recorded portion of hearing concluded at: 7:17 p.m.)
20
21
22
23
24
25

CERTIFICATE

I, Thomas R. Johnsey, C.S.R. No. 7635, do hereby
certify:

That the foregoing 24-page public hearing
proceedings were taken down by me in shorthand at the
time and place stated herein and represent a true and
correct transcript of the proceedings.

I further certify that I am not interested in
the event of the hearing.

Witness my hand this 4th day of February, 2002.

THOMAS R. JOHNSEY, C.S.R. NO. 7635

**LONG BEACH
PRESS-TELEGRAM**

**604 Pine Avenue
Long Beach, CA 90844**

(Space below for use of County Clerk only)

**PROOF OF PUBLICATION
(2015.5 C.C.P.)**

**STATE OF CALIFORNIA
County of Los Angeles**

I am a citizen of the United States, and a resident of the county aforesaid; I am over the age of eighteen years, and not a party to or interested in the above-entitled matter. I am the principal clerk of the printer of the Long Beach Press-Telegram, a newspaper of general circulation printed and published daily in the City of Long Beach, County of Los Angeles, and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Los Angeles, State of California, on the date of March 21, 1934, Case Number 370512. The notice, of which the annexed is a true printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to wit:

7/7/04, 7/11/04

I declare under penalty of perjury that the foregoing is true and correct.

Executed at Long Beach, LA Co. California

this 11 day of JULY, 20 04

Norma E. See
signature

Proof of Publication of

**FORMER LONG BEACH
NAVAL SHIPYARD**

**Proposed Plan/Draft Remedial
Action Plan and
Notice of Exemption For
Installation Restoration
Program Sites 12 and 13**

The Southwest Division Naval Facilities Engineering Command invites the public to comment on a plan to address two areas of soil and groundwater impacted by metals and organic compounds at the Former Long Beach Naval Shipyard in Long Beach, California. The plan is presented in a document titled "Proposed Plan/Draft Remedial Action Plan (PP/RAP) for Installation Restoration (IR) Program Sites 12 and 13," which is available for public review and comment from July 6 through August 6, 2004. A public meeting is also scheduled for Wednesday, July 21 (see details below).

The PP/RAP summarizes past actions and investigations that the Navy has performed at IR Sites 12 and 13. It also provides the results of the risk assessments as well as information about all remedial action alternatives considered for these two sites. Additionally, the PP/RAP presents a preferred alternative and the basis for selecting the preferred remedy for soil and groundwater at the sites. The Remedial Investigation and Feasibility Study reports, which are also available for review, provide the technical information used to evaluate each of these sites. These sites do not currently pose a threat to human health or the environment, but need to be addressed to prevent future problems.

The Navy proposes institutional controls and continued groundwater monitoring for both sites and capping of the soils at IR Site 12 as the preferred alternatives based on soil and groundwater sampling and human health risk assessment results. Institutional controls in the form of land use restrictions will be implemented to restrict future use of the properties to ensure that human health and the environment remain protected. Capping, which has been fulfilled at IR Site 12 by the existing site surface paving and improvements performed by the Port of Long Beach, will prevent exposure to soil at the site. Additionally, groundwater monitoring at both sites will ensure that contaminants identified in the groundwater do not reach surface water in concentrations that exceed the California Ocean Plan water quality

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\$664.74

Written comments for the PP/RAP should be postmarked no later than August 6, 2004 and mailed to: Mr. Lee Saunders, Code 00PAE, Naval Facilities Engineering Command Southwest Division, 1220 Pacific Highway, San Diego, CA 92132-5190, (619) 532-3100 - phone, (619) 532-0940 - fax. All comments will be considered before the selection of the final remedial action alternative.

The California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) has determined that the proposed remedy for IR Sites 12 and 13 will not have a significant effect on the environment. Therefore, it is exempt from the detailed environmental analysis required by the California Environmental Quality Act (CEQA). DTSC's decision is documented in a "Notice of Exemption," which is available for public review during the Proposed Plan/Draft RAP 30-day comment period. Comments on the Notice of Exemption should be postmarked by August 6, 2004, and mailed or emailed to: Ms. Sue Hakim, DTSC, 5796 Corporate Avenue, Cypress, California 90630, shakim@dtsc.ca.gov, (714) 484-5381.

The PP/RAP, Notice of Exemption, and other documents that pertain to IR Sites 12 and 13 are available for public review at the Long Beach Naval Complex Information Repository located at the Long Beach Public Library, Government Publications Section (located on the lower level), 101 Pacific Avenue, Long Beach, (562) 570-7500. Documents may also be viewed at the Administrative Record located at 1220 Pacific Highway, San Diego, CA. To arrange a time to review the documents, contact Ms. Diane Silva, Records Coordinator, (619) 532-3676, Mon. - Fri. 7:00 a.m. - 3:30 p.m.

PUBLIC MEETING
Wednesday, July 21, 2004
3250 Airflite Way (Long Beach Airport)
Long Beach, CA 90802
6:00 PM

The public is invited to participate in the public meeting on the Proposed Plan/Remedial Action Plan for Sites 12 and 13. The public will have the opportunity to talk directly with Navy and regulatory agency representatives. A formal presentation will also be made followed by an open question session. The public will have the opportunity to provide oral and written comments on the investigation results and the Navy's proposal.

For further information about this meeting, please contact Mr. Lee Saunders at (619) 532-3100. meeting, please contact Mr. Lee Saunders at (619) 532-3100.

Pub. July 7, 11, 2004(21) PT(131342/866984)

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To the Witness:

Enclosed is the original of your deposition. Please read it, make any corrections or changes by lightly lining out the unwanted wording with a pen so that the underlying word is not obliterated, and insert the new wording directly above. PLEASE INITIAL EACH CHANGE. This should be done within 30 days in order that counsel may be apprised of any changes.

PLEASE NOTE: These are only standard instructions. Please follow counsel's instructions as to how many days you may actually have to review and sign your deposition.

After reading and correcting your deposition, please do one of the following:

(Note the marked box)

- ☐ Sign your deposition before any Notary Public.
- ☒ After reading your deposition, sign it under Penalty of Perjury.
- ☒ After signing your deposition, mail it to the counsel indicated in the stipulation of your deposition.

Your immediate attention to this matter will be greatly appreciated. If you have any questions, you should contact your counsel.

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ORIGINAL

PUBLIC MEETING FOR SITES 12 AND 13
FORMER LONG BEACH NAVAL SHIPYARD
PROPOSED PLAN/DRAFT REMEDIAL ACTION PLAN

Wednesday, July 21, 2004

6:00 p.m.

Long Beach Airport
3250 Airflite Way
Long Beach, California 90808

Transcribed from audiotape by:
Jennifer K. Abe, CSR No. 10753
Registered Professional Reporter

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ATTENDEES

Liz Barr, Navy
Jennifer Valenzia LeBeck, Navy
Sara Ann Moore
Martin Hausladen, U.S. EPA
Tim Chauvel, DTSC
Sue Hakim, DTSC
Tom Johnson, Port of Long Beach
Dave Lang, CDM
John Essington
Sumedha De Silva, Battelle
Philip Jagucki, Battelle
Shannon, Summer intern

1 Wednesday, July 21, 2004

2 Long Beach, California

3
4 MS. BARR: Hi, everyone. I'm Liz Barr. I'm
5 the Navy RPM for Sites 12 and 13.

6 And tonight is the public meeting for
7 Sites 12 and 13 to present the proposed remedy.

8 The proposed plan was sent out on July 2nd,
9 and all you guys should have received that.

10 I'll introduce the people that are here.

11 You know Jennifer Valenzia LeBeck. Sara Ann
12 Moore is our business line team leader. We have
13 Shannon, our summer intern. We have Martin from EPA,
14 Ana Townsend from the Water Board, Tim Chauvel from
15 DTSC. We have Sue Hakim from DTSC, Tom Johnson for the
16 Port of Long Beach. We have Dave Lang from CDM, and
17 John Essington, the code rev chair.

18 And then from Battelle, we have our technical
19 experts here to give us the presentation tonight. We
20 have Sumedha De Silva and Phil Jagucki, both have been
21 intimately involved with the details of these sites.

22 So, again, this is your opportunity to
23 present comments. If the court reporter was here, I
24 guess you'll speak into the recording if you have them.

25 Please hold all comments until the end of the

1 meeting. Although if you have any questions or points
2 that you need to clarify, feel free to stop Phil. Phil
3 has been working on the site since 1997 and is our
4 expert geologist.

5 So there are extra copies of the proposed
6 plan in the back and in it is a comment sheet. So if
7 you want to fill that out, you can also send that in.

8 The public comment period goes from July 6th
9 through August 6th.

10 So I'll turn it over.

11 MR. JAGUCKI: Thanks, Liz.

12 While we're working our way through the many
13 sites at the Port, what I want to go over tonight is a
14 little history of Sites 12 and 13, explain how and why
15 the alternatives were developed, talk a little bit
16 about the cleanup actions that have been proposed, and
17 then, again, this is an opportunity for public
18 comment.

19 So in tonight's presentation, I'll include a
20 brief regulatory overview, again this brief discussion
21 of the site history, and the current use.

22 I'll talk a little bit about the
23 investigations, the site investigations that have been
24 completed so far.

25 I'll talk about how the remedial action

1 objectives were developed and how they fit in with the
2 overall program and those feed into the alternatives
3 who are identified. So I'll describe the summary of
4 the alternatives and identify the preferred
5 alternatives.

6 This was very much a cooperative effort with
7 the U.S Navy, state regulatory agencies, including DTSC
8 and the Regional Water Quality Control Board, U.S. EPA,
9 the Restoration Advisory Board, and opportunities all
10 along the way for public involvement.

11 The program that these projects have been
12 administered under and the regulatory rules and
13 policies that have been followed come from the
14 Comprehensive Environmental Response Compensation, and
15 Liability Act, also referred to as the acronym CERCLA
16 or known as Superfund.

17 These are not Superfund sites, but this is
18 the process that was used to do the RI and the
19 investigations, feasibility studies, and other work.

20 So what we've gone through so far, again, are
21 the site investigations. The feasibility studies have
22 been completed. The proposed plan is out and available
23 right now, and those are also available here.

24 We're here tonight to do the public meeting.
25 The next step will be to submit and finalize the

1 Record of Decision, and then finally implement the
2 remedial actions for the site.

3 The Shipyard, which operated from 1940 to
4 1997, had the primary mission to repair and overhaul
5 Navy vessels.

6 Currently, the Shipyard is used by the -- or
7 the majority of it is used by the Port of Long Beach
8 for storage and shipping terminal facilities.

9 I have a couple of -- a map here and an
10 aerial photograph showing the sites. This area right
11 here, northeast of the west basin, is the site
12 location. And here is an older aerial photograph. If
13 you took one today, it would look quite a bit
14 different. Tom would agree with that.

15 Site 12 was mainly used as a parking lot.
16 Between 1971 and 1975, sandblast grit and paint had
17 been disposed at the site. There was also a
18 drum-crushing operation there between 1986 and 1988.

19 What was reported in the investigations and
20 historical analysis of the site was that the drums may
21 have contained epoxy resins and trichloroethene, which
22 is an industrial solvent.

23 Since the completion of the site
24 investigations, most of the site has been redeveloped
25 and includes roads. There is some landscaping out

1 there, parking areas, and things like that.

2 Site 13 from 1970 to 1997 was used as a
3 storage area. Portable waste storage tanks that
4 contained acids, phosphates, and waste bilge oil were
5 located there. Throughout the operation of this
6 facility, there were no reports of releases at that
7 operation.

8 Site 13 has not been redeveloped, but there
9 is a paved area through there that goes out to
10 Pier Echo, and there is a chain-link fence around this
11 site.

12 So just a little more detailed chronology.

13 In 1983, the preliminary assessments, their
14 initial assessment studies were completed.

15 In 1997, the Remedial Investigation was
16 completed, and that was followed in 1998 by a
17 supplemental groundwater investigation.

18 And in 2001, the feasibility study was
19 completed.

20 The Remedial Investigation submitted in 1997
21 evaluated soils and groundwater at the site. The data
22 generated during that investigation were used to
23 develop risk assessments and some areas of concern were
24 identified -- areas and contaminants of concern were
25 identified.

1 Based on those results, there was a
2 recommendation for some additional study. And that's
3 what happened in 1998 during the supplemental
4 groundwater investigation. Additional soil and
5 groundwater samples were collected and then the risk
6 assessment was updated.

7 A couple of figures here. The groundwater
8 areas of contamination are shown in the gray circles,
9 and these are considered to be located in front of
10 Sites 12 and 13. And then the soil contamination,
11 there is a low-level contamination across much of the
12 site. The Area of Concern 1 is located right here, and
13 I'll talk to you a little bit about that a little bit
14 more as we progress through the presentation.

15 I mentioned the human health-risk assessment
16 a couple of times. Again, this was developed during
17 the RI and SGI.

18 The main premise of the risk assessment is
19 that the future of the site would be used for
20 industrial purposes. And so the risk-exposure scenario
21 is evaluated and determined most likely to occur were
22 for an industrial worker and a utility worker.

23 And basically an industrial worker would be
24 somebody on the site for 250 days a year, eight hours a
25 day. Their exposure pathways would be from whatever

1 might come up through the soil into the breathing zone,
2 possibly some direct contact with the soil and then
3 also contact with windblown dust and vapors.

4 The lower part of the figure shows the
5 utility/maintenance worker assumptions. And these are
6 basically the same except for the fact that the
7 utility/maintenance worker might come in direct contact
8 with the groundwater and again be closer to that
9 pathway.

10 Another main differentiating assumption for
11 the utility worker is that he would only be on site for
12 ten days a year versus the 250 days a year. So it was
13 eight hours per day, ten days a year for the utility
14 worker. Eight hours a day, 250 days a year for the
15 industrial worker.

16 There are eight chemicals of concern that
17 were included in the risk assessment. Seven of these
18 were organic chemicals -- on a table in a second, I'll
19 show -- that shows what these were -- and one metal.

20 The Area of Concern 1, which I showed
21 earlier, was identified and that was due to the
22 presence of elevated concentration of chemicals of
23 concern. Arsenic was the only COC identified in the
24 groundwater at the site.

25 The conclusion of the risk assessment is that

1 the risks through these, from soil and groundwater,
2 through those pathways we showed were within acceptable
3 levels for the intended site use.

4 One of the things that wasn't in place at
5 the time the risk assessment was done was that paved
6 area.

7 Area of Concern 1 has been paved. So that
8 pavement wasn't taken into consideration during the
9 original risk assessment; but had it been, the risk
10 would even be lower than they are because that would
11 have eliminated a migration of a potential pathway.

12 As I mentioned, there are seven organic
13 contaminants here. Most of these are the type that
14 are found in heavy petroleum products, things like
15 motor oil or asphalt, things like that. And arsenic is
16 a metal that is found in soils and in groundwater.

17 Through the course of the project, ecological
18 risks were considered. And these were based on the
19 fact that, okay, these compounds are in the soils and
20 groundwater. What happens if they're mobilized and
21 then moved to the ocean where marine receptors could be
22 exposed?

23 So during the investigations, computer
24 modeling was completed to evaluate that potential for
25 movement of the contaminants.

1 And then the results from that modeling, the
2 contaminants and the concentrations identified were
3 compared against California Ocean Plan Standards. And
4 it was determined that there were no contaminants on
5 site at concentrations that would have an effect on the
6 marine environment.

7 So the conclusion of the site investigations
8 moved on to a feasibility study. And during that
9 feasibility study, remedial action objectives were
10 developed, and various alternatives were evaluated for
11 remediation. And these were for the soil contamination
12 at AOC 1. That's the higher concentration soil
13 contamination, the low level of the contamination at
14 the sites, and the groundwater contamination.

15 One of the first steps in completing the
16 feasibility study is to develop remedial action
17 objectives. The primary considerations of those are
18 protect human health and the environment. We wanted to
19 make sure that the objectives assured future land use
20 so that those risk-assessment assumptions would remain
21 valid.

22 Site-specific risks were considered, and we
23 also had to make sure that the alternative selected met
24 the regulatory requirements.

25 So the way the objectives were stated was to

1 maintain industrial land use at the sites, prevent
2 unauthorized disturbance of soil and groundwater,
3 prevent migration of chemicals to the ocean in excess
4 of California Ocean Plan limits.

5 These were accepted by the Navy and the
6 regulatory agencies and also along with review and
7 concurrence from the U.S. EPA.

8 For groundwater, four alternatives were
9 considered.

10 The baseline alternative, that's a required
11 part of the analysis, is no further action.

12 The second alternative for groundwater was
13 implementation of the groundwater-monitoring program
14 and the institutional controls, and those controls
15 would limit and protect access to the soil and
16 groundwater.

17 A third alternative, evaluate a permeable
18 reactive barrier along with the groundwater monitoring
19 and institutional controls.

20 And the last alternative was an extraction
21 and aboveground cleanup or pump-and-treat alternative.

22 For soils, there are also four alternatives.

23 Again, the first one, the baseline
24 alternative, was no further action.

25 The second alternative was implementation of

1 land-use covenants.

2 The third was maintenance of the existing cap
3 at AOC 1 and land-use covenants.

4 And the fourth was excavation, off-site
5 disposal, and land-use controls.

6 So each of these four alternatives needs to
7 be compared against nine different criteria. Basically
8 the feasibility study and then as presented in the
9 proposed plan gets you through seven of these.

10 The first two are threshold criteria, and
11 that's overall protection of human health and the
12 environment, which, as I said earlier, was one of the
13 primary objectives for establishing the remedial action
14 objectives.

15 The other criteria was compliance with
16 federal and state rules, regulations, or also known as
17 ARARs.

18 The second group of criteria, the
19 primary-balancing criteria, include long-term
20 effectiveness and permanence, reduction of toxicity,
21 mobility, or volume of the contaminants that are
22 remaining on site; short-term effectiveness, which is
23 consideration of what are the risks during
24 implementation of remedial action. Implementability,
25 is the technology available to implement it? Are there

1 administrative controls available to get the work done?
2 Things like that. And then finally cost.

3 As you work through this process, modifying
4 criteria are then considered. And that is state
5 acceptance. Is the alternative acceptable to state
6 regulatory agencies involved?

7 And finally community acceptance, and this
8 public meeting is one of the main functions to get that
9 final criteria incorporated into the process.

10 So the preferred alternatives that emerged
11 included continued groundwater monitoring for Sites 12
12 and 13 to monitor that contaminant movement,
13 maintenance of that paved area at AOC 1, and then
14 institutional controls for Sites 12 and 13. These
15 would be in the form of land-use covenants.

16 And the most important aspects of that is
17 that the site is maintained for industrial use and that
18 unauthorized disturbance of soil and groundwater is
19 prevented.

20 So why did these emerge?

21 Well, these were very implementable. They
22 provide the best short and long-term effectiveness at
23 the site. They were low cost, and they met the ARARs
24 for the site.

25 So our remedial action objectives will be met

1 by these alternatives. The groundwater monitoring and
2 cap maintenance plan, that's something that will
3 develop during implementation of the remedial action.

4 Again, through this whole process, there was
5 participation from the agencies to review our field
6 reports, field data. These were submitted, commented
7 on, revised based on comments from the Regional Water
8 Quality Control Board and DTSC and U.S. EPA. The
9 alternatives that have emerged are supported by these
10 agencies.

11 So where are we in the process?

12 Well, the proposed plan/draft remedial action
13 plan is in the midst of the public comment period,
14 public participation period. The remaining activities
15 will be to finalize, submit, and get approval for the
16 Record of Decision, and then implement the response
17 action.

18 And that, again, would include a plan and
19 then doing whatever it is that has to be done in order
20 to get these alternatives implemented.

21 And, finally, there will be long-term
22 operation and monitoring. Essentially, that will be in
23 the form -- at this site in the form of groundwater
24 monitoring along with maintenance of the fence and
25 assurance that the land-use covenants are available,

1 implemented, and effective.

2 Just one note on that. At the Port, we're
3 in the midst of a five-year review for many of these
4 sites; and that's one of the ways that you can make
5 sure that these things are implemented and effective;
6 and that is by revisiting the sites, making sure that
7 what was proposed and implemented is indeed ongoing and
8 effective.

9 As Liz mentioned, the public comment period
10 goes from July 6 to August 6, 2004. We're in the midst
11 of that.

12 The proposed plan is available here. It has
13 a comment sheet in it for written comments. Also, it
14 includes Navy and regulatory contacts, location of
15 documents.

16 The comments that are submitted will be
17 addressed through a written response, and those will
18 all be included in the Record of Decision.

19 Information that's included in the proposed
20 plan is Mr. Saunders' name and address. The written
21 comments would be submitted to him, and oral comments
22 will be accepted this evening.

23 Information on these sites is located at the
24 Long Beach Public Library and also in San Diego with
25 the Navy at their facility on Pacific Highway.

1 And more contacts, Jennifer and Liz with the
2 Navy; Sue and Tim with DTSC; Ana with Regional Water
3 Quality Control Board; and Martin with U.S. EPA.

4 I think we're now open for comments.

5 Thank you.

6 MS. BARR: Okay. Any questions? Comments?

7 MR. ESSINGTON: Just one comment.

8 Is there anything in this plan that --
9 inaudible -- utilization of the property --
10 inaudible -- causes the Port grief?

11 MR. JOHNSON: No. The plan is consistent
12 with the kinds of institutional controls and
13 constraints on the use of other areas of the naval
14 complex that are -- inaudible --

15 MS. BARR: Okay. The question was asked by
16 John Essington and answered by Tom Johnson.

17 Okay. This concludes our public meeting.

18 Thank you all for your time.

19
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1 REPORTER'S CERTIFICATE

2
3
4 I, JENNIFER K. ABE, RPR, CSR. #10753, a Certified
5 Shorthand Reporter in and for the County of Orange, State
6 of California, do hereby certify:
7

8
9 That the foregoing meeting was recorded
10 stenographically by me from an audiotape and was thereafter
11 transcribed, said transcript being a true copy of my
12 shorthand notes.
13

14
15 IN WITNESS WHEREOF, I have hereunto subscribed my
16 name this 16th day of August, 2004.
17

18 Jennifer K. Abe
19 Jennifer K. Abe, RPR
20 Certified Shorthand Reporter No.10753
21
22
23
24
25

Public Comments from 1/23/02 Meeting and 1/16-2/15/02 Comment Period

Verbal Comments from Public Meeting (comments from meeting transcript):

Comment 1.

Howard Hargrove, RAB Member:

HOWARD HARGROVE: I just think in -- in -- it seems like in 15 years that we've been doing this, it -- it's been covered, it's well-thought out, and it's been tested and retested and magnetized and demagnetized and the whole thing; and I think it's finally -- it's -- it's a good solution, and I think it should be -- I would vote to for this --

MS. VALENZIA: So you're comfortable with the alternatives?

MR. HARGROVE: Yes. And my name is Howard Hargrove.

MS. VALENZIA: Thank you, Howard.

Response 1.

No further response is necessary.

Comment 2.

Darwin Thorpe, RAB Member

MR. THORPE: I would just like to add -- Darwin Thorpe -- and we don't want to say, "Ditto" -- that would, I guess, be professionally sloppy. I would urge that if there was any infuse of regulatory change to Alternative 2 that -- that the public and RAB be so informed.

MS. VALENZIA: Okay. Thank you, Darwin.

Response 2.

Any significant change to Alternative 2 would require notification of all parties concerned and an additional opportunity for public comment.

Written Comments (typed verbatim from letters):

Comment 3.

Dave Hall, Huntington Beach, CA

Dear Mr. Macchiarella and LBNCRAB:

Thank you for all the hard work you have put into restoration of the San Pedro Bay and Terminal Island area's environment.

My question for the Board is regarding future oversight of environmental programs. How will they be enforced later on? In particular, regulations regarding protection of endangered species and our coastal environment must be enforced in the future. Would a deed restriction provide a needed mechanism to over see environmental regulations? The Naval Complex area and immediate environment bordering it are environmentally important to our Southland species. Thank you for your efforts to help preserve these species.

Response 3.

Alternative 2 (deed restrictions and groundwater monitoring) has been approved by the appropriate state agencies as protective of endangered species at Sites 8, 10, and 11. Future oversight and enforcement of Alternative 2 at these sites will be the responsibility of the Long Beach Port Authority.

Comment 4.

David Hall, Huntington Beach, CA

According to the “Notice of Exemption”, draft that was mailed to me, under #6, “The Fish and Wildlife Service has also determined that given the existing mitigation for migratory birds (black crowned night heron and least tern) no significant impacts will occur.”

Questions: What are these mitigation measures?
 How do we know that these measures are being followed?
 What follow-up will occur?

Thank you for your attention to this matter.

Response 4.

Nesting habitat for the species you mentioned has been provided at Sites 1 & 2, near Sites 8, 10, and 11, in a location that is more beneficial to the birds. This new habitat has been inspected by the state Fish and Game department and will continue to be under that department’s jurisdiction.

Note that a more detailed response was sent by DTSC to answer all three questions received by mail from Mr. David Hall.

Comment 5.

J. Carlos Leal, RAB Member, Long Beach, CA

I, J. Carlos Leal, R.A.B member from the community, believe that the preferred alternative number two (Institutional Controls [land use covenants] and Groundwater Monitoring) should be implemented for I.R. Sites 8, 10, and 11 at Former Long Beach Naval Shipyard, L.B., C.A.

Response 5.

No response is necessary.

Comment 6.

Gerringer Family by Mrs. Gerringer, Cypress CA

Our “vote” would be to “CLEAN UP ALL TOXIC SUBSTANCES AT OUR LONG BEACH NAVAL COMPLEX TO TOTAL PERFECTION **NOW** WHILE YOU ARE AT IT “ “WITH NO WAIVERS OR EXEMPTIONS.”

PREFERRED ALTERNATIVE QUOTE: - “The results of the Remedial Investigation for IR Sites 8, 10, & 11 indicate that the soils and groundwater do not pose a significant threat to the environment or to human health under an industrial land use scenario.” (My underlining)

Also, p. 4 “Land use covenants will limit groundwater use & ensure that the sites remain industrial.”

We are opposed to what happened regarding our Navy Base & also any “Covenants ensuring that this entire site remain industrial.”

Things change, & it is so possible there could be other than industrial use in the future.

In any case, we want a TOTAL CLEAN UP NOW for protection from all toxins seeping into our water & any possibility of contaminating our health in any way. Thank you.

We are so opposed to the 'Globalists' aggressive "takeover" of this property!

(We used to live in L.B. & still have family & friends who live there.) (Cypress is close to Long Beach)

Response 6.

The current risk assessment has been reviewed by public and state agencies and is deemed protective of human health and the environment if the site is used for industrial purposes. Any decision to change the land use at these sites to non-industrial will be the responsibility of the Long Beach Port Authority. In order to continue protecting human health and the environment, the land use agreements require that a new risk assessment be conducted if planned land use at the site changes from industrial use.

APPENDIX D

Regulations to be Considered as Guidelines

APPENDIX D

Regulations to be Considered as Guidelines

Table D-1. Federal Chemical-Specific ARARs by Medium

AIR				
Requirement	Prerequisite	Citation ^(a)	ARAR Determination	Comments
Clean Air Act (42 USC Chapter 85, Sections 7401 –7671)^(c)				
National Ambient Air Quality Standards (NAAQS): Primary and secondary standards for ambient air quality to protect public health and welfare (including standards for particulate matter and lead).	Contamination of air affecting public health and welfare	40 CFR Sections 50.4 – 50.12	To be considered	NAAQSs are not enforceable. The selected remedy for IR Sites 11, 12, and 13 includes groundwater monitoring at new and replacement wells. If it is necessary to install new groundwater monitoring wells, then NAAQS will be considered.

(a) Many action-specific ARARs contain chemical-specific limitations and are addressed in the action-specific ARARs tables.

(b) Only the substantive provisions of the requirements sited in this table are ARARs.

(c) Statutes and regulations and their citations are provided as headings to identify general categories of ARARs. Listing a statute or regulation does not indicate that the DON accepts the entire statute or regulation as an ARAR. Specific ARARs are addressed in the table below each general heading. Only substantive requirements of specific citations are considered ARARs.

Table D-2. Federal Location-Specific ARARs

Location	Requirement	Prerequisite	Citation ^(a)	ARAR Determination	Comments
Executive Order No. 11988, Floodplain Management^(b)					
Within floodplain	Requires actions taken to avoid adverse effects, minimize potential harm, restore and preserve natural and beneficial values	Action that will occur in a floodplain (i.e., lowlands) and relatively flat areas adjoining inland and coastal waters and other flood-prone areas	40 CFR Section 6.302(b); 40 CFR Part 6, Appendix A	To be considered	Executive Orders are not statutes. In addition, IR Sites 11, 12, and 13 are not located in a 100- or 500-year floodplain. However, because the area in which the sites are located may be subject to storm surge, provisions of Executive Order No. 11988 are considered for implementation of the remedy for IR Sites 11, 12, and 13.

(a) Only the substantive provisions of the requirements cited in this table are ARARs.

(b) Statutes and regulations and their citations are provided as headings to identify general categories of ARARs. Listing a statute or regulation does not indicate that the DON accepts the entire statute or regulation as an ARAR. Specific ARARs are addressed in the table below each general heading. Only substantive requirements of specific citations are considered ARARs.

Table D-3. Federal Action-Specific ARARs

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
Resource Conservation and Recovery Act (42 USC Sections 6901 – 6991[I])^(a)					
Closure of a land treatment unit	Establishes requirements for closure and post-closure care for hazardous waste land treatment units	Land treatment unit used to treat or dispose of hazardous waste	22 CCR Section 66264.280	To be considered	Provisions will be considered in determining the provisions of the deed restrictions that accompany the transfer of the site property to the City of Long Beach
Placement of waste in land disposal units	Restricts movement of excavated materials to new location and placement in or on land. Triggers land disposal restrictions for the excavated waste or closure requirements for the unit in which the waste is placed	Materials containing RCRA hazardous waste subject to land disposal restrictions	22 CCR Section 66268.40	To be considered	Wastes are not planned to be disposed onsite. To be considered for selection of offsite disposal facilities if drill cuttings or purge water from installation of new groundwater monitoring wells is determined to be hazardous waste. The determination of whether drill cuttings or purge water from installation of new wells is hazardous will be made at the time the wastes are generated.
Placement of waste in land disposal units	Requires treatment of waste subject to ban on land disposal to attain levels achievable by best demonstrated available treatment (BDAT) technologies for each hazardous constituent in each listed waste, if residual is to be land disposed	Placement of RCRA waste in a landfill, surface impoundment, waste pile, injection well, land treatment facility, salt dome formation, or underground mine or cave	22 CCR Section 66268.42	To be considered	Wastes are not planned to be disposed onsite. To be considered for selection of offsite disposal facilities if drill cuttings or purge water from installation of new groundwater monitoring wells is determined to be hazardous waste. The determination of whether drill cuttings or purge water from installation of new wells is hazardous will be made at the time the wastes are generated.

(a) Statutes and regulations and their citations are provided as headings to identify general categories of ARARs. Listing a statute or regulation does not indicate that the DON accepts the entire statute or regulation as an ARAR. Specific ARARs are addressed in the table below each general heading. Only substantive requirements of specific citations are considered ARARs.

Table D-4. State Action-Specific ARARs

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
Discharge to enclosed bays and estuaries	Establishes numerical water quality objectives for the protection of human health and aquatic life, effluent quality requirements, and prohibitions that apply to disposal of wastes enclosed in bays and estuaries	Applicable to discharges to enclosed bays and estuaries	California Water Code Section 13140 (Water Quality Control Plan for the Enclosed Bays and Estuaries of California)	To be considered	TBC for complying with other ARARs.

- (a) Statutes and regulations and their citations are provided as headings to identify general categories of ARARs. Listing a statute or regulation does not indicate that the DON accepts the entire statute or regulation as an ARAR. Specific ARARs are addressed in the table below each general heading. Only substantive requirements of specific citations are considered ARARs.

APPENDIX E

Notice of Exercise of Power of Termination Dated 27 August 1998

APPENDIX E

Notice of Exercise of Power of Termination Dated 27 August 1998

Recording Requested By:

CITY OF LONG BEACH

When Recorded Mail To:

CITY OF LONG BEACH

P.O. Box 570

Long Beach, CA 90801

RECORDED/FILED IN OFFICIAL RECORDS
RECORDER'S OFFICE
LOS ANGELES COUNTY
CALIFORNIA

4:01 PM AUG 27 1998

Attn: Director of Properties
Harbor Department

EXEMPT FROM RECORDING FEE
(Gov't Code Section 6103)
EXEMPT FROM DOCUMENTARY TRANSFER
TAX
(Rev. & Taxation Code Section
11922)

FREE U

(Above space for recorder's use only)

NOTICE OF EXERCISE OF POWER OF TERMINATION

YOU ARE HEREBY NOTIFIED THAT:

- I. Title to a substantial part of the Long Beach Naval Complex was vested in the United States in a condemnation action entitled United States vs. 1,039 Acres of Land, et al., 63-1204 HW, U.S.D.C. (S.D. Cal 1963). The Judgment Vesting Title described Parcel U, which is approximately 602 acres, as follows:

Beginning at the northeast corner of that certain land known as Parcel No. 2 taken in eminent domain by the United States from the City of Long Beach in that certain condemnation action entitled United States of America vs. 333.6 Acres of Land, etc., No. 1102 BH-Civil, filed in the District Court of the United States for the Southern District of California, Central Division; thence South 19° 16' 25" East to the southeast corner of Parcel No. 2; thence South 19° 16' 25" East 834.61 feet more or less to a point distant South 19° 16' 25" East 1699.61 feet from the northeast corner of Parcel No. 2; then South 19° 10' 45" East 100.00 feet; thence South 70° 43' 01" West 150.00 feet to a point which is

the true point of beginning of this description;

Thence	South	70° 43' 01" West	6501.13 feet;
Thence	South	19° 16' 25" East	2250.17 feet;
Thence	South	49° 16' 25" East	448.91 feet;
Thence	South	79° 16' 25" East	3224.20 feet;
Thence	North	70° 43' 01" East	3770.10 feet;
Thence	South	64° 16' 59" East	1042.98 feet;
Thence	North	36° 07' 59" West	3537.36 feet;
Thence	North	19° 10' 45" West	1603.55 feet;

to the true point of beginning,

excluding therefrom, and reserving to the City of Long Beach in trust for the State of California, the entire mineral estate, including all oil, gas and other hydrocarbon substances in such lands, together with the right to withdraw and recover said minerals; provided however, such lands shall be free and clear of all easements or rights to use the surface of the same for the purposes of exploring, mining or removing oil or other minerals therefrom.

- II. The title of the United States to Parcel U is in fee simple determinable, subject to termination as follows:

In the event that the plaintiff shall sell, or for a period of one year shall cease to use for federal purposes, 50% or more of the water frontage of Parcels R [the upland parcel fronting on Parcel U] and U, the plaintiff's title to all portions of Parcel U that shall then constitute submerged lands (i.e., covered by the waters of the ocean at mean high tide), except that underlying then existing piers, shall revert automatically to the City of Long Beach and the State of California according to their respective interests immediately preceding this judgment in condemnation.

- III. On September 30, 1994, the United States ceased to use for federal purposes, more than 50% of the water frontage of Parcels R and U.
- IV. The above Judgment Vesting Title also described Parcel S, which is approximately 88 acres, as follows:

98 1538749

The northeast corner of that certain land known as Parcel No. 2 taken in eminent domain by the United States from the City of Long Beach in that certain condemnation action entitled United States of America vs. 333.6 Acres of Land, etc., No. 1102 BH-Civil, filed in the District Court of the United States for the Southern District of California, Central Division, is the true point of beginning;

Thence	North	19° 16' 25" West	80.00 feet;
Thence	North	66° 32' 34" East	43.56 feet;
Thence	South	75° 27' 54" East	164.01 feet;
Thence	North	66° 32' 34" East	830.31 feet;
Thence	South	23° 36' 46" East	1483.13 feet;
Thence	South	00° 03' 27" East	575.63 feet;
Thence	South	19° 09' 20" East	684.72 feet;
Thence	North	70° 50' 40" East	77.97 feet;
Thence	South	19° 09' 20" East	450.48 feet;
Thence	North	70° 49' 39" East	200.22 feet;
Thence	South	54° 37' 59" East	368.34 feet;
Thence	South	70° 49' 51" West	1572.40 feet;
Thence	North	19° 10' 45" West	1603.55 feet;
Thence	North	70° 43' 01" East	150.00 feet;
Thence	North	19° 10' 45" West	100.00 feet;
Thence	North	19° 16' 25" West	1699.61 feet;

to the true point of beginning,

together with all improvements thereon, except for all presently existing oil wells, water source and injection wells, oil production and water injection facilities and storm drain which shall be retained by the City of Long Beach.

Within Parcel S is an area, approximately 4 acres, known as the HITCO/GOCO parcel. The HITCO/GOCO parcel is described as follows:

That portion of that certain parcel of land comprising 88 acres more or less, identified as Parcel "S", in the City of Long Beach, County of Los Angeles, State of California, as described in Judgment Vesting Title action entitled "The United States of America vs. 1,039 Acres of Land" etc., Civil No. 63-1204 HW, as filed in the United States District Court, Southern District of

California, Central Division, on October 7, 1963, more particularly described as follows:

Commencing at the northerly terminus of that certain course in the easterly line of said Parcel "S", described as "South 23° 36' 46" East, 1483.13 feet" in said Judgment Vesting Title action; thence South 23° 39' 41" East, 998.11 feet along said easterly line to the point of beginning; thence continuing South 23° 39' 41" East, 148.48 feet along said easterly line; thence South 66° 21' 12" West, 592.31 feet; thence North 14° 41' 00" West, 366.77 feet; thence North 66° 13' 17" East, 415.47 feet; thence South 23° 46' 31" East, 214.81 feet; thence North 66° 20' 09" East, 119.18 feet to the point of beginning.

The above described parcel of land contains approximately 178,900 square feet of land area and is more particularly shown on a Record of Survey filed in Book 158 Pages 72 through 82 inclusive, of Records of Surveys, in the Office of the County Recorder for said Los Angeles County.

- V. The title of the United States to Parcel S is in fee simple determinable, subject to termination as follows:

In the event Parcel S or any portion thereof is used for any other than the above specified purposes, or is not used for such specified purposes for a period in excess of two years, or if Parcel S or any portion thereof is determined by the United States to be no longer necessary for use as a naval shipyard or for purposes of national defense, or other federal purposes, then title to Parcel S or such portions thereof shall automatically revert to the grantor City of Long Beach, in trust for the State of California; provided, however, that no reversion for non-use shall occur within ten years immediately following the United States' acquisition of title to Parcel S or as to lands included within present leases (described in Exhibit 1) within ten years after expiration of such leases; provided further that


substantial use of Parcel S shall preserve the right to use all of such parcel except as proper federal officials may from time to time determine unused portions to be excess to the federal need.

VI. The United States has determined that Parcel S, except for the HITCO/GOCO parcel, is no longer necessary for use as a naval shipyard or for purposes of national defense, or other federal purposes. None of the provisos to the reversionary clause quoted above apply to prevent reversion of Parcel S, except for the HITCO/GOCO parcel.

YOU ARE HEREBY FURTHER NOTIFIED in accordance with Section 885.050 of the Civil Code of the State of California, that the City of Long Beach exercises the power of termination of the City of Long Beach contained in the above referenced Judgment Vesting Title, terminates the estate conveyed to the United States of America pursuant to said Judgment Vesting Title and re-enters and revests possession of and title to the property in the City of Long Beach. The United States hereby acknowledges this exercise of the power of termination, admits that the reversion clauses quoted above have been satisfied and raises no objection to the termination of its title.

IN WITNESS THEREOF, the City of Long Beach has caused this Notice to be duly executed on the 10th day of August, 1998.

CITY OF LONG BEACH, a municipal corporation, acting by and through its Board of Harbor Commissioners

By: 
Richard D. Steinke,
Executive Director
Long Beach Harbor Department

UNITED STATES OF AMERICA

By: 

11 AUGUST, 1998

APPROVAL AS TO FORM

The foregoing NOTICE OF EXERCISE OF POWER OF TERMINATION is hereby approved as to form.

ROBERT E. SHANNON, City Attorney

August 5, 1998

By: Dominic T. Holzhaus
Dominic T. Holzhaus, Deputy

EXEMPTION FROM RECORDING FEES
AND DOCUMENTARY TRANSFER TAX

The within instrument is given at the request of and for the benefit of the City of Long Beach for public purposes, and is entitled to be recorded without fee pursuant to Section 6103, Government Code, and is exempt from documentary transfer tax pursuant to Section 11922, Revenue and Taxation Code.

ROBERT E. SHANNON, City Attorney

August 5, 1998

By: Dominic T. Holzhaus
Dominic T. Holzhaus, Deputy

98 1538749

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

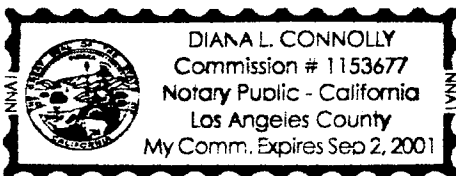
State of California

County of Los Angeles

On August 10, 1998 before me, Diana L. Connolly, Notary Public
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Richard D. Steiner
Name(s) of Signer(s)

☒ personally known to me – OR – ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Diana L. Connolly
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- ☐ Individual
☐ Corporate Officer
Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney-in-Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER
Top of thumb here

Signer's Name: _____

- ☐ Individual
☐ Corporate Officer
Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney-in-Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER
Top of thumb here

98 1538749

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

No. 5907

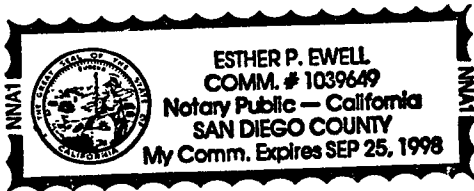
State of California

County of San Diego

On August 11, 1998 before me, Esther P. Ewell, Notary Public
DATE NAME, TITLE OF OFFICER - E.G., "JANE DOE, NOTARY PUBLIC"

personally appeared Thomas M. Boothe
NAME(S) OF SIGNER(S)

☒ personally known to me - **OR** - ☐ ~~proved to me on the basis of satisfactory evidence~~
to be the person(s) whose name(s) is/are
subscribed to the within instrument and ac-
knowledged to me that he/she/they executed
the same in his/her/their authorized
capacity(ies), and that by his/her/their
signature(s) on the instrument the person(s),
or the entity upon behalf of which the
person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Esther P. Ewell

SIGNATURE OF NOTARY

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
☐ CORPORATE OFFICER

TITLE(S)

- ☐ PARTNER(S) ☐ LIMITED
☐ GENERAL
☐ ATTORNEY-IN-FACT
☐ TRUSTEE(S)
☐ GUARDIAN/CONSERVATOR
☐ OTHER: _____

SIGNER IS REPRESENTING:
NAME OF PERSON(S) OR ENTITY(IES)

DESCRIPTION OF ATTACHED DOCUMENT

Notice of Exercise of
Power of Termination

TITLE OR TYPE OF DOCUMENT

NUMBER OF PAGES

DATE OF DOCUMENT

98 1538749

SIGNER(S) OTHER THAN NAMED ABOVE

APPENDIX F

Covenant to Restrict Use of Property Environmental Restriction (for Installation Restoration Sites 11, 12, and 13 at Former Long Beach Naval Shipyard, Pier Echo, Port of Long Beach)

APPENDIX F

Covenant to Restrict Use of Property Environmental Restriction (for Installation Restoration Sites 11, 12, and 13 at Former Long Beach Naval Shipyard, Pier Echo, Port of Long Beach)

04 1755443



TITLE(S) : _____



FEE

D.T.T

FREE U

18

CODE
20

CODE
19

CODE
9 _____

Assessor's Identification Number (AIN)

To be completed by Examiner OR Title Company in black ink.

Number of AIN's Shown

RECORDING REQUESTED BY:
City of Long Beach
Acting by and through its
Board of Harbor Commissioners
925 Harbor Plaza
P.O. Box 570
Long Beach, California 90802

04 1755443

WHEN RECORDED, MAIL TO:
Department of Toxic Substances Control
Region IV
5796 Corporate Avenue
Cypress, California 90630
Attention: Mr. John Scandura, Chief
Office of Military Facilities

SPACE ABOVE THIS LINE RESERVED FOR RECORDER'S USE

COVENANT TO RESTRICT USE OF PROPERTY

ENVIRONMENTAL RESTRICTION

(FOR INSTALLATION RESTORATION SITES 11, 12, AND 13 AT FORMER LONG BEACH NAVAL SHIPYARD, PIER ECHO, PORT OF LONG BEACH)

This Covenant and Agreement ("Covenant") is made by and between the City of Long Beach (the "Covenantor") acting by and through its Board of Harbor Commissioners, the current owner of property situated in the City of Long Beach, County of Los Angeles, State of California, described in Exhibit "A" attached hereto and incorporated herein by this reference (the "Property"), and the California Department of Toxic Substances Control (the "Department"). Pursuant to California Civil Code (Civil Code) section 1471(a)(3), California Health and Safety Code (Health and Safety Code) sections 25222.1(a) and 25355.5(a)(1)(C) the Department has determined that this Covenant is reasonably necessary to protect present or future human health or safety

or the environment as a result of the presence on the land of hazardous materials as defined in Health and Safety Code section 25260. The Covenantor and the Department, collectively referred to as the "Parties", hereby agree, pursuant to Civil Code section 1471, and Health and Safety Code sections 25222.1(a) and 25355.5(a)(1)(C), that the use of the Property be restricted as set forth in this Covenant; and the Parties further agree that the Covenant shall comply with the requirements of California Code of Regulations, title 22, section 67391.1.

ARTICLE I

STATEMENT OF FACTS

1.01 The Property, consisting of four parcels, totaling approximately 17 acres, is more particularly described and depicted in Exhibit "A", Installation Restoration (IR) Site 11A, IR Site 11B, IR Site 12, and IR Site 13, attached hereto and incorporated herein by this reference. The Property is located in an area formerly designated by the United States Department of the Navy (DON) as Pier Echo, City of Long Beach, County of Los Angeles, State of California which is generally bounded by Ocean Boulevard to the north, the Long Beach Harbor Back Channel to the east, Long Beach Harbor West Basin to the south and west, and the former Long Beach Naval Shipyard to the west.

1.02 The DON and the Department entered into a Federal Facilities Site Remediation Agreement (FFSRA) for the Long Beach Naval Complex on July 17, 2000. IR Sites 11, 12, and 13 are subject to the FFSRA. Pursuant to the FFSRA, the DON may satisfy some or all of its corrective action obligations under the Resource Conservation and Recovery Act (RCRA) (42 USC § 6901 et seq.) or Health and Safety

Code section 25200.10 through CERCLA response actions.

The Property is being remediated pursuant to two Records of Decision (RODs) pursuant to the Defense Environmental Restoration Program (DERP), 10 U.S.C. section 2701 et seq., and CERCLA. The RODs will provide that land use controls be required as part of the site remediation because semi-volatile organic compounds (SVOCs), metals, and polycyclic aromatic hydrocarbons (PAHs) are hazardous substances, as defined in Health and Safety Code section 25316, and hazardous materials, as defined in Health and Safety Code section 25260, which remain in some parts of the Property at depths of 1 foot or more below the surface of the Property. The DON circulated a Proposed Plan for Installation Restoration (IR) Site 11 and will be circulating a Proposed Plan for IR Sites 12 and 13 for public review and comment. RODs for IR Sites 11, 12, and 13 will be approved by the DON and concurred with by the Department.

The Department's Remedial Action Plan (RAP) requirements were satisfied by the Remedial Investigation (RI) Report of June 1997 and Feasibility Study Reports for IR Site 11 and IR Sites 12, and 13. Health and Safety Code section 25356.1 RAP requirements will be incorporated into the RODs to fulfill state requirements.

In 2001, the covenantor constructed site improvements at IR Site 12, which included: regrading the site surface, paving most of the area for parking and roadways, excavating areas designated for landscaping to 5 feet below ground surface, and adding clean imported soil to a height above the original grade. The DON subsequently conducted a fate and transport analysis to evaluate the effectiveness of the surface improvements as a cap for the soil. The results indicated that none of the soil

chemicals of potential concern (identified in Section 1.03 below) would reach the harbor waters at concentrations above the California Ocean Plan criteria. Prohibiting such migration was a remedial action objective of the DON's Feasibility Study. Maintenance of the parking lots and roadways above IR Site 12 will be performed by the Covenantor.

1.03 As described in the Remedial Investigation, Supplemental Groundwater Investigation, and Feasibility Study as submitted by the DON, which will be approved by the Department in the Proposed Plan, a portion of the subsurface soils of the Property contain hazardous substances, as defined in Health and Safety Code section 25316. The hazardous substances include the following contaminants of concern in the ranges set forth below:

IR Site 11 soil contains the following organic contaminants of concern: benzo(a)pyrene (1.0), benzo(b)fluoranthene (1.3), dibenz(a,h)anthracene (0.83), indeno(1,2,3-c,d)pyrene (1.1). IR Site 11 soil contains the following inorganic contaminants of concern: arsenic (39), barium (579), chromium total (244), copper (3,360), manganese (3,350). The values shown in parenthesis are the maximum concentrations measured at the site in milligrams per kilogram.

IR Sites 12 and 13 soils contain the following organic contaminants of concern: anthracene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-c,d)pyrene. The highest total SVOC concentration is 810 milligrams per kilogram, and the highest total PAH concentration is 93.2 milligrams per kilogram. IR Sites 12 and 13 soils contain the following inorganic contaminants of concern: aluminum (29,400), antimony (15.8), arsenic (49), barium (1190), total chromium (268), cobalt (40.9), copper (3,060),

iron (110,000), lead (2,080), manganese (2,250), mercury (5.8), nickel (47.3), vanadium (96.9), and zinc (1,880). The values shown in parenthesis are the maximum concentrations measured at the site in milligrams per kilogram. It should be noted that these maximum higher concentrations may no longer exist at IR Site 12 due to soil removal efforts conducted in certain areas by the Port of Long Beach in 2001.

Based on the Final Risk Assessment, the Department and the DON have concluded that residential use of the Property or uses including child-care centers, playgrounds, schools, or hospitals could potentially entail an unacceptable cancer risk to the users or occupants of such property. The Department and the DON have further concluded that the Property as operated or occupied subject to the restrictions of this Covenant, does not present an unacceptable threat to human health or safety or the environment.

Groundwater at IR Site 11 is generally found at approximately 25 feet below ground surface. Groundwater at IR Sites 12 and 13 is generally found at approximately 16 to 20 feet below ground surface. There are no organic chemicals of potential concern identified in the groundwater beneath IR Site 11. Inorganic chemicals were not detected above background thresholds in the groundwater beneath IR Site 11.

There are no organic chemicals of potential concern identified in the groundwater beneath IR Sites 12 and 13. The groundwater beneath IR Sites 12 and 13 contains the following inorganic contaminants of concern: arsenic (1,190), iron (15,300), manganese (4,710), and thallium (9.6). The values shown in parenthesis are the maximum concentrations measured at the site in micrograms per liter.

Based on the Final Risk Assessment the Department and the DON concluded

that the groundwater, subject to the restrictions of this Covenant, does not present an unacceptable threat to human health or safety or the environment.

ARTICLE II

DEFINITIONS

2.01 Department. "Department" means the California Department of Toxic Substances Control and includes its successor agencies, if any.

2.02 Owner. "Owner" means the Covenantor, its successors in interest, and their successors in interest, including heirs and assigns, during his or her ownership of all or any portion of the Property.

2.03 Occupant. "Occupant" means Owners and any person or entity entitled by ownership, leasehold, or other legal relationship to the right to occupy any portion of the Property.

2.04 Covenantor. "Covenantor" shall mean the City of Long Beach acting by and through its Board of Harbor Commissioners.

ARTICLE III

GENERAL PROVISIONS

3.01 Restrictions to Run with the Land. This Covenant sets forth protective provisions, covenants, restrictions, and conditions (collectively referred to as "Restrictions"), subject to which the Property and every portion thereof shall be improved, held, used, occupied, leased, sold, hypothecated, encumbered, and/or conveyed. These Restrictions are to be consistent with the separate restrictions placed

in any deed by and in favor of the Covenantor, conveying the Property from the Covenantor to its successor in interest. Each and every Restriction: (a) runs with the land in perpetuity pursuant to Health and Safety Code sections 25222.1(a), 25355.5(a)(1)(C), and Civil Code section 1471; (b) inures to the benefit of and passes with each and every portion of the Property; (c) shall apply to and bind all subsequent Occupants of the Property; (d) is for the benefit of, and is enforceable by the Department; and (e) is imposed upon the entire Property unless expressly stated as applicable only to a specific portion thereof.

3.02 Binding upon Owners/Occupants. Pursuant to Health and Safety Code sections 25222.1(a) and 25355.5(a)(1)(C), this Covenant binds all Owners of the Property, their heirs, successors, and assignees, and the agents, employees, and lessees of the owners, heirs, successors, and assignees. Pursuant to Civil Code section 1471(b), all successive owners of the Property are expressly bound hereby for the benefit of the Department.

3.03 Written Notice of Hazardous Substance Release. The Owner shall, prior to the sale, lease, or rental of the Property, give written notice to the subsequent transferee that a release of hazardous substances has come to be located on or beneath the Property, pursuant to Health and Safety Code section 25359.7. Such written notice shall include a copy of this Covenant.

3.04 Incorporation into Deeds and Leases. The Restrictions set forth herein shall be incorporated by reference in each and all deeds and leases for any portion of the Property.

3.05 Conveyance of Property. The Owner shall provide notice to the

Department not later than thirty (30) days after any conveyance of any ownership interest in the Property (excluding mortgages, liens, and other non-possessory encumbrances). The Department shall not, by reason of this Covenant alone, have authority to approve, disapprove, or otherwise affect a conveyance, except as otherwise provided by law, by administrative order, or by a specific provision of this Covenant.

3.06 Costs of Administering the Deed Restriction to be paid by Owner. The terms of this deed restriction run with the land and will continue in perpetuity unless a variance is granted pursuant to section 6.01, or unless terminated pursuant to section 6.02. The Department has incurred and will in the future incur costs associated with the administration of this deed restriction. Therefore, the Owner hereby covenants for himself and for all subsequent owners that, pursuant to California Code of Regulations, title 22, section 67391.1(h), the property owner agrees to pay Department's costs associated with the administration of this Covenant. In the event that property ownership changes between the times the Department incurs administrative costs and the invoice for such costs is received, each owner of the property for the period covered by the invoice as well as the current owner is responsible for such costs.

ARTICLE IV

RESTRICTIONS

4.01 Prohibited Uses.

The Property shall not be used for any of the following purposes:

- (a) A residence, including any mobile home or factory built housing constructed or installed for use as residential human habitation.

- (b) Child-care centers, playgrounds, schools, or hospitals.

4.02. Soil and Groundwater Management.

Removal and disposal of contaminated soil or groundwater shall be conducted in accordance with all applicable Federal, state, and local regulations governing removal, transport, and disposal. Furthermore, the Owner or Occupant shall not:

- (a) Drill or excavate into the subsurface and expose groundwater within the shallow or principal aquifer unless the Department and the Los Angeles Regional Water Quality Control Board determine that there will be no adverse effect on the remedy and approve the drilling excavation. Groundwater wells for the purpose of monitoring the contaminants at the site are not subject to this provision.
- (b) Extract groundwater from the shallow or principal aquifer for drinking, irrigation or commercial purposes without the prior approval of the Los Angeles Regional Water Quality Control Board.
- (c) Inject fluids that may affect groundwater/plume flow direction without the prior approval of the Los Angeles Regional Water Quality Control Board.

4.03 Prohibited Activities. Site operations shall be restricted to industrial uses consistent with the California Coastal Act and the certified Port Master Plan for the Port of Long Beach.

4.04 Non-Interference with ongoing monitoring, assessment, or remediation activities. Construction, operations, or other activities on the Property shall not interfere with ongoing monitoring, assessment, or remediation activities being conducted by or for federal, state, or local regulatory agencies, unless

specifically approved by the Department. Disturbance of future groundwater wells (installed for ongoing monitoring, assessment, or remediation) is prohibited unless specifically approved by the Department.

4.05 Access for Department. The Department shall have reasonable right of entry and access to the Property for inspection, monitoring, and other activities consistent with the purposes of this Covenant as deemed necessary by the Department in order to protect the public health or safety, or the environment.

4.06 Access for the DON. The Department of Navy shall have reasonable right of entry and access to the Property for inspection, monitoring, and other remediation activities consistent with the purposes of this Covenant as deemed necessary by the Department in order to protect the public health or safety, or the environment.

ARTICLE V

ENFORCEMENT

5.01 Enforcement. Failure of the Owner or Occupant to comply with any of the Restrictions specifically applicable to the Property shall provide grounds for the Department to require that the Owner modify or remove any improvements ("Improvements" herein shall mean, but not be limited to, all buildings, roads, driveways, paved parking areas, and utilities) constructed or placed upon any portion of the Property in violation of the Restrictions. Violation of this Covenant by the Owner or Occupant may result in the imposition of civil and/or criminal remedies including nuisance or abatement against the Owner or Occupant as provided by law.

ARTICLE VI

VARIANCE AND TERMINATION

6.01 Variance. The Owner, or with the Owner's consent, any Occupant, may apply to the Department for a written variance from the provisions of this Covenant. Such application shall be made in accordance with Health and Safety Code section 25233. The Department will grant the variance only after finding that such a variance would be protective of human, health, safety and the environment.

6.02 Termination. The Owner, or with the Owner's consent, any Occupant, may apply to the Department for a termination of the Restrictions or other terms of this Covenant as they apply to all or any portion of the Property. Such application shall be made in accordance with Health and Safety Code section 25234.

ARTICLE VII

MISCELLANEOUS

7.01 No Dedication Intended. Nothing set forth in this Covenant shall be construed to be a gift or dedication, or offer of a gift or dedication, of the Property, or any portion thereof to the general public or anyone else for any purpose whatsoever.

7.02 Recordation. The Covenantor shall record this Covenant, with all referenced Exhibits, in the County of Los Angeles within thirty (30) days of the Covenantor's receipt of a fully executed original.

7.03 Notices. Whenever any person gives or serves any Notice ("Notice" as used herein includes any demand or other communication with respect to this

Covenant), each such Notice shall be in writing and shall be deemed effective: (1) when delivered, if personally delivered to the person being served or to an officer of a corporate party being served, or (2) three (3) business days after deposit in the mail, if mailed by United States mail, postage paid, certified, return receipt requested:

To Owner: City of Long Beach, c/o Port of Long Beach
925 Harbor Plaza, P. O. Box 570, Long Beach, CA 90802

To Department: Department of Toxic Substances Control, Region IV
5796 Corporate Avenue, Cypress, CA 90630

Any party may change its address or the individual to whose attention a Notice is to be sent by giving written Notice in compliance with this paragraph.

7.04 Partial Invalidity. If any portion of the Restrictions or other term set forth herein is determined by a court of competent jurisdiction to be invalid for any reason, the surviving portions of this Covenant shall remain in full force and effect as if such portion found invalid had not been included herein.

7.05 Statutory References. All statutory references include successor provisions.

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IN WITNESS WHEREOF, the Parties execute this Covenant.

04 1755443

CITY OF LONG BEACH,
Acting by and through the
Board of Harbor Commissioners

By:



Title: RICHARD D. STEINKE
Executive Director

Date: 2-5-04

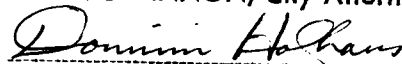
APPROVED AS TO FORM

2/4

, 20 04

ROBERT E. SHANNON, City Attorney

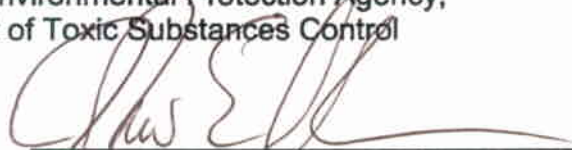
By



PRINCIPAL DEPUTY CITY ATTORNEY

THE STATE OF CALIFORNIA,
Acting by and through the
California Environmental Protection Agency,
Department of Toxic Substances Control

By:



Title: JOHN E. SCANDURA, Chief
Southern California Branch
Office of Military Facilities

Date: 5-14-04

15

STATE OF CALIFORNIA)
COUNTY OF Los Angeles)

04 1755443

On this 4th day of May, in the year 2004,
before me Nancy L. Mitchell, Notary Public, personally appeared
Richard D. Steinke

personally known to me (or ~~proved to me on the basis of satisfactory evidence~~) to be
the person(s) whose name(s) is are subscribed to the within instrument and
acknowledged to me that he ~~she/they~~ executed the same in his ~~her/their~~ authorized
capacity(ies), and that by his ~~her/their~~ signature(s) on the instrument the person(s), or
the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature Nancy L. Mitchell



16

STATE OF CALIFORNIA)

04 1755443

COUNTY OF ORANGE)

On this 14th day of MAY 2004 ^{CC}, in the year 2004,

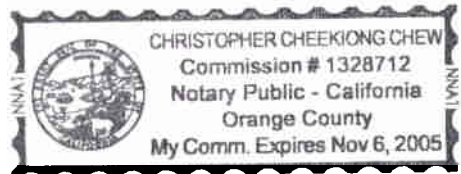
before me CHRISTOPHER CHEEKIONG CHEW, Notary Public, personally appeared

JOHN E SCANDURA

~~personally known to me~~ (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is ~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature



City of Long Beach
Installation Restoration Program Sites
(IRP 11A, IRP 11B, IRP 12 and IRP 13)

Surveyor's Notes:

Bearings herein are based on a line shown on Record of Survey 158 pages 76-80, recorded as document number 98-240904 in the office of the County Recorder for Los Angeles County, State of California; said line having a bearing of North 19°23'02" West 1699.63 feet, which for the purpose of this description is rotated to North 19°11'37" West.

All bearings and distances shown hereon are grid and are calculated inverses based upon California Coordinate System of 1983 Zone 5, adjusted State Plane Coordinates, Epoch: 1991.35 in U.S. survey feet, shown in Long Beach Harbor Department Field Book HD3023.

Ground distances may be obtained by dividing grid distances by the mean combination factor of established control stations nearest the points being measured. The combination factor used within the limits of this survey was 1.00007550.

IRP Site 11A

That portion of Parcel S, described in a judgment vesting title action entitled "The United States of America Versus 1039 Acres of Land More or Less," Civil No. 63-1204-HW, filed in the United States District Court, Southern District of California, Central Division on October 7, 1963, as shown on said Record of Survey 158, described as follows:

Beginning at an angle point in the Westerly Line of said Parcel S, being also the southeasterly corner of Parcel R as shown on said Record of Survey 158 page 80; thence northerly along the Westerly Line of said Parcel S the following courses; North 19°06'08" West 100.00 feet; North 19°11'37" West 200.15 feet to the **True Point of Beginning**; thence continuing North 19°11'37" West 955.36 feet along said Westerly Line; thence departing said Westerly Line of said Parcel S, North 70° 48'23" East 152.60 feet; thence South 19°11'37" East 540.46 feet; thence North 70°48'23" East 60.48 feet; thence South 19°11'37" East 100.66 feet; thence North 70°48'23" East 18.99 feet; thence South 19°11'37" East 556.23 feet; thence South 70°48'23" West 180.69 feet; thence North 19°11'37" West 241.99 feet; thence South 70°48'23" West 51.39 feet to the **True Point of Beginning**.

CONTAINING: 0.58 Acres, more or less.

IRP Site 11B

That portion of Parcel S, described in a judgment vesting title action entitled "The United States of America Versus 1039 Acres of Land More or Less," Civil No. 63-1204-HW, filed in the United States District Court, Southern District of California, Central Division on October 7, 1963, as shown on said Record of Survey 158, described as follows:

Beginning at an angle point in the Westerly Line of said Parcel S, being also the southeasterly corner of Parcel R as shown on said Record of Survey 158 page 80; thence northerly along the Westerly Line of said Parcel S the following courses, North 19°06'08" West 100.00 feet, North 19°11'37" West 1227.16 feet to the **True Point of Beginning**; thence continuing North 19°11'37" West 464.07 feet along said Westerly Line; thence departing said Westerly Line of said Parcel S, North 70°48'23" East 54.73 feet; thence South 19°11'37" East 464.07 feet; thence South 70°48'23" West 54.73 feet to the **True Point of Beginning**.

CONTAINING: 5.06 Acres, more or less.

IRP Site 12

That portion of Parcel S, described in a judgment vesting title action entitled "The United States of America Versus 1039 Acres of Land More or Less," Civil No. 63-1204-HW, files in the United States District Court, Southern District of California, Central Division on October 7, 1963, as shown on said Record of Survey 158, described as follows:

Beginning at the northeasterly corner of said Parcel S; thence southeasterly along the Easterly Line of said Parcel S, South 23°28'17" East 1146.67 feet to the **True Point of Beginning**; thence continuing along said Easterly Line of said Parcel S, South 23°28'17" East 336.37 feet; thence South 0°04'46" West 481.86 feet along said Easterly Line; thence departing said Easterly Line of said Parcel S, South 70°48'43" West 395.54 feet; thence North 18°46'30" West 120.63 feet; thence South 70°49'56" West 103.88 feet; thence North 14°34'24" West 628.25 feet; thence North 66°32'37" East 583.50 feet to the **True Point of Beginning**.

CONTAINING: 10.01 Acres, more or less.

IRP Site 13

That portion of Parcel S, described in a judgment vesting title action entitled "The United States of America Versus 1039 Acres of Land More or Less," Civil No. 63-1204-HW, files in the United States District Court, Southern District of California, Central Division on October 7, 1963, as shown on said Record of Survey 158, described as follows:

Beginning at the northeasterly corner of said Parcel S; thence southeasterly along the Easterly Line of said Parcel S, South 23°28'17" East 1483.04 feet; thence South 0°04'46" West 481.86 feet along said Easterly Line to the **True Point of Beginning**; thence continuing along the Easterly Line of said Parcel S; South 0°04'46" West 93.90 feet; thence South 19°00'59" East 57.70 feet along said Easterly Line; thence departing the Easterly Line of said Parcel S, South 71°00'46" West 365.43 feet; thence North 18°46'30" West 145.06 feet; thence North 70°48'43" East 395.54 feet to the **True Point of Beginning**.

CONTAINING: 1.25 Acres, more or less.



LOCATION

VICINITY MAP

NE/ly Corner
Parcel S
Point of Beginning
For IRP 12 & 13
N 1735950.71
E 6493706.27

IRP 11B
(0.58 Ac.)

N 70° 48' 23" E
54.73

N: 9° 11' 37" W
464.07'

True Point
of Beginning
N 1735123.46
E 6492927.04

N19°11'37"W
71.65'

570° 48' 23" W

PARCEL 'S'
(Civil No. 63-1204-HW)
per R.S.158/76-80

True Point
of Beginning
for IRP 12

N 1734898.92
E 6494162.98

IRP 12
(10.01 Ac.)

True Point
of Beginning
for IRP 13

N 1734108.52
E 6494236.28

S0°04'46"W
93.90'
S19°00'59"E
57.70'

PARCEL 'R'
Civil No. 65-1204-HW)
per R.S. 158:76-80

True Point
of Beginning

N 1734153.53
E 6493264.68

N19° 11' 37" N
200.15'

N19° 06' 08" W
100.00'

SE/ly Corner
Parcel R
Point of Beginning
For IRP 11A & 11B
N 1733870.01
E 6493363.21



THE PORT OF LONG BEACH

925 HARBOR PLAZA P.O. BOX 570 LONG BEACH, CALIFORNIA 90801 TEL. (562) 437-0011

04 1755443