N00236_004398
ALAMEDA POINT
SSIC NO. 5090.3.A

FINAL
Amendment to the Record of Decision

Installation Restoration Site 1
Alameda Point, Alameda, California

Submitted to:
U.S. Department of the Navy
Base Realignment and Closure
Program Management Office West
1455 Frazee Road, Suite 900
San Diego, California 92108-4310
PERMAC Contract No. N62473-08-D-8816
Contract Task Order 0002

Submitted by:
AMEC Environment & Infrastructure, Inc.
9210 Sky Park Court, Suite 200
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Document Control No. AMEC-8816-0002-0190

September 2013

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AMENDED DECLARATION STATEMENT FOR BURN AREA OF IR SITE 1

Site Name and Location

This amendment to the 2009 Record of Decision (ROD) (Chadux Tt 2009) addressing Installation Restoration (IR) Site 1 amends the selected remedy for Area 1b (the "Burn Area") at IR Site 1 in Alameda, California. The U.S. Environmental Protection Agency (U.S. EPA) Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Information System identification number is CA2170023236. This CERCLA identification number is for all of the Alameda Naval Air Station and includes IR Site 1.

Statement of Basis and Purpose

This ROD Amendment (RODA) selects an amended remedy to remediate soil at the Burn Area of IR Site 1. The amended remedy is being selected in accordance with CERCLA of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986 (Title 42 *United States Code* [USC] Section 9601, et seq.) and, to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan (NCP; Title. 40 *Code of Federal Regulations* [CFR] §300). This RODA and the amended selected remedy for the Burn Area are supported by information contained in the administrative record file for the site. The Department of the Navy and U.S. EPA have jointly selected the amended remedy and the California Environmental Protection Agency Department of Toxic Substances Control (DTSC) and the San Francisco Bay Regional Water Quality Control Board (Water Board) concur on the selected amended remedy for the Burn Area of IR Site 1.

Assessment of the Site

The amended remedy selected in this RODA maintains the same level of protection of the public health and welfare and the environment from actual or threatened releases of hazardous substances, pollutants and contaminants from soil and groundwater at the Burn Area at IR Site 1 as the originally selected remedy. In addition, the selected amended remedy reduces short term impacts and offers added benefits under other evaluation factors including implementability and cost. The amended selected remedy was based on the following:

- Site histories
- Field investigations
- Laboratory analytical results
- Evaluation of potential human health and ecological risks
- Current and reasonably anticipated future land use; and the

- 2009 IR Site 1 ROD

Results of the previous investigations indicated that the Burn Area of IR Site 1 poses a potential risk to human health and the environment based on current and reasonably anticipated future land use.

Description of the Selected Amended Remedy (i.e., Alternative BA-1)

The Navy has prepared this RODA for IR Site 1 because soil investigations indicated a different conceptual model than was used for the originally selected remedy. The selected amended remedy is more effective in the short-term, implementable, and cost-effective. Both the selected remedy from the ROD and the selected amended remedy in this RODA are considered protective to human health and the environment; however, in light of the new information, the implementability, timeline for implementation, and the associated cost estimate for the ROD selected remedy for the Burn Area significantly changed. The original remedy for soil in Area 1b involved excavation and offsite disposal of exhumed wastes. The evaluation and selection of the ROD remedy was based on limited data, particularly with respect to the extent of the Area 1b wastes to be removed.

Additional data gathered during characterization performed to complete the remedial design of the ROD selected remedy revealed that the burn wastes in Area 1b were located closer to and under the shoreline slope and deeper compared with data used to support the ROD selected remedy. The Post-ROD trenching, soil boring, and soil sampling results from pre-design characterization conducted between 2010 and 2012 provide a significantly better representation of the nature and extent of the burn residue and surrounding impacted soil compared with previous investigations. Prior to these post-ROD characterization efforts, the extent of the Burn Area was primarily based on review of aerial photographs from the 1950s, which showed the Burn Area occupying 3.7 acres at the northwestern end of Alameda Point. The original site conceptual model asserted that burn residue was limited to within the upper 10 feet of the 3.7 acres and did not extend under the shoreline slope. This information was used to form the basis for comparative analysis of remedial alternatives during the Feasibility Study and in development of the ROD. The results from the recent investigations completed between 2010 and 2012 revealed that the burn residues derived from Burn Area activities conducted in the 1950s occupy approximately 4.3 acres, present beneath the top of the shoreline slope, and up to 28 feet below ground surface.

The amended remedy included in this RODA incorporates an Open Cell steel sheet pile waste isolation bulkhead (WIB) to contain waste in the event of a seismic occurrence and placement of a soil cover over the inland portion of the Burn Area to isolate waste from potential recreational use and terrestrial ecological receptors. The soil cover will be an extension of the soil cover being placed over the remaining inland portions of IR Site 1.

Comparative analysis of the Area 1 (i.e., Areas 1a and 1b) Soil Remedy Alternatives as presented in Section 9 of the ROD states that the alternative, which consisted of covering

Area 1b and not excavating the burn waste, Alternative S1-2, was judged to be the most effective in the short-term, most implementable, and least costly among the Area 1 remedial alternatives. The ROD selected remedy, which consists of excavation of the burn waste, Alternative S1-4a, was rated next highest in satisfying the balancing criteria. It was judged to be slightly less implementable and more costly than Alternative S1-2.

Only a portion of the ROD selected remedy for Soil Area 1 is considered for amendment in this document. Soil Alternative S1-4a included six elements, 1) Soil Cover, 2) Excavation of Area 1b, 3) Radiological Screening, 4) Materials Presenting a Potential Explosive Hazard (MPPEH) Sweep, 5) Wetlands Mitigation Plan (WMP), and 6) Institutional Controls (ICs). Element 5, WMP does not apply to the Burn Area, but is part of the ROD selected remedy for Area 1 and remains unchanged. Element 3 - Radiological Screening, Element 4 - MPPEH Hazard Sweep, and Element 6 - ICs, remain part of the Burn Area remedy as described in the ROD. This RODA contains changes to the selected Remedial Alternative S1-4a Element 1 - Soil Cover and Element 2 - Excavation as follows:

- Element 1: Soil Cover – The soil cover will be extended over the Burn Area, as well as the main disposal area, as defined in the ROD.
- Element 1a: Waste Isolation Bulkhead (WIB) – A steel sheet pile bulkhead will be placed between the San Francisco Bay and the principal portion of the Burn Area to stabilize the shoreline slope and contain the waste left in place from exposure resulting in an slope failure. Based on the detailed pre-design characterization work performed in the Burn Area, this principal portion accounts for more than 95% of the burn waste volume. This WIB will be designed to prevent slope failure resulting from the design-level earthquake as specified in the soil cover applicable or relevant and appropriate requirements (ARARs).
- Element 2: Excavation – Excavation will be limited to the portion of the burn layer outside the WIB. Burn layer materials exhumed from the select excavation area exhibiting radiological levels less than two times background will be placed over the burn layer footprint contained by the WIB and inland of the existing shoreline slope. Non-burn-layer materials exhumed from the select excavation area exhibiting radiological levels less than two times background will be placed within the inland portion of Area 1a and used to construct the foundation layer beneath the soil cover. Only those materials exhibiting radiological levels at or exceeding two times background, as determined using gamma radiation field screening instruments, will be segregated and disposed offsite. Exhumed material from above the water table will be scanned in place to identify materials exhibiting radiological levels at or above two times background. Saturated materials from below the water table will be exhumed and transported to the on-site waste management area for drying and screening. Materials exhibiting radiological levels at or more than two-times background will be transported off site for disposal.

These changes to Remedial Alternative S1-4a are called the selected amended remedy (i.e., Alternative BA-1). They replace Element 1 and Element 2 of Remedial Alterative S1-4a as contained in the ROD.

Statutory Determinations

The selected soil and groundwater remedies for chemical and radiological contamination at IR Site 1, including the amended selected remedy for Area 1b, are protective of human health and the environment, comply with federal and state requirements that are legally applicable or relevant and appropriate to the remedial action, are cost-effective, and utilize permanent solutions and alternative treatment technologies to the maximum extent practicable. The ROD and amended selected remedies will obviate the need for and satisfy the corrective action requirements of Resource Conservation and Recovery Act (RCRA) or otherwise applicable state hazardous waste or water quality protection laws. The ROD and RODA selected soil remedies do not satisfy the statutory preference for a remedy that reduces the toxicity, mobility, or volume of hazardous substances through treatment as a principal element. Several treatment technologies for soil were evaluated in the Feasibility Study (FS); however, these technologies were eliminated as the preferred alternative because of concerns over effectiveness, implementability, and high costs. Statutory 5-year reviews pursuant to CERCLA §121 and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) will be conducted because the soil and groundwater remedies will leave contamination in place at IR Site 1 above levels which allow for unrestricted use and unlimited exposure.

This RODA does not select a remedial action remedy for chemical or radiological contamination in Areas 2a, 3a, or 3b nor does this RODA change the original accepted remedies from the ROD for Areas 1a, 2b, 4, 5a, 5b, or site-wide radiologically-impacted soil. Active groundwater treatment as described in the ROD is not altered as part of this RODA and is ongoing in the VOC plume. Groundwater monitoring planned for IR Site 1 as part of the ROD groundwater remedy will be expanded to include the Burn Area.

This signature sheet documents that the Navy and U.S. EPA have jointly selected the amended remedy and the California Environmental Protection Agency Department of Toxic Substances Control (DTSC) and the San Francisco Bay Regional Water Quality Control Board (Water Board) concur on the selected amended remedy for the Burn Area of IR Site 1. The respective parties may sign this sheet in counterparts.

Authorizing Signatures

9/23/13

Signature **Date**

Mr. Derek Robinson
Base Realignment and Closure Environmental Coordinator
Base Realignment and Closure Program Office West
Department of the Navy

12/05/13

Signature **Date**

Mr. Michael M. Montgomery
Assistant Director
Federal Facilities and Site Cleanup Branch, Region 9
United States Environmental Protection Agency

12/10/2013

Signature **Date**

Ms. Karen M. Toth
Unit Chief
Berkeley Office
California Environmental Protection Agency
Department of Toxic Substances Control

12/12/13

Signature **Date**

Mr. Bruce H. Wolfe
Executive Officer
San Francisco Bay Regional Water Quality Control Board

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ACRONYMS AND ABBREVIATIONS

95UCL	95% upper confidence level
AMEC	AMEC Environment & Infrastructure, Inc.
ARAR	applicable or relevant and appropriate requirements
ASTM	American Society for Testing and Materials
bcy	bank cubic yards
bgs	below ground surface
BRAC	Base Realignment and Closure
BSU	Bay Sediment Unit
CCR	California Code of Regulations
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
COPC	chemical of potential concern
COC	Contaminant of Concern
COEC	Contaminant of Ecological Concern
COPEC	Contaminant of Potential Ecological Concern
CTO	Contract Task Order
CTR	California Toxics Rule
DAF	dilution attenuation factor
DCE	dichloroethene
DDD	dichlorodiphenyldichloroethane
DDT	dichlorodiphenyltrichloroethane
DTSC	(California) Department of Toxic Substances Control
EPA	Environmental Protection Agency
EPC	exposure point concentration
ESL	Environmental Screening Level
ERA	ecological risk assessment
FS	Feasibility Study
FFS	Focused Feasibility Study
FWBZ	First Water-Bearing Zone
HHRA	human-health risk assessment
HI	Hazard Index
IC	Institutional Control
IR	Installation Restoration

ACRONYMS AND ABBREVIATIONS (Cont.)

mg/kg	milligrams per kilogram
mrem/yr	millirems per year
MPPEH	Material Potentially Presenting an Explosive Hazard
MSL	mean sea level
NAS	Naval Air Station
NAVFAC SW	Naval Facilities Engineering Command Southwest
Navy	U.S. Department of the Navy
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NRC	Nuclear Regulatory Commission
NTR	National Toxics Rule
O&M	operation and maintenance
OEHHA	Office of Environmental Health Hazard Assessment (of the DTSC)
PAH	polycyclic aromatic hydrocarbon
PAL	Project Action Limit
PCB	polychlorinated biphenyl
PCDD	polychlorinated dibenzodioxin
PCDF	polychlorinated dibenzofuran
PRG	Preliminary Remediation Goal
RA	Remedial Action
RAB	Restoration Activity Board
RAGS	Risk Assessment Guidance for Superfund
RAO	Remedial Action Objective
RCRA	Resource Conservation and Recovery Act
RG	Remediation Goal
RI	Remedial Investigation
ROD	Record of Decision
RODA	Record of Decision (ROD) Amendment
SAP	Sampling and Analysis Plan
SDG	submarine discharge of groundwater
SFBRWQCB	San Francisco Bay Regional Water Quality Control Board
SLERA	screening-level ecological risk assessment
SSC	Sediment Screening Concentration
SWAT	solid waste assessment test
SWBZ	Second Water-Bearing Zone
SWRCB	(California) State Water Resources Control Board

ACRONYMS AND ABBREVIATIONS (Cont.)

TCDD	tetrachlorodibenzodioxin
TEF	toxic equivalency factor
TEQ	toxicity equivalent
U.S.	United States
USC	United States Code
USACE	U.S. Army Corps of Engineers
U.S. EPA	United States Environmental Protection Agency
UXO	unexploded ordinance
VOC	volatile organic compound
Water Board	San Francisco Regional Water Quality Control Board
WIB	waste isolation bulkhead
WMP	wetlands mitigation plan

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1.0 INTRODUCTION

Site Name:	Installation Restoration (IR) Site 1, 1943-1956 Disposal Area
Site Location:	Northwest corner of the former Naval Air Station (NAS), now referred to as Alameda Point, in Alameda, California
NAS Alameda CERCLA ID Number:	CA2170023236
Lead Agency:	U.S. Navy Base Realignment and Closure Program Management Office West
Support Agencies:	U.S. Environmental Protection Agency (U.S. EPA), Region 9, California Environmental Protection Agency's Department of Toxic Substances Control (DTSC) and the San Francisco Bay Regional Water Quality Control Board (RWQCB)

The Final Record of Decision (ROD) for IR Site 1 at Alameda Point, Alameda, California, issued on September 17, 2009, selected remedial actions for soil and groundwater contamination at IR Site 1. The IR Site 1 ROD was issued pursuant to the Department of the Navy's (DON) authority as the lead federal agency for the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) for remedy selection at sites at former NAS Alameda, pursuant to Sections 104 and 120 of CERCLA, Executive Order 12580, and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP; 40 Code of Federal Regulations [CFR] part 300). The lead regulatory agency for overseeing site cleanup at former NAS Alameda is the U.S. EPA. In addition to the U.S. EPA, state agencies, including the RWQCB, and the DTSC oversee the site cleanup at former NAS Alameda.

This Record of Decision (ROD) Amendment (RODA) will become part of the IR Site 1 Administrative Record. The IR Site 1 Administrative Record is available to the public at the following location:

Naval Facilities Engineering Command, Southwest
CERCLA Administrative Record
937 North Harbor Drive, Building 1
San Diego, CA 92132
Business hours: 8:00AM-5:00PM Monday-Friday

In addition, this RODA will also be available for review at the following website:

www.bracpmo.navy.mil

This Record of Decision (ROD) Amendment (RODA) selects an amended remedy for a portion of Installation Restoration (IR) Site 1 (designated as Area 1b or the Burn Area) at Alameda Point, Alameda, California. This document was developed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA) (Title 42 *United States Code* [USC] Section [§] 9601 et seq.) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP; Title. 40 *Code of Federal Regulations* [CFR] §300). The decision for the Burn Area of IR Site 1 is based on the information contained in the administrative record. The administrative record index for IR Site 1 can be found in Appendix A.

The following sections describe the site name and location, summarize the original ROD that was signed in September 2009 (Chadux Tt 2009), describe the need to revise the original remedy for Area 1b in IR Site 1, and outline the organization of this RODA.

1.1 Site Name, Location, and Description

This RODA only addresses Area 1b (the Burn Area) of IR Site 1 at the former Naval Air Station (NAS) Alameda, in Alameda, California. IR Site 1 is located within the boundary of Alameda Point, which is on the eastern side of San Francisco Bay and south of Oakland, California (Figure 1-1). IR Site 1 is located in the northwestern tip of Alameda Island, where the Oakland Inner Harbor joins San Francisco Bay (Figure 1-2).

IR Site 1 is approximately 37 acres in size and was historically used to dispose of waste, aircraft parts, and petroleum, and as a pistol and skeet range. The site is partially paved and has relatively flat topography, with slight depressions that promote seasonal wetlands. The site presently includes four small, abandoned buildings, a portion of former aircraft runway, a former pistol and skeet range, a former baseball field, a former aircraft engine and part storage area, and an underground storm water collection and conveyance system.

For the purpose of describing the selected remedial actions for portions of IR Site 1, the site was subdivided into six areas as shown in Figure 1-3. The Burn Area was titled Area 1b and was defined as the location where waste was burned and disposed of at the edge of the shoreline. This RODA addresses only an amendment to the remedy for the Burn Area and does not amend any of the remedies selected in the remaining site areas.

1.2 Burn Area Description

The Burn Area is a designated area within IR Site 1, delineated for specific consideration because of additional environmental concerns brought on by the burning of industrial waste and onsite disposal of the burn residues. The Navy Public Works Department implemented open-air burning as the primary waste disposal method at the site in the

1950s. Burned residue was subsequently pushed into San Francisco Bay with a bulldozer (E&E 1983). Aerial photographs from 1953 and 1957 show that between these dates the 400-foot shoreline near the Burn Area was extended approximately 130 feet westward into the San Francisco Bay (BEI 2006a). Logs for borings drilled during the solid waste assessment test (SWAT) program indicate that the shoreline was filled with burned and unburned refuse and a thin covering of sand (TtEMI 1999c). The shoreline in this area is now covered with revetment, consisting primarily of concrete-debris riprap. The surface of the Burn Area is covered with a layer of fill material varying in thickness between approximately 0.5 foot and 8 feet thick. This cover material contains detectable levels of chemicals of concern above remediation goals identified in the ROD (Chadux Tt 2009) within the first foot of the ground surface.

Offshore sediment samples were collected in 1993, 1994, and 1996 (PRC 1994 and 1996a). The SWAT results indicated that contaminant concentrations in sediment were generally within the range expected for ambient concentrations in the San Francisco Bay and unlikely to pose an increased health risk relative to the rest of the Bay (BEI 2006a).

1.3 Original Area 1b Selected Remedial Action

Only a portion of the ROD selected remedy for Soil in Area 1 is considered for amendment in this RODA. Soil Alternative S1-4a included six elements. These six elements are listed with summaries below.

- Element 1: Soil Cover – The main disposal area, Area 1a, consisting of the majority of the inland unpaved portions of IR Site 1 and excluding Area 1b are to be covered with a layer of clean imported soil.
- Element 2: Excavation of Area 1b – Excavation is to extend laterally in Area 1b to remove the visible burn layer. In areas where visible burn waste is removed, excavations are to continue vertically to meet remediation goals, even if the contamination extends below the water table. No excavations will extend past the 3.7-acre boundary depicted in the ROD. Excavated waste and soil that exceeds chemical or radiological remediation goals or contains MPPEH will be disposed of offsite. Excavated soil that is free of MPPEH and is below chemical and radiological remediation goals may be placed back into the excavation if it meets design considerations for the cover or it may be used as foundation material for the soil cover. The surface of Area 1b will be graded to match the surrounding Area 1a cover.
- Element 3: Radiological Screening – The surface will be scanned and radiological hot spots removed to a depth of one foot below grade prior to the placement of the soil cover.

- Element 4: MPPEH Sweep – In both Area 1a and 1b, MPPEH sweeps conforming to the Naval Ordnance Safety Activity Section 8090.15 will be conducted ahead of any investigation or excavation. Any anomalies will be flagged and personnel will be moved to a safe distance until the MPPEH is identified and removed.
- Element 5: Wetlands Mitigation Plan – This selected alternative includes development and implementation of a Wetlands Mitigation Plan (WMP) for seasonal wetlands. Approximately 2.1 acres of Area 1a, designated as seasonal wetlands, will be disturbed in the installation of the soil cover.
- Element 6: ICs – The original 2009 IR Site 1 ROD (Chadux Tt 2009) sets forth very specific land use restrictions, which are not altered by this RODA and continue to apply to the Burn Area without modification. ICs regarding the soil cover will be expanded to include the soil cover placed over the Burn Area. A complete description of the implementation of ICs is detailed in the Land Use Control Design, Appendix H of the Groundwater Remedial Design and Remedial Action Work Plan for In Situ Chemical Oxidation (AMEC 2011b).

Two of the above elements of the ROD selected remedy for soil in Area 1 are being amended by this RODA; Elements 1 and 2. Elements 3 and 6 are not being altered as part of this RODA but will now extend to include Area 1b or the Burn Area. Elements 4 and 5 will remain unchanged as part of this RODA.

1.4 Summary of the Original Soil Remedy Comparative Analysis

Considering only those elements of Remedial Alternative S1-4a that are applicable to Area 1b, the threshold and balancing criterion for comparative analysis of remedial alternatives are as follows:

Protectiveness – each of the ROD alternatives, with the exception of the no-action alternative, met the threshold criterion for overall protection of human health and the environment. This includes the ROD selected remedy, which primarily consisted of excavation and offsite disposal of the wastes in Area 1b; and, the Remedial Alternative S1-2, which primarily consists of installing a seismically-stable cover over Area 1b wastes to isolate them from potential receptors.

Compliance with ARARs – the ROD selected remedy met the threshold criteria for compliance with ARARs, which remain unaltered in this RODA.

Long-term Effectiveness – the ROD selected remedy rates high in long-term effectiveness and permanence considering that the burn wastes would be relocated from the shoreline slope, which is anticipated to, without geotechnical reinforcement, fail in a maximum credible earthquake.

Reduction of toxicity, mobility, and volume through treatment – excavation does not involve treatment; the ROD selected remedy ranked poor and would continue to rank as poor based on updated information about the site.

Short-term Effectiveness – the ROD selected remedy would rank medium in short-term effectiveness because of the much longer time needed for implementation compared with the process and exhumed waste volumes envisioned in the development of the FS Report and the ROD. Since the bulk of the excavation of Area 1b would be below the water table and through the shoreline slope, extensive waste material handling for dewatering, scanning, and sampling would be required, resulting in prolonged exposure to workers and the community.

Implementability – the ROD selected remedy would rank low in this criterion based on the extensive depth of excavation, which would require shoring and handling of a large volume of saturated soil and waste materials.

Cost Effectiveness – the ROD selected remedy would rank low in this criterion based on the estimated large volume of material that would require excavation and handling (75,000 cubic yards with 56% from below water table) and offsite disposal (39,000 cubic yards). These updated excavation and disposal volumes are based on the post ROD characterization. The cost estimates presented in the ROD estimated the total volume of material that would require excavation from Area 1b at 60,000 cubic yards with 25% from below the water table and offsite disposal of 29,000 cubic yards.

Overall, in light of the data obtained during the characterization work conducted after the ROD, the ROD selected remedy would have ranked further below the highest ranked Alternative, S1-2, which consisted of installing a seismically-stable cover over Area 1b.

Since the ROD selected remedy called for removal of the wastes from Area 1b, the risks to human and ecological receptors from exposure to the contaminants located in Area 1b by means of the submarine discharge of groundwater (SDG) to the surface water in the San Francisco Bay was not considered. To support the assessment of the selected amended remedy (i.e., Alternative BA-1), a detailed risk assessment considering SDG was conducted and is presented in the FFS Report (AMEC 2013). The following section summarizes the findings of the updated groundwater/surface water risk assessment presented in the FFS Report.

1.5 Updated Burn Area Risk Assessment

Updated human-health risk assessments (HHRAs) and ecological risk assessments (ERAs) for exposure to surface water (San Francisco Bay) adjacent to the Burn Area were performed as part of the FFS Report (AMEC 2013).

The results of this additional risk evaluation, summarized in Section 5.3 of this RODA, indicate that by leaving the burn waste in place, no chemicals or radiological materials in groundwater that replenishes bay water are considered to pose unacceptable risk to saltwater aquatic life or to humans consuming that saltwater aquatic life from exposure to bay water. No new groundwater or surface water COCs related to the SDG at the Burn Area were identified.

2.0 THE BURN AREA HISTORY AND SITE CHARACTERIZATION

2.1 Burn Area History

Prior to the mid nineteenth century, the area now occupied by Alameda Point and IR Site 1 was covered by the waters of San Francisco Bay. By 1859, a narrow strip of land had been constructed along what is now the southern bank of the Oakland Inner Harbor. The Alameda Mole train and ferry terminal were located just north of Area 1b and were removed at the time the Navy began to occupy Alameda point in about 1940. It is presumed that the burn waste and debris from several large fires at the Alameda Mole train and ferry terminal were disposed of at the place of the fires during the rebuilding and restoration process (Ute and Singer 2007). Figure 2-1 shows a 1939 aerial photograph of the Alameda Mole and ferry slip and the current boundary of IR Site 1.

By 1943, Alameda Point was occupied by the U.S. Navy and a large portion of the area now IR Site 1 was land and being used as a landfill for disposal of waste. Figure 2-2 shows an aerial photograph of the Alameda Point in 1946, the 1939 land surface boundary, and the current boundary of IR Site.

By 1952, the runway now present over IR Site 1 had been constructed and open-air burning of waste was on-going. Review of aerial photographs from 1952, 1953, 1957, and 1958 suggest that burnt waste mixed with sandy fill material was bulldozed into the San Francisco Bay at the northwest portion of Alameda Point (just south of the former Alameda Mole building) and, by this means, land was extended to the west. Figure 2-3 shows the 1958 aerial photograph of Alameda Point as well as the land boundaries from 1939, 1946, and 2010; and, the IR Site 1 boundary.

Figure 2-4 shows an aerial photograph from 2010 with the horizontal extent of Area 1b and land surface boundaries from 1939 and 1946. Above water remnants of the former Alameda Mole ferry slip docks are no longer visible in the 2010 aerial photograph. The shoreline in 2010 closely matches the shoreline from 1958.

2.1.1 IR Site 1 Geology

Interpretation of the geology at IR Site 1 is based on subsurface environmental and geophysical investigations conducted at the site. Some borings extended to depths greater than 100 feet. The five geologic units identified at IR Site 1 include artificial fill material, the Bay Sediment Unit (BSU), Merritt Sand Formation, Upper San Antonio Formation, and Lower San Antonio Formation (Yerba Buena Mud). The subsurface stratigraphy represents a paleochannel that trends from northeast to west across the base and is present beneath IR Site 1. The Merritt Sand and Upper San Antonio Formations are interpreted to be present in the northern portion of IR Site 1 but are not present in the southern portion of

the site, where the paleochannel removed the two units. Therefore, the BSU is interpreted as directly overlying the Yerba Buena Mud. Based on geotechnical investigations most of the sand units underlying the BSU as the Merritt Sand Formation rather than the bay sediments of the lower BSU. This difference in geologic interpretation does not affect the interpretation of hydrostratigraphic units.

2.1.2 Alameda Point and IR Site 1 Hydrogeology

The shallow hydrostratigraphic units beneath IR Site 1 have been divided into the following four hydrogeologic units:

- First Water Bearing Zone (FWBZ) – artificial fill layer
- Semi-confined aquitard – Young Bay Mud of the BSU
- Second Water Bearing Zone (SWBZ) – lower portion of the BSU, Merritt Sand Formation and Upper San Antonio Formation
- Regional aquitard – Lower San Antonio Formation, including the Yerba Buena Mud

The FWBZ at Alameda Point is unconfined and located in the fill material. Depth to groundwater in the FWBZ at IR Site 1 ranges from the ground surface to approximately 8 feet below ground surface (bgs) and averages 3 to 5 feet bgs (TtEMI 1999c). Groundwater generally flows toward the shoreline in the FWBZ at IR Site 1 (i.e., westerly toward the San Francisco Bay and northerly towards the Oakland Inner Harbor). Hydraulic communication between the FWBZ and SWBZ is considered minimal across most of the site, where these hydraulic zones are separated by the Young Bay Mud.

Coarse-grained sediments of the lower portion of the BSU, the Merritt Sand Formation, and the Upper San Antonio Formation comprise the semi-confined SWBZ. The SWBZ is underlain by the Yerba Buena Mud, which forms a regional aquitard separating saline groundwater in the SWBZ from fresh groundwater in the underlying regional Alameda aquifer (TtEMI 1999c).

2.2 Nature and Extent of Contamination in Soil and Groundwater

The discussion of the nature and extent of the Burn Area contamination is divided by media: soil and groundwater. The primary source of contamination in the Burn Area is burnt waste material from industrial waste and construction demolition debris. Little to no evidence of putrifiable municipal-type solid waste was observed in samples collected and examined from the Burn Area. In addition, radiological waste is also present in the Burn Area.

2.2.1 Nature and Extent of Contamination in Soil

During the 2010 Pre-design Characterization conducted at IR Site 1, five test trenches and 11 soil borings were advanced over the limits of the suspect boundaries of Area 1b. The 2010 Pre-design Characterization was conducted under the Work Plan for Pre-Design Sampling and Investigation (AMEC 2010). As a result of this investigation, it was determined that burnt waste associated with Area 1b extended further to the south and north than supposed previously. In the Fall 2011, 17 additional soil borings were advanced and 14 new groundwater monitoring wells were installed and sampled to complete the characterization of Area 1b. The 2011 soil sampling was conducted under an amendment to the Work Plan for Pre-Design Sampling and Investigation (AMEC 2011a). Following the completion of the additional Pre-design characterization, the extent of the burn layer and surrounding geology was mapped entirely. Mapping results show that the footprint of the burn layer is approximately 900 feet in length from north to south and extends between 150 and 250 feet inland, towards the east from the mean sea level land surface contour along the shoreline slope. The burn layer varies in thickness from up to 28 feet thick in the northern section to less than 1 foot thick in the southern section.

The trenching, soil-boring, and soil sampling results provided a significantly higher-resolution representation of the nature and extent of the burn residue and surrounding impacted soil compared with previous investigations. Prior to the 2010 characterization, the extent of the burn wastes in Area 1b was primarily based on review of aerial photographs from the 1950s, which showed the burn wastes contained in a 3.7 acres at the northwestern end of Alameda Point. Additionally, it was conceived that the burn residue was limited to within the upper 10 feet of the 3.7 acres and did not extend under the shoreline slope. The results from the investigations completed in 2010 and 2011, revealed that the burn residues derived from waste burning and disposal activities conducted in the 1950s occupy approximately 4.3 acres; present beneath the top of the shoreline slope; and up to 28 feet bgs. Additionally, in the northern portion of the Area 1b, burn residues are primarily derived from fires that occurred at the Alameda Mole building and ferry slip at the beginning of the twentieth century prior to Navy presence at Alameda Point.

Results from soil samples collected from Area 1b show that five of the eight COCs for human receptors, three of the five COCs for ecological receptors, and two of the three primary radiological materials of concern exceed remediation goals. The spatial distribution of the chemicals of concern varies. Cadmium, zinc, and lead appear more widespread across the Burn Area compared with polycyclic aromatic hydrocarbons, polychlorinated biphenyls, and pesticides; which occur in localized areas and depths (AMEC 2013).

2.2.2 Nature and Extent of Contamination in Groundwater

Groundwater sampling following the issuance of the ROD and in support of the FFS Report (AMEC 2013) was conducted in two events as follows:

1. Tidally-influenced Biased Groundwater Sampling and Analysis; and
2. Study-area Groundwater Sampling and Analysis.

Tidally-influenced Biased Groundwater samples were collected from wells at corresponding pressures aligning with the cycle of the tides from low tide, through high-high tide, and ending on low-low tide. Five samples were collected from each of the three wells in the study to correspond with: 1) the low tide, 2) the midpoint between the low and high-high tide, 3) the high-high tide, 4) the midpoint between the high-high and low-low tide, and 5) the low-low tide. The primary purpose of this sampling program was to determine if dilution of groundwater contamination by tidal influence was quantifiable. Correlation with tidal influence dilution was not observable in the analytical results.

Following the Tidally-influenced Biased Groundwater Sampling, each of the 15 wells in the Burn Area was sampled. Results of this Study-Area Groundwater Sampling showed that chemicals and radiological materials of potential concern are contained in the groundwater within the Burn Area. Based on results from previous risk assessments conducted at IR Site 1, the remedial action objectives established for IR Site 1 (Chadux Tt 2009), and these recent groundwater sampling results, it was determined that the exposure pathway associated with freshwater replenishment to the San Francisco Bay required additional consideration. The additional risk assessment conducted in light of these groundwater sample results is summarized in Section 4 of this RODA.

2.3 Summary of the Burn Area Characterization

The key results concerning the extent and nature of the burn layer from the Burn Area Pre-Design Characterization conducted in 2010 through 2012 following the issuance of the ROD, are summarized below:

- A wedge-shaped layer of burnt waste and construction debris adjacent to and extending approximately 500 feet south of the former Alameda Mole building and ferry slip docks is present. The Alameda Mole building and ferry slip docks were located north of the Burn Area prior to the Navy's presence at Alameda. It is likely that this layer of burn material was emplaced by pushing wastes and residues generated by open-air burning into the San Francisco Bay. This thick burn layer area extends approximately 70 feet to the north and 50 feet to the south of the Area 1b boundary.

- Blackened waste materials encountered adjacent to and north of Area 1b are outside the footprint of the burn layer and are most likely associated with the former Alameda Mole operations and fire (November 1902). These materials are encountered approximately 70 feet north of the northern boundary of Area 1b.
- The area where the burn material was pushed into the Bay extends approximately 50 feet south of the southern limits of the Area 1b as defined in the ROD. In addition, a thin layer of burn waste between 1 and 2 feet thick extends from that point approximately 230 feet south. This thin burn layer is encountered at approximately mean sea level. It is presumed that this waste was deposited by longshore currents and was not directly pushed into the Bay.
- The burn layer extends up to a maximum depth of about 28 feet bgs and laterally westward or seaward beyond the top of the shoreline slope across a majority of its geometry.
- A soil cover averaging 4 foot (ranging between 0.5 and 8 foot) thick was placed over the burnt layer.

Soil sampling conducted in Summer 2010 and Fall 2011 revealed that soil COC remedial goal (RG) exceedances were detected in the burn waste and materials surrounding the burn waste. The largest areal impact of soil RG exceedances involved the metals: cadmium, zinc, and lead. Pesticides, PAHs, PCBs, hexavalent chromium, radium-226, strontium-90, and uranium-238 were also detected in isolated pockets above their respective RGs. Radiological field screening of a portion of material from three of the trenches and core retrieved from two of the soil borings exceeded twice the background radiation.

Soil sampling conducted in March 2005 focused on evaluating dioxins and furans in this area. Results were compared to a Sediment Screening Concentration (SSC) to evaluate potential impacts of this material on the San Francisco Bay. A preliminary sediment screening value of 1.2×10^{-7} milligrams/kilogram (mg/kg) was used for comparison to 2,3,7,8-tetrachlorodibenzodioxin (TCDD) toxicity equivalents (TEQs). All of the samples collected from the Burn Area contained reported concentrations of dioxins/furans in excess of the sediment screening value. Dioxin TEQs were also compared to environmental screening levels (ESLs) prepared by the Water Board for deeper soils to evaluate potential impacts to the subsurface assuming no contact with soil at the site (as would be the case if the area were capped or covered). One sample had a reported concentration greater than the ESL of 2.4×10^{-4} mg/kg.

The regional direction of groundwater flow is towards the shoreline. The groundwater flows (a) towards the San Francisco Bay in the southwestern part of the site, and (b) towards the Oakland Inner Harbor in the northeastern part of the site. This indicates the existence of a groundwater divide along the northwestern direction at the site (following the footprint of the paved runway, which bisects the land surface). Tidal influence in the Oakland Inner Harbor and San Francisco Bay, although affecting the magnitude of the regional groundwater gradient, does not affect the direction of groundwater flow.

3.0 COMMUNITY PARTICIPATION

3.1 Restoration Advisory Board

The Alameda Point Restoration Advisory Board (RAB) consists of members of the Navy, the community, and regulatory agencies. The Navy and regulators report information about the CERCLA Program during bi-monthly RAB meetings. Copies of the RAB meeting minutes and documents describing environmental investigations and removal actions are available at the following Alameda Point information repository and Administrative Record file.

Alameda Point Information Repository	Administrative Record
950 West Mall Square	Naval Facilities Engineering Command, Southwest
Building 1, Room 240	Naval Base San Diego, Building 3519
Alameda, California 94501	2965 Mole Road
Business Hours:	San Diego, California 92136
Monday – Thursday	Business Hours:
8:00AM – 5:00PM	Monday – Friday
	8:00AM – 5:00PM

The Alameda Public Library maintains new environmental documents during review periods and is located at 1550 Oak Street, Alameda, California, 94501. The RAB meeting minutes also are available at the Navy BRAC Program Management Office website at http://www.bracpmo.navy.mil.

3.2 Public Mailings

Public information updates in the form of mailings, fact sheets, newsletters, and proposed plans, are used to ensure a broad dissemination of information throughout the local community. Information updates announcing the IR Program process at Alameda Point are mailed to residents surrounding Alameda Point and to city, state, and federal officials; regulatory agencies; local groups; and individuals identified in the Community Involvement Plan. The fact sheets, newsletters, and proposed plans were mailed to approximately 700 households, businesses, public officials, and regulatory agencies in an effort to reach as many community members as possible.

3.3 Community Participation for IR Site 1 ROD Amendment

This RODA is based on investigations conducted since the issuance of the ROD. The proposed plan to support the RODA was submitted to the public on March 22, 2013, to provide information and solicit public input on the Navy's recommended action. The ROD and the RODA are available to the public at the Information Repository maintained at

Alameda Point and at the Administrative Record file maintained at the Naval Facilities Engineering Command, Southwest, located in San Diego, California. The Information Repository also contains a complete index of the Administrative Record file (Appendix A). A public comment period for the proposed amended remedial action for the Burn Area of IR Site 1 was held from March 22, 2013 to April 24, 2013. A public meeting was held on April 9, 2013. A notice of the public comment period and public meeting was published in the Alameda Journal on March 29, 2013, the Alameda Sun on March 28, 2013, and the East Bay Express on March 27, 2013.

At the public meeting, the Navy Project Manager and the Navy's design/build contractor were available to discuss the Burn Area of IR Site 1 and describe the selected remedy. Representatives from the Navy and environmental regulatory agencies were available to answer questions. A court reporter prepared a transcript of the meeting (Appendix C). Responses to written comments received during the public comment period are included in the Responsiveness Summary, as part of this RODA (Appendix D).

4.0 SCOPE AND ROLE OF OPERABLE UNIT AND RESPONSE ACTION

This RODA presents the final remedy for chemical and radiological soil contamination at the Burn Area within IR Site 1, which was originally designated as Operable Unit 3 (OU-3). IR Site 1 was known as Site 2 during the initial assessments completed at NAS Alameda in the 1980s. It is unknown when the name changed; however, the Former 1943-1956 Disposal Area (currently IR Site 1) was evaluated under the name of IR Site 1 in the 1995 Environmental Baseline Study Report. IR Site 1 currently consists of Areas 1a, 1b, 2b, 4, 5a, 5b, site-wide radiologically-impacted soil, and groundwater. In addition to these sub-areas, IR Site 1 formerly included Areas 2a, 3a, and 3b; however, Areas 2a, 3a, and 3b were removed from IR Site 1 after completion of the Time-Critical Removal Action in 2008 because of the nature and extent of radiological contamination. This ROD Amendment selects an amended remedy for chemical and radiological contamination in soil in the Burn Area at IR Site 1. This RODA does not amend the selected remedy for Areas 1a, 2b, 4, 5a, 5b, site-wide radiologically impacted soil, or groundwater, except to expand the monitoring system to address groundwater within the Burn Area.

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5.0 SUMMARY OF SITE RISKS

A baseline HHRA was conducted for IR Site 1 as part of the Remedial Investigation (RI) Report using data collected during investigations from 1990 to 1997 (Tetra Tech 1999c). The baseline HHRA was updated three times prior to the issuance of the ROD; first in 2001 (Tetra Tech 2001); again in 2002 (Tetra Tech 2002); and finally as part of the 2006 FS Report. (BEI 2006b). The future occupational worker and recreational user were evaluated as exposure pathways in the risk assessment. Residential and construction worker exposures were not considered compatible with the remedy. The objective of the risk assessments was to estimate the risks to human and ecological receptors from exposure to chemicals in soil and groundwater at the site.

Following issuance of the ROD, an updated risk assessment of Bay water exposure was presented in the Focused Feasibility Study (AMEC 2013).

Results of the HHRAs and Screening-Level Ecological Risk Assessments (SLERAs) conducted for IR Site 1 are summarized below.

5.1 Human Health Risk Assessments

The 1999 HHRA conducted for IR Site 1 evaluated exposure scenarios based on possible future land uses, assessed toxicity, and characterized cancer and noncancer health risks based on conservative assumptions (Tetra Tech 1999c). Chemicals of potential concern (COPCs) and radiologcical materials of potential concern in soil and groundwater were identified, and calculated risks were compared with federally established risk ranges. The baseline and updated HHRA approaches and results are discussed below.

A focused feasibility study (FFS) was conducted between 2010 and 2013 in the Burn Area. This FFS contained an updated risk assessment which focused on the SDG from the burn waste to the San Francisco Bay. Details on this updated and focused risk assessment, which considered both human and ecological receptors, is detailed in Section 5.3.

5.1.1 Exposure Assessment

For COPCs, except lead, the 95% upper confidence level (95UCL) of the arithmetic mean was used to represent the potential exposure point concentration (EPC) for soil. Lead at the site was assessed using DTSC's LeadSpread Model for residential exposure, although residential redevelopment is not anticipated. Groundwater EPCs were calculated by comparing risk-based screening levels with maximum detected groundwater concentrations. The exposure assessment for COCs in soil was updated as part of the 2006 FS Report. This consisted of updating the recreational risk-based screening levels considering the toxicity factors from the 2004 EPA Region 9 Preliminary Remediation

Goals (PRGs; U.S. EPA 2004) and DTSC (Office of Environmental Health Hazard Assessment [OEHHA] 1994) guidance. The cancer risk in outdoor air calculation also was modified as part of the FS Report (BEI 2006b).

A dose assessment was conducted for radium-226 (Tetra Tech 1999c) in accordance with Risk Assessment Guidance for Superfund Sites (RAGS; U.S. EPA 1989 and using "Federal Guidance Report 11: Limiting Values of Radionuclide Intake and Air Concentration and Dose Conversion Factors for Inhalation, Submersion and Ingestion" (U.S. EPA 1988). The software program RESRAD (U.S. Department of Energy 1990) was used to calculate the dose from exposure to radium. The results of the dose assessment were described in millirems per year (mrem/yr). Results were compared with the U.S. EPA's acceptable level of 15 mrem/yr effective dose equivalent (U.S. EPA 1997b).

The FS (BEI 2006b) also prepared an evaluation to quantify the potential magnitude of exposures by a human receptor to external radiation at IR Site 1. Exposure scenarios were evaluated assuming that the FS alternative(s) could eliminate certain exposure pathways (ingestion, dermal contact, and/or inhalation of particulates from radium-impacted waste and associated impacted soil). The soil cover exposure scenario assessed the reduction in radiological exposure with a 2-foot or 4-foot soil cover. The results of the soil cover scenario suggest that a properly maintained 2-foot soil cover is adequate for the shielding of radium-impacted waste at IR Site 1 (BEI 2006b).

Under both the occupational and recreational scenario, COCs in the upper 2 feet of soil are considered to be available. Potential exposure pathways for both scenarios include incidental soil ingestion, dermal contact with soil, inhalation of soil particulates in outdoor air, and inhalation of vapors from groundwater in outdoor air, and external exposure to radionuclides. The occupational receptor is assumed to use the site for 25 years, with 250 days per year. The recreational receptor is assumed to use the site for 30 years, 2.5 hours per day, 242 days per year (Tetra Tech 1999c).

5.1.2 Toxicity Assessment

The toxicity assessment focused on the toxicity of COCs. Qualitative and quantitative toxicity values and U.S. EPA- and DTSC-derived toxicity values were gathered for all IR Site 1 COCs (Tetra Tech 1999c). Detailed toxicity profiles were prepared for each COC. Sources of the toxicity values include Integrated Risk Information System (U.S. EPA 1998c), Health Effects Assessment Summary Tables (U.S. EPA 1995), the DTSC's OEHHA (1994), and the U.S. EPA's Superfund Health Risk Technical Support Center (U.S. EPA 1998d). All available information collected from these sources was used in the risk assessment.

Toxicity equivalency factors for dioxins and PAHs obtained from the U.S. EPA and DTSC were used to adjust toxicity for these chemicals relative to 2,3,7,8-TCDD and benzo(a)pyrene. Radionuclide toxicity was assessed differently from non-radiological chemicals.

5.1.3 Risk Characterization

Excess lifetime cancer risks are probabilities generally expressed in scientific notation (for example, 1×10^{-6}). An excess lifetime cancer risk of 1×10^{-6} indicates that, as a plausible upper bound, an individual has a one in a million probability of developing cancer as a result of site-related exposure to a carcinogen over a 70-year lifetime under the specific exposure conditions at a site. The exposure conditions that are reasonably expected to occur at the site, as defined by the U.S. EPA, are termed the reasonable maximum exposure (U.S. EPA 1989). To assist with the characterization of cancer risks, a federally established risk management range was developed to protect human health and help risk managers determine if site risks are significant enough to warrant cleanup. Guidelines for managing cancer risks are promulgated in the NCP at Title 40 CFR §300.430[e][2][i][A][2]. According to these regulations, when an excess cancer risk is larger than 10^{-4}, action is generally warranted, and when excess cancer risks are within the risk management range from 10^{-6} to 10^{-4}, site-specific factors are considered when making decisions about whether action is required. The Preamble at 55 Federal Register (FR) 8866 indicates that the U.S.EPA intends to set remediation goals for total risk due to carcinogens that represent an excess upper bound lifetime cancer risk to an individual to between 10^{-4} to 10^{-6} lifetime excess cancer risk, and that a cancer risk of 10^{-6} should serve as the point of departure for these remediation goals.

Results of the baseline HHRA indicated the chemical and radionuclide cancer risks are within EPA's risk management range of 10^{-6} to 10^{-4}. The cancer risk for an occupational worker exposed to soil at IR Site 1 was 2.6×10^{-5}, and the noncancer hazard index (HI) was less than 1 (Tetra Tech 1999c). Most of the risk under the occupational scenario was from PAHs, PCBs, and hexavalent chromium. The soil ingestion exposure pathway posed the most risk to the occupational user. The calculated risks presented in the 2002 cumulative HHRA remained within the risk management range (Tetra Tech 2002). The cancer risk for an occupational worker exposed to groundwater at IR Site 1 was 4.0×10^{-5} and the noncancer HI was less than 1. The cancer risk for an occupational worker exposed to radiological contaminants at IR Site 1 was 3.6×10^{-5}. The cancer risk for an occupational worker exposed to both soil and groundwater was 1.0×10^{-4} and the noncancer HI was less than 1. Groundwater exposure posed the most risk to the occupational user. The evaluation of chromium assumed that all chromium was hexavalent, although this is not necessarily true, and the inhalation risks were likely overestimated (Tetra Tech 2002).

The cancer risk calculated in the baseline HHRA for a recreational user exposed to soil at IR Site 1 was 4.4×10^{-5}, and the noncancer HI was less than 1. Most of the risk in the recreational scenario was from PAHs, PCBs, and hexavalent chromium. The soil ingestion exposure pathway posed the most risk to the recreational user (Tetra Tech 1999c). The cancer risk for a recreational user exposed to groundwater at IR Site 1 was 4.0×10^{-5} and the noncancer HI was less than 1. The cancer risk for a recreational user exposed to radiological contaminants at IR Site 1 was 2.0×10^{-5}. The cancer risk calculated in the baseline HHRA for a recreational user exposed to both soil and groundwater at IR Site 1 was 1×10^{-4}, and the noncancer HI was less than 1. Most of the risk under the recreational scenario is from PAHs, PCBs, and hexavalent chromium. The soil ingestion exposure pathway posed the most risk to the recreational user (Tetra Tech 2002).

Results of the dose assessment for radionuclides indicated that the estimated occupation and recreation doses for radium-226 were below the U.S. EPA residential limit of 15 mrem/yr for exposure to surface soil (Tetra Tech 1999c).

5.2 Ecological Risk Assessment

An ERA for potential aquatic receptors was conducted in 1999. The 1999 ERA did not evaluate risk to potential terrestrial receptors because complete exposure pathways for terrestrial ecological receptors were not identified based on an assumed landfill cover. As a result, a SLERA was conducted for Area 3 in 2006. Area 3 was excised from IR Site 1 and not included in the ROD; therefore, specific findings of the SLERA are not applicable to the Burn Area and are not presented here. The results of the 1999 ERA (Tetra Tech 1999c) are briefly summarized below. Complete discussions of these documents can be found in the Final OU-3 RI Report (Tetra Tech 1999c) and the Final FS Report for IR Site 1 (BEI 2006a).

An ERA was conducted as a part of the FS Report (BEI 2006b) to evaluate potential risk to aquatic ecological receptors from chemicals in shallow groundwater that could migrate to San Francisco Bay. Contaminants of potential ecological concern (COPEC) were determined based on comparisons with essential nutrients, background concentrations, and ambient water quality criteria. IR Site 1 was divided into two areas for the ERA: the area outside the groundwater VOC plume (which is located to the southeast of the Burn Area), and the groundwater VOC plume. Results of the ERA indicated no ecological risks were posed to aquatic organisms outside the groundwater VOC plume. The following chemicals of ecological concern (COEC) were identified from groundwater within the VOC plume close to the shoreline: 2,4-dimethylphenol; 2-methylphenol; 1,2-DCE; toluene; and xylene (Tetra Tech 2001; BEI 2006b).

5.3 FFS Evaluation of Risks from Exposure to Surface Water in the San Francisco Bay

Considering the additional data from soil and groundwater characterization work completed in the Burn Area after the ROD, an updated risk assessment of bay water exposure was conducted. The evaluation of potential risks to human and ecological receptors from exposure via surface water (i.e. bay water) consisted of selection of appropriate risk-based screening values and comparison of estimated surface water concentrations to those screening values to identify compounds that could potentially contribute to unacceptable risk. The exposure pathways evaluated are for saltwater aquatic life that reside in San Francisco Bay and for humans that may consume this saltwater aquatic life. The prior risk assessments did not fully evaluate these exposure pathways for chemicals and radiological materials of potential concern. The data used in this evaluation includes groundwater results from the tidal bias monitoring event and the study-area groundwater monitoring event, each conducted in May 2012 (AMEC 2013).

The evaluation of potential risks consisted of the following steps:

1. Establish PALs – Verify the PALs provided in Worksheet 15 of the Sampling and Analysis Plan (SAP; AMEC 2012) and identify PALs for compounds that were analyzed, but that did not have a PAL established in the SAP.
2. Determine if chemicals or radiological materials of potential concern exist based on groundwater results – Compare concentrations in groundwater to PALs to determine which compounds should be evaluated further as a potential COC.
3. Evaluate potential risk from exposure to estimated bay water concentrations – Compare estimated bay water concentrations to PALs to determine which compounds may contribute to unacceptable risk; and, therefore are identified as chemicals and/or radiological materials of concern.

PALs were selected from the chemical-specific ARARs established in the FS (BEI 2006a) and the ROD (Chadux Tt 2009), and from other published federal, state, and local sources when a chemical-specific ARAR was not published.

Surface water chemicals and radiological materials of potential concern were identified by comparing groundwater results from the tidal sampling and study-area groundwater monitoring events to the PALs. A compound was identified as a surface-water chemical of potential concern if it was detected in a groundwater sample at a concentration above the PAL or if the compound was not detected but had a method detection limit above the PAL. All radionuclides were conservatively considered radiological materials of potential concern because there is no risk-based screening level available.

Compounds that were detected at concentrations below the PAL or that were not detected but had method detection limits below the PAL were not considered to pose unacceptable risk and therefore were not evaluated further.

Chemicals and radiological materials of potential concern were further evaluated by calculating an estimated bay water concentration based on the groundwater result and the well-specific dilution attenuation factor (DAF) estimated using a groundwater reactive-transport model (Section 2.7.3.4 of the FFS Report, AMEC 2013).

For the chemicals and radiological materials of potential concern that required further evaluation following the screening comparison of groundwater results to PALs, bay water concentrations were calculated using DAF estimates.

Estimated bay water concentrations for organic and inorganic compounds of potential concern were calculated by dividing the measured groundwater concentration by the DAF, or by dividing one-half of the method detection limits by the DAF if that compound was not detected. For radionuclides, a conservative groundwater concentration was calculated based on the reported activity, minimum detected concentration, and error delta for each sample.

Estimated bay water concentrations were compared to the PAL for each compound to determine the potential for that compound to contribute to unacceptable risk to aquatic receptors or to humans consuming aquatic receptors. No estimated bay water concentration exceeded its respective PAL.

Based on these results, no chemicals or radiological materials are considered to pose unacceptable risk to ecological receptors or human health through the SDG pathway. No new COCs were identified for the freshwater replenishment pathway at the Burn Area beyond those identified in the ROD.

6.0 REMEDIAL ACTION OBJECTIVES

Remedial Action Objectives (RAOs) provide the foundation used to develop the remedial alternatives for a site. An RAO is a statement that contains an objective for the protection of one or more specific receptors from exposure to one or more specific chemicals in a specific medium (such as soil, groundwater, or air) at a site. Reasonably anticipated future use of the site is an important consideration in selecting the RAOs and, thus, the remedy selected for the site. The RAOs developed for soil, groundwater, surface water, and radiological materials at IR Site 1, including the Burn Area, based on the identified COCs, potential receptors and exposure pathways, ARARs and remediation goals remain unchanged from the ROD (Chadux Tt 2009) and are hereby incorporated by reference.

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7.0 DESCRIPTION OF REMEDIAL ALTERNATIVES FOR BURN AREA OF IR SITE 1

This section provides a description and detailed analysis of retained remedial alternatives for the Burn Area: Alternative S1-4a and BA-1.

The Burn Area is located on fill material that might be subject to liquefaction and lateral spreading during a seismic event. Potential geotechnical remedies for IR Site 1 have been evaluated in the FFS (AMEC 2013) and are presented here in this RODA. A side-by-side comparison of the remedy selected in the 2009 ROD and the selected amended remedy (i.e., Alternative BA-1) is provided in Table 7-1.

7.1 ROD Selected Remedy – Alternative S1-4a: Excavation and Offsite Disposal of Soil, Soil Cover, and ICs

This section provides a description and detailed analysis of the ROD selected remedial Alternative S1-4a, removal of waste from the Area 1b and a soil cover over the remainder of Area 1 at IR Site 1.

Alternative S1-4a included the excavation of burnt material and contaminated soil in the 3.7-acre Area 1b, and waste in this area would be removed and disposed offsite. A soil cover would be installed over the remaining area within Area 1 (Area 1a, but not Area 1b) and ICs would be implemented over the area.

This alternative would be implemented in conjunction with a groundwater alternative that includes the design and implementation of a long-term groundwater monitoring program for all of Area 1.

7.1.1 Excavation of Waste from Area 1b

Following completion of waste delineation activities, soil and debris in Area 1b would be excavated, stockpiled, and characterized. Large debris items such as timber, concrete, or scrap metal would be segregated during excavation and recycled, or disposed of separately. The volume of burn layer and materials exceeding remediation goals requiring excavation in Area 1b was estimated to be 75,000 bank cubic yards (bcy) of material. This estimate was based on 3.7 acres of excavation from above the water table to an average depth of 5.5 feet and an additional 42,000 bcy of burn residue and material exceeding the remediation goals within the burn residue footprint below the water table. Pursuant to the ROD (Chadux Tt 2009), the excavation would be limited to the 3.7-acre Area 1b boundary (Figure 1-3) and would leave behind burn residue to the north and south of this boundary.

Advancement of the excavation to the limits of Area 1b along the shoreline would require the installation of bracing. In lieu of a full coffer dam, an Open Cell steel sheet pile

bulkhead would be installed along the Area 1b (IR Site 1) boundary at the shoreline slope at mean sea level. Once installed material would be excavated and backfilled within each of the sheet pile cells sequentially. Once this process is complete, the remainder of the excavation and backfilling activities behind the bulkhead would be completed. The steel bulkhead would remain and not be removed because of the cost associated with removal, decontamination, and confirmatory sampling of the steel sheets.

Assuming that 2 percent of the excavated soil in Area 1b is radiologically-impacted, management and disposal of 1,500 bcy of radiologically-impacted soil would be included in this alternative. Above the water table, after each foot in excavation depth, radiological and MPPEH surveys would be conducted. Any radiological sources would then be segregated and disposed of separately from excavated soil. Approximately 150 intermodal containers and associated truck trips would be required to haul this radiologically-impacted material offsite.

Excavation activities would extend into groundwater, requiring a procedure to handle free-draining exhumed materials, above ground scanning and segregation of radiologically-impacted and MPPEH-containing materials, and backfill below the water line without dewatering. Dewatering was not considered a viable process option because of the excessive cost of treatment and disposal associated with radiological materials dissolved and suspended in extracted groundwater. Additionally, because of the soft sediments and depth of the excavation, dewatering of the excavation would result in an unstable excavation floor prone to heave and failure.

For costing purposes and using data from the characterization work conducted in 2010, 2011, and 2012, it is assumed that 48 percent of the total excavated material (approximately 36,000 bcy) is nonhazardous debris. This material would be placed under the soil cover within inland portions of IR Site 1 and above the former disposal area (Area 1a). Another 30 percent of the excavated debris (22,500 bcy) is assumed to be classified as California-hazardous waste. The last 20 percent of the excavated debris (15,000 bcy) is assumed to be classified as RCRA characteristic hazardous waste. The RCRA waste is assumed to require stabilization at the disposal facility to meet land-disposal requirements. Approximately 3,700 truck trips would be required to off-haul the 37,500 bcy of materials requiring offsite disposal.

To reduce the chance of excavation wall and floor failure and to facilitate access to deeper central portions of the excavation, excavation progress would require a subdivision approach. This would consist of an approach where sections of the total excavation be excavated and backfilled prior to advancing the dig. Therefore, confirmation sampling would have to occur in segments of excavation so that the excavated area could be backfilled with clean, imported fill soil as the next section of excavation progressed. It is assumed that 75,000 bcy of clean fill would be required. An estimated 60 percent of backfilling would be accomplished with clean, washed gravel placed below the water table. Remaining backfill would be performed with clean soil from a local source. To import the 75,000 bcy of backfill material an estimated 5,930 truck trips would be required. After emplacement of the clean fill soil, the entire excavation area would be seeded with a native seed mix as an erosion-control measure.

The quantities (and associated costs) presented in the text above are based on current knowledge stemming from investigations conducted following the finalization of the FS and ROD. The current understanding of the extent of Burn Area wastes are significantly different from the understanding used to compare remedial alternatives developed in the FS stage of the project. Based on the current understanding, burn waste covers an area of approximately 4.3 acres; present beneath the top of the shoreline slope; and is up to 28 feet below ground surface. Compared to the previous understanding of the Burn Area, which was used to analyze remedial alternatives, the extent of the burn layer is up to 18 feet deeper, extends beyond the top of the shoreline slope, and is approximately 15% larger in areal extent and 25% larger in volume. The current understanding of the extent of the burn layer significantly alters the excavation approach conceived in the FS and ROD which assumed the excavation was limited to 10 feet below ground surface and was inland of the top of the shoreline slope. Considering the current understanding of the extent of the burn layer, excavation and backfill of the burn layer would require bracing (e.g., steel sheet pile bulkhead) and extensive groundwater and saturated sediment management, which were not taken into account during the assessment of remedial alternatives conducted as part of the FS and ROD development.

7.1.2 Institutional Controls

ICs would prohibit residential use of IR Site 1 and actions that might damage or otherwise reduce the effectiveness of the soil cover in Area 1. Penetration of the soil cover would not be allowed without concurrence from the regulatory agencies.

7.2 Selected Amended Remedy (i.e., Alternative BA-1): Stabilization and Containment of Burn Waste with Open Cell Steel Sheet Pile Waste Isolation Bulkhead, Select Excavation, Soil Cover, and ICs

This section provides a description and detailed analysis of the selected amended remedy (i.e., Alternative BA-1), Stabilization and Containment of Burn Waste with Open Cell Steel Sheet Pile Waste Isolation Bulkhead, Select Excavation, Soil Cover, and ICs.

The selected amended remedy (i.e., Alternative BA-1) provides that the principal/major portions of the burn layer and surrounding material exceeding remediation goals would be contained and stabilized by the construction of an Open Cell steel sheet pile WIB. The southern portion of the burn layer (i.e., that portion that extends beyond the Area 1b boundaries), which is thin and relatively shallow (located at approximately mean sea level) would be excavated and placed over the thicker burn layer area contained by the WIB. A soil cover would be installed over all of Area 1 and tie into the WIB. ICs would be implemented for the entire soil cover area.

7.2.1 Installation of WIB and Select Excavation

The selected amended remedy (i.e., Alternative BA-1) includes the installation of an Open Cell steel sheet pile WIB along the thickest portions of the burn layer and impacted materials adjacent to the IR Site 1 shoreline and select excavation of the thinner burn layer deposits in the southern portion of the Burn Area. Figure 7-1 shows the alignment of the WIB and select excavation area. Details on the installation of the WIB are provided in Figure 7-2. The WIB would be installed by first installing a robust silt curtain and sediment control system along the shoreline and to the bay floor and then removing concrete-debris revetment within the first portion of the sheet pile alignment to be installed. Once an area is clear for sheet pile installation, the WIB steel sheet piles (face sheets first then tail wall sheets) would be installed. By this progress, the amount of unarmored shoreline would be limited during the installation of the WIB. Completed cells of the WIB would be backfilled with clean general fill material during the installation of the WIB. The final top elevation of the WIB would be approximately 10 feet above mean sea level, providing a relatively flat land surface extending from the current top of the shoreline slope. Select excavation of the thinner burn layer located at and immediately below the water table and to the south of the thicker burn material, presumed to be deposited by littoral drift, and relocation of burn residues above the thicker burn layer is more economical than installation of WIB in this portion of the Burn Area. The areal extent of the select excavation is shown in Figure 7-1.

7.2.2 Soil Cover over the Burn Area

The soil cover would be placed over the Burn Area extending and tying into the clean backfill within the WIB to prevent exposure to contaminants above remediation goals. This cover would likely extend into other areas of IR Site 1 to accommodate appropriate design requirements, seismic considerations, appropriate setback distances, and ARAR requirements. The soil cover over the Burn Area would be contiguous with and as robust as the soil cover over the other portions of IR Site 1. The Navy would determine the boundary of the soil cover in the remedial design. The soil cover would be seeded with indigenous plant species as an erosion control measure.

7.2.3 Institutional Controls

ICs would prohibit residential use of IR Site 1 including the Burn Area and actions that could damage or otherwise reduce the effectiveness of the remedies. No fencing or signage would be included. ICs would restrict activities that would breach the cover as selected for the remainder of IR Site 1.

7.2.4 Evaluation by CERCLA Threshold Criteria

This section provides a discussion of the selected amended remedy (i.e., Alternative BA-1) relative to the threshold criteria. Evaluation of the selected amended remedy (i.e., Alternative BA-1) remedy components relative to the primary balancing criteria is discussed below.

Overall Protection of Human Health and the Environment

Under the selected amended remedy (i.e., Alternative BA-1), the thickest portion of the burn residues and materials containing soil remediation goal exceedances would be contained and stabilized against slope failure under design-level earthquake forces. A select portion of buried burn residues would be excavated and disposed onsite, behind the WIB. The materials disposed of onsite would be placed above the thickest burn residues, behind the WIB, and under the soil cover. The WIB, clean backfill, and cover soil would protect future recreational visitors and ecological receptors from exposure to underlying contaminated soil. This alternative is therefore considered to be protective of human health and the environment.

Compliance with ARARs

This remedial alternative complies with ARARs associated with the excavation, soil cover, and ICs identified in Table 13-1, Table 13-2, and Table 13-3 of the ROD (Chadux Tt 2009) which are hereby incorporated by reference without change.

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8.0 COMPARATIVE ANALYSIS OF ALTERNATIVES

This section presents a comparative analysis of the soil remedial alternatives for the Burn Area, analyzed in Section 9 of this RODA.

8.1 Overall Protection of Human Health and the Environment

Alternatives S1-4a and BA-1 both meet the threshold criterion for overall protection of human health and the environment. If burnt material under Alternative S1-4a remained outside the boundary of Area 1b, the soil cover remedy associated with the main disposal area and the ARAR to maintain cover integrity under seismic loading (CCR title 22 Subsection 66.264.310(a)(5)) would contain the remaining burnt material.

8.2 Compliance with ARARs

Alternatives S1-4a and BA-1 both meet the threshold criteria of compliance with ARARs.

8.3 Long-Term Effectiveness and Permanence

The Area 1b remedy portion of Alternative S1-4a rates high in long-term effectiveness and permanence. The selected amended remedy (i.e., Alternative BA-1) rates medium high in long-term effectiveness and permanence. Each of these alternatives requires ICs and long-term management of contaminants; however, Alternative S1-4a has fewer components that would require replacement and fewer continuing repair and maintenance needs than Alternative BA-1.

A ranking of medium high for the long-term effectiveness and permanence of Alternative BA-1 was selected considering the ranking of medium assessed in the Final FS Report (BEI 2006a) to this alternative (S1-2) without the explicit addition of the WIB, and the adequacy and reliability of the WIB for the containment of the residual wastes. The WIB has an average lifespan of 100 years. It will require periodic inspection and could require periodic maintenance (e.g., added coating/galvanization) and/or repair (e.g., patching corroded areas). However, compared with other geotechnical remedies for stabilization of the shoreline slope, inspection and maintenance for general wearing of the WIB is easily performed with readily available resources (steel sheet pile bulkheads are located very nearby the site); and, at the prescribed review periods for other IR Site 1 remedies (e.g., soil cover). Repair of earthquake induced damaged to the remedy (e.g., lateral movement and settlement of the bulkhead and backfill) would consist of adding bracing to the WIB and/or placing additional soil cover over the fill retained behind the bulkhead. Furthermore, unlike remedies installed only within the inland portions of the Burn Area the WIB can be placed at the furthest extent of the burn waste under the shoreline slope.

8.4 Reduction of Toxicity, Mobility, or Volume through Treatment

Alternative S1-4a rated low in reduction of toxicity, mobility, or volume through treatment. Although some of the excavated waste would have required treatment prior to off-site disposal, the majority of the excavated material would not receive treatment and would be disposed of as-is either onsite or offsite. Nonhazardous wastes would not be treated and would be disposed of onsite under the soil cover and over inland portions of the former disposal area (Area 1a).

The selected amended remedy (i.e., Alternative BA-1) rated low in reduction of toxicity, mobility, or volume through treatment, since the large majority of the Burn Area waste would be contained and not treated. A small fraction of radiologically-impacted material segregated from the select excavation and identified through the surface scan, would be disposed of offsite, but without treatment because there is no effective treatment to reduce the toxicity of radiologically-impacted soil.

8.5 Short-Term Effectiveness

The selected amended remedy (i.e., Alternative BA-1) rated high in short-term effectiveness because installation of the WIB and select excavation are relatively quick to implement compared with mass excavation and the associated *ex-situ* treatment and/or waste segregation.

Area 1b aspects of Alternative S1-4a rated medium in short-term effectiveness because the excavation of Area 1b requires the installation of a bulkhead similar to the WIB for shoring and the quantity of material to be removed would result in a significant number of truck trips through the community. Worker safety is of concern due to the unknown contents of the buried waste; and Alternative S1-4a could take a significant amount of time to implement.

8.6 Implementability

Area 1b aspects of Alternative S1-4a rated low in implementability. The source removal component would involve large-scale excavation and shoring and segregation of exhumed waste streams.

The selected amended remedy (i.e., Alternative BA-1) rated medium in implementability. The installation of the WIB would require specialized labor and equipment. The select excavation would rate high in implementability; however, select excavation accounts for a smaller portion of the Burn Area.

8.7 Cost

The Area 1b aspects of Alternatives S1-4a rated low in the cost comparison, as the remedy has substantial excavation, waste segregation, and off-site disposal costs in addition to most of the costs associated with the selected amended remedy (i.e., Alternative BA-1). The selected amended remedy (i.e., Alternative BA-1) rated medium in the cost comparison. A detailed discussion of estimated costs and comparison of the ROD Selected Remedy (i.e., Alternative S1-4a) and the selected amended remedy (i.e., Alternative BA-1) is provided in Section 10.3, which includes Tables 10-1 and 10-2; which provide a detailed cost estimates for the remedies.

8.8 State Acceptance

Alternative S1-4a is the selected remedy presented in the Final ROD (Chadux Tt 2009). Therefore Alternative S1-4a has State acceptance. The State of California also concurs with the selected amended remedy (i.e., Alternative BA-1) selected in this RODA.

8.9 Community Acceptance

Alternative S1-4a is the selected remedy presented in the ROD (Chadux Tt 2009). Therefore, Alternative S1-4a has community acceptance. The amended proposed plan to select the selected amended remedy (i.e., Alternative BA-1) was presented to the community and discussed in a public meeting held on April 9, 2013. The responsiveness summary portion of this RODA addresses the public's comments and concerns about the selected amended remedy (i.e., Alternative BA-1) for the Burn Area.

8.10 Comparative Analysis of Remedial Alternatives for the Burn Area

The selected amended remedy (i.e., Alternative BA-1) rated highest overall in satisfying the balancing criteria. The selected amended remedy (i.e., Alternative BA-1) was judged to be the most effective in the short-term effectiveness, most implementable, and cost effective compared with remedy, Alternative S1-4a. Area 1b aspects of Alternative S1-4a rated slightly higher than the selected amended remedy (i.e., Alternative BA-1) in long-term effectiveness and permanence (high versus medium high). Each alternative rated low in reduction of toxicity, mobility, or volume through treatment.

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9.0 PRINCIPAL THREAT WASTE

Principal threat wastes are those source materials considered to be highly toxic or highly mobile that generally cannot be reliably contained or would present a significant risk to human health or the environment should exposure occur (U.S. EPA 1991c). There are no source materials that constitute a principal threat waste in soil at IR Site 1 Burn Area. No threshold level of risk has been established to equate to principal threat waste; however, where potential risk is 10^{-3} or greater, treatment alternatives generally should be evaluated (U.S. EPA 1991c). HHRAs completed for IR Site 1 (Tetra Tech 1999c, BEI 2006b) and results from the 256 soil/waste samples collected from the Burn Area during the 2010 and 2011 FFS characterization work (AMEC 2013) did not find a risk equal to or greater than 10^{-3}. Radiological hot-spots (i.e., soil material exhibiting a gamma scan reading of two times background) will be removed from the surface of the Burn Area and as part of the select excavation element of the selected amended remedy (i.e., Alternative BA-1). In addition, results of the surface water risk assessment conducted as part of the FFS (AMEC 2013) showed that the submarine discharge of groundwater from the Burn Area to the San Francisco Bay do not represent principal threat waste.

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10.0 AMENDED BURN AREA SELECTED REMEDY

10.1 Summary of the Rationale for the Selected Amended Remedy (i.e., Alternative BA-1)

The Navy has determined that soil at the Burn Area poses a potential risk to human health and the environment. Soil poses a potential risk to human health based on exposures through ingestion, inhalation of particulates, direct exposure to radiological materials, or dermal contact of an occupational or recreational receptor to COCs in the soil. The potential discharge of contaminated groundwater to surface water is the primary pathway for risk to the environment for groundwater near the shoreline. The 1999 ERA presented in the RI Report (Tetra Tech, 1999c), the Groundwater Evaluation presented in the FS Report (BEI 2006b), and the updated evaluation of risks from exposure to surface water in the San Francisco Bay, which considered the SDG from the Burn Area and was presented in the FFS Report (AMEC 2013) indicate that there is no risk to aquatic receptors from the discharge of groundwater contamination from the Burn Area outside the VOC plume to surface water. The Navy has evaluated and selected remedial alternatives that will address the risks associated with the Burn Area.

10.2 Description of the Selected Amended Remedy (i.e., Alternative BA-1): Stabilization and Containment of Burn Waste with Open Cell Steel Sheet Pile Waste Isolation Bulkhead, Select Excavation, Soil Cover, and ICs

The selected amended remedy (i.e., Alternative BA-1) includes the installation of an Open Cell steel sheet pile WIB along the shoreline boundary of the thickest portions of the Burn Area, select excavation of burn waste and relocation of the excavated waste to above the thickest portion of the burn layer, installation of a soil cover over the Burn Area, tying the cover into the WIB, radiological screening, a sweep for MPPEH, and ICs. Radiological hot-spots (i.e., soil material exhibiting a gamma scan reading of two times background) will be removed from the surface of the Burn Area and as part of the select excavation element of the selected amended remedy (i.e., Alternative BA-1).

Open Cell Steel Sheet Pile WIB

The selected amended remedy (i.e., Alternative BA-1) includes the installation of an Open Cell steel sheet pile WIB along the thickest portions of the burn layer and impacted materials adjacent to the IR Site 1 shoreline. Figure 7-1 shows the alignment of the WIB. Details on the installation of the WIB are provided in Figure 7-2. The WIB would be installed by first installing a robust silt curtain and sediment control system along the shoreline and to the bay floor and then removing concrete-debris revetment within the first portion of the sheet pile alignment to be installed. Once an area is clear for sheet pile installation, the WIB steel sheet piles (face sheets first then tail wall sheets) would be

installed. By this progress, the amount of unarmored shoreline would be limited during the installation of the WIB. Completed cells of the WIB would be backfilled with clean general fill material during the installation of the WIB. The final elevation of the top of the WIB would be approximately 10 feet above mean sea level providing a relatively flat land surface covering the existing shoreline slope.

Select Excavation

The southern portion of the burn layer is thin in profile (1 to 3 feet thick) and is presumed to have arrived at its current location by littoral drift via longshore currents moving against the burnt wastes bulldozed into the bay to the north. As such this thin burn layer is located between approximately 1 foot above and 1 foot below MSL and is currently located below the FWBZ water table. The total volume of burn layer material within this thin southern tail of burn residues extending from the Burn Area is approximately 2,000 bcy. Excavation of this thin layer and relocation of the burn residues to above the thicker burn layer is more economical than installation of WIB in this portion of the burn residues. The areal extent of the select excavation is shown in Figure 7-1.

Excavation from ground surface to the top of the burn layer in this area would consist of removing the upper 5 to 6 feet of overburden to expose the surface of the burn residues. Removed overburden would be relocated to inland portions of Area 1a or behind the WIB in the Burn Area and reused as foundation layer for the soil cover. Burn residues would then be excavated and relocated above the thicker portions of the burn layer stabilized and contained by the WIB. The resulting excavation would be backfilled with clean imported material.

Soil Cover

The seismically-stable soil cover would be placed over the waste in the Burn Area (Figure 1-3) extending and tying into the clean backfill within the WIB to prevent exposure to contaminants above remediation goals. The Navy would determine the exact location of the cover in the remedial design. The soil cover would be seeded with indigenous plant species as an erosion control measure.

ICs would prohibit residential use of IR Site 1 including the Burn Area and actions that could damage or otherwise reduce the effectiveness of the remedies. No fencing or signage would be included.

10.3 Estimated Costs

The net value in 2012 dollars of the costs associated with the selected amended remedy (i.e., Alternative BA-1) for the Burn Area for soil is estimated to be $13,064,698; Area 1b portions of the ROD selected remedy (Alternative S1-4a) is now estimated to be $40,140,180 based on the revised soil volumes, etc.. These costs are based on the best available information on the anticipated scope of the remedy, and include capital and operation and maintenance costs, and are based on present costs. A summary of the estimated costs for soil and groundwater are presented in Tables 10-1 and 10-2. A detailed cost estimate is presented in the FFS Report (AMEC 2013). Costs may change as a result of new information and data collected during implementation of the selected remedies. Significant changes may be documented in a memorandum to the administrative record, as an explanation of significant difference, or as an amendment to the ROD (U.S. EPA 1999a).

10.4 Expected Outcomes of the Amended Selected Remedies

The expected outcome of the selected remedies for IR Site 1 soil is to allow the future use of the site surface soils by a recreational or occupational receptor, while ensuring that soil does not pose a threat to human health or the environment by meeting the RAOs, as described in Section 8.0 of the ROD (Chadux Tt 2009).

Performance objectives will be established during the remedial design for the selected remedies for soil, and will incorporate elements associated with each remedy, such as confirmation sampling, inspection programs, 5-year reviews, and ICs. These performance objectives will ensure that each remedy is operated and optimized as necessary to meet the RAOs that are presented in this RODA.

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11.0 STATUTORY DETERMINATIONS

CERCLA §121 establishes five principal requirements for the selection of remedies. Remedies must: (1) protect human health and the environment; (2) comply with ARARs unless a waiver is justified; (3) be cost effective; (4) utilize permanent solutions and alternative treatment technologies or resource recovery technologies to the maximum extent practicable; and (5) satisfy a preference for treatment as a principal element. The following sections discuss how the selected amended remedy (i.e., Alternative BA-1) meets these statutory requirements and preferences. Complete discussions are found in the IR Site 1 FS (BEI 2006a) and FFS (AMEC 2013) Reports.

11.1 Protection of Human Health and the Environment

The RAOs for IR Site 1 are designed to allow future uses of the site by a recreational or occupational receptor and to prevent exposures from restricted future uses of the site. The selected remedial action protects human health by removing and/or isolating soil contaminants that potentially pose unacceptable risks to recreational and occupational receptors and by imposing ICs to prevent exposures that could otherwise result from unintended site activities. Groundwater is not used for domestic purposes or for irrigation at IR Site 1.

No short-term risks are associated with the selected amended remedy (i.e., Alternative BA-1) that cannot be readily controlled. In addition, no adverse cross-media effects are expected from the remedy.

11.2 Compliance with ARARs

The selected remedial alternative complies with ARARs associated with the excavation, soil cover, and ICs identified in Table 13-1, Table 13-2, and Table 13-3 in the ROD (Chadux Tt 2009), which are hereby incorporated by reference without change.

11.3 Cost-Effectiveness

The Navy has concluded that the selected amended remedy (i.e., Alternative BA-1) for the Burn Area would provide overall effectiveness proportional to its costs, thus they are considered cost-effective. All of the technologies included in the selected remedy are readily implementable and have been widely used, and demonstrated to be effective.

11.4 Use Of Permanent Solutions and Alternative Treatment Technologies (or Resource Recovery Technologies) to the Maximum Extent Practicable

The Navy has determined that the selected amended remedy represents the maximum extent practicable to which permanent solutions and alternative treatment technologies can be used in a cost-effective manner for the Burn Area. Of all the alternatives that are protective of human health and the environment and comply with ARARs, the Navy has concluded that the selected remedy for the Burn Area would provide the best balance of tradeoffs amongst the short-term effectiveness, long-term effectiveness and permanence, implementability, and cost. The selected remedy is expected to be permanent and effective over the long-term land use.

11.5 Preference for Treatment as a Principal Element

The selected amended remedy (i.e., Alternative BA-1) is protective of human health and the environment, complies with Federal and State requirements that are legally applicable or relevant and appropriate to the remedial action, and is cost-effective. This remedy does not satisfy the statutory preference for treatment. The Navy evaluated several treatment technologies that were eliminated in the FS Report (BEI 2006a). The Navy eliminated in-situ stabilization/solidification from further consideration based on implementability and cost. This technology would be difficult to implement in the heterogeneous fill material in Burn Area, which includes cables, scrap metal, and large debris. The costs of this technology would be significantly higher for the Burn Area than other technologies. Phytoremediation was eliminated from further consideration as an in-situ treatment option for soil at the Burn Area based on uncertain effectiveness and low implementability. The soil-washing process option was eliminated from further consideration based on its anticipated low effectiveness and implementability and high cost. Ex-situ stabilization/solidification of metals contaminated soil was eliminated from further consideration because the anticipated volume of soil for placement under the soil cover was not sufficient to make this process cost-effective.

11.6 5-Year Review Requirements

Five-year reviews pursuant to CERCLA §121 and the NCP are required if the selected remedies result in hazardous waste or contaminants remaining at the site above levels allowing for unlimited use and unrestricted exposure. Five-year reviews will be conducted for IR Site 1, inclusive of the Burn Area, because contaminants will be left onsite above levels allowing for unlimited use and unrestricted exposure.

12.0 DOCUMENTATION OF SIGNIFICANT CHANGES

The selected amended remedy (i.e., Alternative BA-1) for the Burn Area does not reflect any significant changes from the proposed remedy described in the March 2013 Proposed Plan.

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TABLES

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Table 7-1. Remedial Alternatives for Soil

Remedial Alternative	S1-4a	BA-1
Cost ($M)	40.2	13.1
Components of Remedial Alternative	**Excavation of Waste from Area 1b:** remove waste from Area 1b. **ICs:** prohibit residential use of IR Site 1, limit and regulate penetration of soil cover through the regulatory agencies.	**Installation of WIB and Select Excavation:** install WIB along the thickest portions of the burn layer and impacted materials adjacent to the IR Site 1 shoreline and select excavation of the thinner burn layer deposits in the southern portion of the Burn Area. **Removal of Radiologically-Impacted Waste:** screen surface and remove material which exceeds 2 times background to a depth of one foot. **Soil Cover:** construction of a soil cover over the Burn Area to extend and connect to the WIB fill material. **ICs from ROD are unchanged:** prohibit residential use of the Burn Area and any actions that could damage or otherwise reduce the effectiveness of the remedies.

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Table 10-1. Cost Estimate Summary
Burn Area Aspects of Alternative S1-4A

DESCRIPTION	UNIT	UNIT COST	QUANTITY	TOTAL
REMEDIAL DESIGN				
Datagap Investigation	each	$ 2,184,019.00	1	$ 2,184,019
Remedial Design	each	$ 475,568.00	1	$ 475,568
Remedial Action Work Plan	each	$ 228,563.00	1	$ 228,563
IC Implementation Plan	each	$ 71,146.00	1	$ 71,146
			REMEDIAL DESIGN SUBTOTAL WITH MARKUPS*	**$ 2,959,296**
REMEDIAL ACTION				
Install Shoring System Bulkhead				
Procure & Deliver Steel Sheet Pile	ton	$ 3,200.14	610	$ 1,952,085
Mobilization/Demobilization	each	$ 523,377.25	1	$ 523,377
Install Bulkhead	square foot	$ 68.18	39590	$ 2,699,246
Excavation & Backfill				
Import General Fill	ton	$ 3.85	46200	$ 177,870
Import Clean Gravel	ton	$ 31.35	58800	$ 1,843,380
Import Topsoil	ton	$ 7.98	4200	$ 33,495
Excavate Above Water Table	bank cubic yard	$ 39.60	33000	$ 1,306,800
Excavate Below Water Table	bank cubic yard	$ 62.70	42000	$ 2,633,400
Backfill Above Water Table	bank cubic yard	$ 8.80	33000	$ 290,400
Backfill Below Water Table	bank cubic yard	$ 8.80	42000	$ 369,600
Segregate Wastes Stream	bank cubic yard	$ 71.50	75000	$ 5,362,500
Off-site Disposal (Rad.-impacted)	ton	$ 1,667.00	2100	$ 3,500,700
Off-site Disposal (Cal.Haz.Waste)	ton	$ 53.00	31500	$ 1,669,500
Off-site Disposal (RCRA Haz.Waste)	ton	$ 314.00	21000	$ 6,594,000
On-site Disposal	bank cubic yard	$ 18.98	36000	$ 683,100
Final Grading	each	$ 55,000.00	1	$ 55,000
Soil Confirmation Sampling	per sample	$ 275.00	400	$ 110,000
			REMEDIAL ACTION SUBTOTAL W/ MARKUPS*	**$ 29,804,454**
OPERATIONS & MAINTENANCE				
Institutional Controls	30 years	$ 264,000.00	1	$ 264,000
Five-year Reviews	each	$ 70,400.00	6	$ 422,400
			O&M SUBTOTAL WITH MARKUPS*	**$ 686,400**
			SUBTOTAL WITH MARKUPS*	**$ 33,450,150**
			CONTINGENCY (20%)	**$ 6,690,030**
			NET PRESENT VALUE (2012 DOLLARS)	**$ 40,140,180**

NOTES:

*markups include overall project management, overhead, bonds and insurance, home office support, and profit

Engineering and construction oversight and radiological controls labor and direct costs were rounded and divided into applicable unit rates shown above.

Costs for institutional controls and five-year reviews from the Final FS (BEI, 2006a).

Geotechnical assessment has been included as part of the unit cost for remedial design.

Five-year reviews will be required at IR Site 1, including the Burn Area, so long as hazardous waste or contaminants remaining at the site are above levels allowing for unlimited use and unrestricted exposure.

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Table 10-2. Cost Estimate Summary for the Selected Amended Remedy (i.e., Alternative BA-1)

DESCRIPTION	UNIT	UNIT COST	QUANTITY	TOTAL
REMEDIAL DESIGN				
Datagap Investigation	each	$ 2,183,719.00	1	$ 2,183,719
Remedial Design	each	$ 403,942.00	1	$ 403,942
Remedial Action Work Plan	each	$ 194,167.00	1	$ 194,167
IC Implementation Plan	each	$ 60,055.00	1	$ 60,055
			REMEDIAL DESIGN SUBTOTAL WITH MARKUPS*	**$ 2,841,883**
REMEDIAL ACTION				
Install Shoring System Bulkhead				
Procure & Deliver Steel Sheet Pile	ton	$ 3,555.50	610	$ 2,168,855
Mobilization/Demobilization	each	$ 523,380.00	1	$ 523,380
Install Bulkhead	square foot	$ 68.18	39590	$ 2,699,246
Backfill Bulkhead	bank cubic yard	$ 52.81	3200	$ 168,992
Select Excavation & Backfill				
Import General Fill	ton	$ 3.85	7000	$ 26,950
Import Clean Gravel	ton	$ 31.35	2800	$ 87,780
Import Topsoil	ton	$ 7.98	700	$ 5,583
Excavate Above Water Table	bank cubic yard	$ 39.60	5000	$ 198,000
Excavate Below Water Table	bank cubic yard	$ 62.70	2000	$ 125,400
Backfill Above Water Table	bank cubic yard	$ 8.80	5000	$ 44,000
Backfill Below Water Table	bank cubic yard	$ 8.80	2000	$ 17,600
Segregate Wastes Stream	bank cubic yard	$ 71.50	7000	$ 500,500
Off-site Disposal (Rad.-impacted)	ton	$ 1,667.00	200	$ 333,400
On-site Disposal	bank cubic yard	$ 18.98	6800	$ 129,030
Final Grading	each	$ 16,500.00	1	$ 16,500
Soil Confirmation Sampling	per sample	$ 275.00	50	$ 13,750
			REMEDIAL ACTION SUBTOTAL W/ MARKUPS*	**$ 7,058,966**
OPERATIONS & MAINTENANCE				
Institutional Controls	30 years	$ 264,000.00	1	$ 264,000
Inspection and Maintenance of WIB	30 years	$ 300,000.00	1	$ 300,000
Five-year Reviews	each	$ 70,400.00	6	$ 422,400
			O&M SUBTOTAL WITH MARKUPS*	**$ 986,400**
			SUBTOTAL WITH MARKUPS*	**$ 10,887,249**
			CONTINGENCY (20%)	**$ 2,177,450**
			NET PRESENT VALUE (2012 DOLLARS)	**$ 13,064,698**

NOTES:

*markups include overall project management, overhead, bonds and insurance, home office support, and profit

Engineering and construction oversight and radiological controls labor and direct costs were rounded and divided into applicable unit rates shown above.

Costs for institutional controls and five-year reviews from the Final FS (BEI, 2006a).

Geotechnical assessment has been included as part of the unit cost for remedial design.

The costs associated with the inspection and maintenance of the soil cover over the Burn Area are included in the costs of the ROD selected remedy for Area 1a.

Five-year reviews will be required at IR Site 1, including the Burn Area, so long as hazardous waste or contaminants remaining at the site are above levels allowing for unlimited use and unrestricted exposure.

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FIGURES

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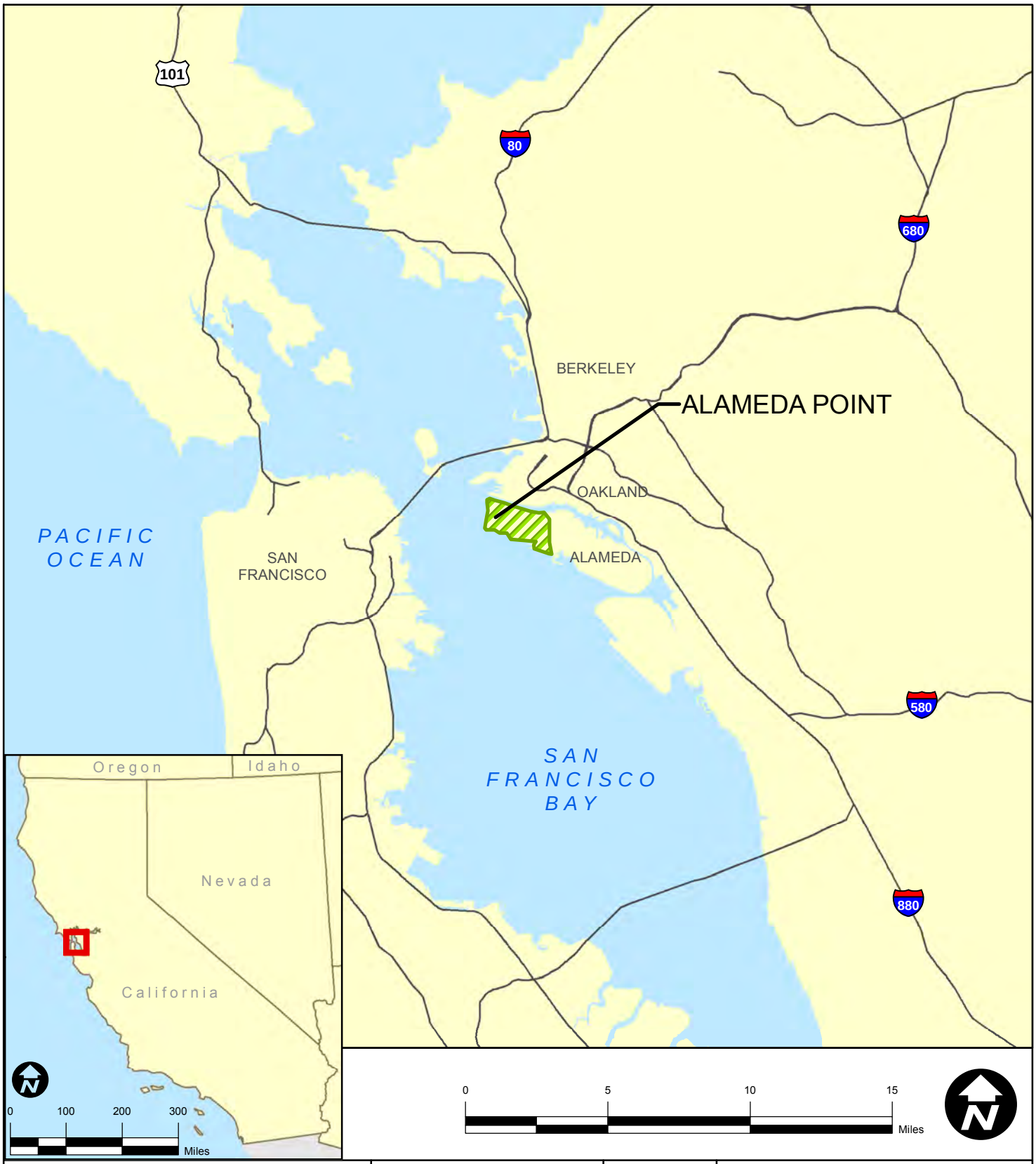

AMEC 9210 Sky Park Court, Suite 200 San Diego, CA 92123	amec		CLIENT: U.S. Department of the Navy BRAC PMO West San Diego, California

PROJECT: RECORD OF DECISION AMENDMENT	DWN BY: SFW	DATUM: NAD27	DATE: SEPTEMBER 2013
TITLE: ALAMEDA POINT LOCATION MAP	CHK'D BY: PAG	REV. NO.: 1	PROJECT NO.: N62473-08-D-8816-CTO-002
	PROJECTION: CA SP III FT	SCALE: 1 in = 5 miles	FIGURE No.: 1-1

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		CHK'D BY: PAG		PROJECT NO.: N62473-08-D-8816-CTO-002
	AMEC, 9210 Sky Park Court, Suite 200, San Diego, CA 92123	DATUM: NAD27	TITLE: IR SITE 1 LOCATION MAP	REV. NO.: 1
		PROJECTION: CA SP III Ft.		FIGURE NO.: 1-2
		SCALE: 1 inch = 1,500 feet		

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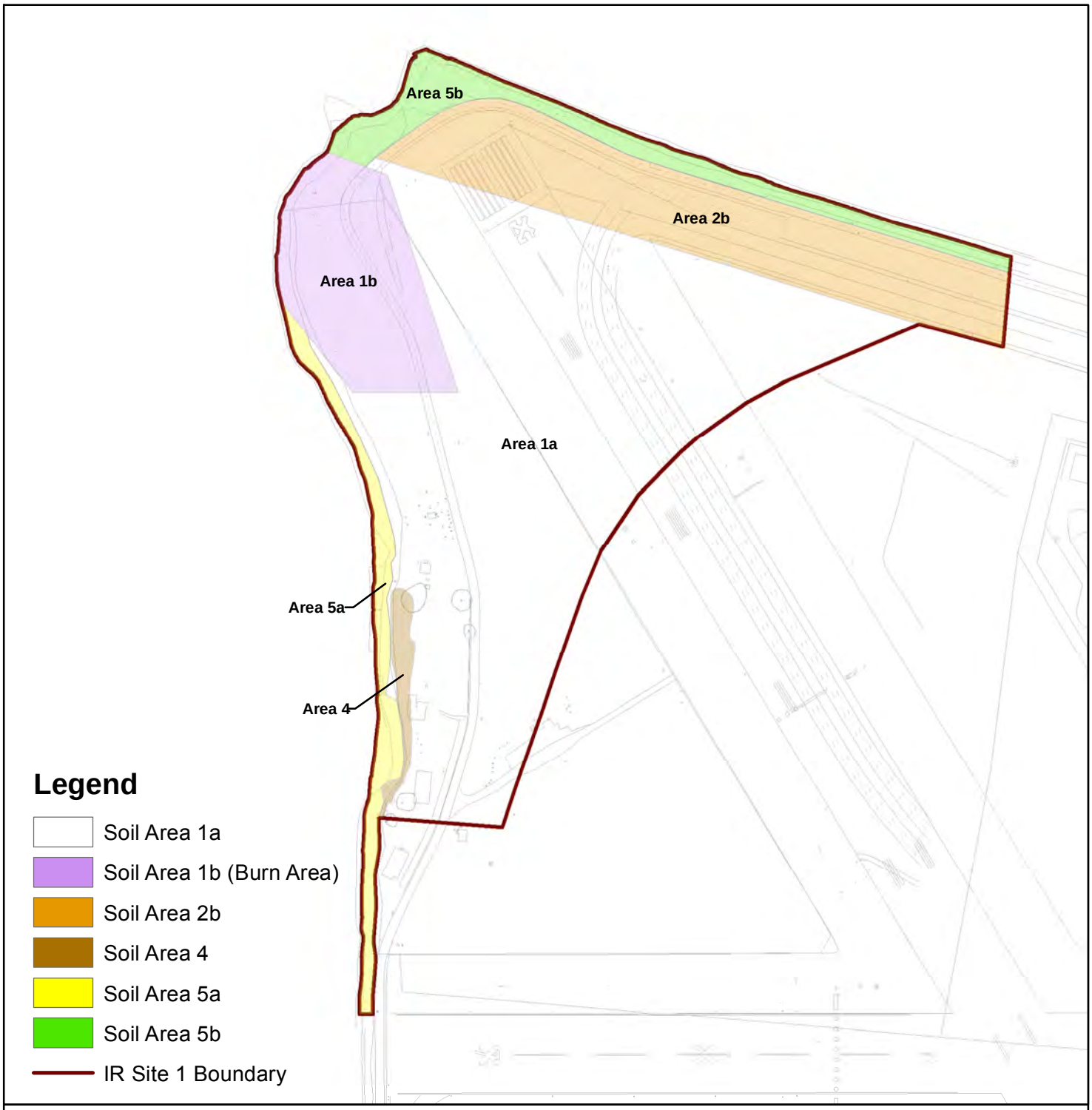

0 350 700 1,050 Feet

AMEC 9210 Sky Park Court, Suite 200 San Diego, CA 92123	amec		CLIENT: U.S. Department of the Navy BRAC PMO West San Diego, California
PROJECT: RECORD OF DECISION AMENDMENT		DWN BY: SFW	DATUM: NAD27 / DATE: SEPTEMBER 2013
TITLE: SOIL CONTAMINATION AREAS LOCATION MAP		CHK'D BY: PAG	REV. NO.: 1 / PROJECT NO.: N62473-08-D-8816-CTO-002
		PROJECTION: CA SP III FT	SCALE: 1 inch = 350 feet / FIGURE No.: 1-3

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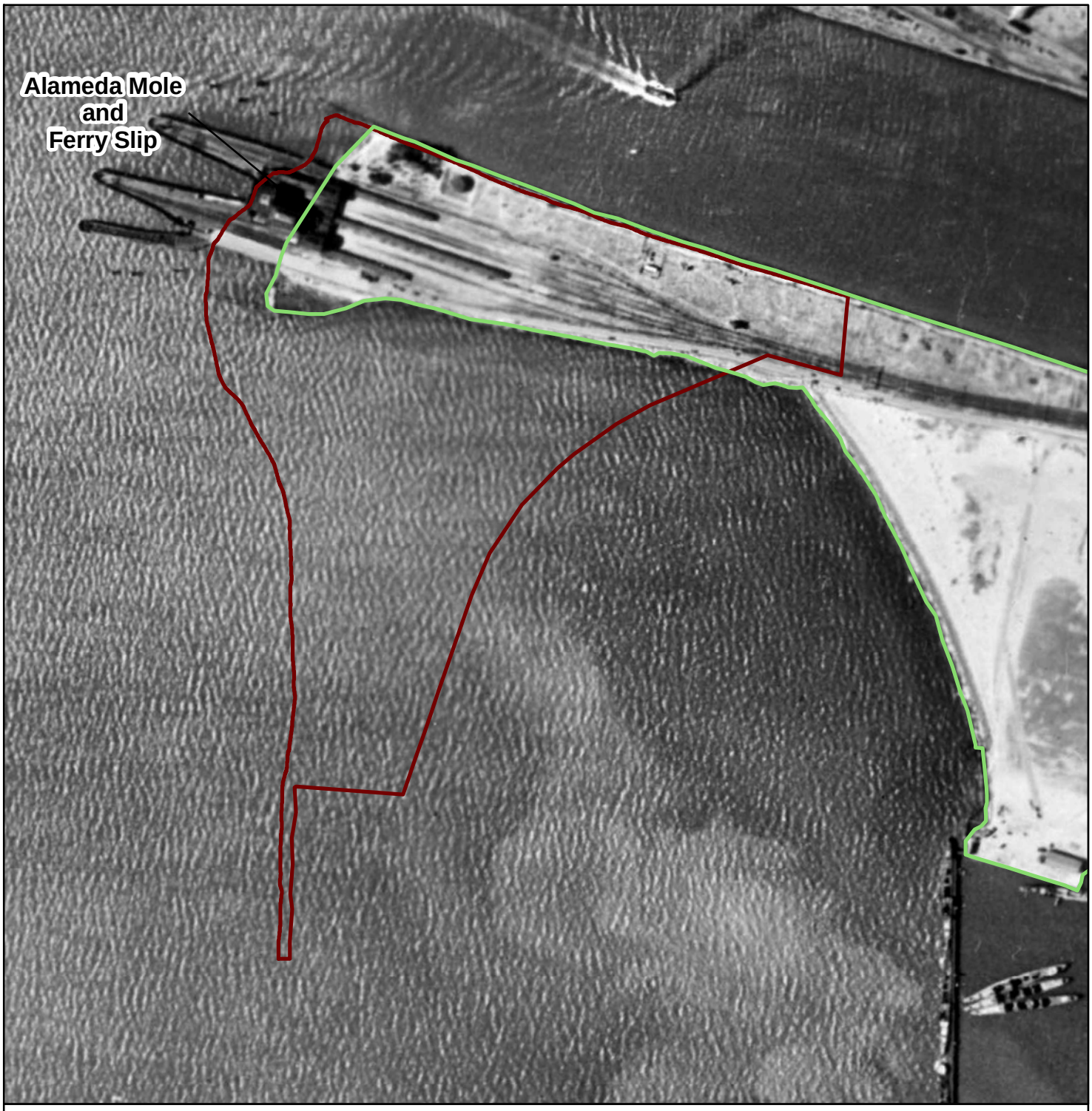

1939 Land Surface

IR Site 1 Boundary

0 400 800 1,200 Feet

N

AMEC 9210 Sky Park Court, Suite 200 San Diego, CA 92123	amec		CLIENT: U.S. Department of the Navy BRAC PMO West San Diego, California
PROJECT: RECORD OF DECISION AMENDMENT		DWN BY: SFW	DATUM: NAD27	DATE: SEPTEMBER 2013
TITLE: 1939 Aerial Photo with IR Site 1 Boundary		CHK'D BY: PAG	REV. NO.: 1	PROJECT NO.: N62473-08-D-8816-CTO-002
		PROJECTION: CA SP III FT	SCALE: 1 inch = 400 feet	FIGURE No.: 2-1

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1946 Land Surface

1939 Land Surface

IR Site 1 Boundary

0 400 800 1,200 Feet

N

AMEC 9210 Sky Park Court, Suite 200 San Diego, CA 92123	amec		CLIENT: U.S. Department of the Navy BRAC PMO West San Diego, California
PROJECT: RECORD OF DECISION AMENDMENT	DWN BY: SFW	DATUM: NAD27	DATE: SEPTEMBER 2013
TITLE: 1946 Aerial Photo with 1939 Land Surface and IR Site 1 Boundary	CHK'D BY: PAG	REV. NO.: 1	PROJECT NO.: N62473-08-D-8816-CTO-002
	PROJECTION: CA SP III FT	SCALE: 1 inch = 400 feet	FIGURE No.: 2-2

P:\consulting\projects\PERMAC\8151020002 (CTO 0002) RD-RA Site 1 Alameda Point\ROD Amendment\Figures\Final Figures\MXDs\FIG_2-02_1946_Aerial.mxd - shannon.williams - 9/17/2013 - 7:46:12 AM

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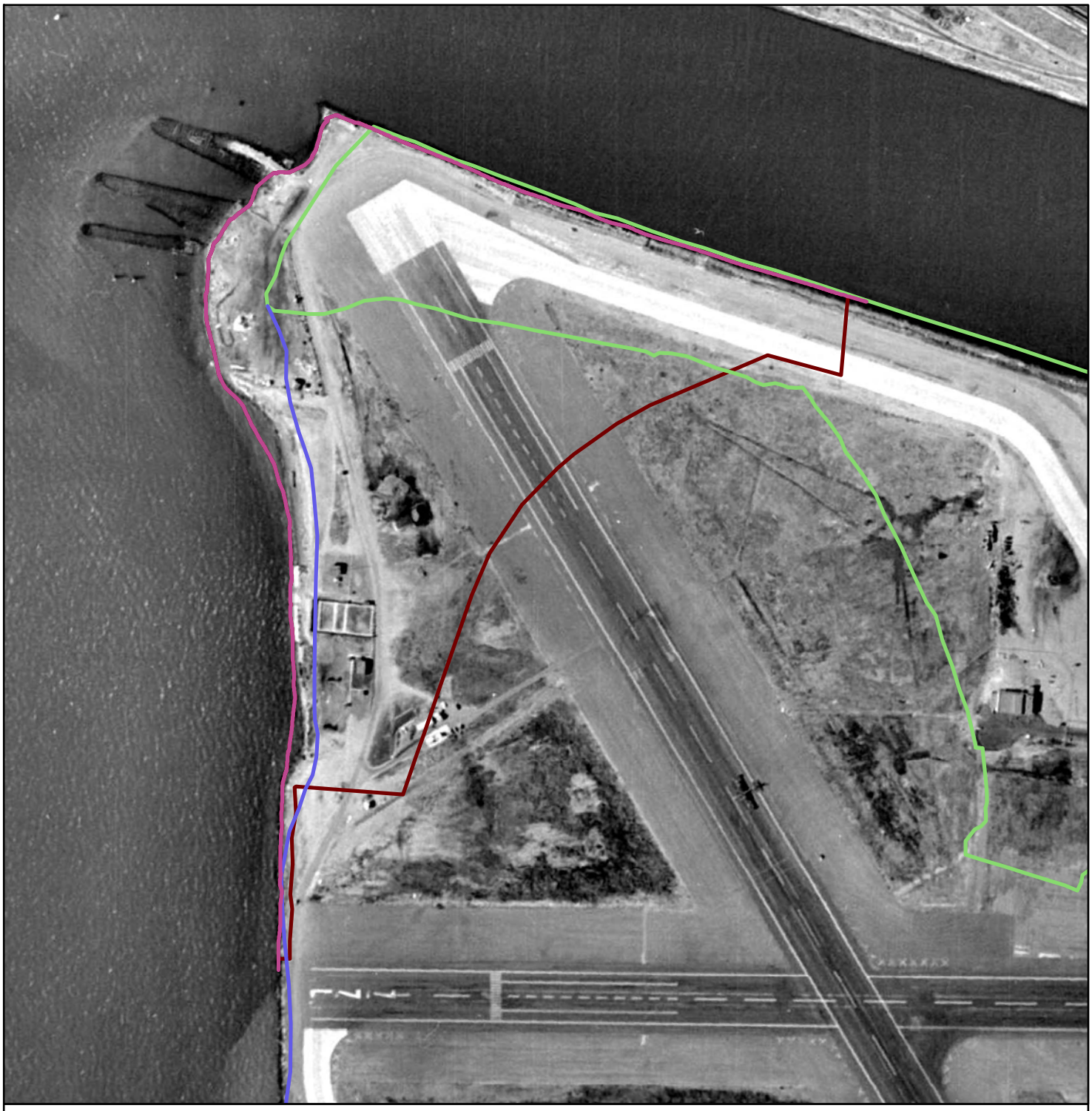

2010 Land Surface
1946 Land Surface
1939 Land Surface
IR Site 1 Boundary

0 400 800 1,200 Feet

AMEC 9210 Sky Park Court, Suite 200 San Diego, CA 92123	amec		CLIENT: U.S. Department of the Navy BRAC PMO West San Diego, California
PROJECT: RECORD OF DECISION AMENDMENT	DWN BY: SFW	DATUM: NAD27	DATE: SEPTEMBER 2013
TITLE: 1958 Aerial Photo with 1939 and 1946 Land Surfaces and IR Site 1 Boundary	CHK'D BY: PAG	REV. NO.: 1	PROJECT NO.: N62473-08-D-8816-CTO-002
	PROJECTION: CA SP III FT	SCALE: 1 inch = 400 feet	FIGURE No.: 2-3

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AMEC
9210 Sky Park Court, Suite 200
San Diego, CA 92123

CLIENT:
U.S. Department of the Navy
BRAC PMO West
San Diego, California

PROJECT: RECORD OF DECISION AMENDMENT	DWN BY: SFW	DATUM: NAD27	DATE: SEPTEMBER 2013
TITLE: 2005 Aerial Photo with 1939, 1946, and 2010 Land Surfaces and IR Site 1 Boundary	CHK'D BY: PAG	REV. NO.: 1	PROJECT NO.: N62473-08-D-8816-CTO-002
	PROJECTION: CA SP III FT	SCALE: 1 inch = 400 feet	FIGURE No.: 2-4

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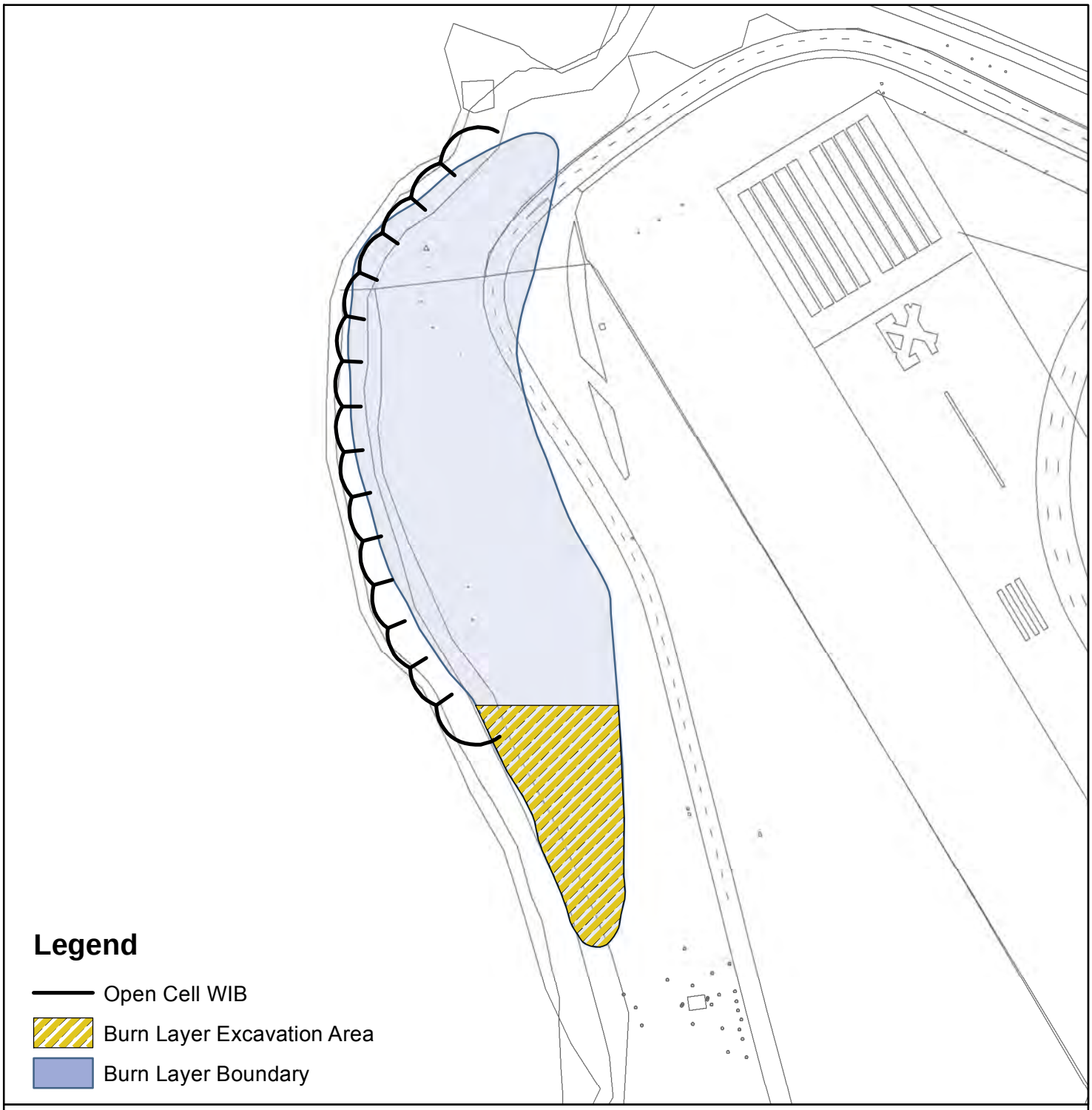

0 150 300 450 Feet

AMEC 9210 Sky Park Court, Suite 200 San Diego, CA 92123		CLIENT: U.S. Department of the Navy BRAC PMO West San Diego, California	
TITLE: RECORD OF DECISION AMENDMENT	DWN BY: SFW	DATUM: NAD27	DATE: SEPTEMBER 2013
PROJECT: Alternative BA-1: Open Cell WIB and Select Excavation Plan	CHK'D BY: PAG	REV. NO.: 1	PROJECT NO.: N62473-08-D-8816-CTO-002
	PROJECTION: CA SP III FT	SCALE: 1 inch = 150 feet	FIGURE No.: 7-1

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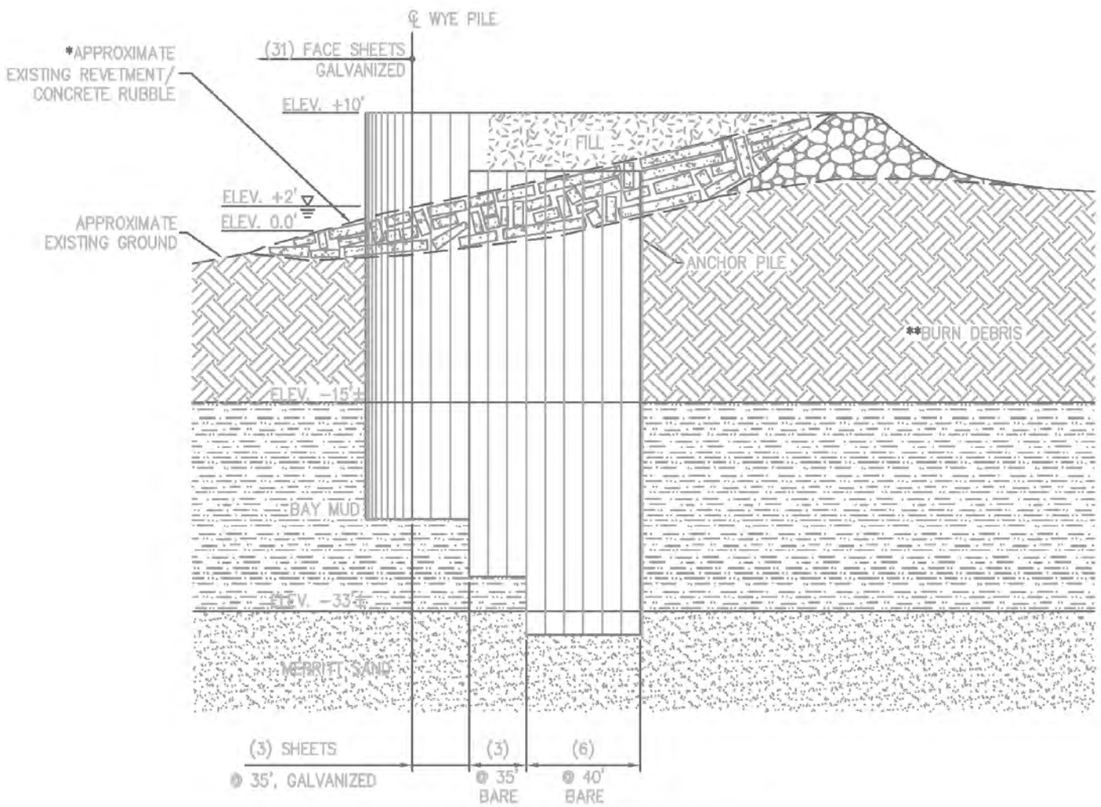
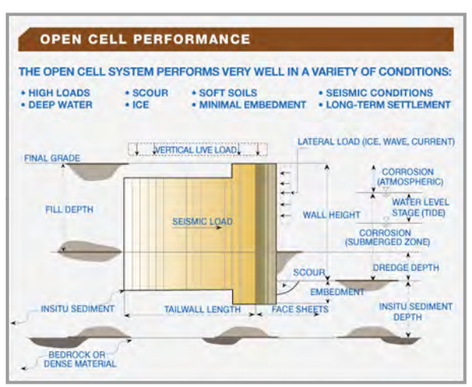
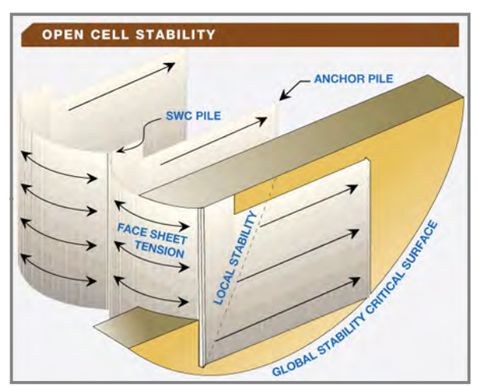
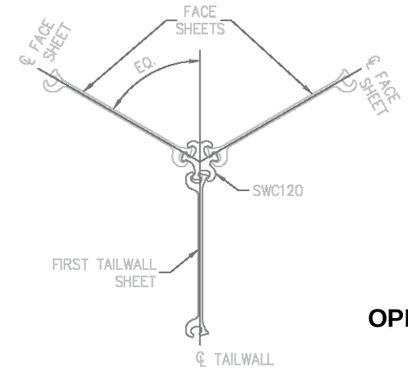


TYPICAL SECTION

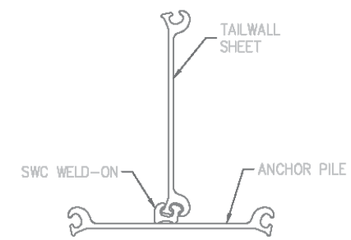






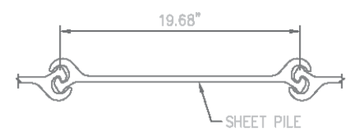
WYE PILE

SWC120 + PS27.5



ANCHOR PILE

SWC WELD-ON + PS27.5



SHEET PILE

PS27.5

GENERAL NOTES

SHEET PILES

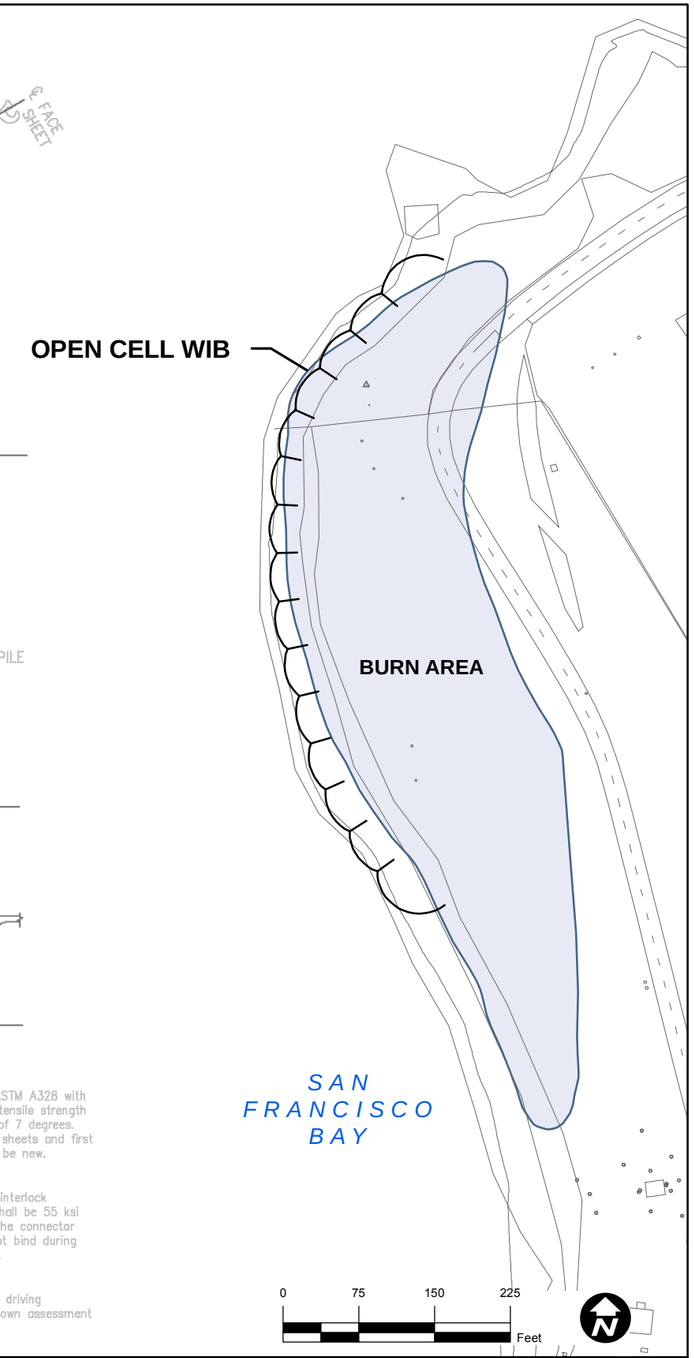
Sheet piles shall be PS27.5 as manufactured by Chaparral per ASTM A328 with chemistry meeting ASTM A572 requirements, minimum interlock tensile strength of 20,000 pounds per inch, and minimum interlock swing angle of 7 degrees. Sheet piles shall be installed full length without splices.The face sheets and first 4 tailwall sheet shall be hot dipped galvanized. Sheet piles shall be new.

SWC120 PILES

The SWC120 connection piles shall be supplied by Pile Pro, with interlock capacities matching the sheet piles. The minimum yield stress shall be 55 ksi and the minimum tensile stress shall be 75 ksi. Fabrication of the connector piles shall be completed such that the finished sheet pile will not bind during driving. Carbon equivalency, per AWS D1.1, shall not exceed 0.52.

POTENTIAL INTERFERENCE

The existing soils contain debris that may interfere with the pile driving operation. The Contractor shall review site conditions and make own assessment of pile driving interferences.



Open Cell images provided by PND Engineers

CLIENT: U.S. Department of the Navy, BRAC PMO West, San Diego, California	DWN BY: SFW	PROJECT: RECORD OF DECISION AMENDMENT	DATE: SEPTEMBER 2013
	CHK'D BY: PAG		PROJECT NO.: N62473-08-D-8816-CTO-002
AMEC, 9210 Sky Park Court, Suite 200, San Diego, CA 92123	DATUM: NAD27	TITLE: OPEN CELL WASTE ISOLATION BULKHEAD	REV. NO.: 1
	PROJECTION: CA SP III Ft.		FIGURE NO.: 7-2
	SCALE: 1 inch = 150 feet		

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APPENDIX A

ADMINISTRATIVE RECORD
(PROVIDED ON CD)

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ALAMEDA POINT NAS

DRAFT ENVIRONMENTAL RESTORATION RECORD INDEX - UPDATE (SORTED BY RECORD DATE/RECORD NUMBER)

DOCUMENTS RELATED TO SITE 1

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000198 NEESA 13-014 REPORT N62474-82-C-8272 176	11-24-1999 **04-01-1983** NONE 00.0	ECOLOGY AND ENVIRONMENT, INC. NAVFAC - EFA WEST	INITIAL ASSESSMENT STUDY (IAS)	ADMIN RECORD	005 006 007 008 009 010 011 012 017 SITE 00001 SITE 00002 SITE 00003 SITE 00004	FRC - PERRIS IMAGED APNT_045	181-03-0179 41074200	BOX 0010
N00236 / 000146 EFAW SER 09A2A.13/MGP CORRESPONDENC NONE 4	11-24-1999 **04-25-1986** NONE 00.0	NAVFAC - EFA WEST DONG, A. CRWQCB	RESPONSE TO RWQCB LETTER OF 04 MARCH 1986 (NO. 124) REGARDING TIMELY COMPLETION OF 1 FOOT COVER ON WEST BEACH LANDFILL	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_002	181-03-0179 41074200	BOX 0008
N00236 / 000103 SER 0LE/105 CORRESPONDENC NONE 1	11-24-1999 **05-03-1988** NONE 00.0	DEPARTMENT OF THE NAVY R. STEIMER CRWQCB - OAKLAND K. THEISSEN	REQUEST FOR JOINT SOLID WASTE ASSESSMENT TEST (SWAT) FOR WEST BEACH AND 1943-1956 LANDFILLS	ADMIN RECORD	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_002	181-03-0179 41074200	BOX 0003

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000104 FILE NO. 2199.9080 (KJT) CORRESPONDENC NONE 1	11-24-1999 **05-24-1988** NONE 00.0	CRWQCB - OAKLAND LUNDGREN, A. NAVFAC - EFA WEST R. CATE	APPROVAL OF JOINT SOLID WASTE ASSESSMENT TEST (SWAT) FOR WEST BEACH AND 1943-1956 LANDFILLS	ADMIN RECORD	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_002	181-03-0179 41074200	BOX 0003

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N00236 / 000212 NONE REPORT NONE 215	11-24-1999 **08-01-1988** NONE 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	FINAL DRAFT SAMPLING PLAN (SP), REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 1 OF 8] {***SEE COMMENTS}	ADMIN RECORD	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AREA SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-08-0082 BOX 0007 40095306 SAN

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
					SITE 00004 YARD D-13		

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000214 NONE REPORT NONE 66	11-24-1999 **08-01-1988** NONE 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	FINAL DRAFT HEALTH AND SAFETY PLAN (HASP), REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 2 OF 8] {INCLUDES APPENDICES A THROUGH C} (***SEE COMMENTS)	ADMIN RECORD	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AR SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0011

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
					SITE 00004 YARD D-13		

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000787 NONE REPORT N62474-85-D-5620 27	11-24-1999 **08-01-1988** DO 001 & DO 002 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	FINAL DRAFT AIR SAMPLING PLAN, REMEDIAL INVESTIGASTION/FEASIBILITY STUDY (RI/FS) [VOLUME 1B OF 8] {***SEE COMMENTS}	ADMIN RECORD	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AREA SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0018

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
					SITE 00004 YARD D-13		

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N00236 / 000258 NONE REPORT N62474-85-D-5620 27	11-24-1999 **09-01-1988** DO 001 & DO 002 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	FINAL DRAFT AIR SAMPLING PLAN, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 1B OF 8] {***SEE COMMENTS}	ADMIN RECORD	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AREA SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-03-0179 BOX 0012 41074200

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
					SITE 00004 YARD D-13			
N00236 / 000807 NONE REPORT N62474-85-D-5620 189	11-24-1999 **09-01-1988** DO 0004 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	DRAFT SAMPLING PLAN, SOLID WASTE ASSESSMENT TEST (SWAT) PROPOSAL ADDENDUM, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 1A OF 8] {MISSING FIGURE 3-7} (INCLUDES APPENDICES A THROUGH G) [***SEE COMMENTS]	INFO REPOSITORY	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0021
N00236 / 000257 NONE REPORT N62474-85-D-5620 185	11-24-1999 **10-01-1988** DO 0004 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	FINAL DRAFT SAMPLING PLAN, SOLID WASTE ASSESSMENT TEST (SWAT) PROPOSAL ADDENDUM, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 1A OF 8] {INCLUDES APPENDICES A THROUGH G} (***SEE COMMENTS)	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0012

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000259 NONE REPORT N62474-85-D-5620 38	11-24-1999 **11-01-1988** DO 0005 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	FINAL DRAFT PROJECT MANAGEMENT PLAN/SCHEDULE, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 5 OF 8] {***SEE COMMENTS}	ADMIN RECORD	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AREA SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0012

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
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UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000260 NONE REPORT N62474-85-D-5620 85	11-24-1999 **12-01-1988** DO 0005 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	FINAL DRAFT DATA MANAGEMENT PLAN, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 6 OF 8] {***SEE COMMENTS}	ADMIN RECORD	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AREA SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0012

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
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UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000261 NONE REPORT NONE 345	11-24-1999 **12-01-1988** NONE 00.0	CLEMENT ASSOCIATES NAVFAC - EFA WEST	FINAL DRAFT PUBLIC HEALTH AND ENVIRONMENTAL EVALUATION PLAN (PHEE), REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 7 OF 8] {MISSING SECTION 3} (***SEE COMMENTS)	ADMIN RECORD	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AREA SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0013

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
					SITE 00004 YARD D-13		

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000262 NONE REPORT N62474-85-D-5620 78	11-24-1999 **12-01-1988** DO 0005 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	FINAL DRAFT FEASIBILITY STUDY (FS) PLAN, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 8 OF 8] {***SEE COMMENTS}	ADMIN RECORD	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AREA SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0013

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
					SITE 00004 YARD D-13		

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000274 NONE REPORT N62474-85-D-5620 123	11-24-1999 **12-01-1988** DO 001 & DO 002 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	FINAL HEALTH AND SAFETY PLAN (HASP), REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 2 OF 8] {INCLUDES APPENDICES A THROUGH H} (***SEE COMMENTS)	ADMIN RECORD	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AR SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0013

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
					SITE 00004 YARD D-13		

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000275 NONE REPORT N62474-85-D-5620 34	11-24-1999 **12-01-1988** DO 001 & 002 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	FINAL AIR SAMPLING PLAN, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 1B OF 8] {***SEE COMMENTS}	ADMIN RECORD INFO REPOSITORY	005 006 007 008 009 010 011 012 013 0140 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AREA SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0013

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
					SITE 00004 YARD D-13		

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000291 NONE REPORT N62474-85-D-5620 212	11-24-1999 **01-01-1989** DO 001 & DO 002 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	SAMPLING PLAN (SP), REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 1 OF 8] (REVISED VERSION) [***SEE COMMENTS]	ADMIN RECORD	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AREA SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0013

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
					SITE 00004 YARD D-13			
N00236 / 000311 NONE REPORT N62474-85-D-5620 194	11-24-1999 **02-01-1989** DO 0004 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	FINAL SAMPLING PLAN - SOLID WASTE ASSESSMENT TEST (SWAT) PROPOSAL ADDENDUM, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 1A OF 8] {INCLUDES APPENDICES A THROUGH G} (***SEE COMMENTS)	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0014

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000322 NONE REPORT NONE 45	11-24-1999 **02-01-1989** NONE 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	FINAL PROJECT MANAGEMENT PLAN/SCHEDULE, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 5 OF 8] (SEE AR #322 - EFAW TRANSMITTAL LETTER BY R. SERAYDARIAN) {***SEE COMMENTS}	ADMIN RECORD INFO REPOSITORY	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AREA SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0014

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
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UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000351 NONE REPORT N62474-85-D-5620 154	11-24-1999 **05-01-1989** DO 001 & DO 002 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	REVISED FINAL HEALTH AND SAFETY PLAN (HASP), REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 2 OF 8] {INCLUDES APPENDICES A THROUGH J} (***SEE COMMENTS)	ADMIN RECORD	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AR SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0014

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
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UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000361 NONE REPORT NONE 86	11-24-1999 **05-01-1989** NONE 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	DATA MANAGEMENT PLAN, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 6 OF 8] {***SEE COMMENTS}	ADMIN RECORD INFO REPOSITORY	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AREA SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0014

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
					SITE 00004 YARD D-13		

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N00236 / 000371 NONE REPORT NONE 364	11-24-1999 **06-01-1989** NONE 00.0	CLEMENT ASSOCIATES NAVFAC - EFA WEST	FINAL PRELIMINARY PUBLIC HEALTH AND ENVIRONMENTAL EVALUATION PLAN (PHEE), REMEDIAL INVESTIGATION FEASIBILITY STUDY (RI/FS) [VOLUME 7 OF 8] {***SEE COMMENTS}	ADMIN RECORD	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AREA SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-03-0179 BOX 0015 41074200

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
					SITE 00004 YARD D-13			
N00236 / 000784 FILE NO. 0388042.0(REPORT N62474-85-D-5620 46	11-24-1999 **10-16-1989** DO 0007 00.0	SCS ENGINEERS NAVFAC - EFA WEST	MONITORING PLAN AIR QUALITY SOLID WASTE ASSESSMENT TEST (SWAT) [SEE AR #525 - REVISION 1]	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_011	181-03-0179 41074200	BOX 0018

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000780 NONE REPORT N62474-85-D-5620 178	11-24-1999 **11-01-1989** DO 0008 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	REVISED FINAL HEALTH AND SAFETY PLAN (HASP), REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 2 OF 8] {INCLUDES APPENDICES A THROUGH K} (***SEE COMMENTS)	ADMIN RECORD INFO REPOSITORY	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AR SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0018

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
					SITE 00004 YARD D-13		

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000783 NONE REPORT N62474-85-D-5620 93	11-24-1999 **01-01-1990** DO 0005 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	FINAL FEASIBILITY STUDY PLAN (FS), REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 8 OF 8] {***SEE COMMENTS}	ADMIN RECORD	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AREA SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0018

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
					SITE 00004 YARD D-13		

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000785 NONE REPORT N62474-85-D-5620 283	11-24-1999 **02-01-1990** DO 0008 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	FINAL SAMPLING PLAN (SP), REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 1 OF 8] {***SEE COMMENTS}	ADMIN RECORD INFO REPOSITORY	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 AREA 97 BLDG. 10 BLDG. 114 BLDG. 14 BLDG. 162 BLDG. 301 BLDG. 360 BLDG. 389 BLDG. 400 BLDG. 41 BLDG. 410 BLDG. 459 BLDG. 5 BLDG. 530 BLDG. 547 CANS C-2 AREA SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0018

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
					SITE 00004 YARD D-13			
N00236 / 000786 NONE REPORT N62474-85-D-5620 265	11-24-1999 **02-01-1990** DO 0008 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	FINAL SAMPLING PLAN - SOLID WASTE ASSESSMENT TEST (SWAT) PROPOSAL ADDENDUM, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [VOLUME 1A OF 8] {INCLUDES APPENDICES A THROUGH H} (***SEE COMMENTS)	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0018
N00236 / 000481 NONE CORRESPONDENC NONE 3	11-24-1999 **04-11-1990** NONE 00.0	CRWQCB - OAKLAND S. RITCHIE DEPARTMENT OF THE NAVY R. BOENNIGHAUSEN	REQUEST FOR IMMEDIATE IMPLEMENTATION OF SOLID WASTE ASSESSMENT TEST (SWAT) AT WEST BEACH LANDFILL AND 1943-1956 DISPOSAL AREA (INCLUDES NAVY LETTER BY R. STEIMER DATED 4/11/90)	ADMIN RECORD	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_007	181-03-0179 41074200	BOX 0015
N00236 / 000525 NONE REPORT NONE 45	11-24-1999 **04-24-1990** NONE 00.0	CANONIE ENVIRONMENTAL NAVFAC - SOUTHWEST DIVISION	MONITORING PLAN AIR QUALITY SOLID WASTE ASSESSMENT TEST (SWAT) WEST BEACH LANDFILL AND THE 1943-1956 DISPOSAL AREA, REVISION 1 (SEE AR #784 - MONITORING PLAN AIR QUALITY SWAT, AND AR #526 - EFA WEST TRANSMITTAL LETTER)	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_011	181-03-0179 41074200	BOX 0015
N00236 / 000488 EFAW SER 1813BD/00359 CORRESPONDENC NONE 6	11-24-1999 **05-25-1990** NONE 00.0	NAVFAC - EFA WEST SERAYDARIAN, R. DTSC - BERKELEY MALINOWSKI, M.	NOTIFICATION ABOUT REVISING SURFACE SOIL SAMPLING AT 1943-1956 DISPOSAL AREA	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_045	181-03-0179 41074200	BOX 0015
N00236 / 000498 SER 52/191 CORRESPONDENC NONE 1	11-24-1999 **06-19-1990** NONE 00.0	DEPARTMENT OF THE NAVY R. STEIMER CRWQCB - OAKLAND S. RITCHIE	NAVY LETTER REGARDING RESCHEDULING OF SOLID WASTE ASSESSMENT TEST (SWAT) AT WEST BEACH LANDFILL AND 1943-1956 LANDFILL	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_007	181-03-0179 41074200	BOX 0015

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000791 NONE REPORT NONE 54	11-24-1999 **12-01-1990** NONE 00.0	CANONIE	REVISED PHASE 1 ANALYTICAL RESULTS FOR SITES 1, 2, AND 13: 1943-1956 DISPOSAL AREA, WEST BEACH LANDFILL AND OIL REFINERY SITE RI/FS VOL 1 (ENCLOSURE 1)	REFERENCE	013 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0018
N00236 / 000792 NONE REPORT NONE 4	11-24-1999 **12-01-1990** NONE 00.0	CANONIE	REVISED PHASE 1 ANALYTICAL RESULTS FOR SITES 1, 2, AND 13: 1943-1956 DISPOSAL AREA, WEST BEACH LANDFILL AND OIL REFINERY SITE RI/FS VOL 2 (ENCLOSURE 2)	REFERENCE	013 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0019
N00236 / 000790 NONE REPORT N62474-85-D-5620 178	11-24-1999 **01-02-1991** NONE 00.0	CANONIE ENVIRONMENTAL NAVFAC - EFA WEST	AIR QUALITY SOLID WASTE ASSESSMENT TEST (SWAT) REPORT [SEE AR # 541 - EFAW TRANSMITTAL LETTER]	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_011	181-03-0179 41074200	BOX 0018
N00236 / 000881 NONE REPORT N62474-88-D-5086 76	11-24-1999 **01-24-1991** NONE 00.0	PRC ENVIRONMENTAL MANAGEMENT, INC. J. JOHNSON NAVFAC - EFA WEST B. DIZON	WELL DECOMMISSIONING PLAN: 1943-1956 DISPOSAL AREA AND WEST BEACH LANDFILL (SEE AR #542 - EFA WEST TRANSMITTAL LETTER BY R. SERAYDARIAN)	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_024	181-03-0179 41074200	BOX 0027
N00236 / 000544 NONE CORRESPONDENC NONE 2	11-24-1999 **02-08-1991** NONE 00.0	DHS - BERKELEY M MALINOWSKI NAVFAC - EFA WEST L. WILLIAMS	COMMENTS ON THE WELL DECOMMISSIONING PLAN: 1943-1956 DISPOSAL AREA AND WEST BEACH LANDFILL	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_011	181-03-0179 41074200	BOX 0016

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N00236 / 000513 NONE REPORT NONE 80	11-24-1999 **03-12-1991** NONE 00.0	PRC ENVIRONMENTAL MANAGEMENT, INC. J. JOHNSON NAVFAC - EFA WEST B. DIZON	FINAL WELL DECOMMISSIONING PLAN: 1943-1956 DISPOSAL AREA AND WEST BEACH LANDFILL [SEE AR #514 - EFAW TRANSMITTAL LETTER BY R. SERAYDARIAN]	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_024	181-03-0179 41074200	BOX 0015
N00236 / 000582 NONE REPORT N62474-88-D-5086 44	11-24-1999 **01-23-1992** 00095 00.0	PRC ENVIRONMENTAL MGMT INC. S. MACNEILL NAVFAC - EFA WEST W. WONG	WELL DECOMMISSIONING REPORT 1943-1956 DISPOSAL AREA AND WEST BEACH LANDFILL (SEE AR #599 - ADDENDUM 1)	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_011	181-03-0179 41074200	BOX 0016
N00236 / 000828 NONE REPORT NONE 54	11-24-1999 **06-01-1992** NONE 00.0	CANONIE	REVISED PHASE 1 AND 2A ANALYTICAL RESULTS FOR SITES 1 AND 2, 1943-1956 DISPOSAL AREA WEST BEACH LANDFILL RI/FS - VOLUME 1	REFERENCE	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0022
N00236 / 000829 NONE REPORT NONE 4	11-24-1999 **06-01-1992** NONE 00.0	CANONIE	REVISED PHASE 1 AND 2A ANALYTICAL RESULTS FOR SITES 1 AND 2, 1943-1956 DISPOSAL AREA WEST BEACH LANDFILL RI/FS - VOLUME 2	REFERENCE	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0022

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N00236 / 000643 TC.A021.10075 MM N68711-00-D-0005 8	06-13-2003 **02-02-1993** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	02 FEBRUARY 1993 MEETING MINUTES FOR THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)	ADMIN RECORD INFO REPOSITORY	007A 015 018 PHASE 1 PHASE 2A PHASE 2B PHASE 3 PHASE 5 PHASE 6 SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0013
N00236 / 000644 TC.A021.10075 MM N68711-00-D-0005 5	06-13-2003 **02-19-1993** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	19 FEBRUARY 1993 MONTHLY PROGRESS REVIEW COMMITTEE MEETING MINUTES FOR THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)	ADMIN RECORD INFO REPOSITORY	007A 015 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0013
N00236 / 000646 TC.A021.10075 MM N68711-00-D-0005 4	06-13-2003 **04-02-1993** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	02 APRIL 1993 MONTHLY PROGRESS REVIEW MEETING MINUTES FOR THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)	ADMIN RECORD INFO REPOSITORY	007A 007B 009 011 017 PHASE 1 PHASE 2A PHASE 2B PHASE 3 PHASE 5 PHASE 6 SITE 00001 SITE 00002 SITE 00004	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0013

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 001003 NONE REPORT N62474-88-D-5086 123	11-24-1999 **04-02-1993** 00107 00.0	PRC ENVIRONMENTAL MGMT INC. NAVFAC - EFA WEST	DRAFT FIELD SAMPLING PLAN (FSP) FOR FOLLOW-ON WORK REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) PHASES 5 AND 6 - LANDFILL INVESTIGATION (INCLUDES 10 SEPTEMBER 1993 MEETING MINUTES REGARDING RWQCB'S COMMENTS AND RWQCB'S COMMENTS DATED 12 AUGUST 1993)	ADMIN RECORD	PHASE 5 PHASE 6 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_002	181-03-0179 41074200	BOX 0029
N00236 / 000858 NONE REPORT N62474-88-D-5086 303	11-24-1999 **09-29-1993** 00107 00.0	PRC ENVIRONMENTAL MGMT INC. NAVFAC - EFA WEST	DRAFT FINAL REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORK PLAN ADDENDUM (INCLUDES COMMENTS ON DRAFT RI/FS WORK PLAN ADDENDUM BY R. HOUGH {COMMUNITY ADVISOR COMMITTEE}) [MISSING APPENDIX F] {PORTION OF THE COMMENTS IS SENSITIVE} (***SEE COMMENTS)	ADMIN RECORD INFO REPOSITORY SENSITIVE	005 006 007A 007B 007C 008 009 010A 010B 011 012 013 014 015 016 017 018 019 020 SITE 00001 SITE 00002 SITE 00003 SITE 00004	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0027

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000666 TC.A021.10075 MM N68711-00-D-0005 6	06-16-2003 **03-14-1995** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	14 MARCH 1995 PROGRESS REVIEW MEETING MINUTES	ADMIN RECORD INFO REPOSITORY	005 007A 007C 010A 012 013 014 015 018 SITE 00001 SITE 00002 SITE 00003 SITE 00004	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0013
N00236 / 001213 EFAW SER 1831.2/5160 CORRESPONDENC NONE 5	11-24-1999 **07-11-1995** NONE 00.0	NAVFAC - EFA WEST G. KIKUGAWA DISTRIBUTION	SUBMISSION OF DOCUMENT SUMMARY FOR DRAFT DATA TRANSMITTAL MEMORANDUM FOR INSTALLATION RESTORATION SITES 1, 2, 3, RUNWAY AREA, 6 , 7A, 7B, 7C, 10B, 11, 13, 15, 16, AND 19 (W/ ENCLOSURE)	ADMIN RECORD	006 007 010 011 013 015 016 019 SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_007	181-03-0179 41074200	BOX 0032

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N00236 / 001216 EFAW SER NO. 1831.2/5159 CORRESPONDENC NONE 6	11-24-1999 **07-14-1995** NONE 00.0	NAVFAC - EFA WEST G. KIKUGAWA VARIOUS AGENCIES	TRANSMITTAL OF 1) DOCUMENT SUMMARY FOR DRAFT DATA TRANSMITTAL MEMORANDUM, AND 2) DRAFT DATA TRANSMITTAL MEMORANDUM (W/ ENCLOSURE 1) [SEE AR #1214 AND AR #1215 - FINAL DATA TRANSMITTAL MEMORANDUM, VOLUMES 1 AND 2 OF 2]	ADMIN RECORD	006 007A 007B 007C 010B 011 013 015 016 019 SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_022	181-03-0179 41074200	BOX 0033
N00236 / 001284 EFAW SER 18312GK/L6153 CORRESPONDENC N62474-88-D-5086 3	11-24-1999 **04-24-1996** 00280 00.0	NAVFAC - EFA WEST G. KIKUGAWA VARIOUS AGENCIES	TRANSMITTAL OF REPLACEMENT PAGES CONVERTING DRAFT DATED 11 JULY 1995 TO FINAL REMEDIAL INVETIGATION/FEASIBILITY STUDY DATA TRANSMITTAL MEMORANDUM (W/OUT ENCLOUSURE) {REPLACEMENT PAGES INSERTED IN THE DOCUMENT}	INFO REPOSITORY	006 007 009 011 013 015 016 019 021 022 023 SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0034

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N00236 / 001214 NONE REPORT N62474-88-D-5086 398	11-24-1999 **05-01-1996** 00280 00.0	PRC ENVIRONMENTAL MANAGEMENT, INC. BALCH, D. NAVFAC - EFA WEST G. MUNEKAWA	FINAL REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS); DATA TRANSMITTAL MEMORANDUM, VOL 1 OF 2 (INCLUDES REPLACEMENT PAGES CONVERTING THE DRAFT DATED 7/11/95 TO FINAL)	ADMIN RECORD	006 007 010 011 013 015 016 019 SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0033
N00236 / 001215 NONE REPORT N62474-88-D-5086 849	11-24-1999 **05-01-1996** 00280 00.0	PRC ENVIRONMENTAL MGMT INC. BALCH, D. NAVFAC - EFA WEST G. MUNEKAWA	FINAL REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS); DATA TRANSMITTAL MEMORANDUM, VOL 2 OF 2 (INCLUDES REPLACEMENT PAGES CONVERTING DRAFT DATED 7/11/95 TO FINAL)	ADMIN RECORD	006 007 010 011 013 015 016 019 SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0033
N00236 / 000672 TC.A021.10075 MM N68711-00-D-0005 5	06-16-2003 **05-21-1996** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	21 MAY 1996 MONTHLY TRACKING MEETING MINUTES FOR ENVIRONMENTAL ACTIONS	ADMIN RECORD INFO REPOSITORY	015 016 018 OU 1 OU 2 OU 3 OU 4 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0013

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 001298 EFAW SER 18312GK/L6219 RESP NONE 2	11-24-1999 **05-21-1996** NONE 00.0	NAVFAC - EFA WEST G. KIKUGAWA DTSC - BERKELEY T. LANPHAR	RESPONSE TO COMMENTS ON THE PRELIMINARY DRAFT ADDENDUM TO THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), RADIATION SURVEY REPORT	ADMIN RECORD	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0035
N00236 / 001307 NONE REPORT N62474-88-D-5086 115	11-24-1999 **06-01-1996** 00280 00.0	PRC ENVIRONMENTAL MANAGEMENT, INC. R. HALKET NAVFAC - EFA WEST G. KIKUGAWA	DRAFT ADDENDUM TO THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), DATA TRANSMITTAL MEMORANDUM, RADIATION SURVEY REPORT {SEE AR #1306 - EFAW TRANSMITTAL LETTER BY G. KIKUGAWA, AR #1214 - AND AR #1215 - FINAL RI/FS DATA TRANSM. MEMORANDUM, VOL 1 & 2}	ADMIN RECORD	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0035
N00236 / 001306 EFAW SER 1831.2GK/L6297 CORRESPONDENC N62474-88-D-5086 3	11-24-1999 **07-11-1996** 00280 00.0	NAVFAC - EFA WEST G. KIKUGAWA VARIOUS AGENCIES	TRANSMITTAL OF DRAFT ADDENDUM TO THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), DATA TRANSMITTAL MEMORANDUM, RADIATION SURVEY REPORT (W/OUT ENCLOSURE) [SEE AR #1307 - DRAFT ADDENDUM]	ADMIN RECORD	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0035
N00236 / 001467 EFAW SER 1831.4/L6307 REPORT NONE 37	11-24-1999 **07-16-1996** NONE 00.0	EINARSON, FOWLER & WATSON M. EINARSON DISTRIBUTION	WORK PLAN (WP) FOR HYDROGEOLOGIC INVESTIGATION, SITE 1 (INCLUDES EFAW TRANSMITTAL LETTER BY K. SPIELMAN)	ADMIN RECORD	SITE 00001	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0038

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N00236 / 000674 TC.A021.10075 MM N68711-00-D-0005 11	06-16-2003 **08-20-1996** DO 0021	TETRA TECH EM INC. NAVFAC - EFA WEST	20 AUGUST 1996 MONTHLY TRACKING MEETING MINUTES FOR ENVIRONMENTAL ACTIONS (INCLUDES ATTENDANCE LIST AND AGENDA) [MISSING ATTACHMENT C]	ADMIN RECORD INFO REPOSITORY	005 007 007A 007C 010 010A 014 015 016 018 022 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0013
N00236 / 001329 NONE CORRESPONDENC NONE 5	11-24-1999 **08-23-1996** NONE 00.0	DTSC LANPHAR, T. NAVY GARIBALDI, C.	COMMENTS ON THE RADIATION SURVEY AND FIELD SAMPLING WORK PLAN (WP), AND DATA TRANSMITTAL MEMORANDUM, SITES 1 AND 2 RADIATION SURVEY REPORT	ADMIN RECORD	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_008	181-03-0179 41074200	BOX 0035
N00236 / 000680 TC.A021.10075 MM N68711-00-D-0005 7	06-16-2003 **10-15-1996** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	15 OCTOBER 1996 MONTHLY TRACKING MEETING MINUTES FOR ENVIRONMENTAL ACTIONS (INCLUDES ATTENDANCE LIST AND AGENDA)	ADMIN RECORD INFO REPOSITORY	005 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0014
N00236 / 001342 NONE CORRESPONDENC NONE 5	11-24-1999 **11-15-1996** NONE 00.0	US EPA - SAN FRANCISCO J. RICKS NAVFAC - EFA WEST C. GARIBALDI	COMMENTS ON DRAFT RADIATION SURVEY REPORT, ADDENDUM TO THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY DATA TRANSMITTAL MEMO, AND DRAFT FINAL RADIATION SURVEY FIELD SAMPLING WORK PLAN	ADMIN RECORD	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_022	181-03-0179 41074200	BOX 0036

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N00236 / 001393 NONE REPORT NONE 483	11-24-1999 **12-01-1996** NONE 00.0	UNIVERSITY OF WATERLOO NAVFAC - EFA WEST	REVISED WORK PLAN FOR THE SEMI-PASSIVE GROUNDWATER REMEDIATION DEMONSTRATION PROJECT AT SITE 1	ADMIN RECORD	SITE 00001	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0036
N00236 / 001368 EFAW SER 02/02E/00831 CORRESPONDENC NONE 8	11-24-1999 **12-09-1996** NONE 00.0	RADIOLOGICAL AFFAIRS SUPP OFFI FARRAND, D. NAVFAC - EFA WEST G. KIKUGAWA	SUBMISSION OF DATA, ANOMALY NO. 23 IN SITE 1 (W/ ENCLOSURE)	ADMIN RECORD	SITE 00001	FRC - PERRIS IMAGED APNT_007	181-03-0179 41074200	BOX 0036
N00236 / 000681 TC.A021.10075 MM N68711-00-D-0005 16	06-16-2003 **12-17-1996** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	17 DECEMBER 1996 MONTHLY TRACKING MEETING MINUTES FOR ENVIRONMENTAL ACTIONS (INCLUDES ATTENDANCE LIST, AGENDA AND PROJECT STATUS AND UPDATE SHEETS)	ADMIN RECORD INFO REPOSITORY	005 007 012 014 016 022 OU 4 SITE 00001 SITE 00003	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0014
N00236 / 001374 NONE REPORT N62474-88-D-5086 116	11-24-1999 **02-01-1997** 00280 00.0	PRC ENVIRONMENTAL MGMT INC. N. HUTCHISON NAVFAC - EFA WEST G. KIKUGAWA	FINAL ADDENDUM TO THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) DATA TRANSMITTAL MEMORANDUM, RADIATION SURVEY REPORT [SEE AR #1373 AND AR #1403 - EFAW TRANSMITTAL LETTERS BY G. KIKUGAWA,	ADMIN RECORD	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0036
N00236 / 001373 EFAW SER 1831.2GK/L7103 CORRESPONDENC N62474-88-D-5086 2	11-24-1999 **02-14-1997** 00280 00.0	NAVFAC - EFA WEST G. KIKUGAWA VARIOUS AGENCIES	TRANSMITTAL OF FINAL ADDENDUM TO THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) DATA TRANSMITTAL MEMORANDUM, SITE 1 AND SITE 2 RADIATION SURVEY REPORT (W/OUT ENCLOSURE) [SEE AR #1374 - FINAL ADDENDUM]	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0036

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N00236 / 000687 TC.A021.10075 MM N68711-00-D-0005 10	06-16-2003 **07-29-1997** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	29 JULY 1997 MONTHLY TRACKING MEETING MINUTES FOR ENVIRONMENTAL ACTIONS (INCLUDES AGENDA) [MISSING ATTACHMENT B]	ADMIN RECORD INFO REPOSITORY	005 014 015 016 024 OU 2 OU 3 SITE 00001 SITE 00002 SITE 00004	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0014
N00236 / 000689 TC.A021.10075 MM N68711-00-D-0005 13	06-16-2003 **09-16-1997** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	16 SEPTEMBER 1997 MONTHLY TRACKING MEETING MINUTES FOR ENVIRONMENTAL ACTIONS (INCLUDES AGENDA) [MISSING ATTACHMENT B]	ADMIN RECORD INFO REPOSITORY	005 007 011 012 014 015 022 OU 2 SITE 00001 SITE 00003 SITE 00004	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0014
N00236 / 001458 EFAW SER 612.4/L8001 CORRESPONDENC NONE 5	11-24-1999 **10-02-1997** NONE 00.0	NAVFAC - EFA WEST GARIBALDI, C. DTSC - BERKELEY T. LANPHAR	REQUEST FOR IDENTIFICATION OF STATE APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) FOR REMOVAL ACTIONS (RM) AT SITES 1, 2, 5, AND 10	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0038
N00236 / 001453 4545-0147-R-S-001-C REPORT N62474-94-D-7609 54	11-24-1999 **11-01-1997** 00147 00.0	TETRA TECH EM INC. NAVFAC - EFA WEST G. KIKUGAWA	RADIOLOGICAL REMOVAL ACTION, DRAFT TECHNICAL WORK DOCUMENT/PRELIMINARY DRAFT REMOVAL ACTION PLAN [SEE AR #1452 - EFA WEST TRANSMITTAL LETTER BY G. KIKUGAWA]	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0038

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N00236 / 001454 NONE REPORT N62474-94-D-7609 11	11-24-1999 **11-01-1997** 00147 00.0	TETRA TECH HUTCHISON, N. NAVY KIKUGAWA, G.	DRAFT REMOVAL SITE EVALUATION FOR REMOVAL ACTION (RM) AT INSTALLATION RESTORATION (IR) SITES 1, 2, 5, AND 10	REMOVED	005 010 SITE 00001 SITE 00002	NAVFAC SOUTHWEST - BLDG. 1		
N00236 / 001452 EFAW SER 612.4GK/L8014 CORRESPONDENC N62474-94-D-7609 3	11-24-1999 **11-05-1997** 00147 00.0	NAVFAC - EFA WEST KIKUGAWA, G. VARIOUS AGENCIES	TRANSMITTAL OF 1) RADIOLOGICAL REMOVAL ACTION, DRAFT TECHNICAL WORK DOCUMENT/PRELIMINARY DRAFT REMOVAL ACTION PLAN AND 2) RADIOLOGICAL REMOVAL ACTION, DRAFT REMOVAL SITE EVALUATION (W/OUT ENCLOSURES) [SEE AR #1453 - ENCLOSURE 1] {***SEE COMMENTS}	ADMIN RECORD	SITE 00001 SITE 00002 SITE 00005 SITE 00010	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0038
N00236 / 000691 TC.A021.10075 MM N68711-00-D-0005 13	06-16-2003 **12-09-1997** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	09 DECEMBER 1997 TRACKING MEETING MINUTES FOR ENVIRONMENTAL ACTIONS (INCLUDES AGENDA) [MISSING ATTACHMENT B]	ADMIN RECORD INFO REPOSITORY	005 010 014 SITE 00001 SITE 00002 SITE 00004	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0014
N00236 / 001476 NONE CORRESPONDENC NONE 5	11-24-1999 **01-13-1998** NONE 00.0	DTSC - BERKELEY M. CASSA NAVFAC - EFA WEST G. KIKUGAWA	COMMENTS ON THE WORK PLAN FOR LANDFILL 1 AND 2 (INSTALLATION RESTORATION SITES 1 AND 2) RADIOLOGICAL SURVEYS, SAMPLING AND REMEDIATION; AND WORK PLAN FOR BUILDING 5 AND 400 CONTAMINATED DRAIN PIPING REMOVAL	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0038
N00236 / 001477 NONE CORRESPONDENC NONE 14	11-24-1999 **01-15-1998** NONE 00.0	DTSC - BERKELEY M. CASSA NAVFAC - EFA WEST G. KIKUGAWA	COMMENTS ON THE RADIOLOGICAL REMOVAL ACTION, DRAFT TECHNICAL WORK DOCUMENT/PRELIMINARY DRAFT REMOVAL ACTION PLAN (INCLUDES APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS FOR REMEDIATION OF RADIUM-226 CONTAMINATION)	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0038

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N00236 / 000693 TC.A021.10075 MM N68711-00-D-0005 11	06-16-2003 **01-20-1998** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	20 JANUARY 1998 TRACKING MEETING MINUTES FOR ENVIRONMENTAL ACTIONS (MISSING ATTACHMENT A AND ATTACHMENT B)	ADMIN RECORD INFO REPOSITORY	005 010 014 SITE 00001 SITE 00002 SITE 00004	FRC - PERRIS IMAGED APNT_019	181-03-0188 41031858	BOX 0014
N00236 / 001478 NONE CORRESPONDENC NONE 9	11-24-1999 **01-30-1998** NONE 00.0	DTSC - BERKELEY M. CASSA NAVFAC - EFA WEST G. KIKUGAWA	CORRECTIONS TO THE APPLICABLE OR RELEVANT AND APPROPRIATE (ARARS) FOR REMEDIATION OF RADIUM - 226 CONTAMINATION	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0038
N00236 / 000694 TC.A021.10075 MM N68711-00-D-0005 12	06-16-2003 **02-17-1998** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	17 FEBRUARY 1998 TRACKING MEETING MINUTES FOR ENVIRONMENTAL ACTIONS (MISSING ATTACHMENT A AND ATTACHMENT B)	ADMIN RECORD INFO REPOSITORY	005 010 OU 1 OU 2 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_019	181-03-0188 41031858	BOX 0014
N00236 / 001496 NONE REPORT N62474-94-D-7609 114	11-24-1999 **03-01-1998** 00147 00.0	MORRISON KNUDSEN CORPORATION MUELLERLEILE, A. NAVFAC - EFA WEST G. KIKUGAWA	DRAFT INSTALLATION RESTORATION (IR) SITES 1, 2, 5, AND 10, AND STORM DRAIN LINE F, RADIOLOGICAL REMOVAL ACTION TECHNICAL SPECIFICATIONS FOR IMPLEMENTATION WORK PLAN (SEE AR #1495 - EFA WEST TRANSMITTAL LETTER BY G. KIKUGAWA)	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0039
N00236 / 001497 NONE REPORT N62474-94-D-7609 9	11-24-1999 **03-01-1998** 00147 00.0	MORRISON KNUDSEN CORPORATION NAVFAC - EFA WEST G. KIKUGAWA	DRAFT INSTALLATION RESTORATION (IR) SITES 1, 2, 5, AND 10, AND STORM DRAIN LINE F, RADIOLOGICAL REMOVAL ACTION (RM) PLANS' DRAWINGS (SEE AR #1495 - EFA WEST TRANSMITTAL LETTER BY G. KIKUGAWA)	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0039

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N00236 / 001495 EFAW SER 612.4GK/L8102 CORRESPONDENC N62474-94-D-7609 4	11-24-1999 **03-25-1998** 00147 00.0	NAVFAC - EFA WEST G. KIKUGAWA DISTRIBUTION	SUBMISSION OF THE DRAFT INSTALLATION RESTORATION (IR) SITES 1, 2, 5, AND 10, AND STORM DRAIN LINE F, RADIOLOGICAL REMOVAL ACTION - TECHNICAL SPECIFICATIONS FOR IMPLEMENTATION WORK PLAN AND DRAWINGS (W/OUT ENCLOSURES) [***SEE COMMENTS]	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0039
N00236 / 001498 NONE CORRESPONDENC NONE 7	11-24-1999 **03-31-1998** NONE 00.0	DTSC - BERKELEY M. CASSA NAVFAC - EFA WEST G. KIKUGAWA	COMMENTS ON VARIOUS DOCUMENTS FOR INSTALLATION RESTORATION (IR) SITES (INCLUDES TABLE OF DOCUMENTS REVIEWED BY AGENCIES)	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0039
N00236 / 001500 EFAW SER 612.4/L8110 RESPONSE NONE 7	11-24-1999 **04-07-1998** NONE 00.0	NAVFAC - EFA WEST G. KIKUGAWA DTSC - BERKELEY M. CASSA	RESPONSE TO COMMENTS ON THE WORK PLAN (WP) FOR LANDFILL 1 AND 2 (SITES 1 AND 2) RADIOLOGICAL SURVEYS, SAMPLING AND REMEDIATION; AND WORK PLAN FOR BUILDINGS 5 AND 400 CONTAMINATED DRAIN PIPING REMOVAL	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0039
N00236 / 001499 NONE CORRESPONDENC NONE 3	11-24-1999 **04-08-1998** NONE 00.0	USEPA - SAN FRANCISCO COOK, A. NAVFAC - EFA WEST G. KIKUGAWA	COMMENTS ON THE RADIOLOGICAL REMOVAL ACTION FOR INSTALLATION RESTORATION (IR) SITES 1, 2, 5 AND 10, TECHNICAL WORK DOCUMENT/DRAFT REMEDIAL ACTION PLAN	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0039
N00236 / 001503 WP NO. NASA-2 REPORT NONE 57	11-24-1999 **04-10-1998** NONE 00.0	SUPERVISOR SHIPBUILDING PORTSMOUTH ENVIRONMENTAL DETACHMENT NAVFAC - EFA WEST	DRAFT FINAL WORK PLAN (WP) LANDFILL 1 AND 2, RADIOLOGICAL SURVEYS AND ANOMALY REMOVAL, REVISION 1 [SEE AR #1501 - EFA WEST TRANSMITTAL LETTER BY G. KIKUGAWA AND AR #1538 - FINAL WORK PLAN, REVISION 2] {***SEE COMMENTS}	ADMIN RECORD	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0039

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N00236 / 001501 EFAW SER 612.4/L8119 CORRESPONDENC NONE 3	11-24-1999 **04-22-1998** NONE 00.0	NAVFAC - EFA WEST G. KIKUGAWA VARIOUS AGENCIES	TRANSMITTAL OF 1) DRAFT FINAL WORK PLAN FOR LANDFILLS 1 AND 2 RADIOLOGICAL SURVEYS AND ANOMALY REMOVAL AND 2) DRAFT FINAL WORK PLAN FOR CONTAMINATED DRAIN/PIPING/WALL/FLOOR REMOVAL (W/OUT ENCLOSURES) [SEE AR #1503 - ENCLOSURE 1 & AR #1537 - ENCLOSURE 2]	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0039
N00236 / 001531 NONE REPORT N62474-94-D-7609 8	11-24-1999 **05-01-1998** 00147 00.0	TETRA TECH EM INC. E. HO NAVFAC - EFA WEST G. KIKUGAWA	FINAL REMOVAL SITE EVALUATION FOR REMOVAL ACTIONS (RM) [SEE AR #1452 - EFA WEST TRANSMITTAL LETTER BY G. KIKUGAWA] {***SEE COMMENTS}	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0039
N00236 / 001510 NONE CORRESPONDENC NONE 2	11-24-1999 **05-12-1998** NONE 00.0	DTSC - BERKELEY MURPHY, D. NAVFAC - EFA WEST G. KIKUGAWA	REQUIREMENTS FOR DISCHARGE OF GROUNDWATER TO SAN FRANCISCO BAY	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0039
N00236 / 001524 EFA WEST SER 612.4/L8135 RESPONSE NONE 11	11-24-1999 **05-12-1998** NONE 00.0	NAVFAC - EFA WEST G. KIKUGAWA USEPA - SAN FRANCISCO A. COOK	SUBMISSION OF RESPONSE TO COMMENTS ON THE RADIOLOGICAL REMOVAL ACTION FOR INSTALLATION RESTORATION (IR) SITES 1, 2, 5, AND 10, TECHNICAL WORK DOCUMENT/DRAFT REMEDIAL ACTION PLAN (W/ ENCLOSURES)	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0039
N00236 / 001515 EFAW SER 612.4/L8138 RESP NONE 9	11-24-1999 **05-13-1998** NONE 00.0	NAVFAC - EFA WEST G. KIKUGAWA DTSC - BERKELEY M. CASSA	RESPONSES TO COMMENTS ON THE RADIOLOGICAL REMOVAL ACTION WORK DOCUMENT/DRAFT REMEDIAL ACTION PLAN (INCLUDES RESPONSE TO APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS FOR REMEDIATION OF RADIUM-226 CONTAMINATION)	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0039

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N00236 / 001525 EFAW SER 612.4/L8143 CORRESPONDENC NONE 5	11-24-1999 **05-15-1998** NONE 00.0	NAVFAC - EFA WEST H. GEE DTSC - BERKELEY D. MURPHY	APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) FOR DISCHARGE OF GROUNDWATER TO SAN FRANCISCO BAY FOR REMOVAL ACTIONS (RM) AT SITE 1, 2, 5, AND 10	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0039
N00236 / 001520 NONE CORRESPONDENC NONE 14	11-24-1999 **05-18-1998** NONE 00.0	DTSC - BERKELEY M. CASSA NAVFAC - EFA WEST G. KIKUGAWA	COMMENTS ON THE WORK PLAN DRAFT FINAL, CONTAMINATED DRAIN PIPING REMOVAL AND WORK PLAN DRAFT FINAL, RADIOLOGICAL SURVEYS AND ANOMALY REMOVAL, REVISION 1(INCLUDES CHECKLISTS USEFUL IN QUALITY ASSURANCE REVIEW) {CHECKLIST IN APPENDIX C IS AN EXCERPT}	ADMIN RECORD	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0039
N00236 / 001521 NONE CORRESPONDENC NONE 4	11-24-1999 **05-27-1998** NONE 00.0	DTSC - BERKELEY M. CASSA NAVFAC - EFA WEST G. KIKUGAWA	COMMENTS ON THE DRAFT FINAL TECHNICAL WORK DOCUMENT/DRAFT INTERIM REMEDIAL ACTION (IRA) PLAN FOR INSTALLATION RESTORATION SITES 1, 2, 5, AND 10 RADIOLOGICAL REMOVAL	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0039
N00236 / 001538 WP NO. NASA - 2 REPORT NONE 60	11-24-1999 **06-05-1998** NONE 00.0	SUPERVISOR SHIPBUILDING PORTSMOUTH ENVIRONMENTAL DETACHMENT NAVFAC - EFA WEST G. KIKUGAWA	FINAL WORK PLAN (WP) FOR LANDFILL 1 AND 2 RADIOLOGICAL SURVEYS AND ANOMALY REMOVAL, REVISION 2 [SEE AR #1501 AND AR #1536 - EFA WEST TRANSMITTAL LETTERS BY G. KIKUGAWA AND AR #1503 - DRAFT FINAL WORK PLAN, REVISION 1] {*** SEE COMMENTS}	ADMIN RECORD	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0040
N00236 / 001528 NONE CORRESPONDENC NONE 8	11-24-1999 **06-22-1998** NONE 00.0	DTSC - BERKELEY M. CASSA NAVFAC - EFA WEST G. KIKUGAWA	COMMENTS ON THE RADIOLOGICAL REMOVAL ACTION (RM) REVISIONS TO TECHNICAL WORK DOCUMENT/REMEDIAL ACTION (RA) PLAN (PORTION OF THE MAILING LIST IS SENSITIVE) [INCLUDES EPA LETTER DATED 09 JUNE 1998 ON CRWQCB REQUIREMENTS FOR WATER DISCHARGE]	ADMIN RECORD SENSITIVE	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0039

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N00236 / 001529 NONE CORRESPONDENC NONE 10	11-24-1999 **06-22-1998** NONE 00.0	DTSC - BERKELEY M. CASSA NAVFAC - EFA WEST G. KIKUGAWA	COMMENTS ON RADIOLOGICAL REMOVAL ACTION (RM) SITE QUALITY ASSURANCE PLAN (QAP), SITE WORK PLAN (WP), AND SITE HEALTH AND SAFETY PLAN (SHSP) (INCLUDES COMMENTS BY HERD DATED 06/17/98)	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_022	181-03-0179 41074200	BOX 0039
N00236 / 001536 EFAW SER 612.4/L8173 CORRESPONDENC NONE 3	11-24-1999 **07-01-1998** NONE 00.0	NAVFAC - EFA WEST G. KIKUGAWA VARIOUS AGENCIES	TRANSMITTAL OF 1) FINAL WORK PLAN (WP) FOR BUILDINGS 5 AND 400 RADIOACTIVELY CONTAMINATED DRAIN PIPING/WALL/FLOOR REMOVAL, REVISION 2 AND 2) FINAL WORK PLAN FOR LANDFILL 1 AND 2, RADIOLOGICAL SURVEYS AND ANOMALY REMOVAL (W/OUT ENCLOSURES) {**SEE COMMENTS}	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0040
N00236 / 001532 NONE REPORT N62474-94-D-7609 114	11-24-1999 **07-08-1998** 00147 00.0	TETRA TECH EM INC. P. SOLBERG NAVFAC - EFA WEST G. KIKUGAWA	INSTALLATION RESTORATION (IR) SITES 1, 2, 5, AND 10; RADIOLOGICAL REMOVAL ACTION (RM) FINAL TECHNICAL WORK DOCUMENT/INTERIM REMEDIAL ACTION (IRA) PLAN (PORTIONS OF SECTION 5 - COST ESTIMATE ARE CONFIDENTIAL)	ADMIN RECORD SENSITIVE	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0039
N00236 / 001567 NONE CORRESPONDENC N62474-94-D-7609 113	11-24-1999 **08-01-1998** 00147 00.0	TETRA TECH NAVFAC - EFA WEST G. KIKUGAWA	FINAL RADIOLOGICAL REMOVAL ACTION (RM) FOR IR SITES 1, 2, 5, 10, AND STORM DRAIN LINE F, IMPLEMENTATION WORK PLAN (WP) TECHNICAL SPECIFICATIONS (SEE AR #1566 - EFA WEST TRANSMITTAL LETTER BY G. KIKUGAWA)	ADMIN RECORD	005 010 017 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0040
N00236 / 001568 NONE REPORT N62474-94-D-7609 9	11-24-1999 **08-01-1998** 00147 00.0	TETRA TECH EM INC. NAVFAC - EFA WEST G. KIKUGAWA	FINAL RADIOLOGICAL REMOVAL ACTION (RM) FOR IR SITES 1, 2, 5, 10, AND STORM DRAIN LINE F, IMPLEMENTATION WORK PLAN (WP) DRAWINGS (SEE AR #1566 - EFA WEST TRANSMITTAL LETTER BY G. KIKUGAWA)	ADMIN RECORD	005 010 017 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0040

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N00236 / 000701 TC.A021.10075 MM N68711-00-D-0005 53	06-16-2003 **08-18-1998** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	18 AUGUST 1998 TRACKING MEETING MINUTES FOR ENVIRONMENTAL ACTIONS (INCLUDES AGENDA, ATTENDANCE SHEETS, AND VARIOUS HANDOUTS)	ADMIN RECORD INFO REPOSITORY	005 010 016 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0014
N00236 / 001566 EFAW SER 612.4GK/L8220 CORRESPONDENC N62474-94-D-7609 3	11-24-1999 **08-27-1998** NONE 00.0	NAVFAC - EFA WEST G. KIKUGAWA DISTRIBUTION	SUBMISSION OF THE FINAL RADIOLOGICAL REMOVAL ACTION (RM) FOR IR SITES 1, 2, 5, 10, AND STORM DRAIN LINE F, IMPLEMENTATION WORK PLAN (1) TECHNICAL SPECIFICATIONS AND (2) DRAWINGS (W/OUT ENCLOSURE) ***SEE COMMENTS	ADMIN RECORD	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0040
N00236 / 001548 NONE REPORT N62474-94-D-7609 110	11-24-1999 **08-28-1998** 00147 00.0	TETRA TECH EM INC. NAVFAC - EFA WEST G. KIKUGAWA	FINAL RADIOLOGICAL REMOVAL ACTION, ACTION MEMORANDUM/INTERIM REMEDIAL ACTION PLAN (PORTION OF ESTIMATED COST SECTIONS ARE CONFIDENTIAL)	ADMIN RECORD SENSITIVE	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0040
N00236 / 001575 NONE REPORT NONE 17	11-24-1999 **12-04-1998** NONE 00.0	SUPERVISOR OF SHIPBUILDING, CONVERSTION AND REPAIR ENVIRONMENTAL DETACHMENT L. MAGGINI NAVFAC - EFA WEST G. KIKUGAWA	UNEXPLODED ORDNANCE (UXO) EMERGENCY REMOVAL ACTION SUMMARY REPORT (SEE AR #1574 - EFAW TRANSMITTAL LETTER BY G. KIKUGAWA)	ADMIN RECORD	SITE 00001	FRC - PERRIS IMAGED APNT_022	181-03-0179 41074200	BOX 0041

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 001573 NONE REPORT N62474-94-D-7609 838	11-24-1999 **12-07-1998** 00108 00.0	TETRA TECH EM INC. M. UDELL NAVFAC - EFA WEST P. MCFADDEN	DATA SUMMARY REPORT FOR QUARTERLY GROUNDWATER MONITORING, NOVEMBER 1997 - AUGUST 1998 [SEE AR #1533 - EFAW TRANSMITTAL LETTER BY P. MCFADDEN] {***SEE COMMENTS}	ADMIN RECORD	005 006 007 009 011 012 013 014 016 022 023 SITE 00001 SITE 00002 SITE 00003 SITE 00004	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0040
N00236 / 001574 EFAW SER 612.4/L9005 CORRESPONDENC NONE 2	11-24-1999 **12-16-1998** NONE 00.0	NAVFAC - EFA WEST G. KIKUGAWA, VARIOUS AGENCIES	TRANSMITTAL OF UNEXPLODED ORDNANCE (UXO) EMERGENCY REMOVAL ACTION SUMMARY REPORT (W/OUT ENCLOSURE) [SEE AR #1575 - SUMMARY REPORT]	ADMIN RECORD	SITE 00001	FRC - PERRIS IMAGED APNT_022	181-03-0179 41074200	BOX 0041
N00236 / 001662 NONE MM NONE 32	11-24-1999 **01-05-1999** NONE 00.0	NAVFAC - EFA WEST RAB MEMBERS	05 JANUARY 1999 RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES ATTENDANCE LIST, AGENDA, AND VARIOUS HANDOUTS) {PORTION OF SIGN-IN SHEET IS SENSITIVE}	ADMIN RECORD SENSITIVE	005 007 OU 1 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_008	181-03-0179 41074200	BOX 0045
N00236 / 001588 NONE CORRESPONDENC NONE 13	11-24-1999 **01-14-1999** NONE 00.0	DTSC - BERKELEY M. CASSA NAVFAC - EFA WEST G. KIKUGAWA	COMMENTS ON THE 1) FINAL STATUS RADIATION SURVEY AND FIELD SAMPLING WORK PLAN, 2) TECHNICAL MEMORANDUM RADIOLOGICAL ASSESSMENT FOR RESIDUAL ACTIVITY GUIDELINES, 3) RESPONSE TO COMMENTS ON THE DRAFT CONFIRMATION RADIATION SURVEY & FIELD SAMPLING WORK PLAN	ADMIN RECORD SENSITIVE	005 010 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0041

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 001585 NONE REPORT N62474-94-D-7609 500	11-24-1999 **01-29-1999** 00168 00.0	TETRA TECH SHARMA, M. NAVY MCFADDEN, P.	DRAFT OPERABLE UNIT 3 (OU 3) REMEDIAL INVESTIGATION (RI) REPORT, VOLUME I OF III	REMOVED	014 OU 3 SITE 00001	NAVFAC SOUTHWEST - BLDG. 1		
N00236 / 001586 NONE REPORT N62474-94-D-7609 100	11-24-1999 **01-29-1999** 00168 00.0	TETRA TECH SHARMA, M. NAVY MCFADDEN, P.	DRAFT OPERABLE UNIT 3 (OU 3) REMEDIAL INVESTIGATION (RI) REPORT, VOLUME II OF III, CHAPTER 6 FIGURES	REMOVED	014 OU 3 SITE 00001	NAVFAC SOUTHWEST - BLDG. 1		
N00236 / 001587 NONE REPORT N62474-94-D-7609 2000	11-24-1999 **01-29-1999** 00168 00.0	TETRA TECH SHARMA, M. NAVY MCFADDEN, P.	DRAFT OPERABLE UNIT 3 (OU 3) REMEDIAL INVESTIGATION (RI) REPORT, VOLUME III OF III, APPENDICES	REMOVED	014 OU 3 SITE 00001	NAVFAC SOUTHWEST - BLDG. 1		
N00236 / 001704 NONE REPORT NONE 95	06-16-2000 **05-02-1999** NONE	SSPORTS ENVIRONMENTAL DETACHM J. RANDELL NAVFAC - SOUTHWEST DIVISION	FINAL UNEXPLODED ORDNANCE (UXO) SITE INVESTIGATION SURVEY WORK PACKAGE	ADMIN RECORD	OU 3 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_010	181-03-0179 41074200	BOX 0046
N00236 / 001666 NONE MM NONE 89	11-24-1999 **05-04-1999** NONE 00.0	NAVFAC - EFA WEST RAB MEMBERS	04 MAY 1999 RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES ATTENDANCE LIST, RAB MEETING AGENDA, AND VARIOUS HANDOUTS)	ADMIN RECORD	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_008	181-03-0179 41074200	BOX 0045

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000711 TC.A021.10075 MM N68711-00-D-0005 10	06-16-2003 **05-18-1999** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	18 MAY 1999 BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING MINUTES FOR ENVIRONMENTAL ACTIONS (INCLUDES ATTENDANCE LIST, AGENDA, AND VARIOUS HANDOUTS)	ADMIN RECORD INFO REPOSITORY	005 025 SITE 00001 SITE 00004	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0014
N00236 / 001618 NONE REPORT N62474-94-D-7609 340	11-24-1999 **05-19-1999** 00168 00.0	TETRA TECH EM INC. SHARMA, M. NAVFAC - EFA WEST MCFADDEN, P.	DRAFT FINAL OU-3 REMEDIAL INVESTIGATION (RI) REPORT, VOLUME I OF III (SEE AR# 1619 - VOL II OF III AND AR# 1620 - VOL III OF III)	ADMIN RECORD	014 OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0042
N00236 / 001619 NONE REPORT N62474-94-D-7609 54	11-24-1999 **05-19-1999** 00168 00.0	TETRA TECH EM INC. SHARMA, M. NAVFAC - EFA WEST MCFADDEN, P.	DRAFT FINAL OU-3 REMEDIAL INVESTIGATION (RI) REPORT, VOLUME II OF III (CHAPTER 6 FIGURES) [SEE AR# 1618 - VOL I OF III AND AR#1620 - VOL III OF III]	ADMIN RECORD	014 SITE 00001	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0042
N00236 / 001620 NONE REPORT N62474-94-D-7609 1323	11-24-1999 **05-19-1999** 00168 00.0	TETRA TECH EM INC. SHARMA, M. NAVFAC - EFA WEST MCFADDEN, P.	DRAFT FINAL OU-3 REMEDIAL INVESTIGATION (RI) REPORT, VOLUME III OF III (APPENDICES) [SEE AR# 1618 - VOL I OF III AND AR# 1619 - VOL II OF III] {SEE COMMENTS}	ADMIN RECORD	014 SITE 00001	FRC - PERRIS IMAGED APNT_019	181-03-0179 41074200	BOX 0043

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N00236 / 001680 NONE MM NONE 71	01-21-2000 **07-06-1999** NONE 10.4	NAVFAC - WESTERN DIVISION NAVFAC - WESTERN DIVISION	06 JULY 1999 DRAFT RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES AGENDA, HANDOUTS AND SIGN-IN SHEETS) [PORTION OF THE SIGN-IN SHEET IS CONFIDENTIAL]	ADMIN RECORD SENSITIVE	006 007 008 015 016 017 025 BLDG. 400 BLDG. 5 OU 1 OU 2 OU 3 OU 4 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_009	181-03-0179 BOX 0045 41074200

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 001679 NONE MM NONE 29	01-21-2000 **08-03-1999** NONE 10.4	NAVFAC - WESTERN DIVISION NAVFAC - WESTERN DIVISION	3 AUGUST 1999 RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES AGENDA, HANDOUTS AND SIGN-IN SHEETS) [PORTION OF THE SIGN-IN SHEET IS CONFIDENTIAL]	ADMIN RECORD SENSITIVE	005 009 010 013 014 017 019 020 021 022 023 024 025 1112 360 400 410 BLDG. 14 BLDG. 162 BLDG. 5 OU 1 OU 2 OU 3 OU 4 SITE 00001 SITE 00002 SITE 00003 SITE 00004	FRC - PERRIS IMAGED APNT_009	181-03-0179 41074200	BOX 0045
N00236 / 001654 NONE REPORT N62474-94-D-7609 349	11-24-1999 **08-09-1999** 00168 00.0	TETRA TECH EM INC. BURLESON, N. NAVFAC - EFA WEST KAKTIS, W.	FINAL REMEDIAL INVESTIGATION REPORT, VOLUME I OF III [SEE AR # 1655 - VOLUME II OF III, AR # 1656 - VOLUME III OF III, AR # 304 - DRAFT ADDENDUM, VOL. II, AR # 45 - DRAFT FINAL ADDENDUM, VOL. I, AR # 331 - DRAFT FINAL ADDENDUM, VOL. II] (SEE ***COMMENTS)	ADMIN RECORD	OU 0003 SITE 00001 SITE 00014	FRC - PERRIS IMAGED APNT_030	181-08-0082 40095306 SAN	BOX 0009

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 001655 NONE REPORT N62474-94-D-7609 54	11-24-1999 **08-09-1999** 00168 00.0	TETRA TECH EM INC. BURLESON, N. NAVFAC - EFA WEST KAKTIS, W.	FINAL REMEDIAL INVESTIGATION REPORT, VOLUME II OF III [SEE AR # 1654 VOLUME I OF III, AR # 1656 - VOLUME III OF III, AR # 304 - DRAFT ADDENDUM, VOLUME II, AR # 45 - DRAFT FINAL ADDENDUM, VOLUME I, AR # 331 - DRAFT FINAL ADDENDUM, VOLUME II]	ADMIN RECORD	OU 0003 SITE 00001 SITE 00014	FRC - PERRIS IMAGED APNT_030	181-08-0082 40095306 SAI	BOX 0009
N00236 / 001656 EFAW SER 612.3/9192 REPORT N62474-94-D-7609 999	11-24-1999 **08-09-1999** 00168 00.0	TETRA TECH EM INC. BURLESON, N. NAVFAC - EFA WEST MCFADDEN, P.	FINAL REMEDIAL INVESTIGATION REPORT, VOLUME III OF III, (INCLUDES EFAW TRANSMITTAL LETTER) {SEE ***COMMENTS}	ADMIN RECORD INFO REPOSITORY	OU 0003 SITE 00001 SITE 00014	FRC - PERRIS IMAGED APNT_030	181-08-0082 40095306 SAI	BOX 0009
N00236 / 001658 NONE REPORT NONE 23	11-24-1999 **08-19-1999** NONE 00.0	SSPORTS ENVIRONMENTAL DETACH. NAVFAC - EFA WEST	FINAL RADIOLOGICAL SURVEY REPORT, LANDFILL 1 AND 2 [SEE AR# 1657 - NAVFAC EFAW TRANSMITTAL LETTER BY G. KIKUGAWA]	ADMIN RECORD	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_008	181-03-0179 41074200	BOX 0045
N00236 / 001653 NONE REPORT N62474-94-D-7609 189	11-24-1999 **08-27-1999** 00168 00.0	TETRA TECH EM INC. N. BURLESON NAVFAC - EFA WEST W. KAKTIS	DRAFT FEASIBILITY STUDY (FS)	INFO REPOSITORY	014 OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0045
N00236 / 001657 EFAW SER 612.4/L9205 CORRESPONDENC NONE 2	11-24-1999 **08-30-1999** NONE 00.0	NAVFAC - EFA WEST G. KIKUGAWA VARIOUS AGENCIES	TRANSMITTAL OF FINAL RADIOLOGICAL SURVEY REPORT, LANDFILL 1 AND 2 (W/OUT ENCLOSURE) [SEE AR# 1658 - FINAL RADIOLOGICAL SURVEY REPORT]	ADMIN RECORD	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_008	181-03-0179 41074200	BOX 0045

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N00236 / 001677 NONE MM NONE 33	01-21-2000 **10-05-1999** NONE 10.4	NAVFAC - EFA WEST VARIOUS AGENCIES	05 OCTOBER 1999 DRAFT RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES AGENDA, VARIOUS HANDOUTS AND SIGN-IN SHEETS)	ADMIN RECORD	005 010 014 025 BLDG. 400 BLDG. 5 OU 1 OU 2 OU 3 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_022	181-03-0179 41074200	BOX 0045
N00236 / 001705 NONE REPORT NONE 36	06-16-2000 **10-22-1999** NONE	SSPORTS ENVIRON. DETACHMENT J. RANDELL NAVFAC - SOUTHWEST DIVISION	FINAL - UNEXPLODED ORDNANCE SITE INVESTIGATION FINAL SUMMARY REPORT	ADMIN RECORD	OU 3 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_045	181-03-0179 41074200	BOX 0046

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 001676 NONE MM NONE 43	01-21-2000 **11-11-1999** NONE 10.4	NAVFAC - SOUTHWEST DIVISION VARIOUS AGENCIES	11 NOVEMBER 1999 DRAFT RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES AGENDA, VARIOUS HANDOUTS AND SIGN-IN SHEETS)	ADMIN RECORD	006 007 008 010 012 015 016 017 018 020 024 025 BLDG. 400 BLDG. 5 OU 1 OU 2 OU 3 OU 4 SITE 00001 SITE 00002 SITE 00004	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0045
N00236 / 000511 TC.A021.10074 MM N68711-00-D-0005 26	06-11-2003 **01-04-2000** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	04 JANUARY 2000 RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES AGENDA, SIGN-IN SHEETS AND VARIOUS HANDOUTS)	ADMIN RECORD INFO REPOSITORY	005 010 014 025 BLDG. 400 OU 1 OU 2 OU 3 OU 4 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0013

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000512 TC.A021.10074 MM N68711-00-D-0005 81	06-11-2003 **02-01-2000** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	01 FEBRUARY 2000 RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES AGENDA, SIGN-IN SHEETS AND VARIOUS HANDOUTS)	ADMIN RECORD	025 OU 2 OU 3 OU 4 SITE 00001	FRC - PERRIS IMAGED APNT_025	181-03-0188 41031858	BOX 0013
N00236 / 001685 NONE MM NONE 15	03-28-2000 **02-01-2000** NONE	NAVFAC - SOUTHWEST DIVISION	DRAFT RAB MEETING SUMMARY FOR 1 FEBRUARY 2000	ADMIN RECORD	025 OU 2 OU 3 OU 4 SITE 00001	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0046
N00236 / 001702 NONE REPORT N62474-94-D-7609 77	06-16-2000 **05-05-2000** 00271	TETRA TECH EM INC. M. REISIG NAVFAC - SOUTHWEST DIVISION L. OCAMPO	INTERNAL DRAFT RECORD OF DECISION/REMEDIAL ACTION PLAN FOR THE MARSH CRUST GROUNDWATER AND THE MARSH CRUST AND FORMER SUBTIDAL AREA (INCLUDES SWDIV TRANSMITTAL LETTER BY L. OCAMPO) {***SEE NOTES}	ADMIN RECORD	006 OU 1 OU 2 OU 3 OU 4 SITE 00001 SITE 00002 SITE 00003 SITE 00004 WELL S27	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0046
N00236 / 003065 SWDIV SER 06CA.RW/0418 CORRESPONDENC NONE 4	04-14-2008 **06-02-2000** NONE	NAVFAC - SOUTHWEST WEISSENBORN, R. UNIVERSITY OF CENTRAL FLORIDA REINHART, D.	TRANSMITTAL OF THE 1) DRAFT TECHNOLOGY EVALUATION REPORT; 2) DRAFT PASSIVE AND SEMI-PASSIVE TECHNIQUES; AND 3) FINAL FUNNEL-AND-GATE DEMONSTRATION DATA SUMMARY REPORT FOURTH QUARTER (W/OUT ENCLOSURES) [SEE COMMENTS.]	ADMIN RECORD	SITE 00001	NAVFAC SOUTHWEST - BLDG. 1 SW080523-10 IMAGED APNT_035		
N00236 / 000560 TC.A021.10074 MM N68711-00-D-0005 9	06-11-2003 **06-06-2000** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	06 JUNE 2000 RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY [ATTENDANCE LIST IS MISSING]	ADMIN RECORD	025 OU 1 OU 2 OU 4 SITE 00001	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0013

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N00236 / 003064 NONE CORRESPONDENC NONE 6	04-14-2008 **07-27-2000** NONE	U.S. EPA - SAN FRANCISCO, CA RAMSEY, P. NAVFAC - SOUTHWEST WEISSENBORN, R.	COMMENTS ON THE 1) FINAL - UNEXPLODED ORDNANCE SITE INVESTIGATION FINAL SUMMARY REPORT, AND 2) UNEXPLODED ORDNANCE INTRUSIVE INVESTIGATION IMPLEMENTATION WORK PACKAGE (PORTION OF MAILING LIST IS SENSITIVE)	ADMIN RECORD SENSITIVE	OU 0000003 SITE 00001 SITE 00002	NAVFAC SOUTHWEST - BLDG. 1 SW080523-10 IMAGED APNT_035		
N00236 / 003060 NONE CORRESPONDENC NONE 5	04-14-2008 **08-02-2000** NONE	STATE OF CALIFORNIA DEPARTMENT OF FISH AND GAME ELLIS, S. NAVFAC - SOUTHWEST DIVISION WEISSENBORN, R.	COMMENTS ON THE DRAFT UNEXPLODED ORDNANCE INTRUSIVE INVESTIGATION IMPLEMENTATION WORK PLAN (SEE COMMENTS.)	ADMIN RECORD	OU 0000003 OU 0000004 SITE 00001 SITE 00002	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-4/8 IMAGED APNT_039		
N00236 / 000589 TC.A021.10074 MM N68711-00-D-0005 8	06-11-2003 **09-05-2000** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	05 SEPTEMBER 2000 RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (ATTENDANCE LIST IS MISSING)	ADMIN RECORD	005 010 011 012 014 017 024 027 OU 3 SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0013
N00236 / 003062 NONE CORRESPONDENC NONE 12	04-14-2008 **09-11-2000** NONE	DTSC - BERKELEY, CA CASSA, M. NAVFAC - SOUTHWEST WEISSENBORN, R.	COMMENTS ON THE DRAFT UNEXPLODED ORDNANCE INTRUSIVE INVESTIGATION IMPLEMENTATION WORK PLAN PACKAGE (INCLUDES STATE UNEXPLODED ORDNANCE COORDINATOR COMMENTS DATED 31 AUGUST 2000) [PORTION OF MAILING LIST IS SENSITIVE]	ADMIN RECORD SENSITIVE	OU 0000003 OU 0000004 SITE 00001 SITE 00002	NAVFAC SOUTHWEST - BLDG. 1 SW080523-10 IMAGED APNT_035		

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000726 TC.A021.10075 MM N68711-00-D-0005 6	06-16-2003 **09-19-2000** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	19 SEPTEMBER 2000 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT	ADMIN RECORD INFO REPOSITORY	OU 3 OU 4 SITE 00001	FRC - PERRIS IMAGED APNT_003	181-03-0188 41031858	BOX 0014
N00236 / 000590 TC.A021.10074 MM N68711-00-D-0005 19	06-11-2003 **10-03-2000** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	03 OCTOBER 2000 RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES (MISSING ATTENDANCE LIST)	ADMIN RECORD	OU 0000001 OU 0000002 OU 0000002A OU 0000002B OU 0000002C OU 0000003 OU 0000004 OU 0000005 OU 0000007 SITE 00001 SITE 00002 SITE 00005 SITE 00007 SITE 00013 SITE 00025	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0013
N00236 / 000728 TC.A021.10075 MM N68711-00-D-0005 4	06-16-2003 **11-21-2000** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	21 NOVEMBER 2000 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT	ADMIN RECORD INFO REPOSITORY	025 SITE 00001	FRC - PERRIS IMAGED APNT_003	181-03-0188 41031858	BOX 0014
N00236 / 000592 TC.A021.10074 MM N68711-00-D-0005 8	06-11-2003 **12-05-2000** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	05 DECEMBER 2000 RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES {PORTION OF DOCUMENT IS SENSITIVE} (MISSING ATTENDANCE LIST)	ADMIN RECORD SENSITIVE	PARCEL 178 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0013

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N00236 / 002671 NONE CORRESPONDENC NONE 3	01-25-2007 **12-06-2000** NONE	USEPA - SAN FRANCISCO P. RAMSEY NAVFAC - SOUTHWEST DIVISION R. WEISSENBORN	REVIEW AND RESPONSES TO COMMENTS ON DRAFT RADIATION RISK ASSESSMENT	ADMIN RECORD INFO REPOSITORY	OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_028	181-08-0082 40095306 SAN	BOX 0063
N00236 / 003059 NONE CORRESPONDENC NONE 3	04-14-2008 **12-06-2000** NONE	U.S. EPA - SAN FRANCISCO, CA RAMSEY, P. NAVFAC - SOUTHWEST DIVISION WEISSENBORN, R.	RESPONSE TO COMMENTS ON DRAFT HUMAN HEALTH RISK ASSESSMENT IN SUPPORT OF REMEDIAL ACTION OBJECTIVES FOR RADIOLOGICAL MATERIALS (INCLUDES EPA SUPERFUND TECHNICAL SUPPORT TEAM COMMENTS DATED 30 NOVEMBER 2000)	ADMIN RECORD	OU 0000003 SITE 00001	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-4/8 IMAGED APNT_039		
N00236 / 003082 SWDIV SER 06.CA/0531 CORRESPONDENC NONE 8	04-21-2008 **05-17-2001** NONE	NAVFAC - SOUTHWEST DIVISION WEISSENBORN, R. FOSTER WHEELER LOAN, A.	COMMENTS ON THE PRE-DRAFT FOCUSED REMEDIAL INVESTIGATION WORK PLAN, ORDNANCE AND EXPLOSIVES CHARACTERIZATION, AND GEOTECHNICAL AND SEISMIC EVALUATIONS (SEE COMMENTS.)	ADMIN RECORD	SITE 00001	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-4/8 IMAGED APNT_041		
N00236 / 000188 FWSD-RACII-01-0223 & SWDIV SER 06CA.RW/0593 CORRESPONDENC N44255-95-D-6030 207	07-05-2001 **06-01-2001** DO 0095	FOSTER WHEELER L. HUMPHREY NAVFAC - SOUTHWEST DIVISION	DRAFT FOCUSED REMEDIAL INVESTIGATION WORK PLAN, REVISION 0 - ORDNANCE & EXPLOSIVES CHARACTERIZATION, & GEOTECHNICAL & SEISMIC EVALUATIONS (INCLUDES SWDIV TRANSMITTAL LETTER BY R. WEISSENBORN)	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_011	181-03-0179 41074200	BOX 0009
N00236 / 002401 FILE NO. 2199.9285(LBJ) CORRESPONDENC NONE 2	08-21-2006 **06-13-2001** NONE	CRWQCB - OAKLAND JOB, B. NAVFAC - SOUTHWEST DIVISION M. MCCLELLAND	REVIEW AND COMMENTS ON DRAFT FOCUSED REMEDIAL INVESTIGATION WORK PLAN, ORDNANCE AND EXPLOSIVES CHARACTERIZATION, AND GEOTECHNICAL SEISMIC EVALUATION	ADMIN RECORD	SITE 00001	FRC - PERRIS IMAGED APNT_021	181-03-0179 41074200	BOX 0025

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N00236 / 002402 NONE CORRESPONDENC NONE 5	08-21-2006 **06-26-2001** NONE	DTSC - BERKELEY M. CASSA NAVFAC - SOUTHWEST DIVISION R. WEISSENBORN	REVIEW AND COMMENTS ON DRAFT FOCUSED REMEDIAL INVESTIGATION WORK PLAN, ORDNANCE AND EXPLOSIVES CHARACTERIZATION AND GEOTECHNICAL AND SEISMIC EVALUATIONS (PORTION OF THE MAILING LIST IS SENSITIVE)	ADMIN RECORD SENSITIVE	SITE 00001	FRC - PERRIS IMAGED APNT_021	181-03-0179 41074200	BOX 0025
N00236 / 002403 NONE CORRESPONDENC NONE 9	08-21-2006 **07-12-2001** NONE	USEPA - SAN FRANCISCO COOK, A. NAVFAC - SOUTHWEST DIVISION R. WEISSENBORN	REVIEW AND COMMENTS ON DRAFT FOCUSED REMEDIAL INVESTIGATION WORK PLAN, ORDNANCE AND EXPLOSIVES CHARACTERIZATION, AND GEOTECHNICAL AND SEISMIC EVALUATION	ADMIN RECORD	SITE 00001	FRC - PERRIS IMAGED APNT_021	181-03-0179 41074200	BOX 0025
N00236 / 000394 NONE CORRESPONDENC NONE 1	06-28-2002 **09-20-2001** NONE	USEPA - SAN FRANCISCO COOK, A. NAVFAC - SOUTHWEST DIVISION R. WEISSENBORN	EPA CONCURRENCE ON THE DRAFT FINAL FOCUSED REMEDIAL INVESTIGATION WORK PLAN - ORDNANCE & EXPLOSIVES WASTE CHARACTERIZATION AND GEOTECHNICAL & SEISMIC EVALUATIONS - COMMENTS ON THE DRAFT HAVE BEEN ADEQUATELY ADDRESSED (SEE AR #228 - RI WORK PLAN)	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_004	181-03-0188 41031858	BOX 0003
N00236 / 000228 FWSD-RACII-01-0299-1 & 01-0313 CORRESPONDENC N44255-95-D-6030 240	09-21-2001 **09-28-2001** DO 0095	FOSTER WHEELER L. HUMPHREY NAVFAC - SOUTHWEST DIVISION	FINAL FOCUSED REMEDIAL INVESTIGATION WORK PLAN, ORDNANCE AND EXPLOSIVES WASTE CHARACTERIZATION, AND GEOTECHNICAL AND SEISMIC EVALUATIONS, REVISION 1	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0011
N00236 / 003076 NONE CORRESPONDENC NONE 5	04-17-2008 **09-29-2001** NONE	RAB MEMBER HUMPHREYS, G. SUTTER, M.	COMMENTS ON THE 1) THE DRAFT FINAL FOCUSED REMEDIAL INVESTIGATION WORK PLAN, AND 2) DRAFT SITE-SPECIFIC HEALTH AND SAFETY PLAN	ADMIN RECORD	SITE 00001 SITE 00002	NAVFAC SOUTHWEST - BLDG. 1 SW080523-10 IMAGED APNT_035		

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N00236 / 000272 FWSD-RACII-02-0010 CORRESPONDENC N44255-95-D-6030 84	11-02-2001 **10-30-2001** DO 0095	FOSTER WHEELER R. MARGOTTO NAVFAC - SOUTHWEST DIVISION	FINAL SITE SPECIFIC HEALTH AND SAFETY PLAN, ORDNANCE AND EXPLOSIVES WASTE CHARACTERIZATION, AND GEOTECHNICAL AND SEISMIC EVALUATIONS, REVISION 0	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_012	181-03-0179 41074200	BOX 0013
N00236 / 000313 2700.0 CORRESPONDENC N62474-98-D-2076 501	01-04-2002 **12-18-2001** 00078	IT CORPORATION J. MCGUIRE NAVFAC - SOUTHWEST DIVISION R. WEISSENBORN	DRAFT WORK PLAN FOR BASEWIDE GROUNDWATER MONITORING PROGRAM, REVISION 0	ADMIN RECORD INFO REPOSITORY	005 006 007 008 009 010 011 012 014 016 021 025 GROUP 026 027 SITE 00001 SITE 00003 SITE 00004	FRC - PERRIS IMAGED APNT_007	181-08-0082 40095306 SAI	BOX 0007

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N00236 / 000747 TC.A021.10075 MM N68711-00-D-0005 87	06-17-2003 **04-16-2002** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	16 APRIL 2002 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT (INCLUDES AGENDA, SIGN-IN SHEET, AND VARIOUS HANDOUTS) [PORTION OF THE SIGN-IN SHEET IS SENSITIVE]	ADMIN RECORD INFO REPOSITORY SENSITIVE	009 011 014 015 016 021 026 OU 1 OU 2 SITE 00001 SITE 00002 SITE 00004	FRC - PERRIS IMAGED APNT_003	181-03-0188 41031858	BOX 0014
N00236 / 000374 FWSD-RACII-02-0190 REPORT N44255-95-D-6030 654	06-18-2002 **04-26-2002** DO 0095	FOSTER WHEELER LOAN, A. NAVFAC - SOUTHWEST DIVISION	DRAFT ORDNANCE AND EXPLOSIVES WASTE/GEOTECHNICAL CHARACTERIZATION REPORT; ORDNANCE AND EXPLOSIVES WASTE CHARACTERIZATION, AND GEOTECHNICAL AND SEISMIC EVALUATIONS, REVISION 0 (INCLUDES SWDIV TRANSMITTAL LETTER BY. WEISSENBORN) [CD COPY OF PHOTOS ENCLOSED]	ADMIN RECORD INFO REPOSITORY	OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_010	181-03-0188 41031858	BOX 0002
N00236 / 001808 3834 REPORT N62474-98-D-2076 436	04-22-2004 **05-03-2002** 00078	IT CORPORATION J. MCGUIRE NAVFAC - SOUTHWEST DIVISION	DRAFT WORK PLAN FOR BASEWIDE GROUNDWATER MONITORING PROGRAM, REVISION 0 (FIGURES 35 AND 66 AND TABLES 15 AND 16 ARE MISSING)	ADMIN RECORD INFO REPOSITORY	005 006 007 008 009 014 016 025 026 027 SITE 00001 SITE 00003	FRC - PERRIS IMAGED APNT_008	181-08-0082 40095306 SAN	BOX 0017

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N00236 / 001809 4100 REPORT N62474-98-D-2076 600	04-22-2004 **06-13-2002** 00078	IT CORPORATION R. CONDIT NAVFAC - SOUTHWEST DIVISION	DRAFT FINAL WORK PLAN FOR BASEWIDE GROUNDWATER MONITORING PROGRAM, REVISION 0, [CD COPY ENCLOSED OF WELL INVENTORY]	ADMIN RECORD INFO REPOSITORY	005 006 007 008 009 014 016 025 026 027 SITE 00001 SITE 00003	NAVFAC SOUTHWEST - BLDG. 110 RECORD PULLED FOR REVIEW ON 2/6/08	

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N00236 / 000367 SWDIV SER 06CA.AD/0624 CORRESPONDENC NONE 35	06-18-2002 **06-14-2002** NONE	NAVFAC - SOUTHWEST DIVISION DICK, A. US EPA - SAN FRANCISCO A. COOK	TRANSMITTAL OF DRAFT SITE MANAGEMENT PLAN AMENDMENT (W/ ENCLOSURE)	ADMIN RECORD INFO REPOSITORY	AREA 1 AREA 2 AREA 3 OU 0000001 OU 0000002A OU 0000002B OU 0000002C OU 0000003 OU 0000004A OU 0000004B OU 0000004C OU 0000005 OU 0000006 SITE 00001 SITE 00002 SITE 00006 SITE 00007 SITE 00008 SITE 00009 SITE 00013 SITE 00014 SITE 00015 SITE 00016 SITE 00017 SITE 00019 SITE 00020 SITE 00022 SITE 00023 SITE 00024 SITE 00025 SITE 00026 SITE 00027 SITE 00028 SITE 00029	FRC - PERRIS IMAGED APNT_022	181-03-0188 41031858	BOX 0002

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N00236 / 002462 NONE CORRESPONDENC NONE 9	08-23-2006 **06-25-2002** NONE	DTSC - BERKELEY M. LIAO NAVFAC - SOUTHWEST DIVISION R. WEISSENBORN	REVIEW AND COMMENTS ON DRAFT ORDNANCE AND EXPLOSIVE WASTE, GEOTECHNICAL CHARACTERIZATION REPORT (INCLUDES OMF COMMENTS BY J. AUSTRENG AND ESU COMMENTS BY R. RAMANUJAM DATED 25 JUNE 2002)	ADMIN RECORD	SITE 00001	FRC - PERRIS IMAGED APNT_024	181-03-0179 41074200	BOX 0004
N00236 / 000750 TC.A021.10075 MM N68711-00-D-0005 52	06-17-2003 **07-16-2002** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	16 JULY 2002 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT (INCLUDES AGENDA, SIGN-IN SHEET, AND VARIOUS HANDOUTS) [PORTION OF THE SIGN-IN SHEET IS SENSITIVE]	ADMIN RECORD INFO REPOSITORY SENSITIVE	OU 0000001 OU 0000002A OU 0000002B OU 0000005 SITE 00001 SITE 00002 SITE 00013	FRC - PERRIS IMAGED APNT_005	181-03-0188 41031858	BOX 0014
N00236 / 000623 TC.A021.10074 MM N68711-00-D-0005 29	06-12-2003 **08-06-2002** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	06 AUGUST 2002 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES MEETING AGENDA, SIGN-IN SHEETS, AND VARIOUS HANDOUTS)	ADMIN RECORD INFO REPOSITORY	OU 0000005 SITE 00001 SITE 00025	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0013

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000412 TC.0190.11423 - MOD. 2 REPORT N62474-94-D-7609 417	08-29-2002 **08-16-2002** 00190	TETRA TECH EM INC. G. FOULK NAVFAC - SOUTHWEST DIVISION	DRAFT SUPPLEMENTAL ENVIRONMENTAL BASELINE SURVEY	ADMIN RECORD INFO REPOSITORY	005 006 007 008 009 010 011 012 013 014 015 016 017 019 020 021 022 023 024 025 026 027 028 029 OU 1 OU 2A OU 2B OU 2C OU 3 OU 4A OU 4B OU 4C OU 5 OU 6 SITE 00001	FRC - PERRIS IMAGED APNT_027	181-03-0188 41031858	BOX 0004

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
					SITE 00002 SITE 00003 SITE 00004			
N00236 / 000416 FWSD-RACIII-02-1437 AND SWDIV SER 06CA.RW/0837 REPORT N68711-98-D-5713 858	08-29-2002 **08-19-2002** 00054	FOSTER WHEELER LOAN, A. NAVFAC - SOUTHWEST DIVISION	DRAFT GEOTECHNICAL FEASIBILITY STUDY REPORT, REVISION 0 (INCLUDES SWDIV TRANSMITTAL LETTER BY R. WEISSENBORN) [PORTIONS OF SECTIONS 4 AND 5, APPENDIX B AND THE MAILING LIST ARE CONFIDENTIAL]	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_010	181-03-0188 41031858	BOX 0004
N00236 / 000428 FWSD-RACIII-02-1439 AND SWDIV SER 06CA.RW/0994 REPORT N68711-98-D-5713 770	09-25-2002 **09-20-2002** 00054	FOSTER WHEELER LOAN, A. NAVFAC - SOUTHWEST DIVISION	DRAFT FINAL ORDNANCE AND EXPLOSIVES WASTE/GEOTECHNICAL CHARACTERIZATION REPORT; ORDNANCE AND EXPLOSIVES WASTE CHARACTERIZATION, AND GEOTECHNICAL AND SEISMIC EVALUATIONS (NCLUDES SWDIV TRANSMITTAL LETTER BY R. WEISSENBORN)	ADMIN RECORD INFO REPOSITORY SENSITIVE	OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_011	181-03-0188 41031858	BOX 0005
N00236 / 000427 FWSD-RACII-02-0190 RESPONSE N68711-98-D-5713 28	09-25-2002 **09-25-2002** 00054	FOSTER WHEELER NAVFAC - SOUTHWEST DIVISION	COMPILED RESPONSES TO COMMENTS ON THE DRAFT ORDNANCE AND EXPLOSIVES WASTE/GEOTECHNICAL CHARACTERIZATION REPORT; ORDNANCE AND EXPLOSIVES WASTE CHARACTERIZATION AND GEOTECHNICAL AND SEISMIC EVALUATIONS	ADMIN RECORD INFO REPOSITORY	OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_010	181-03-0188 41031858	BOX 0005
N00236 / 000625 TC.A021.10074 MM N68711-00-D-0005 47	06-12-2003 **10-01-2002** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	01 OCTOBER 2002 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES MEETING AGENDA, SIGN-IN SHEETS, AND VARIOUS HANDOUTS)	ADMIN RECORD INFO REPOSITORY	014 015 032 OU 3 OU 5 SITE 00001	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0013

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N00236 / 000436 DS.A033.10075 AND SWDIV SER 06CA.LO/0019 REPORT N68711-00-D-0005 237	10-31-2002 **10-08-2002** DO A033	TETRA TECH EM INC. KELLY, B. NAVFAC - SOUTHWEST DIVISION L. OCAMPO	DRAFT TECHNICAL MEMORANDUM: EVALUATION OF ISSUES RELATED TO THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA); FACILITY PERMIT EPA ID CA 2170023236, TIERED PERMITS, AND THE NONPERMITTED AREAS (INCLUDES SWDIV TRANSMITTAL LETTER BY L. OCAMPO)	ADMIN RECORD INFO REPOSITORY SENSITIVE	BLDG 00013 OU 0000001 OU 0000002A OU 0000002B OU 0000002C OU 0000003 OU 0000004A OU 0000004B OU 0000004C OU 0000005 OU 0000006 SITE 00001 SITE 00002 SITE 00003 SITE 00004 SITE 00006 SITE 00007 SITE 00008 SITE 00009 SITE 00013 SITE 00014 SITE 00015 SITE 00016 SITE 00019 SITE 00020 SITE 00022 SITE 00023 SITE 00026 SITE 00027 SITE 00028	FRC - PERRIS IMAGED APNT_013	181-03-0188 41031858	BOX 0006

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 002448 NONE CORRESPONDENC NONE 11	08-23-2006 **10-21-2002** NONE	DTSC - BERKELEY M. LIAO NAVFAC - SOUTHWEST DIVISION R. WEISSENBORN	REVIEW AND COMMENTS ON DRAFT FINAL ORDNANCE AND EXPLOSIVE WASTE/GEOTECHNICAL CHARACTERIZATON REPORT (INCLUDES DMF COMMENTS BY J. AUSTRENG DATED 16 OCTOBER 2002 AND ESU COMMENTS BY R. RAMANUJAM DATED 18 OCTOBER 2002)	ADMIN RECORD	OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_024	181-03-0179 41074200	BOX 0025
N00236 / 000626 TC.A021.10074 MM N68711-00-D-0005 18	06-12-2003 **11-05-2002** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	05 NOVEMBER 2002 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES MEETING AGENDA, SIGN-IN SHEETS, AND VARIOUS HANDOUTS)	ADMIN RECORD INFO REPOSITORY	014 015 SITE 00001	FRC - PERRIS IMAGED APNT_007	181-03-0188 41031858	BOX 0013
N00236 / 000447 FWSD-RACIII-02-1827 & SWDIV SER 06CA.RW\0233 REPORT N68711-98-D-5713 778	12-16-2002 **11-25-2002** 00054	FOSTER WHEELER LOAN, A. NAVFAC - SOUTHWEST DIVISION	FINAL ORDNANCE AND EXPLOSIVES WASTE/GEOTECHNICAL CHARACTERIZATION REPORT; ORDNANCE AND EXPLOSIVES WASTE CHARACTERIZATION, AND GEOTECHNICAL AND SEISMIC EVALUATIONS, REVISION 0 (INCLUDES SWDIV TRANSMITTAL LETTER BY R. WEISSENBORN)	ADMIN RECORD INFO REPOSITORY SENSITIVE	OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_013	181-03-0188 41031858	BOX 0009
N00236 / 000448 FWSD-RACIII-02-1827 & SWDIV SER 06CA.RW\0233 RESPONSE N68711-98-D-5713 21	12-16-2002 **12-05-2002** 00054	FOSTER WHEELER NAVFAC - SOUTHWEST DIVISION	RESPONSES TO COMMENTS ON THE DRAFT FINAL ORDNANCE AND EXPLOSIVES WASTE/GEOTECHNICAL CHARACTERIZATION REPORT (INCLUDES SWDIV TRANSMITTAL LETTER BY R. WEISSENBORN)	ADMIN RECORD INFO REPOSITORY SENSITIVE	OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_010	181-03-0188 41031858	BOX 0009
N00236 / 000457 DS.A029.10145 & SWDIV SER 06RW.CA\0241 REPORT N68711-00-D-0005 200	01-30-2003 **12-12-2002** DO 0029	TETRA TECH EM INC. DELA BARRE, B. NAVFAC - SOUTHWEST DIVISION R. WEISSENBORN	REVISED DRAFT FEASIBILITY STUDY REPORT, 1943-1956 DISPOSAL AREA (INCLUDES SWDIV TRANSMITTAL LETTER BY R. WEISSENBORN)	ADMIN RECORD INFO REPOSITORY	OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_025	181-03-0188 41031858	BOX 0010

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N00236 / 000456 NONE CORRESPONDENC NONE 7	01-29-2003 **12-16-2002** NONE	DTSC - BERKELEY M. LIAO NAVFAC - SOUTHWEST DIVISION L. OCAMPO	COMMENTS ON THE DRAFT TECHNICAL MEMORANDUM: EVALUATION OF ISSUES RELATED TO THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) FACILITY PERMIT EPA ID CA 217002323G TIERED PERMITS AND THE NONPERMITTED AREAS	ADMIN RECORD INFO REPOSITORY	OU 0000001 OU 0000002A OU 0000003 OU 0000005 OU 0000006 OU 000002B OU 000002C OU 000004A OU 000004B OU 000004C SITE 00001 SITE 00002 SITE 00003 SITE 00004 SITE 00006 SITE 00007 SITE 00008 SITE 00009 SITE 00013 SITE 00014 SITE 00015 SITE 00016 SITE 00019 SITE 00020 SITE 00022 SITE 00023 SITE 00027 SITE 00028	FRC - PERRIS IMAGED APNT_004	181-03-0188 41031858	BOX 0010

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000995 TC.A021.10125 MM N68711-00-D-0005 47	08-20-2003 **01-21-2003** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	21 JANUARY 2003 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT (INCLUDES AGENDA, SIGN-IN SHEET, AND HANDOUT MATERIALS) [PORTION OF THE SIGN-IN SHEET IS SENSITIVE]	ADMIN RECORD INFO REPOSITORY SENSITIVE	005 007 009 011 013 014 015 016 017 020 021 027 028 029 OU 5 SITE 00001	FRC - PERRIS IMAGED APNT_023	181-08-0082 40095306 SAN	BOX 0008
N00236 / 001029 TC.A021.10126 MM N68711-00-D-0005 43	08-20-2003 **02-04-2003** DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	FINAL RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES SUMMARY FOR THE 04 FEBRUARY 2003 MEETING - INCLUDES AGENDA, SIGN-IN SHEETS, AND HANDOUT MATERIALS	ADMIN RECORD INFO REPOSITORY	OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_001	181-08-0082 40095306 SAN	BOX 0008
N00236 / 001681 NONE CORRESPONDENC NONE 5	09-09-2008 **03-18-2003** NONE	DHS - SACRAMENTO, CA BAILEY, D. DTSC - BERKELEY, CA LIAO, M.	COMMENTS ON THE REVISED DRAFT FEASIBILITY STUDY REPORT, 1943-1956 DISPOSAL AREA	ADMIN RECORD	OU 0000003 SITE 00001	NAVFAC SOUTHWEST - BLDG. 1 SW-20090105-5/5 IMAGED APNT_040		
N00236 / 002457 NONE CORRESPONDENC NONE 21	08-23-2006 **03-21-2003** NONE	DTSC - BERKELEY M. LIAO NAVFAC - SOUTHWEST DIVISION R. WEISSENBORN	REVIEW AND COMMENTS ON REVISED DRAFT FEASIBILITY REPORT (INCLUDES ESU COMMENTS BY R. RAMANUJAM DATED 7 FEBRUARY 2003 AND ESU COMMENTS BY A. PATHAK DATED 11 MARCH 2003)	ADMIN RECORD	OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0025

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 002458 NONE CORRESPONDENC NONE 6	08-23-2006 **03-21-2003** NONE	DTSC - BERKELEY M. LIAO NAVFAC - SOUTHWEST DIVISION R. WEISSENBORN	REVIEW AND COMMENTS ON DRAFT GEOTECHNICAL FEASIBILITY REPORT (INCLUDES ESU COMMENTS BY R. RAMANUJAM DATED 10 FEBRUARY 2003)	ADMIN RECORD	OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_021	181-03-0179 41074200	BOX 0025
N00236 / 003094 NONE CORRESPONDENC NONE 16	04-23-2008 **04-09-2003** NONE	DTSC - BERKELEY, CA LIAO, M. NAVFAC - SOUTHWEST DIVISION WEISSENBORN, R.	COMMENTS ON THE DRAFT ORDNANCE AND EXPLOSIVES WASTE / GEOTECHNICAL CHARACTERIZATION REPORT (INCLUDES COMMENTS BY OMF DATED 08 APRIL 2003 AND ESU DATED 02 APRIL 2003)	ADMIN RECORD	OU 0000004A SITE 00001 SITE 00002	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-4/8 IMAGED APNT_041		

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 000772 NONE PUB NOTICE NONE 16	08-04-2003 **07-01-2003** NONE	NAVFAC - SOUTHWEST DIVISION M. MCCLELLAND PUBLIC INTEREST	JULY 2003 ALAMEDA POINT FOCUS ENVIRONMENTAL NEWSLETTER	ADMIN RECORD	005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 021 022 023 024 025 026 027 028 029 030 031 032 SITE 00001 SITE 00002 SITE 00003 SITE 00004	FRC - PERRIS IMAGED APNT_008	181-03-0188 41031858	BOX 0016

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N00236 / 001803 TC.B010.10187 MM N68711-03-D-5104 34	04-22-2004 **08-05-2003** 00010	SULTECH NAVFAC - SOUTHWEST DIVISION	05 AUGUST 2003 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES MEETING AGENDA, SIGN-IN SHEETS AND VARIOUS HANDOUTS) [ATTENDANCE LIST IS MISSING]	ADMIN RECORD INFO REPOSITORY	005 006 007 008 009 011 014 016 021 025 026 027 BLDG. 195 SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_014	181-08-0082 BOX 0017 40095306 SAN
N00236 / 003093 NONE CORRESPONDENC NONE 3	04-23-2008 **09-26-2003** NONE	DTSC - BERKELEY, CA LIAO, M. VARIOUS AGENCIES	RESPONSE TO PROPOSAL BY CITY OF ALAMEDA TO REUSE DREDGED MATERIALS FROM SEAPLANE LAGOON AS FOUNDATION LAYER FOR THE LANDFILL CAP (SEE COMMENTS.)	ADMIN RECORD	SITE 00001 SITE 00017	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-4/8 IMAGED APNT_041	

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N00236 / 001757 SWDIV SER 06CA.AD/1416 REPORT NONE 33	01-15-2004 **11-05-2003** NONE	NAVFAC - SOUTHWEST DIVISION MCCLELLAND, M. US EPA - SAN FRANCISCO COOK, A.	SITE MANAGEMENT PLAN UPDATE - [INCLUDES SWDIV TRANSMITTAL LETTER] [SEE RECORD # 1710 - FEDERAL FACILITIES AGREEMENT]	ADMIN RECORD INFO REPOSITORY	005 006 007 008 009 011 012 013 014 015 016 018 019 020 021 022 023 024 025 026 027 OU 1 OU 2A OU 2B OU 2C OU 3 OU 4A OU 4B OU 4C OU 5 OU 6 SITE 00001 SITE 00002 SITE 00003 SITE 00004	FRC - PERRIS IMAGED APNT_014	181-08-0082 BOX 0012 40095306 SAN

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 001727 6564 REPORT N62474-98-D-2076 150	11-19-2003 **11-11-2003** 00103	SHAW ENVIRONMENTAL, INC. NAVFAC - SOUTHWEST DIVISION	GROUNDWATER MONITORING REPORT, SUMMER 2002 TO SPRING 2003 (DOCUMENT WAS ISSUED WITH SECTION 6 ONLY AND REPLACEMENT PAGES) [***SEE COMMENTS]	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001	NAVFAC SOUTHWEST - BLDG. 110		
N00236 / 001880 SWDIV SER. 06CA.CD/1492 CORRESPONDENC NONE 15	10-18-2004 **11-24-2003** NONE	NAVFAC - SOUTHWEST MACCHIARELLA, T. US EPA - SAN FRANCISCO RIPPERDA, M.	TRANSMITTAL OF GROUNDWATER MONITORING REPORTS, SUMMER 2002 TO SPRING 2003 (W/OUT ENCLOSURES) [SEE AR # 774 THROUGH AR # 778, AR # 823, AR # 824, AR # 839, AR # 840, AR # 861, AR # 873, AND AR # 880 - GROUNDWATER MONITORING REPORTS]	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002 SITE 00003 SITE 00005 SITE 00006 SITE 00007 SITE 00008 SITE 00009 SITE 00014 SITE 00016 SITE 00025 GROUP SITE 00027	FRC - PERRIS IMAGED APNT_026	181-08-0082 40095306 SAN	BOX 0022
N00236 / 001714 FWSD-RAC-03-3603 & SWDIV SER 06CA.CD/1491 REPORT N68711-98-D-5713 866	10-15-2003 **12-05-2003** 00054	FOSTER WHEELER LOAN, A. NAVFAC - SOUTHWEST DIVISION	FINAL FEASIBILITY STUDY REPORT, OPERABLE UNIT 3 (OU 3), SITE 1 - 1943-1956 DISPOSAL AREA, VOLUME 2 - GEOTECHNICAL AND SEISMIC, REVISION 0 [INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA] ***SEE COMMENTS	ADMIN RECORD INFO REPOSITORY	OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_017	181-08-0082 40095306 SAN	BOX 0010
N00236 / 001768 SWDIV SER 06CA.DN/0125 CORRESPONDENC NONE 12	03-01-2004 **12-10-2003** NONE	NAVFAC - SOUTHWEST DIVISION T. MACCHIARELLA U.S. EPA - SAN FRANCISCO A. COOK	TRANSMITTAL OF 10 DECEMBER 2003 MEETING MINUTES REGARDING THE NAVY'S RESPONSE TO AGENCY COMMENTS (RTC) ON THE DRAFT SKEET RANGE REMEDIAL INVESTIGATION REPORT AND SEAPLANE LAGOON FEASIBILITY STUDY SCOPING MEETING (W/ ENCLOSURE)	ADMIN RECORD INFO REPOSITORY	017 029 SITE 00001	FRC - PERRIS IMAGED APNT_025	181-08-0082 40095306 SAN	BOX 0014

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N00236 / 003083 NONE MINUTES NONE 6	04-23-2008 **02-24-2004** NONE	BATTELLE LAU, V. VARIOUS AGENCIES	24 FEBRUARY 2004 FINAL SEAPLANE LAGOON FEASIBILITY STUDY STRATEGY MEETING MINUTES	ADMIN RECORD SENSITIVE	BLDG 00001 SITE 00001 SITE 00017	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-4/8 IMAGED APNT_041		
N00236 / 001788 FWSD-RAC-04-1277 REPORT N68711-98-D-5713 26	03-16-2004 **02-26-2004** 00087	TETRA TECH FW INC. ELOSKOF, A. NAVFAC - SOUTHWEST DIVISION	DRAFT VEGETATION CLEARANCE PLAN, RADIOLOGICAL SURVEY AT THE 1943-1956 DISPOSAL AREA AND THE WEST BEACH LANDFILL	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_022	181-08-0082 40095306 SAN	BOX 0016
N00236 / 001771 6695 & SWDIV SER 06CA.CG/0222 REPORT N62474-98-D-2076 250	03-02-2004 **02-27-2004** 00103	SHAW ENVIRONMENTAL, INC. NAVFAC - SOUTHWEST DIVISION	GROUNDWATER MONITORING REPORT, SUMMER 2002 TO SPRING 2003 (DOCUMENT WAS ISSUED WITH ORIGINAL SECTIONS 7 & 8 ONLY AND REPLACEMENT PAGES) [***SEE COMMENTS]	ADMIN RECORD INFO REPOSITORY	SITE 00001	NAVFAC SOUTHWEST - BLDG. 110		
N00236 / 001792 FWSD-RAC-04/1278 REV. 1 & SWDIV SER 06CA.CD/0251 REPORT N68711-98-D-5713 43	04-01-2004 **02-27-2004** 00087	TETRA TECH FW INC. V. RICHARDS NAVFAC - SOUTHWEST DIVISION	FINAL VEGETATION CLEARANCE PLAN, RADIOLOGICAL SURVEY AT 1943-1956 DISPOSAL AREA AND WEST BEACH LANDFILL, REVISION 1 (INCLUDES SWDIV TRANSMITTAL LETTER BY G. LORTON AND REPLACEMENT PAGES) {***SEE COMMENTS}	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_022	181-08-0082 40095306 SAN	BOX 0016
N00236 / 001791 7547 & SWDIV SER 06CA.CD/0311 CORRESPONDENC N62474-98-D-2076 33	04-01-2004 **03-15-2004** 00103	SHAW ENVIRONMENTAL, INC. R.CONDIT NAVFAC - SOUTHWEST DIVISION	DRAFT SAMPLING AND ANALYSIS PLAN ADDENDUM (FIELD SAMPLING PLAN/QUALITY ASSURANCE PROJECT PLAN) BASEWIDE GROUNDWATER MONITORING, REVISION 0 - [INCLUDES SWDIV TRANSMITTAL LETTER BY G. LORTON], (PORTION OF MAILING LIST IS CONFIDENTIAL)	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_007	181-08-0082 40095306 SAN	BOX 0016

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N00236 / 001794 FWSD-RAC-04-1410 REPORT N68711-98-D-5713 20	04-05-2004 **03-26-2004** 00087	TETRA TECH FW INC. L. MALO NAVFAC - SOUTHWEST DIVISION	TECHNICAL MEMORANDUM WETLAND ASSESSMENT - RADIOLOGICAL SURVEY AT 1943-1956 DISPOSAL AREA AND WEST BEACH LANDFILL (INCLUDES 19 AUGUST 2003 BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT)	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_014	181-08-0082 40095306 SAN	BOX 0017
N00236 / 001825 CTO-0068/0023 MM N68711-95-D-7526 9	05-05-2004 **04-13-2004** 00068	BECHTEL ENVIRONMENTAL, INC. J. ARGYRES NAVFAC - SOUTHWEST DIVISION	13 APRIL 2004 AGENCY WORKSHOP FOR INSTALLATION RESTORATION SITE 1 FEASIBILITY STUDY (FS) MEETING MINUTES (CD COPY ENCLOSED)	ADMIN RECORD INFO REPOSITORY	OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_019	181-08-0082 40095306 SAN	BOX 0019
N00236 / 001828 FWSD-RAC-04-1479 & SWDIV SER. 06CA.CD/0486 REPORT N68711-98-D-5713 506	05-11-2004 **04-30-2004** 00087	TETRA TECH FW INC. ELOSKOF, A. NAVFAC - SOUTHWEST DIVISION	REVISED DRAFT INSTALLATION RESTORATION, RADIOLOGICAL SURVEY WORK PLAN, REV. 0 RADIOLOGICAL SURVEY AT INSTALLATION RESTORATION (IR), 1943-1956 DISPOSAL AREA [INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA]	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_017	181-08-0082 40095306 SAN	BOX 0019
N00236 / 001830 7788.0, 7789 & SWDIV SER 06CA.CD/0507 MISC N62474-98-D-2076 7	05-11-2004 **05-07-2004** 00103	NAVFAC - SOUTHWEST DIVISION T. MACCHIARELLA U.S. EPA - SAN FRANCISCO A. COOK	WINTER AND FALL 2003 QUARTERLY GROUNDWATER MONITORING DATA REPORTS (COMPACT DISC (CD) FORMAT ONLY) {PORTION OF THE MAILING LIST IS SENSITIVE}	ADMIN RECORD INFO REPOSITORY SENSITIVE	005 006 007 008 009 014 016 025 GROUP SITE 00001 SITE 00002 SITE 00003	FRC - PERRIS IMAGED APNT_014	181-08-0082 40095306 SAN	BOX 0019

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N00236 / 002067 NONE CORRESPONDENC NONE 1	07-28-2005 **06-10-2004** NONE	DEPT. OF HEALTH SERVICES BAILEY, D. DTSC - BERKELEY M. LAIO	REVIEW AND NO COMMENTS ON THE DRAFT FINAL RADIOLOGICAL SURVEY WORK PLANS (WP), REVISION 0	ADMIN RECORD	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_019	181-08-0082 40095306 SAI	BOX 0035
N00236 / 001839 FWSD-RAC-04-2061 & SWDIV SER. 06CA/0649 REPORT N68711-98-D-5713 515	06-15-2004 **06-21-2004** 00087	TETRA TECH FW INC. STEPHAN, C. NAVFAC - SOUTHWEST DIVISION	FINAL RADIOLOGICAL SURVEY WORK PLAN, REVISION 0, RADIOLOGICAL SURVEY AT INSTALLATION RESTORATION, 1943-1956 DISPOSAL AREA (INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA) [CD COPY ENCLOSED]	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_015	181-08-0082 40095306 SAI	BOX 0019
N00236 / 001872 TC.B010.10254 MM N68711-03-D-5104 38	09-27-2004 **07-01-2004** 00010	SULTECH NAVFAC - SOUTHWEST DIVISION	1 JULY 2004 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES AGENDA AND VARIOUS HANDOUTS)	ADMIN RECORD INFO REPOSITORY	009 011 013 019 021 022 023 025 SITE 00001 SITE 00002 SITE 00003 SITE 00004	FRC - PERRIS IMAGED APNT_019	181-08-0082 40095306 SAI	BOX 0022
N00236 / 002535 FILE NO. 2199.9285(JCH) CORRESPONDENC NONE 4	09-19-2006 **07-09-2004** NONE	CRWQCB - OAKLAND J. HUANG NAVFAC - SOUTHWEST DIVISION T. MACCHIARELLA	REVIEW AND COMMENTS ON SCHEDULE CHANGES IN SITE MANAGEMENT PLAN (SMP) [PORTION OF THE MAILING LIST IS SENSITIVE]	ADMIN RECORD SENSITIVE	014 020 024 OU 11 OU 21 OU 2B OU 3 OU 4 SITE 00001	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0005

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N00236 / 001418 NONE CORRESPONDENC NONE 3	09-09-2008 **07-15-2004** NONE	ARC ECOLOGY LOIZOS, L. NAVFAC - SOUTHWEST DIVISION MACCHIARELLA, T.	COMMENTS ON THE DRAFT SITE MANAGEMENT PLAN (SMP) FOR FISCAL YEAR 2005	ADMIN RECORD	OU 0000001 OU 0000002A OU 0000002B OU 0000003 OU 0000005 SITE 00001 SITE 00014 SITE 00025	NAVFAC SOUTHWEST - BLDG. 1 SW-20090105-5/5 IMAGED APNT_040		
N00236 / 001893 TC.B010.10262 MM N68711-03-D-5104 52	11-22-2004 **09-21-2004** 00010	SULTECH NAVFAC - SOUTHWEST DIVISION	21 SEPTEMBER 2004 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT (INCLUDES AGENDA AND VARIOUS HANDOUTS) [CD COPY ENCLOSED]	ADMIN RECORD INFO REPOSITORY	007 015 022 032 OU 1 OU 2 OU 2A OU 2B SITE 00001	FRC - PERRIS IMAGED APNT_003	181-08-0082 40095306 SAN	BOX 0025
N00236 / 001902 8554 & SWDIV BPMOW.CXD/0076 CORRESPONDENC N62474-98-D-2076 21	12-06-2004 **11-10-2004** NONE	NAVFAC - SOUTHWEST DIVISION PLASEIED, R. US EPA - SAN FRANCISCO COOK, A.	TRANSMITTAL OF GROUNDWATER MONITORING REPORTS FOR SUMMER 2003 TO SPRING 2004 [INCLUDES SUMMARY OF SIGNIFICANT CHANGES TO ANNUAL 2003 TO 2004 ALAMEDA BASEWIDE GROUNDWATER MONITORING PROGRAM] (W/OUT ENCLOSURES) {PORTION OF THE MAILING LIST IS SENSITIVE}	ADMIN RECORD INFO REPOSITORY SENSITIVE	OU 002C SITE 00001 SITE 00002 SITE 00003 SITE 00005 SITE 00006 SITE 00007 SITE 00008 SITE 00009 SITE 00027 SITE 00032	FRC - PERRIS IMAGED APNT_030	181-08-0082 40095306 SAN	BOX 0025
N00236 / 001901 SWDIV SER BPMOW.CXD/0129 MISC NONE 88	12-02-2004 **11-22-2004** NONE	NAVFAC - SOUTHWEST DIVISION PLASEIED, R. EPA - SAN FRANCISCO COOK, A.	TRANSMITTAL OF 1) RESPONSE TO REGULATOR COMMENTS FOR THE SPRING 2003 ALAMEDA POINT QUARTERLY GROUNDWATER REPORTS, AND 2) REPLACEMENT PAGES {PORTION OF THE MAILING LIST IS SENSITIVE} (W/ ENCLOSURES)	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001 SITE 00002 SITE 00005 SITE 00007 SITE 00008 SITE 00025	FRC - PERRIS IMAGED APNT_035	181-09-0008 30099217 SAN	BOX 0025

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N00236 / 001896 FWSD-RAC-05-0037 & BRAC SER BPMOW\0164 REPORT N68711-98-D-5713 182	12-02-2004 **12-01-2004** 00087	TETRA TECH FW, INC. L. MALO BRAC PMO WEST	WETLAND DELINEATION REPORT FOR THE 1943-1956 DISPOSAL AREA AND 1952-1978 WEST BEACH LANDFILL [INCLUDES BRAC PMO WEST TRANSMITTAL LETTER BY R. PLASEIED]	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_003	181-08-0082 40095306 SAN	BOX 0025
N00236 / 001935 BRAC SER BPMOW.CG/0197 CORRESPONDENC NONE 3	01-11-2005 **12-08-2004** NONE	BRAC PMO WEST T. MACCHIARELLA DTSC - BERKELEY M. LIAO	REQUEST FOR THE IDENTIFICATION OF POTENTIAL STATE CHEMICAL-SPECIFIC, LOCATION-SPECIFIC AND ACTION-SPECIFIC APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARAR) FOR THE FEASIBILITY STUDY	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_003	181-08-0082 40095306 SAN	BOX 0026
N00236 / 001823 8823 AND 6971 REPORT N62474-98-D-2076 619	04-29-2004 **12-17-2004** 00103	SHAW ENVIRONMENTAL, INC. J. MCGUIRE BRAC PMO WEST	GROUNDWATER MONITORING REPORT, SUMMER 2003 TO SPRING 2004 (INCLUDES REPLACEMENT COVER, TITLE AND SIGNATURE PAGES THAT REFLECT SUMMER 2003 TO SPRING 2004) [PORTION OF THE MAILING LIST IS SENSITIVE; CD COPY OF APPENDICES A THROUGH E ENCLOSED]	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001 SITE 00032	FRC - PERRIS IMAGED APNT_017	181-08-0082 40095306 SAN	BOX 0018
N00236 / 000774 8836 AND BRAC SER BPMOW.CD/0238 REPORT N62474-98-D-2076 667	08-04-2003 **12-22-2004** 0078 & 0103	SHAW ENVIRONMENTAL, INC. J. MCGUIRE BRAC PMO WEST	GROUNDWATER MONITORING REPORT FOR INSTALLATION RESTORATION SITE 1, SUMMER 2002 TO SPRING 2003 (CD COPY OF APPENDICES A AND B ENCLOSED) [INCLUDES REPLACEMENT PAGES ISSUED ON DIFFERENT DATES WITH DIFFERENT DOCUMENT CONTROL NUMBERS] {***SEE COMMENTS}	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_026	181-03-0188 41031858	BOX 0016
N00236 / 001963 8836 & SWDIV SER BPMOW.CD\0238 REPORT N62474-98-D-2076 200	03-02-2005 **12-22-2004** 0078 & 0103	SHAW ENVIRONMENTAL, INC. J. MCGUIRE BRAC - SAN DIEGO	GROUNDWATER MONITORING REPORT FOR INSTALLATION RESTORATION SITE 1, SUMMER 2002 TO SPRING 2003 (DOCUMENT WAS ISSUED WITH REVISED SECTIONS 7 & 8 ONLY AND REPLACEMENT PAGES) [***SEE COMMENTS]	ADMIN RECORD INFO REPOSITORY	SITE 00001	NAVFAC SOUTHWEST - BLDG. 110		

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 001958 8974 & BRAC SER BPMOW.CD/0388 REPORT N62474-98-D-2076 54	02-16-2005 **02-10-2005** 00103	SHAW ENVIRONMENTAL, INC. BRAC PMO WEST	FALL 2004 TIDAL STUDY (INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA) [PORTION OF THE MAILING LIST IS SENSITIVE	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_003	181-08-0082 40095306 SAN	BOX 0028
N00236 / 003004 PROJECT NO. 02-125.11 REPORT N68711-02-D-8213 513	02-13-2008 **03-01-2005** 00016	INNOVATIVE TECHNICAL SOLUTIONS, INC. BRAC PMO WEST	FINAL FALL/WINTER 2004 QUARTERLY GROUNDWATER MONITORING DATA REPORT (INCLUDES ANALYTICAL DATA)	ADMIN RECORD	SITE 00001 SITE 00002 SITE 00003 GROUP SITE 00005 GROUP SITE 00006 SITE 00007 SITE 00008 SITE 00009 GROUP SITE 00014 SITE 00016 SITE 00025 GROUP SITE 00027 SITE 00028 SITE 00032	FRC - PERRIS IMAGED APNT_037	181-09-0008 30099217 SAN	BOX 0044 BOX 0045 BOX 0046 BOX 0047 BOX 0048 BOX 0049 BOX 0050 BOX 0051
N00236 / 001994 BRAC SER BPMOW.CD\0464 CORRESPONDENC NONE 3	03-14-2005 **03-02-2005** NONE	BRAC PMO WEST T. MACCHIARELLA U.S. EPA - SAN FRANCISCO M. RIPPERDA	REQUEST FOR A THIRTY DAY EXTENSION ON THE DRAFT RADIOLOGICAL SURVEY CHARACTERIZATION REPORT	ADMIN RECORD INFO REPOSITORY	OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_005	181-08-0082 40095306 SAN	BOX 0028

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 001993 BRAC SER BPMOW.CD\0462 CORRESPONDENC NONE 3	03-14-2005 **03-08-2005** NONE	BRAC PMO WEST T. MACCHIARELLA U.S. EPA - SAN FRANCISCO M. RIPPERDA	REQUEST FOR EXTENSION ON THE REVISED DRAFT FEASIBILITY STUDY REPORT	ADMIN RECORD INFO REPOSITORY	OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_005	181-08-0082 40095306 SAN	BOX 0028
N00236 / 001998 BRAC SER BPMOW.CD\0519 REPORT N68711-01-D-6009 236	03-23-2005 **03-11-2005** 00007	BATTELLE BRAC PMO WEST	FINAL EXPEDITED FIELD SAMPLING WORK PLAN [INCLUDES BRAC PMO WEST TRANSMITTAL LETTER BY T. MACCHIARELLA] {PORTION OF MAILING LIST IS CONFIDENTIAL, CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY SENSITIVE	015 SITE 00001	FRC - PERRIS IMAGED APNT_005	181-08-0082 40095306 SAN	BOX 0029
N00236 / 002039 CTO-0068/0066 & SWDIV SER BPMOW.CD/0684 REPORT N68711-95-D-7526 962	05-26-2005 **05-05-2005** 00068	BECHTEL ENVIRONMENTAL, INC. YAMANE, C. BRAC - SAN DIEGO	REVISED DRAFT FEASIBILITY STUDY REPORT, 1943 - 1956 DISPOSAL AREA - VOLUME I OF I, PART A AND B (CD COPY OF PART B TABLES IS ENCLOSED) [INCLUDES SWDIV TRANSMITTAL LETTER BY T. MACCHIARELLA] {PORTION OF THE MAILING LIST IS SENSITIVE} (***SEE COMMENTS)	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001	FRC - PERRIS IMAGED APNT_027	181-08-0082 40095306 SAN	BOX 0032
N00236 / 002716 NONE CORRESPONDENC NONE 2	03-22-2007 **05-23-2005** NONE	DTSC - BERKELEY LIAO, M. NAVFAC - SOUTHWEST DIVISION MACCHIARELLA, T.	REVIEW AND COMMENTS ON DRAFT RADIOLOGICAL CHARACTERIZATION SURVEY REPORTS [SEE AR # 2005 AND AR # 2009 - FINAL RADIOLOGICAL SURVEY REPORTS] {***SEE COMMENTS}	ADMIN RECORD	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_029	181-08-0082 40095306 SAN	BOX 0071
N00236 / 002062 NONE CORRESPONDENC NONE 30	07-14-2005 **05-24-2005** NONE	VARIOUS AGENCIES BRAC PMO WEST	COMPILATION OF AGENCY COMMENTS ON THE DRAFT INSTALLATION RESTORATION SITES AND RADIOLOGICAL CHARACTERIZATION SURVEY REPORT REVISION 0, INCLUDES RESPONSE TO COMMENTS (PORTION OF THE COMMENT - PRIVATE HOME ADDRESS IS SENSITIVE)	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_003	181-08-0082 40095306 SAN	BOX 0034

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N00236 / 002103 NONE CORRESPONDENC NONE 4	08-23-2005 **06-23-2005** NONE	DTSC - SACRAMENTO LANDIS, A. NAVFAC - SOUTHWEST DIVISION T. MACCHIARELLA	NO FURTHER ACTION (NFA) ON THE DRAFT RECORD OF DECISION (ROD) FOR SKEET RANGE (PORTION OF THE MAILING LIST IS SENSITIVE)	ADMIN RECORD INFO REPOSITORY SENSITIVE	029 SITE 00001	FRC - PERRIS IMAGED APNT_006	181-08-0082 40095306 SAN	BOX 0037
N00236 / 002492 NONE CORRESPONDENC NONE 4	08-28-2006 **07-01-2005** NONE	CITY OF ALAMEDA D. POTTER BRAC PMO WEST T. MACCHIARELLA	REVIEW AND COMMENTS ON REVISED DRAFT FEASIBILITY STUDY (FS) REPORT, 1943 - 1956 DISPOSAL AREA	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0004
N00236 / 002005 FSWD-RAC-05-1503 & BRAC SER BPM.CD\1024 REPORT N68711-98-D-5713 397	04-11-2005 **08-05-2005** 00087	TETRA TECH FW INC. STEPHAN, C. BRAC PMO WEST	FINAL INSTALLATION RESTORATION, RADIOLOGICAL CHARACTERIZATION SURVEY REPORT, REVISION 0, (REPLACEMENT PAGES ISSUED 06/30/05 CONVERTING DRAFT DATED 03/31/05 (SWDIVSER BPMOW.CD\0565) TO A DRAFT FINAL) [***SEE COMMENTS]	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001	NAVFAC SOUTHWEST - BLDG. 1 SW060907-03 IMAGED APNT_003		
N00236 / 002436 NONE CORRESPONDENC NONE 36	08-22-2006 **08-20-2005** NONE	DTSC - BERKELEY M. LIAO NAVFAC - SOUTHWEST DIVISION T. MACCHIARELLA	REVIEW AND COMMENTS ON REVISED DRAFT FEASIBILITY STUDY (FS) REPORT, 1943 -1956 DISPOSAL AREA (INCLUDES GSU COMMENTS DATED 12 AUGUST 2005, HERD COMMENTS DATED 08 AUGUST 2005 AND ESU COMMENTS DATED 15 JULY 2005)	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_025	181-03-0179 41074200	BOX 0025
N00236 / 002185 BRAC SER BPMOW.AB\1394 CORRESPONDENC NONE 3	01-05-2006 **11-15-2005** NONE	BRAC PMO WEST T. MACCHIARELLA USEPA - SAN FRANCISCO A. COOK	REQUEST FOR EXTENSION ON THE RESPONSES TO COMMENTS SUBMITTAL DATE FOR THE OPERABLE UNIT 3, SITE 1 AND ON THE DRAFT FINAL FEASIBILITY STUDY REPORT	ADMIN RECORD INFO REPOSITORY	OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_019	181-08-0082 40095306 SAN	BOX 0047

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N00236 / 002172 DS.B012.13729 & BRAC SER BPMOW.LAO\1417 REPORT N68711-03-D-5104 294	12-07-2005 **11-29-2005** 00012	SULTECH BRAC PMO WEST	DRAFT COMPILATION OF OUTSTANDING SOLID WASTE MANAGEMENT UNIT (SWMU) EVALUATION REPORTS, HAZARDOUS WASTE PERMIT EPA ID NUMBER CA 2170023236 (INCLUDES BRAC PMO WEST TRANSMITTAL LETTER BY T. MACCHIARELLA)	ADMIN RECORD INFO REPOSITORY	014 026 027 032 034 OU 1 OU 3 OU 4A OU 6 PARCEL 12 PARCEL 17 PARCEL 1A PARCEL 9 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_019	181-08-0082 40095306 SAN	BOX 0046
N00236 / 002193 CTO-0068/0099-1 & BRAC SER BPMOW.AB\0015 REPORT N68711-95-D-7526 1240	01-19-2006 **02-08-2006** 00068	BECHTEL ENVIRONMENTAL, INC. BRAC PMO WEST	FINAL FEASIBILITY STUDY REPORT, 1943-1956 DISPOSAL AREA, VOLUME I OF I, PART A & B (INCLUDES REPLACEMENT PAGES CONVERTING DRAFT FINAL DATED 1/12/2006 TO FINAL AND BRAC PMO WEST TRANSMITTAL LETTER BY T. MACCHIARELLA)	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001	FRC - PERRIS IMAGED APNT_019	181-08-0082 40095306 SAN	BOX 0048
N00236 / 002211 BRAC SER BPMOW.AB\0105 CORRESPONDENC NONE 5	02-14-2006 **02-13-2006** NONE	BRAC PMO WEST T. MACCHIARELLA VARIOUS AGENCIES	TRANSMITTAL OF FINAL FEASIBILITY STUDY REPORT , 1943-1956 DISPOSAL AREA (SEE AR # 2193 - FINAL FEASIBILITY STUDY REPORT, 1943-1956 DISPOSAL AREA) [PORTION OF THE MAILING LIST IS CONFIDENTIAL]	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001	FRC - PERRIS IMAGED APNT_018	181-08-0082 40095306 SAN	BOX 0048

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N00236 / 002963 PROJECT NO. 02-125.11 REPORT N68711-02-D-8213 2	01-07-2008 **03-01-2006** 00016	INNOVATIVE TECHNICAL SOLUTIONS, INC. BRAC PMO WEST	SUMMER 2005 QUARTERLY GROUNDWATER MONITORING DATA REPORT (INCLUDES ANALYTICAL DATA)	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002 SITE 00003 SITE 00005 SITE 00006 SITE 00007 SITE 00008 SITE 00009 SITE 00014 SITE 00016 SITE 00025 SITE 00027 SITE 00028 SITE 00032	FRC - PERRIS IMAGED APNT_035	181-08-0082 40095306 SAN	BOX 0090 BOX 0091 BOX 0092 BOX 0093 BOX 0094 BOX 0095 BOX 0096 BOX 0097
N00236 / 002264 NONE REPORT N68711-02-D-6009 81	04-10-2006 **03-29-2006** 00007	BATTELLE BRAC PMO WEST	FIELD SUMMARY REPORT, EXPEDITED FIELD SAMPLING (CD COPY ENCLOSED) [SEE AR #2265 - BRAC TRANSMITTAL LETTER BY T. MACCHIARELLA]	ADMIN RECORD INFO REPOSITORY	015 SITE 00001	FRC - PERRIS IMAGED APNT_006	181-08-0082 40095306 SAN	BOX 0050
N00236 / 002265 BRAC SER BPMOW.AB\0307 CORRESPONDENC NONE 4	04-10-2006 **03-29-2006** NONE	BRAC PMO WEST T. MACCHIARELLA VARIOUS AGENCIES	TRANSMITTAL OF FIELD SUMMARY REPORT, EXPEDITED FIELD SAMPLING (PORTION OF THE MAILING LIST IS CONFIDENTIAL) [SEE AR #2264 - FIELD SUMMARY REPORT, EXPEDITED FIELD SAMPLING]	ADMIN RECORD INFO REPOSITORY SENSITIVE	015 SITE 00001	FRC - PERRIS IMAGED APNT_006	181-08-0082 40095306 SAN	BOX 0050
N00236 / 001008 NOSSA SER N539/663 CORRESPONDENC NONE 2	08-07-2008 **04-24-2006** NONE	NAVAL ORDNANCE SAFETY & SECURITY ACTIVITY - INDIAN HEAD, MD CLEMENTS, P. BRAC PMO WEST	APPROVAL OF REQUEST FOR WAIVER OF EXPLOSIVE SAFETY SUBMISSION (ESS)	ADMIN RECORD	SITE 00001 SITE 00002	NAVFAC SOUTHWEST - BLDG. 1 SW-20090213-1/5 IMAGED APNT_043		

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N00236 / 002416 BRAC SER BPMOW.AB\0429 CORRESPONDENC NONE 4	08-21-2006 **05-15-2006** NONE	BRAC PMO WEST T. MACCHIARELLA VARIOUS AGENCIES	TRANSMITTAL OF DRAFT PROPOSED PLAN (PP), 1943-1956 DISPOSAL AREA (W/OUT ENCLOSURE) [SEE AR #2417 - DRAFT PP]	ADMIN RECORD	SITE 00001	FRC - PERRIS IMAGED APNT_016	181-03-0179 41074200	BOX 0025
N00236 / 002417 DS.B119.20632 REPORT N68711-03-D-5104 27	08-21-2006 **05-15-2006** 00119	TETRA TECH EM INC. S. BRADLEY BRAC PMO WEST	DRAFT PROPOSED PLAN, 1943 - 1956 DISPOSAL AREA (SEE AR #2416 - BRAC PMO WEST TRANSMITTAL LETTER BY T. MACCHIARELLA)	ADMIN RECORD	SITE 00001	FRC - PERRIS IMAGED APNT_016	181-03-0179 41074200	BOX 0025
N00236 / 002512 FILE NO. 2199.9285(JCH) CORRESPONDENC NONE 3	09-06-2006 **06-12-2006** NONE	CRWQCB - OAKLAND J. HUANG BRAC PMO WEST T. MACCHIARELLA	REVIEW AND COMMENTS ON DRAFT PROPOSED PLAN (PP), 1943 - 1956 DISPOSAL AREA (PORTION OF THE MAILING LIST IS SENSITIVE)	ADMIN RECORD SENSITIVE	SITE 00001	FRC - PERRIS IMAGED APNT_016	181-03-0179 41074200	BOX 0004
N00236 / 002511 NONE CORRESPONDENC NONE 4	09-06-2006 **06-22-2006** NONE	DTSC - SACRAMENTO LOFSTROM, D. BRAC PMO WEST T. MACCHIARELLA	REQUEST FOR THIRTY (30) DAY EXTENSION FOR REVIEW OF PROPOSED PLAN (PP), 1943 - 1956 DISPOSAL AREA (PORTION OF THE MAILING LIST IS SENSITIVE)	ADMIN RECORD SENSITIVE	SITE 00001	FRC - PERRIS IMAGED APNT_008	181-03-0179 41074200	BOX 0004
N00236 / 002514 NONE CORRESPONDENC NONE 3	09-06-2006 **07-18-2006** NONE	DTSC - SACRAMENTO LOFSTROM, D. BRAC PMO WEST T. MACCHIARELLA	REVIEW AND COMMENTS ON DRAFT PROPOSED PLAN (PP), 1943 - 1956 DISPOSAL AREA	ADMIN RECORD	SITE 00001	FRC - PERRIS IMAGED APNT_016	181-03-0179 41074200	BOX 0004

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N00236 / 002513 NONE CORRESPONDENC NONE 4	09-06-2006 **07-27-2006** NONE	CITY OF ALAMEDA D. POTTER BRAC PMO WEST T. MACCHIARELLA	REVIEW AND COMMENTS ON DRAFT PROPOSED PLAN (PP), 1943 - 1956 DISPOSAL AREA	ADMIN RECORD	SITE 00001	FRC - PERRIS IMAGED APNT_016	181-03-0179 41074200	BOX 0004
N00236 / 002497 NONE CORRESPONDENC NONE 4	08-29-2006 **08-09-2006** NONE	DTSC - SACRAMENTO LOFSTROM, D. BRAC PMO WEST T. MACCHIARELLA	REVIEW AND COMMENTS ON DRAFT PROPOSED PLAN (PP), 1943 - 1956 DISPOSAL AREA	ADMIN RECORD	SITE 00001	FRC - PERRIS IMAGED APNT_016	181-03-0179 41074200	BOX 0004
N00236 / 002419 DS.B119.20633 REPORT N68711-03-D-5104 39	08-21-2006 **08-11-2006** 00119	TETRA TECH EM INC. S. BRADLEY BRAC PMO WEST	DRAFT FINAL PROPOSED PLAN (PP), 1943 - 1956 DISPOSAL AREA (INCLUDES RESPONSE TO AGENCY AND RESPONSE TO CITY COMMENTS) [CD COPY ENCLOSED] {SEE AR #2418 - BRAC PMO WEST TRANSMITTAL LETTER BY T. MACCHIARELLA}	ADMIN RECORD	SITE 00001	FRC - PERRIS IMAGED APNT_016	181-03-0179 41074200	BOX 0025
N00236 / 002500 FILE NO. 06-0405 REPORT N62473-06-D-2201 19	08-29-2006 **08-11-2006** 00008	TETRA TECH EC INC. N. HART NAVFAC - SOUTHWEST DIVISION	FINAL VEGETATION CLEARANCE PLAN, RADIOLOGICAL SURVEY, AND SHORELINES (SEE AR #2499 - BRAC PMO WEST TRANSMITTAL LETTER BY T. MACCHIARELLA)	ADMIN RECORD INFO REPOSITORY	032 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_008	181-03-0179 41074200	BOX 0004
N00236 / 002418 BRAC SER BPMOW.AB\0692 CORRESPONDENC NONE 3	08-21-2006 **08-14-2006** NONE	BRAC PMO WEST T. MACCHIARELLA VARIOUS AGENCIES	TRANSMITTAL OF DRAFT FINAL PROPOSED PLAN (PP), 1943 - 1956 DISPOSAL AREA (W/OUT ENCLOSURE) [SEE AR #2419 - DRAFT FINAL PP]	ADMIN RECORD	SITE 00001	FRC - PERRIS IMAGED APNT_016	181-03-0179 41074200	BOX 0025

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N00236 / 003129 BRAC SER BPMOW.GL/0703 CORRESPONDENC NONE 6	05-21-2008 **08-14-2006** NONE	BRAC PMO WEST MACCHIARELLA, T. VARIOUS AGENCIES	TRANSMITTAL OF THE DRAFT FINAL AMENDMENT TO THE SITE MANAGEMENT PLAN (W/OUT ENCLOSURE)	ADMIN RECORD INFO REPOSITORY SENSITIVE	OU 0000001 OU 0000002A OU 0000004B OU 0000004C PARCEL EDC-12 PARCEL EDC-17 SITE 00001 SITE 00002 SITE 00014 SITE 00015 SITE 00024 SITE 00026 SITE 00030 SITE 00031 SITE 00034 SITE 00035	NAVFAC SOUTHWEST - BLDG. 1 SW-20090130-4/6 IMAGED APNT_043		
N00236 / 002501 ECSD-RACIV-06-0406 REPORT N62473-06-D-2201 544	08-29-2006 **08-22-2006** 00008	TETRA TECH EC INC. STEPHAN, C. BRAC PMO WEST	FINAL RADIOLOGICAL SURVEY WORK PLAN, RADIOLOGICAL SURVEY, AND SHORELINES (CD COPY ENCLOSED) [SEE AR #2499 - BRAC PMO WEST TRANSMITTAL LETTER BY T. MACCHIARELLA]	ADMIN RECORD INFO REPOSITORY	032 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_008	181-03-0179 41074200	BOX 0004
N00236 / 002499 BRAC SER BPMOW.AIB/0737 CORRESPONDENC NONE 2	08-29-2006 **08-23-2006** NONE	BRAC PMO WEST T. MACCHIARELLA VARIOUS AGENCIES	TRANSMITTAL OF 1) VEGETATION CLEARANCE PLAN, RADIOLOGICAL SURVEY AT SITE 32 AND SHORELINES AND 2) RADIOLOGICAL SURVEY WORK PLAN (WP), RADIOLOGICAL SURVEY, AND SHORELINES (W/OUT ENCLOSURES) [SEE AR #2500 - ENCLOSURE 1 AND AR #2501 - ENCLOSURE 2]	ADMIN RECORD INFO REPOSITORY	032 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_008	181-03-0179 41074200	BOX 0004
N00236 / 002582 DS.B119.20634 REPORT N68711-03-D-5104 31	10-31-2006 **09-01-2006** 00119	SULTECH S. BRADLEY NAVFAC - SOUTHWEST L. SILI	FINAL PROPOSED PLAN (PP), 1943-1956 DISPOSAL AREA (INCLUDES EPA RESPONSES TO COMMENTS ON DRAFT FINAL PP) [SEE AR #2581 - BRAC PMO WEST TRANSMITTAL LETTER]	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_027	181-08-0082 40095306 SAN	BOX 0061

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N00236 / 002517 BRAC SER BPMOW.AB\0765 CORRESPONDENC NONE 3	09-12-2006 **09-05-2006** NONE	BRAC PMO WEST T. MACCHIARELLA DTSC - SACRAMENTO D. LOFSTROM	RESPONSE TO DTSC LETTER DATED 9 AUGUST 2006, REGARDING DRAFT PROPOSED PLAN (PP), 1943 - 1956 DISPOSAL AREA	ADMIN RECORD	SITE 00001	FRC - PERRIS IMAGED APNT_008	181-03-0179 41074200	BOX 0004
N00236 / 002530 NONE CORRESPONDENC NONE 3	09-14-2006 **09-06-2006** NONE	DTSC - SACRAMENTO LOFSTROM, D. BRAC PMO WEST T. MACCHIARELLA	REVIEW AND COMMENTS ON DRAFT FINAL PROPOSED PLAN (PP), 1943 - 1956 DISPOSAL AREA	ADMIN RECORD	SITE 00001	FRC - PERRIS IMAGED APNT_016	181-03-0179 41074200	BOX 0005
N00236 / 002581 BRAC SER BPMOW.AB\0809 CORRESPONDENC NONE 3	10-31-2006 **09-27-2006** NONE	BRAC PMO WEST T. MACCHIARELLA VARIOUS AGENCIES	TRANSMITTAL OF FINAL PROPOSED PLAN (PP), 1943-1956 DISPOSAL AREA (W/OUT ENCLOSURE) [SEE AR #2582 - FINAL PP]	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_027	181-08-0082 40095306 SAN	BOX 0061
N00236 / 002565 BRAC SER BPMOW.AB/0014 CORRESPONDENC NONE 6	10-19-2006 **10-11-2006** NONE	BRAC PMO WEST T. MACCHIARELLA VARIOUS AGENCIES	TRANSMITTAL OF DRAFT ACTION MEMORANDUM (AM), CERCLA TIME-CRITICAL REMOVAL ACTION (TCRA) [W/OUT ENCLOSURE] {SEE AR #2566 - DRAFT AM}	ADMIN RECORD INFO REPOSITORY	032 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_008	181-03-0179 41074200	BOX 0007
N00236 / 002566 ECSD-RACIV-06-0443 REPORT N62473-06-D-2201 198	10-19-2006 **10-11-2006** 00015	TETRA TECH EC INC. NAVFAC - SOUTHWEST	DRAFT ACTION MEMORANDUM (AM), CERCLA TIME-CRITICAL REMOVAL ACTION (TCRA) [SEE AR #2565 - BRAC PMO WEST TRANSMITTAL LETTER BY T. MACCHIARELLA]	ADMIN RECORD INFO REPOSITORY	032 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_008	181-03-0179 41074200	BOX 0007

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N00236 / 002567 BRAC SER BPMOW.AB/0015 CORRESPONDENC NONE 7	10-19-2006 **10-11-2006** NONE	BRAC PMO WEST T. MACCHIARELLA VARIOUS AGENCIES	TRANSMITTAL OF DRAFT TIME-CRITICAL REMOVAL ACTION (TCRA) WORK PLAN (WP) [W/OUT ENCLOSURE] {PORTION OF THE MAILING LIST IS SENSITIVE} (SEE AR #2568 - DRAFT TCRA WP)	ADMIN RECORD INFO REPOSITORY SENSITIVE	032 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_008	181-03-0179 41074200	BOX 0007
N00236 / 002568 ECSD-RACIV-06-0442 REPORT N62473-06-D-2201 794	10-19-2006 **10-11-2006** 00015	TETRA TECH EC, INC. ELOSKOF, A. BRAC PMO WEST	DRAFT TIME-CRITICAL REMOVAL ACTION (TCRA) WORK PLAN (WP) [SEE AR #2567 - BRAC PMO WEST TRANSMITTAL LETTER BY T. MACCHIARELLA]	ADMIN RECORD INFO REPOSITORY	032 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_008	181-03-0179 41074200	BOX 0007
N00236 / 002617 FILE NO. 2199.9285(EWS) CORRESPONDENC NONE 4	11-22-2006 **11-07-2006** NONE	CRWQCB - OAKLAND E. SIMON BRAC PMO WEST T. MACCHIARELLA	REVIEW AND COMMENTS ON DRAFT ACTION MEMORANDUM (AM) FOR CERCLA TIME-CRITICAL REMOVAL ACTION (TCRA)	ADMIN RECORD INFO REPOSITORY	032 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_028	181-08-0082 40095306 SAI	BOX 0061
N00236 / 002628 NONE CORRESPONDENC NONE 1	12-14-2006 **11-08-2006** NONE	DHS - SACRAMENTO P. LEINWANDER DTSC - SACRAMENTO D. LOFSTROM	REVIEW AND NO COMMENTS ON DRAFT ACTION MEMORANDUM (AM) FOR CERCLA TIME-CRITICAL REMOVAL ACTION (TCRA)	ADMIN RECORD INFO REPOSITORY	032 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_028	181-08-0082 40095306 SAI	BOX 0062
N00236 / 002625 NONE CORRESPONDENC NONE 4	12-08-2006 **11-09-2006** NONE	CITY OF ALAMEDA D. POTTER BRAC PMO WEST T. MACCHIARELLA	REVIEW AND COMMENTS ON FINAL PROPOSED PLAN (PP), 1943 - 1956 DISPOSAL AREA	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_028	181-08-0082 40095306 SAI	BOX 0062

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 003165 NONE CORRESPONDENC NONE 15	06-04-2008 **11-10-2006** NONE	PM STRAUSS & ASSOCIATES STRAUSS, P. BRAC PMO WEST MACCHIARELLA, T.	COMMENTS ON THE PROPOSED PLAN (INCLUDES COMMENTS ON BEHALF OF THE ALAMEDA POINT RESTORATION ADVISORY BOARD DATED 06 NOVEMBER 2006)	ADMIN RECORD INFO REPOSITORY	SITE 00001	NAVFAC SOUTHWEST - BLDG. 1 SW-20090130-5/6 IMAGED APNT_042		
N00236 / 003166 NONE CORRESPONDENC NONE 4	06-04-2008 **11-10-2006** NONE	RAB CO-CHAIR HUMPHREYS, G. BRAC PMO WEST MACCHIARELLA, T.	RESPONSE TO COMMENTS ON THE PROPOSED PLAN	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001	NAVFAC SOUTHWEST - BLDG. 1 SW-20090130-5/6 IMAGED APNT_042		
N00236 / 002677 NONE CORRESPONDENC NONE 11	01-29-2007 **11-13-2006** NONE	DTSC - SACRAMENTO LOFSTROM, D. BRAC PMO WEST T. MACCHIARELLA	REVIEW AND COMMENTS ON DRAFT ACTION MEMORANDUM (AM) TIME CRITICAL REMOVAL ACTION (TCRA) WORK PLAN	ADMIN RECORD INFO REPOSITORY	032 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_028	181-08-0082 40095306 SAN	BOX 0063
N00236 / 002629 NONE CORRESPONDENC NONE 3	12-14-2006 **11-17-2006** NONE	DHS - SACRAMENTO P. LEINWANDER DTSC - SACRAMENTO D. LOFSTROM	REVIEW AND COMMENTS ON DRAFT TIME-CRITICAL REMOVAL ACTION (TCRA)	ADMIN RECORD INFO REPOSITORY	032 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_028	181-08-0082 40095306 SAN	BOX 0062
N00236 / 002678 NONE CORRESPONDENC NONE 10	01-29-2007 **12-22-2006** NONE	DTSC - SACRAMENTO LOFSTROM, D. BRAC PMO WEST T. MACCHIARELLA	REVIEW AND COMMENTS ON DRAFT TIME CRITICAL REMOVAL ACTION (TCRA) WORK PLAN (PORTION OF THE MAILING LIST IS SENSITIVE)	ADMIN RECORD INFO REPOSITORY SENSITIVE	032 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_028	181-08-0082 40095306 SAN	BOX 0063

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 002979 NONE CORRESPONDENC NONE 4	01-24-2008 **12-27-2006** NONE	DTSC - SACRAMENTO, CA LOFSTROM, D. BRAC PMO WEST MACCHIARELLA, T.	COMMENTS ON THE DRAFT SPRING 2006, ALAMEDA BASEWIDE, ANNUAL GROUNDWATER MONITORING REPORT	ADMIN RECORD SENSITIVE	SITE 00001 SITE 00002 SITE 00003 SITE 00005 SITE 00006 SITE 00007 SITE 00008 SITE 00009 SITE 00014 SITE 00016 SITE 00027 SITE 00028 SITE 00032	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-2/8 IMAGED APNT_039		
N00236 / 002741 TC.B130.12389 MINUTES N68711-03-D-5104 100	04-25-2007 **01-23-2007** 00130	SULTECH NAVFAC - SOUTHWEST DIVISION	23 JANUARY 2007 BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) FINAL MONTHLY TRACKING MEETING MINUTES AFTER ACTION REPORT (INCLUDES AGENDA, HANDOUT MATERIALS, AND VARIOUS ATTACHMENTS)	ADMIN RECORD INFO REPOSITORY	OU 00001 OU 00005 OU 0002A OU 0002B SITE 00001 SITE 00002 SITE 00004 SITE 00005 SITE 00032	FRC - PERRIS IMAGED APNT_032	181-08-0082 40095306 SAN	BOX 0079
N00236 / 002705 BRAC SER BPMOW.AB/0282 CORRESPONDENC NONE 3	03-14-2007 **01-26-2007** NONE	BRAC PMO WEST MACCHIARELLA, T. VARIOUS AGENCIES	REQUEST FOR THIRTY (30) DAY EXTENSION ON THE SUBMITTAL OF DRAFT RECORD OF DECISION (ROD)	ADMIN RECORD INFO REPOSITORY	OU 3 SITE 00001	FRC - PERRIS IMAGED APNT_030	181-08-0082 40095306 SAN	BOX 0065
N00236 / 002689 BRAC SER BPMOW.AB/0284 CORRESPONDENC NONE 2	02-08-2007 **01-31-2007** NONE	BRAC PMO WEST T. MACCHIARELLA VARIOUS AGENCIES	TRANSMITTAL OF FINAL ACTION MEMORANDUM (AM), CERCLA TIME-CRITICAL REMOVAL ACTION (TCRA) [W/OUT ENCLOSURE] {SEE AR #2690 - FINAL ACTION MEMORANDUM}	ADMIN RECORD INFO REPOSITORY	032 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_028	181-08-0082 40095306 SAN	BOX 0063

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 002690 07-0231 REPORT N62473-06-D-2201 229	02-08-2007 **01-31-2007** 00015	TETRA TECH EC, INC. BRAC PMO WEST	FINAL ACTION MEMORANDUM (AM), CERCLA TIME-CRITICAL REMOVAL ACTION (TCRA) [INCLUDES RESPONSES TO COMMENTS ON DRAFT ACTION MEMORANDUM AND CD COPY] {SEE AR #2689 - BRAC PMO WEST TRANSMITTAL LETTER}***SEE COMMENTS	ADMIN RECORD INFO REPOSITORY	032 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_028	181-08-0082 40095306 SAN	BOX 0063
N00236 / 002691 BRAC SER BPMOW.AB/0283 CORRESPONDENC NONE 2	02-08-2007 **01-31-2007** NONE	BRAC PMO WEST T. MACCHIARELLA VARIOUS AGENCIES	TRANSMITTAL OF DRAFT FINAL TIME-CRITICAL REMOVAL ACTION (TCRA) WORK PLAN [W/OUT ENCLOSURE] {SEE AR #2692 - DRAFT FINAL TCRA WORK PLAN}	ADMIN RECORD INFO REPOSITORY	032 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_028	181-08-0082 40095306 SAN	BOX 0063
N00236 / 002965 NO. 02-125.11.06 REPORT N68711-02-D-8213 1493	01-07-2008 **02-01-2007** 00016	INNOVATIVE TECHNICAL SOLUTIONS, INC. LEONARD, K. BRAC PMO WEST	FINAL SPRING 2006 BASEWIDE ANNUAL GROUNDWATER MONITORING REPORT, VOLUMES 1 AND 2 OF 2 (INCLUDES ANALYTICAL DATA, CD COPY, AND RESPONSE TO COMMENTS ON THE DRAFT) {***SEE COMMENTS***}	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002 SITE 00003 SITE 00005 SITE 00006 SITE 00007 SITE 00008 SITE 00009 SITE 00014 SITE 00016 SITE 00027 SITE 00028 SITE 00032	FRC - PERRIS IMAGED APNT_033	181-08-0082 40095306 SAN	BOX 0097 BOX 0098 BOX 0099 BOX 0100 BOX 0101 BOX 0102
N00236 / 002695 BRAC SER BPMOW.AB/0333 CORRESPONDENC NONE 2	02-27-2007 **02-07-2007** NONE	BRAC PMO WEST T. MACCHIARELLA NAVAL ORDNANCE SAFETY & SECURI	TRANSMITTAL OF FINAL EXPLOSIVES SAFETY SUBMISSION (ESS) [W/OUT ENCLOSURE] {SEE AR #2696 - FINAL ESS}	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_028	181-08-0082 40095306 SAN	BOX 0064

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N00236 / 002696 07-0327 REPORT N62473-06-D-2201 100	02-27-2007 **02-07-2007** 00015	TETRA TECH EC, INC. ELOSKOF, A. BRAC PMO WEST	FINAL EXPLOSIVES SAFETY SUBMISSION (ESS) [SEE AR #2695 - BRAC PMO WEST TRANSMITTAL LETTER, AR# 2750 - REVISION 1, AR# 2775 - REVISION 2, AND AR# 2797 - REVISION 3] {***SEE COMMENTS}	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_028	181-08-0082 40095306 SAN	BOX 0064
N00236 / 002708 BRAC SER BPMOW.AB/0392 CORRESPONDENC NONE 3	03-14-2007 **02-26-2007** NONE	BRAC PMO WEST MACCHIARELLA, T. VARIOUS AGENCIES	REQUEST FOR EXTENSION OF THE SUBMITTAL OF THE DRAFT RECORD OF DECISION	ADMIN RECORD INFO REPOSITORY	OU 0003 SITE 00001	FRC - PERRIS IMAGED APNT_030	181-08-0082 40095306 SAN	BOX 0065
N00236 / 002987 NONE CORRESPONDENC NONE 5	01-28-2008 **02-27-2007** NONE	DTSC - SACRAMENTO, CA LOFSTROM, D. BRAC PMO WEST MACCHIARELLA, T.	REVIEW AND COMMENTS ON THE DRAFT SPRING 2006, ANNUAL GROUNDWATER MONITORING REPORT	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001 SITE 00002 SITE 00003 SITE 00005 SITE 00006 SITE 00007 SITE 00008 SITE 00009 SITE 00014 SITE 00016 SITE 00027 SITE 00028 SITE 00032	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-2/8 IMAGED APNT_039		
N00236 / 002692 ECSD-RACIV-07-0232 & 0748 REPORT N62473-06-D-2201 814	02-08-2007 **03-02-2007** 00015	TETRA TECH EC, INC. ELOSKOF, A. BRAC PMO WEST	FINAL TIME-CRITICAL REMOVAL ACTION (TCRA) WORK PLAN (INCLUDES REPLACEMENT PAGES CONVERTING DRAFT FINAL DATED 31 JANUARY 2007 TO FINAL, RESPONSES TO COMMENTS ON DRAFT TCRA WORK PLAN, AND A CD COPY) [***SEE COMMENTS.]	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002 SITE 00032	FRC - PERRIS IMAGED APNT_028	181-08-0082 40095306 SAN	BOX 0063

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 002750 07-0327-1 REPORT N62473-06-D-2201 98	05-07-2007 **03-02-2007** 00015	TETRA TECH EC, INC. BRAC PMO WEST	FINAL EXPLOSIVES SAFETY SUBMISSION, REVISION 1 (SEE AR# 2696 FINAL EXPLOSIVES SAFEETY SUBMISSION AND AR# 2775 - REVISION 2)	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_028	181-08-0082 40095306 SAN	BOX 0080
N00236 / 002825 BRAC SER BPMOW.AB/0390 CORRESPONDENC NONE 6	09-07-2007 **03-02-2007** NONE	BRAC PMO WEST T. MACCHIARELLA VARIOUS AGENCIES	TRANSMITTAL OF FINAL TIME-CRITICAL REMOVAL ACTION (TCRA) WORK PLAN (W/OUT ENCLOSURE) [SEE AR# 2692 - FINAL TCRA WORK PLAN] {PORTION OF THE MAILING LIST IS SENSITIVE}	ADMIN RECORD INFO REPOSITORY SENSITIVE	032 SITE 00001 SITE 00002	FRC - PERRIS IMAGED APNT_028	181-08-0082 40095306 SAN	BOX 0086
N00236 / 002775 07-0327.R2 REPORT N62473-06-D-2201 48	06-04-2007 **03-09-2007** 00015	TETRA TECH EC, INC. ELOSKOF, A. BRAC PMO WEST	FINAL EXPLOSIVE SAFETY SUBMISSION, REVISION 2 (SEE AR# 2696 - FINAL EXPLOSIVES SAFETY SUBMISSION AND AR# 2750 - REVISION 1)	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_028	181-08-0082 40095306 SAN	BOX 0081
N00236 / 002802 SER N539/418 CORRESPONDENC NONE 2	08-02-2007 **03-15-2007** NONE	NAVAL ORDNANCE SAFETY & SECURITY ACTIVITY - INDIAN HEAD CLEMENTS, P. BRAC PMO WEST	REVIEW AND CONCURRENCE ON THE EXPLOSIVES SAFETY SUBMISSION (ESS) INTERIM APPROVAL [SEE AR # 2696 - FINAL EXPLOSIVES SAFETY SUBMISSION INTERIM APPROVAL]	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_045	181-08-0082 40095306 SAN	BOX 0082
N00236 / 002761 DS.B119.20636 REPORT N68711-03-D-5104 390	05-18-2007 **04-01-2007** 00119	SULTECH BRAC PMO WEST	DRAFT RECORD OF DECISION (ROD), 1943-1956 DISPOSAL AREA (CD COPY ENCLOSED)	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_030	181-08-0082 40095306 SAN	BOX 0080

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)	
N00236 / 002760 BRAC SER BPMOW.AB/0467 CORRESPONDENC NONE 4	05-18-2007 **04-11-2007** NONE	BRAC PMO WEST MACCHIARELLA, T. VARIOUS AGENCIES	TRANSMITTAL OF DRAFT RECORD OF DECISION (ROD), 1943-1956 DISPOSAL AREA (W/OUT ENCLOSURE) [SEE AR #2761 - DRAFT RECORD OF DECISION]	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_030	181-08-0082 40095306 SAN	BOX 0080
N00236 / 002985 NONE CORRESPONDENC NONE 24	01-28-2008 **05-08-2007** NONE	DTSC - SACRAMENTO, CA GOSS, S. BRAC PMO WEST MACCHIARELLA, T.	REVIEW AND COMMENTS ON THE DRAFT SITE INSPECTION REPORT, WESTERN BAYSIDE AND BREAKWATER BEACH (INCLUDES GSU COMMENTS DATED 27 APRIL 2007, DEPT. OF FISH AND GAME COMMENTS DATED 11 MAY 2007, AND HERD COMMENTS DATED 07 MAY 2007)	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001 SITE 00002	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-2/8 IMAGED APNT_039		
N00236 / 002929 SER N539/823 CORRESPONDENC NONE 7	11-05-2007 **05-22-2007** NONE	NAVAL ORDNANCE SAFETY AND SECURITY ACTIVITY (NOSSA) CLEMENTS, P. BRAC PMO WEST	NAVAL ORDNANCE SAFETY AND SECURITY ACTIVITY (NOSSA) AUDIT REPORT OF THE MUNITIONS RESPONSE PROJECT	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_032	181-08-0082 40095306 SAN	BOX 0088
N00236 / 002805 NONE CORRESPONDENC NONE 2	08-02-2007 **06-13-2007** NONE	DTSC - SACRAMENTO LOFSTROM, D. BRAC PMO WEST MACCHIARELLA, T.	REQUEST FOR THIRTY DAY EXTENSION FOR REVIEW OF DRAFT RECORD OF DECISION, 1943-1956 DISPOSAL AREAS [SEE AR # 2761 - DRAFT RECORD OF DECISION]	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_031	181-08-0082 40095306 SAN	BOX 0082
N00236 / 002797 ECSD-RACIV-07-0327.R3 REPORT N62473-06-D-2201 11	08-02-2007 **06-18-2007** 00015	BRAC PMO WEST ELOSKOF, A. TETRA TECH EC, INC.	FINAL EXPLOSIVES SAFETY SUBMISSION (ESS), REVISION 3 (SEE AR # 2796 - BRAC PMOW TRANSMITTAL LETTER AND 2696 - FINAL EXPLOSIVES SAFETY SUBMISSION] [CD COPY IS ENCLOSED]	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_045	181-08-0082 40095306 SAN	BOX 0082

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N00236 / 001408 SULT-5104-0012-0002 REPORT N68711-03-D-5104 694	08-29-2008 **06-22-2007** CTO 0012	SULTECH HUNTER, C. BRAC PMO WEST	INFORMATIONAL DRAFT - COMPENDIUM OF SOLID WASTE MANAGEMENT UNIT (SWMU) EVALUATION REPORTS, HAZARDOUS WASTE PERMIT 2170023236 (CD COPY ENCLOSED)	SITE FILE (SF)	OU 0000001 OU 0000002A OU 0000002B OU 0000002C OU 0000003 OU 0000004A OU 0000006 PARCEL 001A PARCEL 003 PARCEL 005 PARCEL 009 PARCEL 012 PARCEL 017 SITE 00001 SITE 00002 SITE 00003 SITE 00004 SITE 00005 SITE 00006 SITE 00007 SITE 00008 SITE 00009 SITE 00010 SITE 00011 SITE 00012 SITE 00013 SITE 00014 SITE 00019 SITE 00021 SITE 00022 SITE 00023 SITE 00026 SITE 00027 SITE 00032 SITE 00034	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-2/8 IMAGED APNT_039	

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N00236 / 002803 FILE: 2199.9285(EWS) CORRESPONDENC NONE 5	08-02-2007 **07-10-2007** NONE	CRWQCB - OAKLAND SIMON, E. BRAC PMO WEST MACCHIARELLA, T.	COMMENTS ON THE DRAFT RECORD OF DECISION, 1943-1956 DISPOSAL AREA [SEE AR # 2761 - DRAFT RECORD OF DECISION]	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_031	181-08-0082 BOX 0082 40095306 SAN
N00236 / 002930 NONE CORRESPONDENC NONE 8	11-05-2007 **07-10-2007** NONE	US EPA - SAN FRANCISCO TRAN, X. BRAC PMO WEST MACCHIARELLA, T.	REQUEST FOR A 30-DAY EXTENSION FOR THE REVIEW PERIOD OF THE DRAFT RECORD OF DECISION (INCLUDES DRAFT COMMENTS) [SEE AR # 2761 - RECORD OF DECISION]	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_031	181-08-0082 BOX 0088 40095306 SAN
N00236 / 002928 BRAC SER BPMOW.VCW/0018 CORRESPONDENC NONE 3	11-05-2007 **07-16-2007** NONE	BRAC PMO WEST DUCHNAK, L. NAVAL ORDNANCE SAFETY AND SECURITY ACTIVITY	RESPONSE TO THE NAVAL ORDNANCE SAFETY & SECURITY ACTIVITY (NOSSA) AUDIT REPORT FOR THE TIME-CRITICAL REMOVAL ACTION (TCRA) WORK PLAN [SEE AR # 2692 - FINAL TIME-CRITICAL RA WORK PLAN] (SEE COMMENTS)	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002 SITE 00032	FRC - PERRIS IMAGED APNT_045	181-08-0082 BOX 0088 40095306 SAN
N00236 / 002796 BRAC SER BPMOW.AB/0678 CORRESPONDENC NONE 2	08-02-2007 **07-18-2007** NONE	BRAC PMO WEST MACCHIARELLA, T. NAVAL ORDNANCE SAFETY AND SECURITY ACTIVITY	TRANSMITTAL OF FINAL EXPLOSIVES SAFETY SUBMISSION (ESS), REVISION 3 (W/OUT ENCLOSURE) [SEE AR # 2797 - FINAL EXPLOSIVES SAFETY SUBMISSION (ESS), REVISION 3]	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_045	181-08-0082 BOX 0082 40095306 SAN
N00236 / 002812 ECSD-2201-0015-0001 REPORT N62473-06-D-2201 18	08-20-2007 **08-08-2007** 00015	TETRA TECH EM INC. G. JOYCE BRAC PMO WEST	DRAFT ADDENDUM 1 TO THE FINAL SAMPLING AND ANALYSIS PLAN (FIELD SAMPLING PLAN QUALITY ASSURANCE PROJECT PLAN) {CD COPY ENCLOSED} [SEE RA # 2692 - FINAL TIME-CRITICAL REMOVAL ACTION WORK PLAN]	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002 SITE 00032	FRC - PERRIS IMAGED APNT_034	181-08-0082 BOX 0082 40095306 SAN

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N00236 / 002840 SULT.5104.0130.004 2 REPORT N68711-03-D-5104 23	09-17-2007 **08-08-2007** 00130	SULTECH HUNTER, C. BRAC PMO WEST	APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) TEMPLATE (CD COPY IS ENCLOSED)	ADMIN RECORD INFO REPOSITORY	OU 0001 SITE 00001 SITE 00002 SITE 00005 SITE 00006 SITE 00008 SITE 00010 SITE 00011 SITE 00012 SITE 00014 SITE 00015 SITE 00017 SITE 00020 SITE 00021 SITE 00024 SITE 00026 SITE 00027 SITE 00028 SITE 00029 SITE 00032 SITE 00034 SITE 00035	FRC - PERRIS IMAGED APNT_045	181-08-0082 40095306 SAN	BOX 0086
N00236 / 002938 NONE CORRESPONDENC NONE 17	11-07-2007 **08-16-2007** NONE	DTSC - SACRAMENTO LOFSTROM, D. BRAC PMO WEST MACCHIARELLA, T.	REVIEW AND COMMENTS ON DRAFT RECORD OF DECISION (ROD) 1943 - 1956 DISPOSAL AREA (INCLUDES DTSC OFFICE OF MILITARY FACILITIES COMMENTS AND DPH COMMENTS DATED 06 JULY 2007) [SEE AR # 2761 - DRAFT ROD]	ADMIN RECORD INFO REPOSITORY	SITE 00001	FRC - PERRIS IMAGED APNT_031	181-08-0082 40095306 SAN	BOX 0088
N00236 / 002817 ECSD-2201-0015- 0002 REPORT N62473-06-D-2201 18	08-24-2007 **08-20-2007** 00015	TETRA TECH EM INC. WEINGARDT, K. BRAC PMO WEST	DRAFT ADDENDUM TO THE FINAL TIME-CRITICAL REMOVAL ACTION WORK PLAN (CD COPY ENCLOSED) [SEE AR #2692 - FINAL TIME-CRITICAL REMOVAL ACTION WORK PLAN]	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002 SITE 00032	FRC - PERRIS IMAGED APNT_032	181-08-0082 40095306 SAN	BOX 0084

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N00236 / 002948 BRAC SER BPMOW.ALB/0805 CORRESPONDENC NONE 5	11-14-2007 **08-28-2007** NONE	BRAC PMO WEST MACCHIARELLA, T. VARIOUS AGENCIES	TRANSMITTAL OF FINAL ADDENDUM TO THE FINAL TIME-CRITICAL REMOVAL ACTION WORK PLAN (W/OUT ENCLOSURE) [SEE AR # 2949 - FINAL ADDENDUM] {PORTION OF MAILING LIST IS SENSITIVE}	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001 SITE 00002 SITE 00032	FRC - PERRIS IMAGED APNT_032	181-08-0082 BOX 0089 40095306 SAN
N00236 / 002949 ECSD-2201-0015-0003 REPORT N62473-06-D-2201 25	11-14-2007 **08-30-2007** 00015	TETRA TECH EC INC. WEINGARDT, K. BRAC PMO WEST	FINAL ADDENDUM TO THE FINAL TIME-CRITICAL REMOVAL ACTION WORK PLAN (CD COPY ENCLOSED) [SEE AR # 2948 - BRAC PMOW TRANSMITTAL LETTER AND AR # 2692 - FINAL TIME-CRITICAL REMOVAL ACTION WORK PLAN]	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002 SITE 00032	FRC - PERRIS IMAGED APNT_032	181-08-0082 BOX 0089 40095306 SAN
N00236 / 002933 NONE CORRESPONDENC NONE 1	11-05-2007 **09-17-2007** NONE	US EPA - SAN FRANCISCO MONTGOMERY, M. BRAC PMO WEST MACCHIARELLA, T.	REVIEW OF AND CONCURRENCE WITH THE TIME CRITICAL REMOVAL ACTION MEMORANDUM (SEE AR #2690 - FINAL ACTION MEMORANDUM)	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002 SITE 00032	FRC - PERRIS IMAGED APNT_032	181-08-0082 BOX 0088 40095306 SAN

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N00236 / 002968 SULT.5104.0130.005 2 MINUTES N68711-03-D-5104 61	01-09-2008 **09-18-2007** 00130	SULTECH BRAC PMO WEST	18 SEPTEMBER 2007 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT), MONTHLY TRACKING MEETING, AFTER ACTION REPORT (CD COPY ENCLOSED)	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002 SITE 00003 SITE 00004 SITE 00005 SITE 00006 SITE 00007 SITE 00008 SITE 00009 SITE 00010 SITE 00011 SITE 00012 SITE 00013 SITE 00014 SITE 00016 SITE 00017 SITE 00019 SITE 00020 SITE 00021 SITE 00022 SITE 00023 SITE 00024 SITE 00025 SITE 00026 SITE 00027 SITE 00028 SITE 00030 SITE 00031 SITE 00032 SITE 00034 SITE 00035	FRC - PERRIS IMAGED APNT_034	181-08-0082 BOX 0103 40095306 SAN

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N00236 / 002966 BRAC SER BPMOW.AB/0859 CORRESPONDENC NONE 6	01-07-2008 **09-28-2007** NONE	BRAC PMO WEST MACCHIARELLA, T. VARIOUS AGENCIES	TRANSMITTAL OF RADIOLOGICAL CHARACTERIZATION REPORT SURVEY, RADIOLOGICAL SURVEY AT THE SHORELINES (W/OUT ENCLOSURE) [PORTION OF MAILING LIST IS SENSITIVE]	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001 SITE 00002 SITE 00032	CHOICE IMAGING SOLUTIONS SW-20090213-5/5 IMAGED APNT_045		
N00236 / 002967 ECSD-2201-0008-0001 REPORT N62473-06-D-2201 478	01-07-2008 **09-28-2007** 00008	TETRA TECH EC, INC. ELOSKOF, A. BRAC PMO WEST	RADIOLOGICAL CHARACTERIZATION SURVEY REPORT, RADIOLOGICAL SURVEY AT THE SHORELINES (CD COPY ENCLOSED)	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002 SITE 00032	FRC - PERRIS IMAGED APNT_033	181-08-0082 40095306 SAN	BOX 0103
N00236 / 003159 ECSD-RACIV-07-0748.A1 REPORT N62473-06-D-2201 18	06-03-2008 **10-17-2007** CTO 0015	TETRA TECH EC, INC. JOYCE, G. BRAC PMO WEST	FINAL ADDENDUM 1 TO THE FINAL SAMPLING AND ANALYSIS PLAN (FIELD SAMPLING PLAN AND QUALITY ASSURANCE PROJECT PLAN) [CD COPY ENCLOSED] (SEE COMMENTS.)	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002 SITE 00032	NAVFAC SOUTHWEST - BLDG. 1 SW-20090130-5/6 IMAGED APNT_042		
N00236 / 002905 ECSD-2201-0015-0004 REPORT N62473-06-D-2201 69	10-25-2007 **10-19-2007** 00015	TETRA TECH EM INC. WEINGARDT, K. BRAC PMO WEST	DRAFT SUMMARY OF FINDINGS EXPLORATORY TRENCHES (CD COPY ENCLOSED) [APPENDIX B VIDEO LOG IS ON CD ONLY]	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002 SITE 00032	FRC - PERRIS IMAGED APNT_032	181-08-0082 40095306 SAN	BOX 0088
N00236 / 002973 SULT.5104.0130.005 6 MINUTES N68711-03-D-5104 47	01-11-2008 **11-01-2007** 00130	SULTECH BRAC PMO WEST	01 NOVEMBER 2007 FINAL RESTORATION ADVISORY BOARD MEETING SUMMARY (INCLUDES AGENDA AND VARIOUS HANDOUTS) [CD COPY ENCLOSED]	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00003 SITE 00005 SITE 00010	FRC - PERRIS IMAGED APNT_034	181-08-0082 40095306 SAN	BOX 0103

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N00236 / 003106 SULT-5104-0130-0058 MINUTES N68711-03-D-5104 14	05-01-2008 **11-20-2007** DO 0130	SULTECH PEARSON, L. BRAC PMO WEST BROOKS, P.	20 NOVEMBER 2007 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT (INCLUDES AGENDA AND VARIOUS HANDOUTS) [CD COPY ENCLOSED]	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002 SITE 00031 SITE 00032 SITE 00035	NAVFAC SOUTHWEST - BLDG. 1 SW080523-10 IMAGED APNT_035	
N00236 / 003148 BRAC SER BPMOW.DR/0166 CORRESPONDENC NONE 3	05-30-2008 **12-18-2007** NONE	BRAC PMO WEST MACCHIARELLA, T. VARIOUS AGENCIES	FEDERAL FACILITY AGREEMENT (FFA) EXTENSION REQUEST FOR THE DRAFT RECORD OF DECISION REPORT AND RESPONSES TO COMMENTS	ADMIN RECORD INFO REPOSITORY	OU 0000003 SITE 00001	NAVFAC SOUTHWEST - BLDG. 1 SW-20090130-4/6 IMAGED APNT_042	

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N00236 / 003081 BEI-7526-0088-0032 & BEI-7526-0088-0032-1 REPORT N68711-95-D-7526 627	04-21-2008 **01-01-2008** CTO 0088	BECHTEL ENVIRONMENTAL, INC. HARRIS, V. BRAC PMO WEST	FINAL FEASIBILITY STUDY (FS) REPORT, NORTHWESTERN ORDINANCE STORAGE AREA (INCLUDES REPLACEMENT PAGES CONVERTING THE DRAFT FINAL DATED 01 DECEMBER 2007 TO FINAL AND CD COPY) {REPLACEMENT PAGES ISSUED ON 01 JANUARY 2008}	ADMIN RECORD INFO REPOSITORY SENSITIVE	BLDG 00082 BLDG 00497 BLDG 00594 OU 0000001 OU 0000002 PARCEL 005D PARCEL 005E PARCEL 008A PARCEL C SITE 00001 SITE 00002 SITE 00009 SITE 00011 SITE 00014 SITE 00016 SITE 00021 SITE 00032 UST 0594-1 UST 0594-2 WELL IR32-MW-01 WELL IR32-MW-02 WELL IR32-MW-03 WELL IR32-MW-04 WELL IR32-MW-05 WELL M003-A WELL M003-B WELL M005-A WELL M030-A WELL M030-C WELL M032-A	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-4/8 IMAGED APNT_039	

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N00236 / 003030 BATL-6009-0020-0002 REPORT N68711-01-D-6009 1344	03-11-2008 **03-01-2008** CTO 0020	BATTELLE ROSANSKY, S. NAVFAC - SOUTHWEST PECK, S.	DRAFT FINAL REMEDIAL DESIGN/REMEDIAL ACTION WORK PLAN (CD COPY ENCLOSED) [INCLUDES RESPONSE TO COMMENTS ON THE PRELIMINARY REMEDIAL DESIGN DRAFT REMEDIAL ACTION WORK PLAN DATED 14 AUGUST 2007] {SEE COMMENTS}	ADMIN RECORD INFO REPOSITORY SITE FILE (SF)	BLDG 00020 BLDG 00021 BLDG 00022 BLDG 00023 BLDG 00024 SITE 00001 SITE 00005 SITE 00026	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-3/8 IMAGED APNT_039	
N00236 / 003036 BRAC SER BPMOW.DR/0327 CORRESPONDENC NONE 5	03-20-2008 **03-13-2008** NONE	BRAC PMO WEST MACCHIARELLA, T. VARIOUS AGENCIES	TRANSMITTAL OF THE FINAL SUMMARY OF FINDINGS, EXPLORATORY TRENCHES (W/OUT ENCLOSURE)	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-4/8 IMAGED APNT_039	
N00236 / 003037 ECSD-2201-0015-0005 REPORT N62473-06-D-2201 71	03-20-2008 **03-13-2008** CTO 0015	TETRA TECH EC, INC. WEINGARDT, K. BRAC PMO WEST	FINAL SUMMARY OF FINDINGS, EXPLORATORY TRENCHES (CD COPY ENCLOSED; INCLUDES DVD VIDEO)	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00002 SITE 00032	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-4/8 IMAGED APNT_039	

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N00236 / 003054 SULT-5104-0130-0059 MINUTES N68711-03-D-5104 40	04-10-2008 **03-14-2008** CTO 0130	SULTECH PEARSON, L. BRAC PMO WEST MACCHIARELLA, T.	06 DECEMBER 2007 FINAL RESTORATION ADVISORY BOARD MEETING SUMMARY (INCLUDES AGENDA AND VARIOUS HANDOUT MATERIALS) [CD COPY ENCLOSED]	ADMIN RECORD INFO REPOSITORY	AOC 000023G BLDG 00071 CAA 000003A CAA 000003B CAA 000003C CAA 000004C CAA A OU 0000001 OU 0000002A OU 0000004 OU 0000005 PARCEL 012 SITE 00001 SITE 00002 SITE 00004 SITE 00005 SITE 00010 SITE 00014 SITE 00017 SITE 00020 SITE 00026 SITE 00027 SITE 00028 SITE 00031 SITE 00032 SITE 00033 SITE 00035	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-4/8 IMAGED APNT_039	
N00236 / 003109 SULT-5104-0130-0067 MINUTES N68711-03-D-5104 36	05-01-2008 **03-18-2008** CTO 0130	SULTECH PEARSON, L. BRAC PMO WEST BROOKS, P.	18 MARCH 2008 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT (INCLUDES AGENDA AND VARIOUS HANDOUTS) [CD COPY ENCLOSED]	ADMIN RECORD INFO REPOSITORY	AOC 000023G SITE 00001 SITE 00002 SITE 00033	NAVFAC SOUTHWEST - BLDG. 1 SW080523-10 IMAGED APNT_035	

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N00236 / 003189 SULT-5104-0130-0068 MINUTES N68711-03-D-5104 25	07-01-2008 **04-03-2008** CTO 0130	SULTECH BRAC PMO WEST	03 APRIL 2008 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES (INCLUDES AGENDA AND VARIOUS HANDOUTS) [CD COPY ENCLOSED]	ADMIN RECORD INFO REPOSITORY	PARCEL 182 SITE 00001 SITE 00002 SITE 00017 SITE 00033 SITE 00034	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-6/8 IMAGED APNT_041	
N00236 / 003190 SULT-5104-0130-0069 MINUTES N68711-03-D-5104 45	07-01-2008 **04-15-2008** CTO 0130	SULTECH BRAC PMO WEST	15 APRIL 2008 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM 9BCT) MONTHLY TRACKING MEETING ACTION REPORT (AAR) [INCLUDES AGENDA AND VARIOUS HANDOUTS] {CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY	BLDG 00163 OU 0000002A OU 0000002B SITE 00001 SITE 00004 SITE 00009 SITE 00013 SITE 00019 SITE 00033 SITE 00034	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-6/8 IMAGED APNT_041	
N00236 / 003191 SULT-5104-0130-0071 MINUTES N68711-03-D-5104 38	07-01-2008 **05-01-2008** CTO 0130	SULTECH BRAC PMO WEST	01 MAY 2008 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES AGENDA AND VARIOUS HANDOUTS) [CD COPY ENCLOSED]	ADMIN RECORD INFO REPOSITORY	BLDG 00001 BLDG 00163 BLDG 00360 BLDG 0163A OU 0000002A OU 0000002B SITE 00001 SITE 00002	NAVFAC SOUTHWEST - BLDG. 1 SW-20081219-6/8 IMAGED APNT_041	
N00236 / 003123 BRAC SER BPMOW.DJR/0452 CORRESPONDENC NONE 5	05-21-2008 **05-16-2008** NONE	BRAC PMO WEST BROOKS, G. VARIOUS AGENCIES	TRANSMITTAL OF THE FINAL SUMMARY OF FINDINGS EXPLORATORY TRENCHES, REVISION 1 (W/OUT ENCLOSURE)	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001	NAVFAC SOUTHWEST - BLDG. 1 SW-20090130-4/6 IMAGED APNT_043	

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N00236 / 003124 ECSD-2201-0015-0005.R1 REPORT N62473-06-D-2201 71	05-21-2008 **05-16-2008** CTO 0015	TETRA TECH EC, INC. WEINGARDT, K. BRAC PMO WEST	FINAL SUMMARY OF FINDINGS, EXPLORATORY TRENCHES, REVISION 1 (CD COPY ENCLOSED; INCLUDES DVD VIDEO)	ADMIN RECORD INFO REPOSITORY	SITE 00001	NAVFAC SOUTHWEST - BLDG. 1 SW-20090130-4/6 IMAGED APNT_043	
N00236 / 003136 ECSD-2201-0015-0006 CORRESPONDENC N62473-06-D-2201 6	05-22-2008 **05-16-2008** CTO 0015	TETRA TECH EC, INC. NAVFAC - SOUTHWEST	RESPONSE TO COMMENTS ON THE DRAFT SUMMARY OF FINDINGS, EXPLORATORY TRENCHES (CD COPY ENCLOSED)	ADMIN RECORD INFO REPOSITORY	SITE 00001	NAVFAC SOUTHWEST - BLDG. 1 SW-20090130-4/6 IMAGED APNT_042	
N00236 / 003236 SULT-5104-0130-0074 MINUTES N68711-03-D-5104 48	10-28-2008 **06-05-2008** CTO 0130	SULTECH PEARSON, L. BRAC PMO WEST BROOKS, P.	05 JUNE 2008 FINAL RESTORATION ADVISORY BOARD MEETING SUMMARY (INCLUDES AGENDA AND VARIOUS HANDOUTS) [CD COPY ENCLOSED]	ADMIN RECORD INFO REPOSITORY	BLDG 00002 BLDG 00005 OU 0000002C OU 0000005 SITE 00001 SITE 00002 SITE 00010 SITE 00012 SITE 00025 SITE 00035	NAVFAC SOUTHWEST - BLDG. 1 SW-20090213-3/5 IMAGED APNT_044	
N00236 / 003238 SULT-5104-0130-0075 MINUTES N68711-03-D-5104 52	10-28-2008 **06-17-2008** CTO 0130	SULTECH PEARSON, L. BRAC PMO WEST BROOKS, P.	17 JUNE 2008 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT (AAR) [INCLUDES AGENDA AND VARIOUS HANDOUTS] {CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY	BLDG 00162 BLDG 00163 SITE 00001 SITE 00001A SITE 00001B SITE 00002 SITE 00004 SITE 00005 SITE 00010 SITE 00014 SITE 00017 SITE 00032	NAVFAC SOUTHWEST - BLDG. 1 SW-20090213-3/5 IMAGED APNT_044	

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N00236 / 000735 BRAC SER BPMOW.DR/0535 CORRESPONDENC NONE 8	07-15-2008 **06-25-2008** NONE	BRAC PMO WEST BROOKS, G. VARIOUS AGENCIES	PROPOSED CHANGES TO CLOSURE STRATEGIES FOR SITES	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001 SITE 00032	NAVFAC SOUTHWEST - BLDG. 1 SW-20090130-4/6 IMAGED APNT_043	
N00236 / 003193 BRAC SER BPMOW.JCK/0543 CORRESPONDENC NONE 5	07-02-2008 **06-26-2008** NONE	BRAC PMO WEST BROOKS, G. VARIOUS AGENCIES	TRANSMITTAL OF THE DRAFT 2009 AMENDMENT TO THE SITE MANAGEMENT PLAN (W/OUT ENCLOSURE)	ADMIN RECORD INFO REPOSITORY SENSITIVE	OU 0000002A OU 0000002B SITE 00001 SITE 00027 SITE 00028 SITE 00032 SITE 00034	NAVFAC SOUTHWEST - BLDG. 1 SW-20090213-2/5 IMAGED APNT_043	

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N00236 / 003194 NONE REPORT NONE 19	07-02-2008 **06-26-2008** NONE	BRAC PMO WEST NAVFAC - SOUTHWEST	DRAFT 2009 AMENDMENT TO THE SITE MANAGEMENT PLAN	ADMIN RECORD INFO REPOSITORY	OU 0000001 OU 0000002A OU 0000002B OU 0000002C OU 0000003 OU 0000004A OU 0000004B OU 0000004C OU 0000005 OU 0000006 PARCEL FED 1A PARCEL FED 2B PARCEL FED 2C SITE 00001 SITE 00002 SITE 00003 SITE 00004 SITE 00005 SITE 00006 SITE 00007 SITE 00008 SITE 00009 SITE 00010 SITE 00011 SITE 00012 SITE 00013 SITE 00014 SITE 00016 SITE 00017 SITE 00019 SITE 00020 SITE 00021 SITE 00022 SITE 00023 SITE 00024	NAVFAC SOUTHWEST - BLDG. 1 SW-20090213-2/5 IMAGED APNT_043	

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					SITE 00026		
					SITE 00027		
					SITE 00028		
					SITE 00030		
					SITE 00031		
					SITE 00032		
					SITE 00033		
					SITE 00034		
					SITE 00035		

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N00236 / 003237 SULT-5104-0130-0077 MINUTES N68711-03-D-5104 78	10-28-2008 **08-14-2008** CTO 0130	SULTECH PEARSON, L. BRAC PMO WEST BROOKS, P.	14 AUGUST 2008 FINAL RESTORATION ADVISORY BOARD MEETING SUMMARY (INCLUDES AGENDA AND VARIOUS HANDOUTS) [CD COPY ENCLOSED] {PORTION OF DOCUMENT IS SENSITIVE}	ADMIN RECORD INFO REPOSITORY SENSITIVE	OU 0000001 OU 0000002A OU 0000002B OU 0000002C OU 0000003 OU 0000004B OU 0000004C OU 0000005 SITE 00001 SITE 00002 SITE 00003 SITE 00004 SITE 00004 SITE 00006 SITE 00007 SITE 00008 SITE 00009 SITE 00011 SITE 00013 SITE 00014 SITE 00016 SITE 00017 SITE 00019 SITE 00019 SITE 00020 SITE 00021 SITE 00022 SITE 00023 SITE 00026 SITE 00027 SITE 00028 SITE 00030 SITE 00031 SITE 00032 SITE 00034 SITE 00035	NAVFAC SOUTHWEST - BLDG. 1 SW-20090213-3/5 IMAGED APNT_044	

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N00236 / 003240 SULT-5104-0130-0078 MINUTES N68711-03-D-5104 60	10-28-2008 **08-19-2008** DO 0130	SULTECH PEARSON, L. BRAC PMO WEST BROOKS, P.	19 AUGUST 2008 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT (AAR) [INCLUDES AGENDA AND VARIOUS HANDOUTS] {CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY	SITE 00001 SITE 00005 SITE 00010 SITE 00017	NAVFAC SOUTHWEST - BLDG. 1 SW-20090213-3/5 IMAGED APNT_044	
N00236 / 003275 CHAD-3213-0048-0001 MINUTES N62473-07-D-3213 45	01-15-2009 **09-04-2008** CTO 0048	CHADUXTT JV RAB MEMBERS	04 SEPTEMBER 2008 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES AGENDA AND VARIOUS HANDOUTS) [CD COPY ENCLOSED]	ADMIN RECORD INFO REPOSITORY	AOC 00023G BLDG 00005 OU 00005 SITE 00001 SITE 00002 SITE 00017 SITE 00026 SITE 00032	NAVFAC SOUTHWEST - BLDG. 1 SW-20090213-4/5 IMAGED APNT_044	

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N00236 / 003208 NONE REPORT NONE 24	10-01-2008 **09-15-2008** NONE	BRAC PMO WEST NAVFAC - SOUTHWEST	DRAFT FINAL 2009 AMENDMENT TO THE SITE MANAGEMENT PLAN (SMP) [INCLUDES RESPONSES TO COMMENTS ON THE DRAFT]	ADMIN RECORD INFO REPOSITORY	AREA 1 AREA 1A BASEWIDE BLDG 00005 BLDG 00010 BLDG 00041 BLDG 00114 BLDG 00162 BLDG 00301 BLDG 00360 BLDG 00389 BLDG 00400 BLDG 00410 BLDG 00530 BLDG 00547 OU 00001 OU 00002A OU 00002B OU 00002C OU 00003 OU 00004A OU 00004B OU 00004C OU 00005 OU 00006 PARCEL 00001A PARCEL 00002B PARCEL 00002C PIER 1 PIER 2 SITE 00001 SITE 00002 SITE 00003 SITE 00004 SITE 00005	NAVFAC SOUTHWEST - BLDG. 1 SW-20090213-2/5 IMAGED APNT_044	

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					SITE 00006		
					SITE 00007		
					SITE 00008		
					SITE 00009		
					SITE 00010		
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N00236 / 003276 CHAD-3213-0048-0003 MINUTES N62473-07-D-3213 91	01-15-2009 **10-02-2008** CTO 0048	CHADUXTT RAB MEMBERS	02 OCTOBER 2008 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES AGENDA AND VARIOUS HANDOUTS) [CD COPY ENCLOSED]	ADMIN RECORD INFO REPOSITORY	CAA C OU 00002A OU 00002B OU 00002C OU 00005 SITE 00001 SITE 00002 SITE 00014 SITE 00015 SITE 00017 SITE 00024 SITE 00026 SITE 00033	NAVFAC SOUTHWEST - BLDG. 1 SW-20090213-4/5 IMAGED APNT_044	
N00236 / 003347 NONE CORRESPONDENC NONE 8	06-08-2009 **10-20-2008** NONE	ALAMEDA REUSE AND REDEVELOPMENT AUTHORITY - ALAMEDA, CA POTTER, D. BRAC PMO WEST BROOKS, G.	LETTER DOCUMENTING DEFICIENCIES WITH THE CONCEPTUAL MODEL	ADMIN RECORD INFO REPOSITORY	AREA 00001A SITE 00001	NAVFAC SOUTHWEST - BLDG. 1	
N00236 / 003273 CHAD-3213-0048-0004 MINUTES N62473-07-D-3213 54	01-15-2009 **10-21-2008** CTO 0048	CHADUXTT JV BRAC PMO WEST	21 OCTOBER 2008 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT (AAR) (INCLUDES AGENDA AND VARIOUS HANDOUTS] {CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY	OU 00002C OU 00005 SITE 00001 SITE 00002 SITE 00017 SITE 00024 SITE 00026 SITE 00028 SITE 00030	NAVFAC SOUTHWEST - BLDG. 1 SW-20090213-4/5 IMAGED APNT_044	

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N00236 / 003277 CHAD-3213-0048-0005 MINUTES N62473-07-D-3213 34	01-15-2009 **11-06-2008** CTO 0048	CHADUXTT RAB MEMBERS	06 NOVEMBER 2008 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES AGENDA AND VARIOUS HANDOUTS) [CD COPY ENCLOSED]	ADMIN RECORD INFO REPOSITORY	OU 00002A OU 00002B OU 00002C OU 00005 SITE 00001 SITE 00002 SITE 00005 SITE 00026 SITE 00030	NAVFAC SOUTHWEST - BLDG. 1 SW-20090213-4/5 IMAGED APNT_044	
N00236 / 003365 CHAD-3213-0048-0007 MINUTES N62473-07-D-3213 40	06-30-2009 **12-04-2008** DO 0048	CHADUXTT JV PEARSON, L. BRAC PMO WEST BROOKS, G.	04 DECEMBER 2008 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY [INCLUDES AGENDA AND VARIOUS HANDOUTS] {CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY	AOC 000003 AOC 000010 AOC 000012 BLDG 00410 CAA-3 CAA-5B CAA-C OU 0000001 OU 0000002A OU 0000002B OU 0000002C OU 0000005 SITE 00001 SITE 00002 SITE 00014 SITE 00017 SITE 00024 SITE 00026 SITE 00027 SITE 00028 SITE 00030 SITE 00032 SITE 00034 SITE 00035	NAVFAC SOUTHWEST - BLDG. 1	

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N00236 / 003260 BRAC SER BPMOW.JCK/1126 CORRESPONDENC NONE 22	12-09-2008 **12-05-2008** NONE	BRAC PMO WEST BROOKS, G. VARIOUS AGENCIES	TRANSMITTAL OF THE FINAL 2009 AMENDMENT TO THE SITE MANAGEMENT PLAN (SMP) [PORTION OF THE MAILING LIST IS SENSITIVE] {W/ENCLOSURE}	ADMIN RECORD INFO REPOSITORY SENSITIVE	OU 00001 OU 00002A OU 00002B OU 00002C OU 00003 OU 00004A OU 00004B OU 00005 OU 00006 SITE 00001 SITE 00002 SITE 00003 SITE 00004 SITE 00005 SITE 00006 SITE 00007 SITE 00008 SITE 00009 SITE 00010 SITE 00011 SITE 00012 SITE 00013 SITE 00014 SITE 00016 SITE 00017 SITE 00019 SITE 00020 SITE 00021 SITE 00022 SITE 00023 SITE 00024 SITE 00025 SITE 00026 SITE 00027 SITE 00028	NAVFAC SOUTHWEST - BLDG. 1 SW-20090213-3/5 IMAGED APNT_044	

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					SITE 00030 SITE 00031 SITE 00032 SITE 00034 SITE 00035		
N00236 / 003348 BRAC SER BPMOW.DJR/1138 CORRESPONDENC NONE 4	06-08-2009 **12-15-2008** NONE	BRAC PMO WEST BROOKS, G. ALAMEDA REUSE AND REDEVELOPMENT AGENCY - ALEMDA, CA POTTER, D.	RESPONSE TO THE LETTER DOCUMENTING DEFICIENCIES WITH THE CONCEPTUAL MODEL	ADMIN RECORD INFO REPOSITORY SENSITIVE	AREA 00001A SITE 00001	NAVFAC SOUTHWEST - BLDG. 1	

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N00236 / 003366 CHAD-3213-0048-0009 MINUTES N62473-07-D-3213 50	06-30-2009 **01-08-2009** DO 0048	CHADUXTT JV PEARSON, L. BRAC PMO WEST BROOKS, G.	08 JANUARY 2009 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY [INCLUDES AGENDA AND VARIOUS HANDOUTS] {CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY	AST 000360E BLDG 00014 BLDG 00112 BLDG 00113 BLDG 00118 BLDG 00162 BLDG 00163 BLDG 00265 BLDG 00360 BLDG 00372 BLDG 00398 OU 0000002A OU 0000002B OU 0000002C OU 0000005 OWS 000014A OWS 000014B OWS 000014C OWS 000014D OWS 000014E OWS 000163 OWS 000360 OWS 000372A SITE 00001 SITE 00002 SITE 00002A SITE 00002B SITE 00003 SITE 00003B SITE 00004 SITE 00009 SITE 00011 SITE 00013 SITE 00014 SITE 00019	NAVFAC SOUTHWEST - BLDG. 1	

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
					SITE 00021 SITE 00022 SITE 00026 SITE 00032 SWMU 00372		
N00236 / 003367 CHAD-3213-0048-0011 MINUTES N62473-07-D-3213 50	06-30-2009 **02-05-2009** DO 0048	CHADUXTT JV PEARSON, L. BRAC PMO WEST BROOKS, G.	05 FEBRUARY 2009 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY [INCLUDES AGENDA AND VARIOUS HANDOUTS] {CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY	OU 0000002A OU 0000002B OU 0000002C OU 0000005 SITE 00001 SITE 00002 SITE 00014 SITE 00026 SITE 00027	NAVFAC SOUTHWEST - BLDG. 1	
N00236 / 003307 CHAD-3213-0046-0001 CORRESPONDENC N62473-07-D-3213 70	03-03-2009 **02-23-2009** CTO 0046	CHADUXTT BRAC PMO WEST	RESPONSE TO COMMENTS ON THE DRAFT RECORD OF DECISION (ROD), 1943-1956 DISPOSAL AREA (CD COPY ENCLOSED)	ADMIN RECORD INFO REPOSITORY	AREA 00001A AREA 00001B AREA 00002A AREA 00002B AREA 00003A AREA 00003B AREA 00004 AREA 00005A AREA 00005B SITE 00001 SITE 00032	NAVFAC SOUTHWEST - BLDG. 1	

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N00236 / 003364 CHAD-3213-0048-0012 MINUTES N62473-07-D-3213 90	06-30-2009 **02-24-2009** DO 0048	CHADUXTT JV PEARSON, L. BRAC PMO WEST BROOKS, G.	24 FEBRUARY 2009 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT (AAR) [INCLUDES AGENDA AND VARIOUS HANDOUTS] {CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY	BLDG 00118 BLDG 00163 BLDG 00360 OU 0000001 OU 0000002B SITE 00001 SITE 00002 SITE 00003 SITE 00004 SITE 00006 SITE 00007 SITE 00008 SITE 00011 SITE 00014 SITE 00016 SITE 00016 NORTH SITE 00016 SOUTH SITE 00017 SITE 00021 SITE 00025 SITE 00026 SITE 00027 SITE 00028 SITE 00030 SITE 00034 SITE 00035	NAVFAC SOUTHWEST - BLDG. 1	
N00236 / 003309 BRAC SER BPMOW.HMW\0054 CORRESPONDENC NONE 2	03-05-2009 **03-02-2009** NONE	BRAC PMO WEST BROOKS, G. VARIOUS AGENCIES	FEDERAL FACILITY AGREEMENT (FFA) SCHEDULE EXTENSION REQUEST FOR 1) DRAFT TIME CRITICAL REMOVAL ACTION (TCRA) COMPLETION REPORT, 2) DRAFT FINAL RECORD OF DECISION (ROD) / RESPONSE TO COMMENTS (RTCS), AND 3) DRAFT PRE-DESIGN SAMPLING AND ANALYSIS PLAN (SAP)	ADMIN RECORD INFO REPOSITORY	SITE 00001	NAVFAC SOUTHWEST - BLDG. 1	

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N00236 / 003346 ECSD-2201-0028-0008 REPORT N62473-06-D-2201 4200	06-04-2009 **04-08-2009** CTO 0028	TETRA TECH EC, INC. BRAC PMO WEST	DRAFT TIME-CRITICAL REMOVAL ACTION (TCRA) POST-CONSTRUCTION REPORT [CONTAINS SENSITIVE MAPS]	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001 SITE 00002 SITE 00032	NAVFAC SOUTHWEST - BLDG. 1	
N00236 / 003345 BRAC SER BPMOW.HMW/0202 CORRESPONDENC NONE 3	06-04-2009 **04-09-2009** NONE	BRAC PMO WEST BROOKS, G. VARIOUS AGENCIES	TRANSMITTAL OF THE DRAFT TIME-CRITICAL REMOVAL ACTION (TCRA) POST-CONSTRUCTION REPORT [W/OUT ENCLOSURE] {PORTION OF MAILING LIST IS SENSITIVE}	ADMIN RECORD INFO REPOSITORY SENSITIVE	SITE 00001 SITE 00002 SITE 00032	NAVFAC SOUTHWEST - BLDG. 1	
N00236 / 003336 CHAD-3213-0046-0006 CORRESPONDENC N62473-07-D-3213 5	05-11-2009 **04-21-2009** CTO 0046	CHADUXTT NAVFAC - SOUTHWEST DIVISION	RESPONSE TO COMMENTS ON THE DRAFT RECORD OF DECISION (ROD), 1943-1956 DISPOSAL AREA [CD COPY ENCLOSED]	ADMIN RECORD INFO REPOSITORY	AREA 00001A AREA 00001B SITE 00001 SITE 00002 SITE 00032	NAVFAC SOUTHWEST - BLDG. 1	
N00236 / 003411 CHAD-3213-0048-0017 MINUTES N62473-07-D-3213 51	09-09-2009 **05-07-2009** CTO 0048	CHADUXTT JV RAB MEMBERS	07 MAY 2009 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES (INCLUDES AGENDA, VARIOUS HANDOUTS, AND CD COPY)	ADMIN RECORD INFO REPOSITORY SENSITIVE	OU 0000002A OU 0000002B OU 0000002C OU 0000005 SITE 00001 SITE 00002 SITE 00017 SITE 00025 SITE 00026 SITE 00032 SITE 00034 SITE 00035	NAVFAC SOUTHWEST - BLDG. 1	

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N00236 / 003357 BRAC SER BPMOW.CH/0336 CORRESPONDENC NONE 2	06-29-2009 **06-02-2009** NONE	BRAC PMO WEST BROOKS, G. VARIOUS AGENCIES	FEDERAL FACILITY AGREEMENT (FFA) SCHEDULE EXTENSION REQUEST FOR 1) DRAFT PRE-DESIGN WORK PLAN AND PRE-DESIGN SAP, 2) DRAFT REMEDIAL DESIGN / REMEDIAL ACTION WORK PLAN, AND 3) DRAFT FINAL RECORD OF DECISION	ADMIN RECORD INFO REPOSITORY	SITE 00001	NAVFAC SOUTHWEST - BLDG. 1	
N00236 / 003410 CHAD-3213-0048-0019 MINUTES N62473-07-D-3213 59	09-09-2009 **06-04-2009** CTO 0048	CHADUXTT JV RAB MEMBERS	04 JUNE 2009 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES (INCLUDES AGENDA, VARIOUS HANDOUTS, AND CD COPY)	ADMIN RECORD INFO REPOSITORY SENSITIVE	OU 0000001 OU 0000002C SITE 00001 SITE 00002 SITE 00005 SITE 00010 SITE 00012 SITE 00024 SITE 00034 SITE 00035	NAVFAC SOUTHWEST - BLDG. 1	
N00236 / 003413 CHAD-3213-0048-0020 MINUTES N62473-07-D-3213 43	09-09-2009 **06-16-2009** CTO 0048	CHADUXTT JV BRAC PMO WEST	16 JUNE 2009 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT (AAR) [INCLUDES AGENDA, VARIOUS HANDOUTS, AND CD COPY]	ADMIN RECORD INFO REPOSITORY SENSITIVE	AOC 000023 BASEWIDE OU 0000001 OU 0000002A OU 0000002B OU 0000002C SITE 00001 SITE 00002 SITE 00004 SITE 00005 SITE 00006 SITE 00011 SITE 00027 SITE 00028 SITE 00030 SITE 00034 SITE 00035	NAVFAC SOUTHWEST - BLDG. 1	

UIC No. / Rec. No. 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	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N00236 / 003402 TRVT-0609-0000-0003 MINUTES N62473-09-C-0609 6	08-19-2009 **07-08-2009** NONE	TREVET BRAC PMO WEST	08 JULY 2009 KICKOFF MEETING MINUTES (INCLUDES CD COPY, AGENDA, AND LIST OF ATTENDEES)	SITE FILE (SF)	SITE 00001 SITE 00032	NAVFAC SOUTHWEST - BLDG. 1	

Total Estimated Record Page Count: 43,967

Total - Administrative Records: 341

[UIC NUMBER]='N00236'
No Keywords
Sites=SITE 00001
No Classification

APPENDIX B

REMEDIATION GOALS FROM ROD

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TABLE 8-1: CHEMICAL REMEDIATION GOALS FOR HUMAN RECEPTORS
Record of Decision for Installation Restoration Site 1, 1943-1956 Disposal Area
Alameda Point, Alameda, California

Chemical of Concern	Remediation Goal
SOIL	
Metals (mg/kg)	
Chromium (hexavalent)	3.1[a]
Polynuclear Aromatic Hydrocarbons (mg/kg)	
Benzo(a)anthracene	16.4[a]
Benzo(b)fluoranthene	16.4[a]
Benzo(a)pyrene	1.6[a]
Indeno(1,2,3-cd)pyrene	16.4[a]
Dibenzo(a,h)anthracene	2.7[a]
Polychlorinated Biphenyls (mg/kg)	
Aroclor-1254	0.38[a]
Aroclor-1260	0.38[a]
GROUNDWATER	
Volatile Organic Compounds (µg/L)	
Vinyl Chloride	6,011[b]
SURFACE WATER	
Volatile Organic Compounds (µg/L)	
1,1-Dichlorethene	3.2[c]
Benzene	71[c]
Trichloroethene	81[c]
Vinyl Chloride	525[c]
Semivolatile Organic Compounds (µg/L)	
Bis(2-chloroethyl)ether	1.4[c]
Bis(2-ethylhexyl)phthalate	5.9[c]
2,4-Dimethylphenol	2,300[d]

Notes:

a Remediation goal is risk-based screening level calculated in the HHRA (Tetra Tech 1999c)

b Remediation goal is based on a risk-based concentration for vinyl chloride in groundwater that would protect human receptors from the inhalation of VOCs in outdoor air (BEI 2006).

c Numerical water quality criteria promulgated for surface water in the California Toxics Rule (40 CFR § 131.38) and the National Toxics Rule (40 CFR § 131.36), and implemented in the Inland Surface Waters, Enclosed Bays, and Estuaries Plan as a part of the Basin Plan. These goals are to be met in the surface water where groundwater discharges to surface water.

d Numerical water quality criteria promulgated for surface water in the California Toxic Rule (40 CFR § 131.38) and implemented in the Policy for Implementation of Toxic Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California as part of the Basin Plan. These goals are to be met in the surface water where groundwater discharges to surface water.

§ Section
µg/L Microgram per liter
CFR Code of Federal Regulations
mg/kg Milligram per kilogram
SWRCB State Water Resources Control Board

Source: State Water Resources Control Board. 2000b. "Proposed Changes to Water Quality Control Plan for the San Francisco Bay Region." April 10.

TABLE 8-2: REMEDIATION GOALS FOR ECOLOGICAL RECEPTORS

Record of Decision for Installation Restoration Site 1, 1943-1956 Disposal Area
Alameda Point, Alameda, California

Chemical of Concern	Remediation Goal
SOIL	
Metals (mg/kg)	
Cadmium	1.50[a]
Lead	88.32[a]
Zinc	300[b]
Pesticides (mg/kg)	
4,4'-DDD	1.2[b]
4,4'-DDT	1.2[b]
SURFACE WATER	
Metals (µg/L)	
Arsenic	36[c]

Note:

a Remediation goal is based on Q95 background concentration (BEI 2006)

b Value based on the midpoint of the TRV_{Low} and the TRV_{High}.

c Numerical water quality criteria promulgated for surface water in the California Toxics Rule (40 CFR § 131.38) and the National Toxics Rule (40 CFR § 131.36), implemented in the Policy for Implementation of Toxic Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California as a part of the Basin Plan, and Table 3-3 of the Basin Plan. These goals are to be met in the surface water where groundwater discharges to surface water.

µg/L Microgram per liter
§ Section
CFR Code of Federal Regulations
DDD Dichlorodiphenyldichloroethane
DDT Dichlorodiphenyltrichloroethane
mg/kg Milligram per kilogram
SWRCB State Water Resources Control Board
TRV Toxicity reference value

Source:

BEI. 2006. "Final Feasibility Study Report IR Site 1, 1943-1956 Disposal Area, Alameda Point." February 8.

SWRCB. 2000a. "Policy for Implementation of Toxic Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (Inland Surface Waters Plan)". March.

TABLE 8-3: RADIOLOGICAL REMEDIATION GOALS FOR HUMAN RECEPTORS
Record of Decision for Installation Restoration Site 1, 1943-1956 Disposal Area
Alameda Point, Alameda, California

Chemical of Concern	Remediation Goal[a]
SOIL (pCi/g)	**RESIDENT[b]**
Radionuclide[c]	
Cesium-137+D	0.113[f]
Cobalt-60	0.0361[f]
Radium-226	1.0+[d,f]
Strontium-90	0.331[f]
Thorium-232	1.69[f]
U-238+D (Used for Depleted Uranium and Uranium Oxide)	0.742[e]

Notes:

a Remediation goals meet or are more protective than the 15 millirem per year residual does level consistent with the 1997 EPA OSWER Directive 9200.4-18.

b Residential use will be prohibited based on institutional controls.

c Radionuclides are identified based on the findings of the HRA (Weston Solutions, Inc. 2007).

d Goal is 1 pCi/g above background per agreement with EPA.

e EPA. 2009. "Preliminary Remediation Goals for Radionuclides." http://epa-prgs.ornl.gov/radionuclides/

f Navy. 2006b. "Final Basewide Radiological Removal Action Action Memorandum, Revision 2006, Hunter Point Shipyard, San Francisco, California". April 21.

+D Daughter products

pCi/g picocurie per gram

PRG preliminary remediation goal

Reference

Weston Solutions, Inc. 2007. "Final Historical Radiological Assessment, Volume II, Alameda Naval Air Station, Use of General Radioactive Materials, 1941-2005." June.

APPENDIX C

PUBLIC MEETING TRANSCRIPTS

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U.S. NAVY'S PROPOSED PLAN

FOR MODIFIED REMEDY AT IR SITE 1 BURN AREA

ALAMEDA POINT/FORMER NAVAL AIR STATION ALAMEDA

REPORTER'S TRANSCRIPT OF PUBLIC MEETING

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A T T E N D E E S

FACILITATOR: CECILY SABEDRA - United States Navy

CONTRACTORS: PETER GUERRA - AMEC Environment & Infrastructure, Inc.

PHILIP M. STEARNS - AMEC

---oOo---

REGULATORS

JAMES R. FYFE - Department of Toxic Substances Control (DTSC)

KAREN TOTH - DTSC

XUAN-MAI TRAN - U.S. Environmental Protection Agency (EPA), Base Realignment and Closure Cleanup Team (BCT) member

JOHN WEST - San Francisco Bay Regional Water Quality Control Board, BCT member

---oOo---

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---oOo---

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FRANCIS McILVEEN

PETER RUSSELL

BRYAN SCHUMACHER

KATHLEEN SCHUMACHER

PAUL WHITWORTH

---oOo---

ALAMEDA, CALIFORNIA, TUESDAY, APRIL 9, 2013, 6:52 P.M.

---oOo---

MS. CECILY SABEDRA: Welcome, everyone, to the Proposed Plan meeting for a modified remedy for the burn Area located at IR Site 1.

ATTENDEE: Speak up.

MS. SABEDRA: Okay.

This meeting is hosted by the Department of the Navy, specifically the BRAC Project -- Program Management Office. My name's Cecily Sabedra. I'm the Project manager for Site 1.

With me is Peter Guerra and Philip Stearns. They are the Navy's contractors from AM- -- the company name is AMEC.

If you haven't received a copy of the Proposed Plan, there should be some on the table there.

So I'm going to provide a quick -- an overview of the CERCLA process and kind of explain how we got to this point that we're at right now. And then after I provide an overview, allow everyone to come up and to take a look at posters 'cause you can't see them where you're sitting there; and then you can ask any clarifying questions.

The BRAC Cleanup Team is composed of the Navy and the regulatory agencies, and we are working to

complete the cleanup and site closure of the Installation Restoration Program at Alameda and satisfy the CERCLA requirements.

CERCLA is a stepwise process. It begins with a historical research background investigation, and then we move on to what is called the remedial investigation and Feasibility Study. That's where we collect a lot of our data, and we also look at the alternatives for the cleanup during that stage.

Following that is the Proposed Plan. The Proposed Plan is where we solicit for input on our alternatives for the cleanup of the site, and the important part of the Proposed Plan process is your comments and your input.

Following the Proposed Plan, the remedy is documented in the Record of Decision. The Record of Decision is where we also respond to any formal comments that we have received during the Proposed Plan stage.

The Record of Decision for this site was signed in 2009. Following the signing of the Record of Decision, we completed a data gap pre-design characterization, and this was intended to support the Remedial Design so we could begin implementing our remedy for the site.

Based on the data we collected between 2010 and

2012, it was determined that we needed to go back and revisit a particular portion of the remedy that was in our original Record of Decision. So it was decided by the Navy and the regulatory agencies to reevaluate and amend the remedy for the burn area portion only of what's known as IR Site 1.

We're beginning to -- I have in the corner here a court stenographer. She's available to take your verbal comments.

You can also submit comments in writing. Our deadline for receiving comments is April 24th. You can submit them by E-mail, mail, fax. And then any -- and those, as I mentioned, will be addressed in the Record of Decision.

So now I would like to -- we're going to go off the record and let people take a look at the -- come up and take a look at the posters, and myself and Peter and Philip are available to answer any clarifying questions.

(Whereupon, off-record discussion from 6:48 p.m to 7:26 p.m.)

MS. SABEDRA: Okay. I guess that we can get started again. Everyone's had a chance to take a look at the information that we have here. We can go back on the record and see if there's any clarifying questions.

JANE SULLWOLD: I'm Jane Sullwold, and I'm a

1 mem- -- new member of RAB.

2 And I asked a question of Peter that I wanted

3 to have him explain publicly because it's perceived --

4 from the poster over here that says "Risk Assessment and

5 Remedial Action Alternatives," it looked to me like in

6 2005 there was a risk assessment and a decision made to

7 excavate the dangerous material and do that as a

8 remediation in the area.

9 And then they decided when that turned out to

10 be too expensive to reevaluate, they decided that based

11 upon the new information, even though the area had

12 enlarged over their 2005 estimate, that now they were

13 going to contain it for a cost that was about one-third

14 of what it had originally been proposed, and I didn't

15 think that sounded very good.

16 So I pose that question to Peter, and I'd

17 like -- Peter, maybe you can explain publicly what you

18 told me.

19 MR. GUERRA: Okay. Yeah. Okay. In 2005 and

20 2006, the project was in the CERCLA phase of the

21 Feasibility Study; and in 2006 a Feasibility Study

22 Report was published.

23 In the development of the Feasibility Study

24 Report, there was risk assessments conducted. And those

25 risk assessments concluded what the contaminants of

1 concern are in the soil and what the contaminants of
2 concern are in the water and what the pathways that --
3 of exposure are associated with those chemicals. That
4 forms the basis of the objectives for remediation, how
5 the public and ecology is going to be protected from the
6 contamination.
7 During the development of the Feasibility
8 Study, there was significantly less data about the burn
9 area than there is now. And the basis of the remedy's
10 alternatives for cleanup of the burn area included
11 something similar to what we propose here, a
12 geotechnical remedy, containment of the waste and the
13 soil cover over it. And another alternative was
14 excavation.
15 The limited data that was available in the
16 Feasibility Study phase yielded a guess of -- a estimate
17 of how much it would cost of what the extent of the
18 contamination was and how deep it was. And that cost
19 for excavation was pretty much equivalent to the cost of
20 containing it, the geotechnical remedy.
21 And so at that time, the decision was, Well, if
22 it cost the same to contain it versus excavate it, let's
23 excavate it.
24 And in the -- in the Feasibility Study Report,
25 there's a discussion about the option of containing it

exists. It remains viable. It's something that needs to be considered when more data is gathered during the design step.

2010 fast forward, we're doing the Remedial Design characterization work in order to satisfy those requirements, get the information we need to design the remedy for the excavation. The picture of the burn area, the extent, the depth, and the length and the location against the shoreline changes with respect to what was estimated in the Feasibility Study.

So in the Feasibility Study, the initial guess was that it would be 10 feet deep and extend over about 3.7 acres and be inland of the shoreline slope. So the estimate didn't include what it would really have taken to excavate the burn area in the Feasibility Study Report, which was -- which now we know is a picture of requiring bracing, requiring potentially dewatering and excavating down to depths of 30 feet.

So the comparative analysis that was done in the Feasibility Study changed. The $40 million estimate that you see up there is not what was in the Feasibility Study for the burn area remedy. It was closer to the 13 million that we are at now for the containment remedy.

I think besides cost, the other factors that

1 changed are implementability. It became much more
2 difficult to implement the remedy that was described in
3 the ROD from the Feasibility Study, the Record of
4 Decision of excavation, because in the ROD we still
5 didn't consider the need for putting in bracing to hold
6 back the sea and digging so deep below the water table.
7 And the other part that changed is the
8 short-term effectiveness, all of the trucking that would
9 have to happen in order to move that soil in some cases
10 hundreds of miles away and the installation of the
11 bracing and the safety of the site workers involved with
12 having to handle this deep excavation of potentially
13 upwards of 100,000 cubic yards of material.
14 JAMES LEACH: I'm Jim Leach. I'm a RAB member
15 and a structural engineer and civil engineer and quite a
16 bit of experience, ten years working with the
17 environment group at Brown and Caldwell and ten years
18 with Jacobs Engineering Group. They're a 300-member
19 environmental group in Sacramento.
20 There are two or three problems I see. First
21 of all, containment is not remediation. It's cover-up.
22 Use of sheet piling, which is corrodible and
23 very subject to electrolysis, is -- always -- has been
24 always used as a temporary measure. Even -- It wasn't
25 even good enough when they built BART down Market

Street. They used a different type of barrier rather than sheet piling.

They wouldn't have to truck the material down. It may be that you're not familiar enough with the Bay Area to know that you could barge it to Port Chicago where there's isolated little community and rail lines to ship it to Bakersfield or wherever you want to ship it.

There is a history of radioactive material being surfaced by rabbits up at Hanford, and some of the eagles that carried the rabbits away carried that radioactivity miles from the site of where the active materials were.

So I personally don't believe that you looked at all the options. I don't believe that anything less than removal is a permanent solution, and I don't believe you could count on more than years for your sheet piling to hold it back, let alone to corrode enough to let material through it.

One of the main reasons the transit system from Berkeley over the bridge to San Francisco is put down because their rails corroded wherever it crossed the source of electricity. So -- through electrolysis.

So I don't think you've covered everything. I would like to see anything that's harmful shipped out of

1 the area.

2 FRANCIS McILVEEN: Would like to follow that up

3 on your description of the --

4 Oh, I'm sorry. My name is Francis McIlveen,

5 F-r-a-n-c-i-s, M-c-I-l-v-e-e-n, and I'm a resident. I

6 live three blocks away from the former naval base. My

7 children play at the beach, the park, Crown -- Robert

8 Crown Memorial Beach, which is two blocks away from my

9 house, and it's on the bay. So I am very concerned

10 about this.

11 You -- The description that you gave of the

12 post -- sounds like interim Feasibility Study where

13 you've got a fuller picture that included building

14 isolation -- I'm not sure what you call it.

15 MS. SABEDRA: Waste isolation bulkhead?

16 FRANCIS McILVEEN: No, no, no. The temporary

17 barrier to be able to excavate fully. That was the

18 $40 million estimate?

19 MR. GUERRA: That's right.

20 MS. SABEDRA: Yeah.

21 FRANCIS McILVEEN: Okay. And, I mean, if you

22 could expl- -- what you said -- I mean, I understand

23 that, yeah, there are difficulties there, and there is a

24 higher cost.

25 But I still don't understand the cost-benefit

analysis that -- or the risk-benefit analysis that the Navy did and came up with that removing the material was too risky, because it's certainly doable. I mean, with enough prioritization and funding, it could be done. And it could be --

I mean, when you said "trucking," I also was thinking, Well, you just ship it on barges because you're right there on the bay to remove that.

So I'm -- and didn't -- isn't that how Seaplane dredge was also removed, or was that trucked out?

MS. SABEDRA: That material actually has -- Some of it was trucked out, yes.

FRANCIS McILVEEN: But was some of it barged?

MS. SABEDRA: No.

CAROL GOTTSTEIN: Are there environmental restrictions on barging?

THE COURT REPORTER: Wait. I need a name, please.

CAROL GOTTSTEIN: Carol Gottstein. I'm --

THE COURT REPORTER: And I can't see. I need to see the person who's speaking.

CAROL GOTTSTEIN: Carol Gottstein. Whom am I looking at? Okay, you can see me.

That brings up the question, Are there new environmental restrictions to barge in that kind of soil

to the bay?

MR. GUERRA: It's based on a cost-benefit analysis Of how much it cost to move. There's nothing along the shoreline where you could dispose it. So it could be shipped somewhere where there's rail and then put on a rail.

The radiological material goes as far as Utah for disposal. So there is a considerable amount of diesel in trucking to get it from where it is now to Utah. There's risks associated with that amount of trucking, that amount of waste across land.

CAROL GOTTSTEIN: Does it also go to Buttonwillow?

MR. GUERRA: Not if it's rad contaminated.

CAROL GOTTSTEIN: Because they were talking about that earlier.

FRANCIS McILVEEN: I mean, I guess my point is that priority --

THE COURT REPORTER: Wait. You're going to have to reidentify yourself. I can't remember everybody's names. Sorry.

FRANCIS McILVEEN: Francis McIlveen.

THE COURT REPORTER: Thank you.

FRANCIS McILVEEN: I guess I'm -- I don't really understand the priorities because, I mean, we are

1 talking about, you know, this is a major body of water
2 in one of the largest metropolitan areas in the United
3 States. And this is onshore of that, and that seems
4 like a extremely important site to remediate as opposed
5 to -- I mean, I agree with what Mr. Leach said --
6 temporarily cover it. It's not remediation. It's just
7 a temporary solution.
8 So I really -- if you could fill me in a little
9 bit more 'cause I just can't understand it.
10 MS. SABEDRA: So just to clarify, your concern
11 is why didn't -- the Navy won't spend the money to
12 completely remove the material?
13 FRANCIS McILVEEN: Right, right, and --
14 MS. SABEDRA: So --
15 FRANCIS McILVEEN: -- what fed into that.
16 I mean, I understand that four-step process
17 about selecting the preferred alternative. But --
18 MS. SABEDRA: And that's -- that's really
19 what -- you know, we work within this framework of the
20 CERCLA law.
21 FRANCIS McILVEEN: Correct.
22 MS. SABEDRA: And as part of our selecting
23 alternatives and evaluating, we have nine separate
24 criteria, and cost is just one of those.
25 FRANCIS McILVEEN: Yeah.

1 MS. SABEDRA: And we don't weigh one stronger
2 than others.
3 And when we do the comparative analysis, this
4 alternative is the one that came out of the process
5 preferred.
6 You know, we could --
7 FRANCIS McILVEEN: Is there a numerical model
8 that you use to weigh . . . ?
9 MR. GUERRA: (Turns his head from side to
10 side.)
11 FRANCIS McILVEEN: There isn't. Okay.
12 So . . .
13 MS. SABEDRA: You know, when we go through the
14 comparative analysis, let me just assure you that both
15 remedies are, you know, overall protective of human
16 health and the environment, of course, is our priority.
17 Both alternatives do that job.
18 And what goes into that is, as you mentioned,
19 that large report, the Feasibility Study. All that
20 material feeds into the breakdown of comparing the
21 different alternatives.
22 FRANCIS McILVEEN: And then the -- the time
23 frame that you're looking at is 1- -- that's --
24 100 years is the -- the threshold.
25 So if you can protect human health and the

environment for 100 years, then you -- you've -- you say that you've done that or . . . ?

MS. SABEDRA: The 100 years that you're referring to, was that for the -- the age of our containment?

FRANCIS McILVEEN: Well, I saw in a memo from JPD or JED -- I don't know -- the engineering firm that gave you the analysis of the -- the WIB, that they refer to some criteria that if it met 100 years -- maybe it was 50 years. I'm not really sure. But something about 100 years being considered, or deemed, a permanent solution?

MS. SABEDRA: So as part of -- that's what they have projected as a lifetime of the wall. It's not a stepping stone.

FRANCIS McILVEEN: Right.

MS. SABEDRA: It's dependent upon maintenance, what is used to treat the wall.

FRANCIS McILVEEN: Sacrificial --

MS. SABEDRA: You know, we are monitoring this remedy and required to maintain its protectiveness. Every -- After it's in place, every five years we go through a formal process with the agencies to make sure that, you know, it's still meeting the requirements that it's supposed to.

FRANCIS McILVEEN: And that happens until the Navy transfers responsibility to the City of Alameda; is that right?

MS. SABEDRA: I can't --

FRANCIS McILVEEN: Or is that in perpetuity?

MS. SABEDRA: The Navy's responsible for maintaining the remedy. If the responsibility is transferred to another entity, that situation could change. I can't speak to the transfer. Only on the site itself.

SUSAN GALLEYMORE: What other entity --?

Sorry. Susan Galleymore.

So what other --? Just out of curiosity, what other entity could take on such a responsibility?

MS. SABEDRA: I'm not certain.

SUSAN GALLEYMORE: Do you have --?

MS. SABEDRA: It's -- I'm just . . .

MR. STEARNS: No, not for this site. There's not -- I'm not saying anything that I know.

But other waste sites that have these remedies put in place, they maintain responsibility until somebody says, I'll take the responsibility as long as I can, going to do whatever I want or whatever, still maintain the remedy or meet the level of protectiveness.

1 Some sites, if you go into bigger cities, like
2 we did a job in Korea where somebody decided it was
3 going to be more cost effective, real estate was worth
4 so much that they literally came in 80 years later, dug
5 everything out, and converted it into, you know, part of
6 a city.
7 I'm not saying somebody's going to do that
8 here, but it -- just saying it -- whoever would want to
9 take on the responsibility balanced --
10 SUSAN GALLEYMORE: Yeah.
11 MR. STEARNS: -- by whatever the options were.
12 SUSAN GALLEYMORE: And so that's why I start
13 being a little squirrelly about this because it's like a
14 developer can come and say "Well, I'll take it on" but
15 not actually take on the responsibility.
16 MR. STEARNS: No, but the Navy is -- the Navy
17 would -- any entity that held that responsibility is
18 held to proving that it's going to be maintained.
19 MS. SABEDRA: Part of --
20 MR. STEARNS: You can't --
21 MS. SABEDRA: And part of -- part of our remedy
22 is land use, is institutional controls that are
23 documented in the Land Use Control Plan. And it says,
24 You know, the requirements for inspections, requirements
25 for who needs to be notified -- you know, the agencies

are notified in case of a transfer.

SUSAN GALLEYMORE: The City of Alameda might say that they can do it, but in fact they really --

ATTENDEE: It wouldn't be surprising if they --

THE COURT REPORTER: You can't all talk at once. I'm sorry. I can only report and hear one person speaking at a time.

ATTENDEE: You can just scratch my remark. That was --

THE COURT REPORTER: I can't see who's speaking anyway. So it's not there.

SUSAN GALLEYMORE: You need a little platform.

THE COURT REPORTER: Well, I need people to be facing me. This is not --

MR. STEARNS: Perhaps if we stood up, that would make it easier for Christine to keep the record.

THE COURT REPORTER: I thought people are going to come talk to me.

CAROL GOTTSTEIN: I can stand up, although I'm crippled, and I can't walk around the room. Sorry. But does everybody --?

THE COURT REPORTER: I don't remember your name. I'm sorry.

CAROL GOTTSTEIN: Carol Gottstein. Carol Gottstein, G-o-t-t-s-t-e-i-n, rhymes with Einstein.

1 Table 5 is the traditional comparison --
2 comparative analysis of the nine criteria. I was
3 wondering why the short-term effectiveness is higher for
4 the -- these WIB things compared to medium for hauling
5 dirt away. The implementability is medium for BA-1
6 compared to hauling the dirt away. I guess that's based
7 on not being able to barge the soil out but having to
8 truck it out?
9 MR. GUERRA: So are you --?
10 CAROL GOTTSTEIN: Well, I'm trying to go
11 through -- Every time we have one of these cost
12 comparison -- or comparison of these nine criteria,
13 usually the RAB sits down, and we go through each one of
14 these --
15 MR. GUERRA: Okay.
16 CAROL GOTTSTEIN: -- comparisons.
17 It gets down to, like, two or three
18 alternatives, and we're wondering the little filled-in
19 circles or the half-filled-in circles or the
20 quarter-filled-in circles, which is the way it's poor,
21 medium, and good in other cases.
22 But these two alternatives are identical in
23 overall protection of human health and environment,
24 identical in compliance with ARARs. Long-term
25 effectiveness and performance does differ. So does

1 short-term effectiveness, BA-1 somewhat higher.
2 long-term effectiveness and performance, medium high to
3 medium. Reduction of toxicity is equal.
4 where -- I don't see why there's a difference
5 in short-term effectiveness. If you could explain that,
6 because there's only a few of these criteria in what
7 they actually differ at all.
8 MR. GUERRA: All right. Short-term
9 effectiveness is for two reasons. One reason is that
10 it's quicker to install the waste isolation bulkhead,
11 because Step 1 of excavating the soil would be to
12 install the waste isolation bulkhead. You need that
13 too.
14 CAROL GOTTSTEIN: Okay.
15 MR. GUERRA: So that's -- that's the first
16 reason.
17 The second reason is for worker health and
18 safety. There's much less potential for exposure of
19 exhumed wastes by installing the waste isolation
20 bulkhead. So that's why the BA-1, or bulkhead remedy,
21 is scored higher in that category than -- than the
22 other.
23 And implementability is also similar in that
24 Step 1 of the excavation is installation of the waste
25 isolation bulkhead because you need that to brace

against the sea. So implementability is harder to excavate. I mean, it's -- just physically operating the equipment and handling the water is much longer duration, high risk to the workers, and more difficult to implement.

CAROL GOTTSTEIN: Thank you.

DALE SMITH: Dale Smith, RAB member. We have this conversation constantly at the RAB. And the problem, as I see it here, is: You have structured this for a 30-year cost program, and you have said the original cost for S1-4a was 18 mill. Because you found more, it's a bigger deal; so you pumped it up to 40 mill.

However, this other process has to be in place for millennia, and you never carry it out beyond 30 years. You don't carry out reinstalling the sheet pile wall, which is -- I recall, was $7 million, not the excavation 'cause I guess you didn't have to do that, was about $7 million for that.

When you remove everything and take it someplace else or pile it up on Site 1 so it is above sea level in 50 years, it's done.

This other process goes on and on and on. There's $300,000 every 20 years to refurbish that wall. And that wall only lasts for 100 years max. It's

1 supposed to last for 50, according to PNG [sic], but
2 they are very equivocable [sic] about whether or not it
3 will last because apparently there hasn't been enough
4 studies done.
5 Then with all of this armoring, the
6 galvanization and the anodes, they're projecting that
7 you can extend it twice that long.
8 So these are really weak numbers. Your
9 preferred alternative does not have sound numbers
10 associated with it because you don't include all of
11 these other costs that are going to be part of the
12 process once it's in place. And then in a hundred
13 years, assuming nobody else comes along and says "Yes,
14 we will do it for you," you have to replace the whole
15 thing.
16 And in a hundred years -- I mean, my dad talks
17 about bread being 5 cents a loaf, and I haven't seen
18 bread under 5 bucks a loaf in a long time. So I'm not
19 seeing how costs are going to go down.
20 So I think this cost-benefit analysis is badly
21 skewed because you use the 30 years. Forty mill. in
22 30 years, and it's gone. Eighteen in 30 years, and
23 you've got another 70 years to consider.
24 The other thing I want to ask is when you did
25 your groundwater sampling to determine whether or not

there is going to be contamination entering the bay from this landfill that will be barriered, you have monitoring wells. Jim Leach and I have stood up -- we have a photograph of each of us standing on one of the wells, and we are not very far from the shore at all. Did you monitor those wells for contamination during low tide or during high tide? because if you monitor during high tide, you're going to get the famous di- -- pollution dilution. And if you monitor during low tide and in the late fall, you might get a more accurate picture of what kind of contamination is moving into the bay. And it isn't clear in the document if you did that.

MS. SABEDRA: Okay.

DALE SMITH: So how did you monitor to determine the amount of chemicals moving from the landfill to the bay?

Did you use those kinds of criteria in doing your monitoring and --? because you were using monitoring wells that are tidally influenced. They are tidally influenced all the way 100 feet in, according to the document.

So when did you take your samples?

MR. GUERRA: We had two different sampling events. We had one sampling event that was set up to

1 collect samples to match the changing of the tides
2 through an entire tide cycle from low to high high and
3 mid points in between. That we call the tidally biased
4 groundwater sampling event.
5 And in that event, got to spend the night up
6 there in Alameda, actually, at IR Site 1 burn area. And
7 like I said, we collected samples basically on
8 three-hour period.
9 We did monitor what the lag time was between
10 the change in the tide and the change in the water level
11 in order to get those what would be considered highest
12 dilution and lowest dilution samples.
13 We saw no difference in contamination levels
14 between any of the events. There was no correlation
15 with change. And I think that has a lot to do with the
16 amount of time that the waste has been sitting there,
17 and that dilution is not happening on the scale of tide
18 changes.
19 Then we did a studywide where we took a
20 snapshot of all the wells at once, and we correl- -- and
21 we just -- even though we didn't see any correlation
22 with tide changes, we collected those samples at low,
23 low tide to try to get the most concentrated groundwater
24 that we would expect for the risk assessment.
25 So our -- the risk assessment that was

1 published in the FS, which stated that there's no
2 unacceptable risk associated with groundwater or surface
3 water outside of the VOC plume, was reinforced with this
4 updated risk assessment, which was much more rigorous
5 and focused on burn area.
6 FRANCIS McILVEEN: I wonder if may I ask a
7 follow-up question to that?
8 My name is Francis McIlveen again.
9 So the -- that monitoring that you did, the
10 tidally biased monitoring, that was for all of the
11 chemicals of concern that you had previously identified,
12 and how many of the wells was that done at?
13 MR. GUERRA: It was done at three of the
14 monitoring wells. One -- We selected a section of
15 wells that was in the thickest burn material. PMW11,
16 PMW10, and PMW9, those are in that first water-bearing
17 zone.
18 We also picked two in the second water-bearing
19 zone as well. And those wells were -- PMW11 was
20 actually sloped under the shoreline slope, so it was as
21 close as we could get to the edge of the -- of the
22 revetment in that -- in the face of the shoreline slope
23 in the bay.
24 PMW10 was installed vertically immediately
25 adjacent to PMW11, so if you can imagine one well angled

1 under the shoreline slope and another well vertically
2 next to it.
3 And then the next well was about 100 feet back
4 from the top of the shoreline slope. The idea was
5 that -- and we had seen a range of the tidal influences
6 higher, closer to the bay water and lesser further
7 away. So we wanted to get a really good idea of what
8 possible dilutions are.
9 FRANCIS McILVEEN: Francis McIlveen again.
10 That seems like a really small sliver of the
11 area that you sampled. So how did you justify that that
12 was adequate?
13 MR. GUERRA: It was in the highest soil
14 contamination that we found. I mean, otherwise, to
15 select samples that -- or to select locations outside
16 the highest, we would anticipate that those would have
17 lower concentrations, which, based on the snapshot of
18 the whole area, that proved to be the case.
19 FRANCIS McILVEEN: And that correlated with the
20 monitoring well, the --?
21 MR. GUERRA: We had other monitoring wells in
22 thinner burn-layer zones also angled under the shoreline
23 slope.
24 Yes? You --
25 STEVE BACHOFER: I'm Steve Bachof- --

MR. GUERRA: You've been patient back there.

STEVE BACHOFER: I'm Steve Bachofer, and I'm actually from Pleasant Hill, California.

I just wanted to have a clarifying question of relative to the long-term effectiveness and performance, the S1-4a is an "MH," and the BA-1 is an "M."

Can you clarify how much increases in where the tides will affect the bay in the next years, how that really affects whether or not you have the "MH" versus the "M" in that column of the table where they are?

MR. GUERRA: The --

MS. SABEDRA: Do you need to see it?

MR. GUERRA: No, I know what he --

The bay water, the tide changes, the sea water and the surface water and the groundwater didn't play into the rankings for long-term or permanence of the remedy.

The conclusion of the previous risk assessment and the updated risk assessment, to look at just that, the exchange of groundwater to the bay water was deemed that there is no unacceptable risk associated with that pathway.

So the groundwater going into the bay water is not generating concentrations high enough to be a risk to ecological or human receptors.

STEVE BACHOFER: Okay.

MR. GUERRA: That's going to have to be --

DALE SMITH: I -- I --

MR. GUERRA: -- the last one 'cause we have to lock up.

MS. SABEDRA: Okay.

MR. GUERRA: Yeah.

JAMES LEACH: I'm Jim Leach again.

MR. GUERRA: That clock's about ten minutes slow, so . . .

JAMES LEACH: I would like to address the subject of institutional controls. They are about as good as the very ten commandments.

We have institutional controls here relative to the marsh crust. They are almost ignored daily. They are supposed to be administered by the director of Public Works who doesn't even know where they are or where the documents are.

So I don't give very much faith in institutional controls, even though you rely on them quite a bit in all your reports.

MS. SABEDRA: Okay. It looks like they are closing up for the night. So we're going to conclude the record now. You can submit your comments to us in writing. The contact information is in the Proposed

Plan. We welcome your comments, and thank you very much for coming out tonight.

(Off record at 7:58 p.m., 4/9/13.)

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1 CERTIFICATE OF REPORTER

2

3 I, CHRISTINE M. NICCOLI, Certified Shorthand
4 Reporter of the State of California, do hereby certify
5 that this 32-page transcript of the foregoing meeting
6 was reported by me stenographically to the best of my
7 ability at the time and place aforementioned.
8 IN WITNESS WHEREOF, I have hereunto set my hand
9 this 3rd day of June, 2013.
10
11
12 CHRISTINE M. NICCOLI, C.S.R. NO. 4569
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APPENDIX D

RESPONSE TO WRITTEN COMMENTS

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RESPONSE TO COMMENTS ON

Draft
Amendment to the Record of Decision, IR Site 1
PERMAC
Alameda Point, Alameda, California
Appendix D to DCN: AMEC-8816-0002-0190

Comments by:	Responses by:
Xuan-Mai Tran / US EPA Region IX 75 Hawthorne Street San Francisco, CA 94105	AMEC Environment & Infrastructure, Inc.
Comments: June 10, 2013	Responses: June 26, 2013

General Comments

1	Based on Highlight 7-2 (Sample Outline and Checklist for ESDs and ROD Amendments) of A Guide to Preparing Superfund Proposed Plans, Records of Decision, and Other Remedy Selection Decision Documents, EPA 540-R-98-031, dated July 1999 (ROD Amendment Guidance), the Draft Amendment to the Record of Decision, Installation Restoration Site 1, Alameda Point, Alameda, California, dated April 2013 (the RODA) is missing several components. For example, a) The lead and support agencies are not identified. b) A statement that the RODA will become part of the Administrative Record file is not included. c) Section 3.1 (Restoration Advisory Board) does not provide the hours of availability for the Alameda Point Information Repository or Administrative Record. Please revise the RODA to include all components from Highlight 7-2 of the ROD Amendment Guidance.	At the top of page 1-1 under 1.0 Introduction text has been added as follows: ***Site Name:*** *Installation Restoration (IR) Site 1, 1943-1956 Disposal Area* ***Site Location:*** *Northwest corner of the former Naval Air Station (NAS), now referred to as Alameda Point, in Alameda, California* ***NAS Alameda CERCLA ID Number:*** *CA2170023236* ***Lead Agency:*** *U.S. Navy Base Realignment and Closure Program Management Office West* ***Support Agencies:*** *U.S. Environmental Protection Agency (U.S. EPA), Region 9, California Environmental Protection Agency's Department of Toxic Substances Control (DTSC) and the San Francisco Bay Regional Water Quality Control Board (RWQCB)*

		The Final Record of Decision (ROD) for IR Site 1 at Alameda Point, Alameda, California, was issued on September 17, 2009, for selected remedial actions for soil and groundwater contamination at IR Site 1. The IR Site 1 ROD was issued pursuant to the Department of the Navy's (DON) authority as the lead federal agency for the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) for remedy selection at sites at former NAS Alameda, pursuant to Sections 104 and 120 of CERCLA, Executive Order 12580, and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP; 40 Code of Federal Regulations [CFR] part 300). The lead regulatory agency for overseeing site cleanup at former NAS Alameda is the U.S. EPA. In addition to the U.S. EPA, state agencies, including the RWQCB, and the DTSC oversee the site cleanup at former NAS Alameda. *This Record of Decision (ROD) Amendment (RODA) will become part of the IR Site 1 Administrative Record. The IR Site 1 Administrative Record is available to the public at the following location:* *Naval Facilities Engineering Command, Southwest* *CERCLA Administrative Record* *937 North Harbor Drive, Building 1* *San Diego, CA 92132* *Business hours: 8AM-5PM Monday-Friday* *In addition, this RODA will also be available for review at the following website:* *www.bracpmo.navy.mil*
2	The selected amended remedy is inconsistently referenced throughout the RODA. The RODA identifies the selected amended remedy as either "the selected amended remedy", "the amended remedy" or "Alternative BA-1." For consistency, please revise the RODA to reference the selected amended remedy as "selected amended remedy (i.e., Alternative BA-1)".	This change has been made throughout the document.
3	Section 5.1.3 (Risk Characterization) states that, "[W]hen an excess cancer risk is larger than 10^{-4}, action is generally warranted, and when excess cancer risks are within the risk management range from 10^{-6} to 10^{-4}, site-specific factors are considered when making decisions about whether action is required;" however, the Preamble at 55 Federal Register (FR) 8866 indicates that the Environmental Protection Agency (EPA) intends to set remediation goals for total risk due to carcinogens that represent an	A sentence was added to the end of the introductory paragraph of Section 5.1.3 as follows: *The Preamble at 55 Federal Register (FR) 8866 indicates that the U.S.EPA intends to set remediation goals for total risk due to carcinogens that represent an excess upper bound lifetime cancer risk to an individual to between 10^{-4} to 10^{-6} lifetime excess cancer risk, and that a cancer risk of 10^{-6} should serve as the point of departure for these remediation goals.*

<table>
<tr><td></td><td>excess upper bound lifetime cancer risk to an individual to between 10^{-4} to 10^{-6} lifetime excess cancer risk, and that a cancer risk of 10^{-6} should serve as the point of departure for these remediation goals. Please revise Section 5.1.3 to clarify that 10^{-6} should serve as the point of departure for remediation goals.</td><td></td></tr>
<tr><td>4</td><td>The costs associated with a geotechnical assessment of the selected amended remedy (i.e., Alternative BA-1) are not provided in Table 10-2 (Cost Estimate Summary, Alternative BA-1). Given that the Area 1b wastes are within the area of shoreline slope anticipated to fail liquefy/slough) as a result of a maximum credible earthquake (MCE), a geotechnical assessment should be conducted as part of the remedial design. Please revise Table 10-2 to include the costs associated with a geotechnical assessment of the selected amended remedy (i.e., Alternative BA-1). If the costs are already included in the remedial design unit cost, please revise Table 10-2 to include a footnote to clarify that these costs are included.</td><td>Geotechnical assessment of equal effort is required for both remedies; the one presented as the selected remedy in the 2009 ROD (i.e., Alternative S1-4a) and the selected amended remedy (i.e., Alternative BA-1). The costs for the geotechnical assessments are already included in the remedial design unit cost presented in Tables 10-1 and 10-2. To provide clarity a footnote was added to each Table 10-1 and 10-2 as follows:

Geotechnical assessment has been included as part of the unit cost for remedial design.</td></tr>
<tr><td>5</td><td>The costs associated with inspection and maintenance of the soil cover over Area 1b are not provided in Table 10-2 (Cost Estimate Summary, Alternative BA-1). Please revise Table 10-2 to include the costs associated with the inspection and maintenance of the soil cover over Area 1b or indicate that those costs will be included with the costs of the ROD selected remedy for Area 1a.</td><td>The costs for inspection and maintenance of the additional soil cover (~4 acres) in the selected amended remedy (i.e., Alternative BA-1) are included with the costs of the ROD selected remedy for Area 1a. To provide clarity a footnote was added to Table 10-2 as follows:

The costs associated with the inspection and maintenance of the soil cover over the Burn Area are included in the costs of the ROD selected remedy for Area 1a.</td></tr>
<tr><td>6</td><td>A side-by-side comparison of the selected remedy (i.e., Alternative S1-4A) and selected amended remedy (i.e., Alternative BA-1) is not provided in the RODA. Section 7.3.3 (Documenting Fundamental Post-ROD Changes: ROD Amendment) of the ROD Amendment Guidance suggests that a side-by-side comparison of the original and proposed remedy components should be used to clearly display the differences and similarities between the alternatives. Please revise RODA to provide a table or figure which provides a side-by-side comparison of the selected remedy (i.e., Alternative S1-4A) and selected amended remedy (i.e., Alternative BA-1).</td><td>A sentence was added to the end of the second paragraph of Section 7.0 Description of Remedial Alternatives for Burn Area of IR Site 1 as follows:

A side-by-side comparison of the remedy selected in the 2009 ROD and the selected amended remedy (i.e., Alternative BA-1) is provided in Table 7-1.

Table 7-1 will be added as follows:
<table>
<tr><th colspan="3">TABLE 7-1. REMEDIAL ALTERNATIVES FOR SOIL</th></tr>
<tr><th>Remedial Alternative</th><th>Cost ($M)</th><th>Components of Remedial Alternative</th></tr>
<tr><td>S1-4a</td><td>40.2</td><td>Excavation of Waste from Area 1b: remove waste from Area 1b.
ICs: prohibit residential use of IR Site 1, limit and regulate penetration of soil</td></tr>
</table></td></tr>
</table>

		cover through the regulatory agencies.
	BA-1	13.1	**Installation of WIB and Select Excavation**: install WIB along the thickest portions of the burn layer and impacted materials adjacent to the *IR* Site 1 shoreline and select excavation of the thinner burn layer deposits in the southern portion of the Burn Area. **Removal of Radiologically-Impacted Waste:** screen surface and remove material which exceeds 2 times background to a depth of one foot. **Soil Cover**: construction of a soil cover over the Burn Area to extend and connect to the WIB fill material. ***ICs* from *ROD* are unchanged:** prohibit residential use of the Burn Area and any actions that could damage or otherwise reduce the effectiveness of the remedies.

This Table was excerpted from the final Proposed Plan for the Modified Remedy at the Burn Area. For the purpose of formatting the table is shown sequentially in this response; however, the Table format in the report is side-by-side as requested by commenter.

7	The responses to the public comments on the Proposed Plan for Site 1 Burn Area need to be revised to address the fundamental public concern. The Navy needs to explain the basis for the decision rather than focusing on the specific language of the comment (e.g., the inference that the WIB will be covered by soil). Supporting information should be provided to further explain that both original and the amended remedies are protective of human health and the environment.	The responses to public comments were revised to address the fundamental public concerns.

Specific Comments		
1	**Statement of Basis and Purpose, Page ix:** At the beginning of this section, please revise the text to read "*This ROD Amendment (RODA) selects an amended remedy to remediate soil at the Burn Area of IR Site 1. The amended remedy is being selected in accordance with CERCLA of 1980, as amended …"* In the last sentence of this section, please revise the text to read "*The Department of the Navy and U.S. EPA have jointly selected the amended remedy and the California Environmental Protection Agency Department of Toxic Substances Control (DTSC) and the San Francisco Bay Regional Water Quality Control Board (Water Board) concur on the selected amended remedy for the Burn Area of IR Site 1."*	These changes have been made.
2	**Assessment of the Site, Page ix:** At the beginning of this section, please revise the text to read "*The amended remedy selected in this RODA …"* In addition, please revise the last complete sentence in this paragraph to read "*In addition, the selected amended remedy reduces short term impacts and offers added benefits under other evaluation factors including implementability and cost."*	These changes have been made.
3	**Description of the Selected Remedy, Page x:** This section needs a clearer basis for the change based on the areal extent of burnt material, the depth, the quantity of waste below groundwater level, etc. In addition, please delete the sentence at the end of Page x, "It should be noted that implementation of … as a result of the maximum credible earthquake." This statement is incorrect because the selected remedy would have removed the waste in question.	The first paragraph under the heading Description of the Selected Remedy on page x has been divided into three paragraphs and text has been added for detail (second paragraph below) as follows: *The Navy has prepared this RODA for IR Site 1 because soil investigations indicated a different conceptual model than was used for the originally selected remedy. The new selected remedy is more effective in the short-term, implementable, and cost-effective. . Both the selected remedy from the ROD and the selected amended remedy in this RODA are considered protective to human health and the environment; however, in light of the new information, the implementability, timeline for implementation, and the associated cost estimate for the ROD selected remedy for the Burn Area significantly changed. The original remedy for soil in Area 1b involved excavation and offsite disposal of exhumed wastes. The evaluation and selection of the ROD remedy was based on limited data, particularly with respect to the extent of the Area 1b wastes to be removed.* *Additional data gathered during characterization performed to complete the remedial design of the ROD selected remedy revealed that the burn wastes in Area 1b were located closer to and under the shoreline slope and deeper compared with data used to support the ROD selected remedy. The*

		trenching, soil boring, and soil sampling results from pre-design characterization conducted after the ROD between 2010 and 2012 provide a significantly better representation of the nature and extent of the burn residue and surrounding impacted soil compared with previous investigations. Prior to these post-ROD characterization efforts, the extent of the Burn Area was primarily based on review of aerial photographs from the 1950s, which showed the Burn Area occupying 3.7 acres at the northwestern end of Alameda Point. The original site conceptual model aserted that burn residue was limited to within the upper 10 feet of the 3.7 acres and did not extend under the shoreline slope. This information was used to form the basis for comparative analysis of remedial alternatives during the Feasibility Study and in development of the ROD. The results from the recent investigations completed between 2010 and 2012 revealed that the burn residues derived from Burn Area activities conducted in the 1950s occupy approximately 4.3 acres, extend beyond the top of the shoreline slope, and up to 28 feet below ground surface. *The amended remedy included in this RODA incorporates an Open Cell steel sheet pile waste isolation bulkhead (WIB) to contain waste in the event of a seismic occurrence and placement of a soil cover over the inland portion of the Burn Area to isolate waste from potential recreational use and terrestrial ecological receptors. The soil cover will be an extension of the soil cover being placed over the remaining inland portions of IR Site 1.* Although Alternative S1-2 would require a geotechnical remedy (e.g., steel sheet pile bulkhead) in order for the cover to be seismically with the burn waste in such close proximity to the shoreline, this sentence was removed.
4	**Description of the Selected Remedy, Page xi:** Element 1a needs a better description for the portion of the burnt material to be left in place (e.g., "principal portion" or "major part"). In addition, please specify that radiological screening will be done as the material is excavated and that "any" material, which exceeds 2 times background, will be segregated and disposed of offsite.	Element 1a description has been changed as follows: *Element 1a: Waste Isolation Bulkhead (WIB) – A steel sheet pile bulkhead will be placed between the San Francisco Bay and the principal portion of the Burn Area to stabilize the shoreline slope and contain the waste left in place from exposure resulting in an slope failure. Based on the detailed pre-design characterization work performed in the Burn Area, this principal portion accounts for more than 95% of the burn waste volume. This WIB will be designed to prevent slope failure resulting from the design-level earthquake as specified in the soil cover applicable or relevant and appropriate requirements (ARARs).*

		Text was added to the end of the Element 2 bullet as follows: *Exhumed material from above the water table will be scanned in place to identify materials exhibiting radiological levels at or above two times background. Saturated materials from below the water table will be exhumed and transported to the on-site waste management area for drying and screening. Materials exhibiting radiological levels at or more than two-times background will be transported off site for disposal.*
5	**Description of the Selected Remedy, Page xii:** The reference to remedy for groundwater is not clear. There will be additional monitoring of groundwater within the Burn Area that was not included in the initial excavation remedy.	The last sentence in last paragraph on page xii was changed as follows: *This RODA does not select a remedial action remedy for chemical or radiological contamination in Areas 2a, 3a, or 3b nor does this RODA change the original accepted remedies from the ROD for Areas 1a, 2b, 4, 5a, 5b, or site-wide radiologically-impacted soil.* An text was added to the end of the last paragraph as follows: *Active groundwater treatment as described in the ROD is not altered as part of this RODA and is ongoing in the VOC plume. Groundwater monitoring planned for IR Site 1 as part of the ROD groundwater remedy will include the Burn Area.*
6	**Authorizing Signatures, Page xiii:** Signature block for State is inconsistent with body of text (please see the above comment indicating State concurrence).	The opening paragraph of the signature sheet has been changed to read as follows: *This signature sheet documents that the Navy and U.S. EPA have jointly selected the amended remedy and the California Environmental Protection Agency Department of Toxic Substances Control (DTSC) and the San Francisco Bay Regional Water Quality Control Board (Water Board) concur on the selected amended remedy for the Burn Area of IR Site 1. The respective parties may sign this sheet in counterparts.*
7	**Section 1.0, Introduction, Page 1-1:** Please revise the following text "This Record of Decision (ROD) Amendment (RODA) presents the selected amended remedy for the Burn Area of Installation Restoration (IR) Site 1 at Alameda Point, Alameda, California." to read "*This Record of Decision (ROD) Amendment (RODA) selects an amended remedy for a portion of Installation Restoration (IR) Site 1 (designated as Area 1b or the Burn Area) at Alameda Point, Alameda, California.*"	This change has been made.

8	**Section 1.1, Site Name, Location, and Description, Page 1-1:** Please revise the following text "For the purpose of defining select remedial actions for portions of IR Site 1, the site was subdivided into six areas as shown in Figure 1-3." to read *"For the purpose of describing the selected remedial actions for portions of IR Site 1, the site was subdivided into six areas as shown in Figure 1-3."*	This change has been made.
9	**Section 1.1.1, Burn Area Description, Page 1-3:** In Element 6: ICs, the scope of ICs regarding the soil cover will be expanded to include Area 1b.	A sentence has been added following the first sentence of Element 6 as follows: *ICs regarding the soil cover will be expanded to include the soil cover placed over the Burn Area.*
10	**Section 1.1.1, Burn Area Description, Page 1-3:** The last sentence of this section, "In the ROD, Element 1 and Element 5 do not apply to Area 1b, but were included above for completeness." is unnecessary. It should be replaced with the text indicating which elements will be amended. Three elements of the ROD selected remedy for soil in Area 1 are being amended by this RODA; Elements 1, 2 and 6. Description of remedy should focus on those elements which are to be amended.	The last sentence in Section 1.1.1 was stricken and replaced with the following: *Two of the above elements of the ROD selected remedy for soil in Area 1 are being amended by this RODA: Elements 1 and 2. Element 6 is not being altered as part of this RODA but will now explicitly extend to include Area 1b or the Burn Area. Elements 3, 4, and 5 will remain unchanged as part of this RODA.* Element 6 is not being amended. IC requirements set forth in the ROD extended to the Burn Area following the 2009 ROD selected remedy.
11	**Original Soil Remedy, Page 1-4:** In the last paragraph of this section, please revise the sentence "Since the ROD selected remedy called for removal of the wastes from Area 1b, the risks to human and ecological receptors from exposure to the surface water in the San Francisco Bay considering the submarine discharge of groundwater (SDG) was not considered." to read *"Since the ROD selected remedy called for removal of the wastes from Area 1b, the risks to human and ecological receptors from exposure to the contaminants located in Area 1b by means of the submarine discharge of groundwater (SDG) to the surface water in the San Francisco Bay was not considered."*	This change has been made.

12	**Section 2.1, Burn Area History, Page 2-1:** Section 2.1 indicates that Figures 2-1 (1939 Aerial Photo with IR Site 1 Boundary), 2-2 (1946 Aerial Photo with 1939 Land Surface and IR Site 1 Boundary), 2-3 (1958 Aerial Photo with 1939 and 1946 Land Surfaces and IR Site 1 Boundary), and 2-4 (2005 Aerial Photo with 1939, 1946, and 2010 Land Surfaces and IR Site 1 Boundary) are aerials photographs of Alameda Point; however, Figure 2-4 is the only aerial photograph provided in the RODA. Please revise the RODA to ensure Figures 2-1, 2-2, and 2-3 are provided as aerial photographs.	These figures have been added to the document.
13	**Section 4.0, Scope and Role of Operable Unit and Response Action, Page 4-1:** At the end of the paragraph, please revise the following text "This ROD Amendment will present an amended remedy for chemical and radiological contamination in soil in the Burn Area at IR Site 1. This RODA does not select a remedy for chemical or radiological contamination in Areas 2a, 3a, or 3b nor does this RODA change the original accepted remedies from the ROD for Areas 1a, 2b, 4, 5a, 5b, site-wide radiologically impacted soil, or groundwater" to read "*This ROD Amendment selects an amended remedy for chemical and radiological contamination in soil in the Burn Area at IR Site 1. This RODA does not amend selected remedy for Areas 1a, 2b, 4, 5a, 5b, site-wide radiologically impacted soil, or groundwater, except to expand the monitoring system to address groundwater within the Burn Area.*"	This change has been made.
14	**Section 5.0, Summary of Risks, Page 5-1:** After presenting a summary background, please focus on the Burn Area. Describing overall risk for Site 1 does not inform the selection of this amended remedy.	An additional paragraph was added to the end of Section 5.1 as follows: *A focused feasibility study (FFS) was conducted between 2010 and 2013 in the Burn Area. This FFS contained an updated risk assessment which focused on the SDG from the burn waste to the San Francisco Bay. Details on this updated and focused risk assessment, which considered both human and ecological receptors, is detailed in Section 5.3.*
15	**Section 5.3, FFS Evaluation of Risks from Exposure to Surface Water in the San Francisco Bay, Page 5-6:** Please clarify the following text "Based on these results, no chemicals or radiological materials are considered to pose unacceptable risk from exposure to bay water. No new COCs were identified for the freshwater replenishment pathway at the Burn Area beyond those identified in the ROD (Chadux Tt 2009)" Please	This change as recommended has been made.

	clarify whether the term "freshwater replenishment pathway" refers to the SDG pathway. Please replace the above quoted text with "*Based on these results, no chemicals or radiological materials are considered to pose unacceptable risk to ecological receptors or human health through the SDG pathway. No new COCs were identified for the freshwater replenishment pathway at the Burn Area beyond those identified in the ROD.*"	
16	**Section 7.1, ROD Selected Remedy – Alternative S1-4a: Excavation and Offsite Disposal of Soil, Soil Cover, and ICs, Page 7-1:** Please revise the following text "Alternative S1-4a assumes that the 3.7-acre Area 1b located within Area 1 would be excavated," to read *"Alternative S1-4a included the excavation of burnt material and contaminated soil in the 3.7-acre Area 1b,"*	This change has been made.
17	**Section 7.1.1, Excavation of Waste from Area 1b, Page 7-2:** The text needs to make it clear that the estimated quantity/cost is based on current knowledge, not what was included in the ROD. Text should also include comparisons between FS and FFS for depth of burnt material and areal extent.	Text has been added to the end of Section 7.1.1 as follows: *The quantities (and associated costs) presented in the text above are based on current knowledge stemming from investigations conducted following the finalization of the FS and ROD. The current understanding of the extent of Burn Area wastes are significantly different from the understanding used to compare remedial alternatives developed in the FS stage of the project. Based on the current understanding, burn waste covers an area of approximately 4.3 acres, extends under the shoreline slope, and is up to 28 feet below ground surface. Compared to the previous understanding of the Burn Area, which was used to analyze remedial alternatives, the extent of the burn layer is up to 18 feet deeper, extends beyond the top of the shoreline slope, and is approximately 15% larger in areal extent and 25% larger in volume. The current understanding of the extent of the burn layer significantly alters the excavation approach conceived in the FS and ROD which assumed the excavation was limited to 10 feet below ground surface and was inland of the top of the shoreline slope. Considering the current understanding of the extent of the burn layer, excavation and backfill of the burn layer would require bracing (e.g., steel sheet pile bulkhead) and extensive groundwater and saturated sediment management, which were not taken into account during the assessment of remedial alternatives conducted as part of the FS and ROD development.*
18	**Section 7.1.3, Evaluation by CERCLA Threshold Criteria, Page 7-3:** Please eliminate statement relating to leaving material in place outside of the designated 3.7 acres. Regulators would not have allowed that result.	Section 7.1.3 has been deleted in its entirety (see comment and response below).

19	**Section 7.1.3, Evaluation of CERCLA Threshold Criteria, Page 7-3:** The title of Section 7.1.3 implies that CERCLA threshold criteria (i.e., Overall Protection of Human Health and the Environment, Compliance with ARARs) will be evaluated; however, Long-term Effectiveness and Permanence, a CERCLA balancing criterion, is also evaluated. Since all of the nine criteria are considered in Section 8 for both alternatives, it appears that this section could be deleted. Please revise Section 7.1.3 to limit the evaluation to the CERCLA threshold criteria or retitle this section. Alternatively, please consider deleting this section.	Section 7.1.3 has been deleted in its entirety.
20	**Section 7.2, Alternative BA-1: Stabilization and Containment of Burn Waste with Open Cell Steel Sheet Pile Waste Isolation Bulkhead, Select Excavation, Soil Cover, and ICs, Page 7-4:** Please revise the following text "Alternative BA-1 assumes that the thickest portions of the burn layer and surrounding material exceeding remediation goals…" to read "*Alternative BA-1 provides that the principal/major portions of the burn layer and surrounding material exceeding remediation goals…*"	This change has been made.
21	**Section 7.2, Alternative BA-1: Stabilization and Containment of Burn Waste with Open Cell Steel Sheet Pile Waste Isolation Bulkhead, Select Excavation, Soil Cover, and ICs, Page 7-4:** Section 7.2 implies that either an Open Cell steel sheet pile bulkhead or Waste Isolation Bulkhead (WIB) will be included as a component of the selected amended remedy (i.e., Alternative BA-1), yet the remainder of the RODA indicates that an Open Cell steel sheet pile WIB will be included. Section 7.2 states that, "Alternative BA-1 assumes that the thickest portions of the burn layer and surrounding material exceeding remediation goals would be contained and stabilized by the construction of an Open Cell steel sheet pile bulkhead or WIB." To eliminate confusion, please delete the words "bulkhead or" from the following sentence "Alternative BA-1 assumes … by the construction of an Open Cell steel sheet pile bulkhead or WIB." The current text suggests two alternated techniques.	To eliminate confusion the words "*bulkhead or*" were stricken from the sentence as recommended by commenter.

22	**Section 7.2.2, Soil Cover over the Burn Area, Page 7-4:** Please indicate the soil cover would need to be at least as robust as the 3 foot cover selected for Area 1a.	A sentence was added to the paragraph in Section 7.2.2 following the second sentence as follows: *The soil cover over the Burn Area would be contiguous with and as robust as the soil cover over the other portions of IR Site 1.*
23	**Section 7.2.3, Institutional Controls, Page 7-5:** Please indicate ICs would restrict activities that would breach the cover as selected for the rest of Site 1.	A sentence was added to the end of the paragraph in Section 7.2.3 as follows: *ICs would restrict activities that would breach the cover as selected for the remainder of IR Site 1.*
24	**Section 8.3, Long-Term Effectiveness and Permanence, Page 8-1:** Discussion of remaining burnt material should be removed. It is not clear that the selected remedy did not include a cover extending beyond Area 1a but the regulators would have required the excavation of the burnt material. Discussion of O&M and seismic features requires complete re-write.	The last sentence of the opening paragraph in Section 8.3 was stricken. The last paragraph of this section was rewritten as follows: *A ranking of medium high for the long-term effectiveness and permanence of Alternative BA-1 was selected considering the ranking of medium assessed in the Final FS Report (BEI 2006a) to this alternative (S1-2) without the explicit addition of the WIB, and the adequacy and reliability of the WIB for the containment of the residual wastes. The WIB has an average lifespan of 100 years. It will require periodic inspection and could require periodic maintenance (e.g., added coating/galvanization) and/or repair (e.g., patching corroded areas). However, compared with other geotechnical remedies for stabilization of the shoreline slope, inspection and maintenance for general wearing of the WIB is easily performed with readily available resources (steel sheet pile bulkheads are located very nearby the site); and, at the prescribed review periods for other IR Site 1 remedies (e.g., soil cover). Repair of earthquake induced damaged to the remedy (e.g., lateral movement and settlement of the bulkhead and backfill) would consist of adding bracing to the WIB and/or placing additional soil cover over the fill retained behind the bulkhead. Furthermore, unlike remedies installed only within the inland portions of the Burn Area the WIB can be placed at the furthest extent of the burn waste under the shoreline slope.*
25	**Section 9.0, Principal Threat Waste, Page 9-1:** In this section, there should be a reference to radiological hotspots which will be removed.	A sentence has been added prior to the last sentence of the paragraph in Section 9.0 as follows: *Radiological hot-spots (i.e., soil material exhibiting a gamma scan reading of two times background) will be removed from the surface of the Burn Area and as part of the select excavation element of the selected amended remedy (i.e., Alternative BA-1).*

26	**Section 10.2, Select Excavation, Page 10-2:** Please include a discussion of radiological screening of excavated material and screening and hotspot removal for the area contained within the WIB. Excavated soil removed from above the burnt material need not be relocated to Area 1a. It can be used as part of the foundation for the expanded 1b cover.	A sentence has been added to the end of the opening paragraph of Section 10.2 as follows: *Radiological hot-spots (i.e., soil material exhibiting a gamma scan reading of two times background) will be removed from the surface of the Burn Area and as part of the select excavation element of the selected amended remedy (i.e., Alternative BA-1).* The second sentence of the second paragraph under the Select Excavation section on page 10-2 has been changed as follows: *Removed overburden would be relocated to inland portions of Area 1a or behind the WIB in the Burn Area and reused as foundation layer for the soil cover.*
27	**Section 11.5, Preference for Treatment as a Principal Element, Page 11-2:** There should be a discussion of treatment options for Area 1b rather than the general discussion related to Site 1.	Section 11.5 text has been modified as follows: *The selected amended remedy (i.e., Alternative BA-1) is protective of human health and the environment, complies with Federal and State requirements that are legally applicable or relevant and appropriate to the remedial action, and is cost-effective. This remedy does not satisfy the statutory preference for treatment. The Navy evaluated several treatment technologies that were eliminated in the FS Report (BEI 2006a). The Navy eliminated in-situ stabilization/solidification from further consideration based on implementability and cost. This technology would be difficult to implement in the heterogeneous fill material in Burn Area, which includes cables, scrap metal, and large debris. The costs of this technology would be significantly higher for the Burn Area than other technologies. Phytoremediation was eliminated from further consideration as an in-situ treatment option for soil at the Burn Area based on uncertain effectiveness and low implementability. The soil-washing process option was eliminated from further consideration based on its anticipated low effectiveness and implementability and high cost. Ex-situ stabilization/solidification of metals contaminated soil was eliminated from further consideration because the anticipated volume of soil for placement under the soil cover was not sufficient to make this process cost-effective.*
28	**Section 11.6, 5-Year Review Requirements, Page 11-2; Table 10-1, Cost Estimate Summary, Burn Area Aspects of Alternative S1-4A; Table 10-2, Cost Estimate Summary, Alternative BA-1:** While Tables 10-1 and 10-2 include six Five-Year Reviews, the text in Section 11.6 implies that only one Five-year Review (i.e., "A 5-year review" will be conducted. However, Five-Year Reviews will be necessary as long as waste remains in place. It is	Section 11.6 text has been modified as follows: *Five-year reviews pursuant to CERCLA §121 and the NCP are required if the selected remedies result in hazardous waste or contaminants remaining at the site above levels allowing for unlimited use and unrestricted exposure. Five-year reviews will be conducted for IR Site 1, inclusive of the Burn Area, because contaminants will be left onsite above levels allowing for unlimited use and unrestricted exposure.*

	understood that six Five-Year Reviews were used for costing purposes, but this should be clearly indicated in table footnotes. Please revise Section 11.6 to indicate that multiple Five-Year Reviews will be conducted and revise the Tables 10-1 and 10-2 footnotes to state that Five-Year Reviews will be required as long as waste remains in place.	A footnote was added to Tables 10-1 and 10-2 as follows: *Five-year reviews will be required at IR Site 1 including the Burn Area so long as hazardous waste or contaminants remaining at the site are above levels allowing for unlimited use and unrestricted exposure.*
29	**Section 12.0, Documentation of Significant Changes, Page 12-1:** This phrase does not work "… and as described in the March 2013 issuance of the Proposed Plan." Suggested to revise as *"No significant changes to the proposed remedy for the Burn Area were made following the issuance of the March 2013 Proposed Plan."* or *"The selected amended remedy for the Burn Area does not reflect any significant changes from the proposed remedy described in the March 2013 Proposed Plan."*	This change has been made.
30	**Appendix D, Response to Written Comments:** The draft response to public comments on the Proposed Plan that was provided to the agencies on May 23, 2013, does not adequately explain the basis for the selected amended remedy. While the majority of the public comments were similar, the draft response fails to address the primary concerns.	The responses to public comments have been revised to adequately explain the basis for the selected amended remedy (i.e., Alternative BA-1).
Minor Comments		
1	**Description of the Selected Amended Remedy, Page x:** The second sentence of the first paragraph states that new information was "gathered during the remedial design of the project;" however, new information was gathered during the remedial design phase of the project. Please revise the second sentence of the first paragraph to clarify that new information was gathered during the remedial design phase.	This change has been made.
2	**Authorizing Signatures, Page xiii:** Please delete the extra space in front of "Federal Facilities and Site Cleanup Branch, Region 9"	This change has been made.
3	**Section 8.7, Cost, Page 8-3:** Section 8.3 does not reference Tables 10-1 (Cost Estimate Summary, Burn Area Aspects of Alternative S1-4A) or 10-2 (Cost Estimate Summary, Alternative BA-1). Please revise Section 8.3 to include a reference to the two costing tables.	A sentence was added to the end of Section 8.7 as follows: *A detailed discussion of estimated costs and comparison of the ROD Selected Remedy (i.e.- Alternative S1-4a) and the selected amended remedy (i.e., Alternative BA-1) is provided in Section 10.3, which includes Tables 10-1 and 10-2; which provide a detailed cost estimates for the remedies.*

4	The RODA includes several editorial/ grammatical issues. For example, a) **List of Appendices, Page iii:** Appendix B is listed twice on Page iii, although each listing has a different title. b) **List of Appendices, Page iii:** Section 3.3 (Community Participation for IR Site ROD Amendment) states that, "A court reporter prepared a transcript of the meeting (Appendix C); however, Page iii indicates that the public meeting transcripts are not yet available. c) **Section 1.1.1, Burn Area Description, Page 1-2 and Section 4.0, Scope and Role of Operable Unit and Response Action, Page 4-1:** The second paragraph of Section 1.1.1 is missing a closing period. Similarly, the last sentence of Section 4.0 (Scope and Role of Operable Unit and Response Action) is also missing a closing period. d) **Section 7.0, Description of Remedial Alternatives for Burn Area of IR Site 1, Page 7-1:** The first sentence lists Alternative S1-4a as Alternative S14a. e) **Section 7.0, Description of Remedial Alternatives for Burn Area of IR Site 1, Page 7-1:** A reference to the FFS is not included in the second paragraph of Section 7.0. Please revise the RODA to address these and all other editorial/grammatical issues.	The editorial/grammatical issues listed have been addressed as follows: a) This correction has been made. b) The transcript was not available at the time of issuance of this version of the Draft RODA. The transcript is now available and included in the RODA. c) These corrections have been made. d) This correction has been made. e) This citation has been added.

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RESPONSES TO PUBLIC COMMENTS ON

THE PROPOSED PLAN FOR MODIFIED REMEDY AT IR SITE 1 BURN AREA

Alameda Point, Alameda, California

Appendix D to DCN: AMEC-8816-0002-0186

Comments by: The Public		Responses by: U.S. Navy
Comments: April 24, 2013		Responses: July 22, 2013
Michelle Stibbs (received via email on April 11, 2013)		
1	The newly proposed remedy to clean up the toxic waste dump in Alameda is not only irresponsible, but foolish. This is our home; we grow our food and our kids here. Please DO NOT let them leave chemicals like this (see below) in our home. Be responsible; take care of the issue in the correct manner. Do not just put a steel band-aid over the problem. Get the chemicals out so we can raise our kids and build our lives here. I've lived in Alameda for 10 years, I own a business here, and this dump is the ONLY thing that has ever made me want to leave. Would you raise your children on a toxic waste dump? Protect us and our town, get these chemicals out of here.	The U.S. Navy (Navy) appreciates your comment and understands that the community has concerns about the newly proposed remedy for the Burn Area at IR Site 1. It is important to keep in mind that all of IR Site 1 is designated as open space and that no residential use of the property is anticipated by the City of Alameda. Groundwater beneath IR Site 1 does not have a beneficial use as a source of drinking water. The Navy received concurrence from the San Francisco Bay Regional Water Quality Control Board and U.S. EPA that because of the high level of dissolved solids likely due to seawater intrusion groundwater beneath the western portion of Alameda Point, including IR Site 1, is not a suitable drinking water source. The proposal to contain the waste in the Burn Area is consistent with the remedy for the rest of IR Site 1 which was selected in the 2009 Record of Decision (ROD). Although the selected remedy would have excavated much of the contamination in the Burn Area, the area was not intended for unrestricted use because it is only a small part of IR Site 1 where use will be restricted and is isolated from the rest of Alameda Point. The proposal to leave the burnt material in place is based on information regarding the nature and extent of the burnt material collected after the 2009 ROD was signed. The pre-design study showed that more of the burnt material was below the water table, that it extended farther inland than anticipated and that excavating, dewatering and transporting the material would be more difficult and costly than expected. Studies also showed that the groundwater within the Burn Area was not posing a threat to the Bay. Finally, the Navy identified the closed cell waste isolation bulkhead as a more cost effective means to stabilize the Burn Area in the event of a seismic event. Both the area proposed for excavation and the

		surface of the Burn Area which will be covered will be scanned. Any radiological hot spots identified will be removed prior consolidating the burnt material and placing the soil cover over the wastes. The hotspot material removed will be transported to an offsite disposal facility. The Navy and the BRAC Closure Team (BCT) composed of the United States Environmental Protection Agency (U.S. EPA), California Department of Toxic Substances and Control (DTSC), and California Regional Water Quality Control Board (RWQCB) have evaluated all the data and other site-specific information collected to date and have concluded that the newly proposed remedy for the Burn Area is protective of human health and the environment. This conclusion was collectively reached after a thorough evaluation of many criteria including: overall protection of human health and the environment; compliance with applicable or relevant and appropriate requirements [ARARs]; long-term effectiveness; reduction of toxicity, mobility, or volume through treatment; short-term effectiveness; implementability; and cost. Closed Cell Waste Isolation Bulkhead: The waste isolation bulkhead is intended to be a permanent component of the proposed CERCLA remedial action to contain the waste within the Burn Area. It will be inspected and maintained just as the landfill cover will be maintained to assure protectiveness. The bulkhead will also serve as a barrier to contain Burn Area wastes in the event of a seismic event. The soil cover that is a component of the Site 1 remedy would be extended over the Burn Area and tie into the waste isolation bulkhead. Each component of the remedy will be maintained as long as necessary to provide adequate protection of human health and the environment. The Navy retains ultimate responsibility under CERCLA for successful implementation and maintenance of the remedial action and ensuring the remedial action's continuing protectiveness into the future as required by law. Land Use and Potential Exposure to Waste: The Burn Area is a small part of IR Site 1 Landfill and its future use will be restricted to open space recreational activities. The waste isolation bulkhead will form a vertical wall at the shoreline, therefore there will be no beach created adjacent

		to this part of Site 1. The waste will be covered by three feet of clean soil including a vegetative cover so surface users will not be exposed to the waste material. Any construction, or other disturbance of the cover, will require approval by the Navy and the regulators. Repair and Replacement of the WIB: The Navy is responsible for maintaining and or replacing the waste isolation bulkhead. The full cost of this obligation does not appear to be included because most of the costs will be incurred in the future. The cost method used to evaluate options under CERCLA reduces the impact of future costs by calculating the present Discounted Value of future costs. Seismic Conditions and Sea Level Rise: A key part of the remedial design will be the Navy's evaluation of the potential for damage to the waste isolation bulkhead in the event of a seismic event. The design will also take into account anticipated changes in sea level. The regulators must be satisfied that these evaluations are adequate before they approve the design. Off-shore Sediments: The Navy and the regulators have evaluated the off-shore sediments and have determined that no remedial action is required. Therefore there is no potential for the stability of the waste isolation bulkhead to be put at risk by excavation of off-shore sediments. Wetlands: The IR Site 1 wetlands are not located within the Burn Area. The proposed change will not affect any existing wetlands. The Navy remains committed to replacing wetlands which will be impacted by the construction of the IR Site 1 cover.
Caitlin Keen (received via email on April 11, 2013)		
2	I have recently been made aware of the modification to the cleanup proposal at the Alameda Point, involving the installation of a temporary bulkhead and soil cover. I strongly object to this approach. By amending the cleanup plan to cap instead of remove the toxic waste, the Navy is avoiding full responsibility for full cleanup of the contamination. In addition, by using short term data to create unrealistic scenarios of long term outcomes, the	Please see the response to Comment 1 above. The waste isolation bulkhead (WIB) would be a permanent, not a temporary, component of the proposed modified CERCLA remedial action for the Burn Area. The soil cover that is a component of the original remedy would tie into the WIB. Each component of the remedy will be maintained by the Navy as long as necessary to provide adequate protection of human health and the

	Navy is hedging financial and moral responsibility to leave the property safe and habitable for residents. As a mother of a very small child and a resident of the west end near the point, my concerns of the long term safety of the cleanup are compounded. When our families and our children are potentially at risk, there must be no doubt as to the permanence of the cleanup. That responsibility must not fall to its residents at a future date. My hope is that the Navy will return to the plan to fully clean the site and not take short cuts that put an entire community at risk.	environment. The Navy will retain ultimate responsibility under CERCLA for successful implementation and maintenance of the remedial action and ensuring the remedial action's continuing protectiveness into the future as required by law. Both the original and the modified remedies are protective of human health and the environment. The data collected over three decades to support the Feasibility Study and the Focused Feasibility Study indicate that under current conditions, there are relatively low levels of contaminants and very little, if any, movement of contaminants is occurring. Enclosing the waste with a WIB and soil cover will ensure the waste remains contained, even in the case of seismic events (i.e., earthquakes).
Hailey Ashcraft (received via email on April 11, 2013)		
3	I am writing as a homeowner and mother to state my opposition to the new modified remedy. Simply installing a temporary metal bulkhead, and covering with soil is not a remediation, but rather it is an irresponsible, temporary patch. Given the extent of the chemical and radioactive contamination in the area, it is a dangerously shortsighted approach, and that we, the residents of Alameda, deserve better from the Navy. My children drink the tap water, play in the beach, and we play at the Navy base often. This needs to be a safe environment. My grandfather served in the Navy and held it in great esteem. I am sickened to think that the Navy would cut corners and put families at serious risk. The Navy created this toxic waste dump and it is their responsibility to clean it up properly and permanently through full remedy.	Please see response to Comments 1 and 2 above. The bulkhead would be a permanent, not a temporary, component of the proposed modified CERCLA remedial action for the Burn Area. The soil cover that is a component of the original remedy would tie into the WIB. Each component of the remedy will be maintained by the Navy as long as necessary to provide adequate protection of human health and the environment. Navy will retain ultimate responsibility under CERCLA for successful implementation and maintenance of the remedial action and ensuring the remedial action's continuing protectiveness into the future as required by law.
Matabuena-Lev Family (received via email on April 11, 2013)		
4	Thank you so much for opening up the upcoming decisions about clean up at Alameda Point for public comment. We are homeowners here in Alameda, living in a house purchased by our family in 1969, when my father-in-law was stationed at the Alameda Naval Base. Our two-year-old daughter is our family's third generation to live on the island, and we plan to continue to raise her here. As such, we feel a deep stake in ensuring that she can grow up in a community that is thriving and in which she will be safe from harm. My understanding of the proposed plan changes being presented by the Navy is that, while they will save costs at a	Please see responses to Comments 1 and 2 above.

	time when all institutions and communities are struggling financially, they may not provide the most effective and complete, long term remediation of toxic materials present at this part of the base. Sadly, our predecessors may not have understood the damage they were doing when they disposed improperly of hazardous wastes, but our generation has both the awareness and the technology to make better choices now. I know it is difficult to have to pay (literally) for mistakes made before our time when there are so many pressing constraints on our resources in the present. Still, I implore the Navy to take measures that protect the long term health of Alameda's residents and our environment by removing hazardous wastes as completely as possible, even if it requires a greater commitment of funds. Burying the problem only delays a disaster, it doesn't prevent one, especially given our proximity to the ocean, the changing global climate, and ongoing seismic fluctuations. We need to clean this up the right way. We have a responsibility to ensure that future generations of Alamedans aren't saddled with the same toxic pollution problems we are facing today. Let's work together to leave our children a cleaner, healthier world in which individuals and institutions alike make decisions for the well-being of all. Thank you for taking our community's concerns into consideration.	
Kathleen Schumacher (hand-written comment at Proposed Plan meeting)		
5	Does this plan for encasing toxics consider the placement of such a bulkhead in an area with 7 fault lines and in particular, the Hayward/Rodgers fault, the most likely to move in the next 30 years? What about sea rise levels with climate changes causing more severe weather in the future? Has this been a consideration in the planning for such a "WIB"? This seems like a <u>very</u> short term plan to me!	The geology of the site and surrounding Bay Area is known and being addressed in the detailed design of the WIB. The components of alternative BA-1 will be designed to withstand the forces associated with the maximum credible earthquake. Risks associated with climate change, like sea level rise, are also being considered and will be documented in the Remedial Design and Remedial Action Work Plan, which is forthcoming.
Paul Whitworth (hand-written comment at Proposed Plan meeting)		
6	Based on the information presented, the Open Cell WIB is the best solution for Alameda Point. Why not extend the length of the Open Cell WIB in order to protect more than 750' +/- of shoreline?	The WIB along the shoreline is a geotechnical remedy associated with the close proximity of the waste to the shoreline within the Burn Area. Waste in other areas of the site is considerably farther from the shoreline and, therefore does not require this geotechnical remedy.
Gina Arnone (hand-written comment at Proposed Plan meeting)		
7	Excellent presentation! The Open Cell WIB is by far the best solution for the Alameda Point project. I believe protecting California's shoreline is of utmost importance. In that regard, I strongly recommend extending the Open Cell system to protect more of the shoreline. I don't see any alternative.	Comment noted. See also response to Comment 6.

Ben K. Mickus (received via email on April 23, 2013)		
8	I have recently read about the Navy's proposed plan to reduce the clean-up effort of the toxic waste burn site at Alameda Point. Speaking as an Alameda resident, parent, and licensed architect, I would like to express my serious concern and complete opposition to the new proposed plan. Alameda Point can become an incredible asset to the city of Alameda, and the Bay Area as a whole. If any of the development plans on the board come to fruition, the use of the Alameda Point land will grow dramatically, with residences, businesses, parks or some combination of uses taking advantage of this valuable piece of real estate. The success of those plans may be put in jeopardy by literally burying a known problem of radioactive contamination in the soil, instead of properly removing it. In light of similar concerns raised at Treasure Island recently, with the discovery of Cesium 137 in an area of future development, the Navy should not make the same mistake here in Alameda. The additional cost of clean up now, will be more than offset by the added value of clean develop-able land to build on down the road--something to be publicly praised rather than secretly hidden beneath the ground. Additionally, considering how many families with children live in Alameda, it is especially alarming to know that radioactive material lies just beneath the soil in someone's future backyard. Taking a walk around Crab Cove, it is common to see kids digging in the mud looking for marine life, with the ARPD guiding them on this unique learning experience. It would be a shame for moments like that to be taken away because of the danger that a metal bulkhead just below the surface soil may pose if it is flooded or otherwise breached in the future. Most of all, the Navy should be doing everything they can to ensure the safety of Alameda residents. They should properly clean up the toxic area they created. The City of Alameda has a chance to become a model of forward-looking redevelopment based on what is done at Alameda Point. That starts from the ground up--and having clean ground to live and build on. Please fully excavate the site, and dispose of all dangerous materials properly off site. Give the future of our city a clean slate to work with!	Please see responses to Comments 1 and 2 above. The decision to propose to modify the remedy from excavation to stabilization for the Burn Area does not change the planned future reuse, which is limited to open space and recreational uses. Please note that the contamination at Site 1 is not being secretly hidden beneath the ground. The CERCLA Administrative Record provides documentation available to the public which identifies the location, nature, and extent of contamination at IR Site 1. The human and ecological risks have been quantified and evaluated with regulatory agency (i.e., BCT) oversight and concurrence. The amended remedy for the Burn Area protects human health and the environment. Additionally, the Navy is responsible to ensure the remedy remains protective in perpetuity. The CERCLA Administrative Record is available at the Alameda Public Library and also at Alameda Point Building 1.

Francis McIlveen (received via email on April 23, 2013)		
9	I am writing in opposition to the proposed plan for the modified remedy at IR site 1 Burn Area. My family lives within blocks of the former NAS. We are raising our children (who are very young) here. We grow some of our food here. We are quite invested in this neighborhood and in the health of the environment here. Hence we are quite concerned about the clean up process at the former NAS which you are coordinating. I am opposed to the modified plan because, it appears to actually not be remediation, but rather a temporary measure. Additionally, there are some critical environmental & climatic issues, which were not addressed in the computer models which appear to form the basis for the risk assessment done for the FFS. I will list the reasons for my opposition: The FFS cost analysis does not account for the true costs associated with the Proposed Plan. The Proposed Plan's true costs can be expected to last indefinitely, given the nature of the contaminants at the Burn Area (per the site characterization analyses). With a half-life of 4.4 billion years, uranium-238 at the site will require maintenance & monitoring of the WIB indefinitely. Can the Navy or its contractors estimate the nominal future costs of replacing the WIB in 300 years, let alone one billion? Even the more ubiquitous contaminant, radium, has a half-life of 1,600 years. This is truly an unimaginable span of time, particularly when trying to estimate the risk, and cost analysis for a temporary 'solution' to containing and preventing this toxic waste dump from leaching into the San Francisco Bay and spreading into surrounding surface areas. The FFS cost analysis doesn't account for your own engineer's analysis about the expected longevity of the WIB, the costs of routine monitoring & maintenance ($25,000 every 5 years, and $50,000 every 10 years, respectively), nor the regular full replacement cost of the WIB (which I believe the FFS has budgeted at $7 million for the initial installation-only cost) and which the engineer estimated would be required every 100 years (assuming that a '100 year life-span' means what it says). We are looking at spending $8.6 million (in today's dollars, with today's cost estimates) just to get through a single half-life of the radium-226 at the site (and $24.2 million just to get through two half-lives of radium) not to mention the costs to contain uranium-238 for a single 4.4 billion year half-life. In my review of the FFS, I did not see that this future cost (on which we can certainly rely) being accounted for in the full cost-benefit analysis. This omission strikes me as reckless. The focus of the FFS, thus, seems to be more of an attempt at finding a very short-term, stop-gap measure at a lower cost, in	Please see responses to Comments 1 and 2 above. The geology of the site and surrounding Bay Area is known and is being addressed in the detailed design of the WIB. The components of alternative BA-1 will be designed to withstand the forces associated with earthquakes predicted in San Francisco Bay. Risks associated with climate change, like sea level rise, are also being considered and will be documented in the Remedial Design and Remedial Action Work Plan, which is forthcoming. Please note that the San Francisco Bay Area has numerous landfills that continue to be safely managed long-term. FFS Cost Analysis: You are correct, ICs, including maintenance and monitoring of the WIB and the overall site remedy will be required in perpetuity to ensure the remedy remains protective of human health and the environment. Please note the standard duration for FS cost estimating is 30 years as defined in the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). This timeframe normalization is done to allow alternatives to be compared to one another. It is not meant to imply that this is the useful lifetime of the remedy. FFS Risk Assessment Modeling: The reactive transport model used to simulate the movement of chemicals of potential concern (COPC) dissolved in the groundwater within the Burn Area to the San Francisco Bay relied on a steady-state flow regime considering average groundwater and sea level pressure heads. The time scale of the reactive transport simulations extend out to 1000 years with many of the COPCs transport time for maximum bay water concentrations in the hundreds of years. Sea level rise was not considered in the reactive transport model, which is a conservative assumption. Considering that the exposure pathway assessed, which was the submarine discharge of groundwater to the San Francisco Bay, higher sea level would translate to a shallower gradient between the groundwater and the ocean. Shallower gradients from the groundwater to the bay would slow the discharge of groundwater to

	order to push off truly dealing with remedying the problem until after the BRAC no longer has its mandate, and thus after responsibility for the site has been transferred to a different entity. Otherwise, why waste money on only a temporary band-aide if the Navy intends to maintain responsibility until the site can be truly declared safe? The Risk Assessment modeling omits critical future climate and weather patterns. The new plan (and the computer model used to assess the risks) doesn't take into account long-term climate issues (such as the 200 year mega-floods, which will completely submerge that area under flood water, as it did in the winter of 1861-1862, and have a profound impact on the stability of the containment structures & ground cover). The 200 year mega-storms (brought to this area by the atmospheric river) have been found through archeological studies. A computer model (created by the US Geological Survey) to predict the impact of the next 200 year mega-storm, named ARkStorm is actually a diminished model from what actually happened in 1861-62, according to Dale Cox, Regional Hazards Coordinator of the USGS. And according to Mr. Cox, the famous mega-storm of 1861-62 is a small version of what historically has hit the Northern California coast every 200 years for the past millennia. There are reliable accounts from the 1861-62 mega-storm that water levels in the Bay were up by many feet for at least a week, high enough to create an ebb tide that never ceased day-in-and-day-out during at least one week of the 42-day rain-storm. Steamships passed easily over what at that time were normally mudflats east of Richmond Island (where the city of Richmond now sits on landfill). That week, they took water for their boilers from the Bay, which means it was freshwater, all salt kept out by the outflow from the Bay's watershed. This means that the water level of the Bay stayed at least seven feet above the mean low tide, and likely much higher for parts of the storm(s). See http://www.novim.org/resources/novim-news/275-megastorms-could-drown-massive-portions-of-california <http://www.novim.org/resources/novim-news/275-megastorms-could-drown-massive-portions-of-california> Nowhere in the FFS's description of the computer models, was this historical weather pattern mentioned. Instead, it appears that the computer (conceptual) model for assessing the risk of soil and groundwater contaminants leaching/migrating out of the area (and e.g. into the Bay, or surrounding ground water) was based on data from a 77 day period of tidal action on the ground water. And that small sliver of time-data was extrapolated to predict "the migration and mixing of contaminants from the Burn Area into San Francisco Bay and Oakland Inner Harbor over the next 1,000 years." How can you call that a risk-assessment? It omits	the bay, resulting in lower predictions for maximum COPC in the bay water. Tidal Efficiency Monitoring: The high frequency water pressure data collected over the 77 days at Burn Area wells were used to 1) assess the tidal efficiency and 2) the lag time between tide and groundwater pressure response at each well monitored. These results were then used to refine the design of a groundwater sampling campaign to assess if tidal influence produces measurable changes in COPCs (e.g., are samples diluted due to tide rising or concentrated due to tide lowering). The results of the tidally-biased groundwater sampling showed that tidal influence did not quantifiably affect the detected concentrations of COPCs. This conclusion along with the time scale of contaminant transport (hundreds of years) supported the decision to utilize a steady-state groundwater flow model for the assessment of the reactive transport of COPC from the Burn Area to the bay. The 77 days of high-frequency groundwater pressure data were also used as a verification step in the development of the reactive transport model. After the model was calibrated to mean pressure heads in a steady-state condition, it was then used to simulate the transient pressure responses observed over the 77 days. Climate and tide data were used to simulate the varying stress periods over the 77 days of high-frequency groundwater pressure monitoring and the transient results of the model were compared. ICs and Long-term Protection: Metals present at IR Site 1 do not decay like radioactive materials. As a result, the metals at Site 1 require safe containment in perpetuity. The Navy is responsible to ensure that the remedy remains protective, and the ICs are enforced in perpetuity. Future Potential Environmental Hazards: Risks associated with climate change, like sea level rise and large storm events, are being considered in the Remedial Design and Remedial Action Work Plan, which is forthcoming. All of the public comments on the Proposed Plan will be publically available in a Responsiveness Summary in the Amendment to the ROD.

	analysis/modeling for what will most certainly happen within the next 50 to 150 years--a mega-storm which will threaten to seriously compromise the structural integrity of the WIB, not to mention the likelihood of leaching and release of contaminants into flood waters--to be spread throughout the surrounding neighborhoods, the Port, and so on. The Risk Assessment models also do not account for sea level rise expected from global warming. Even Planning Departments around the San Francisco Bay are requiring shore-front developers to include measures for accommodating the expected rise in sea level over the next century or two. http://www.mercurynews.com/science/ci_20917927/california-faces-more-serious-risk-sea-level-rise?source=rss Considering that this was the toxic waste dump for the Navy, over the course of decades, the Navy has a special duty to ensure that both the ARkStorm scenario and sea level rise are incorporated into the risk assessment. Institutional Controls are inadequate for ensuring containment of such long-term toxics. Over the next few centuries, it is ludicrous to expect that a recorded deed restriction is going to be honored, or even recognized, or that the institution acting as guardian of such document (currently the Alameda County Recorder) will even exist, or that its successors will be capable of enforcing it, or that the transition to a successor institution will even be smooth enough to guarantee the continuity necessary for ensuring enforceability of the IC. For contaminants with a toxicity of decades, ICs can be a reasonable measure for containment, but they are worse than speculative for contaminants with half-lives measured in millennia or eons. Besides the radioactive contaminants, there are dozens of very dangerous chemicals--at very dangerous concentrations--at the Burn Area. The Navy has a moral duty to actually remediate this toxic waste dump--to excavate and remove the contaminated soil & materials to a real (and regulated) toxic waste dump which is not at the very edge of a major body of water, in the middle of one of the most densely populated areas in the United States of America. I would greatly appreciate if you would make all of the public comments publicly available.	

Solvejg Rose (received via email on April 17, 2013)		
10	My name is Solvejg Rose and I am a resident of the City of Alameda. My family and I are living at the West End of Alameda since 2005. I am writing to voice my opposition to the modified remediation protocol proposed by the Navy. The Navy's plan to simply install a temporary metal bulkhead over the area and to cover it with soil is not a remediation, but rather an irresponsible, temporary patch. Given the extent of the chemical and radioactive contamination in the area this approach is short sighted and dangerous. The proposed solution will not outlive the toxicity of the contaminants, and once it fails, the site will continue to pollute the bay, groundwater and soil and threaten the environment and the health & well being of our children and grandchildren. As you know, the Navy acts with the full understanding that this metal bulkhead is corroding over time and that the City of Alameda has to spend millions and millions of our tax money, which the city does not have, to contain the chemical and radioactive health threat posed by this site. If we do not stop this proposal, we are effectively agreeing to pay for the remediation ourselves. I urge you to stop this proposal. The residents of Alameda, deserve better from the Navy. The Navy created this toxic waste dump and it is their responsibility to clean it up properly and permanently through full remediation (such as full excavation and proper, off-site disposal). I appreciate your attention to this urgent matter.	See response to Comments 1, 2 and 3 above. The bulkhead would be a permanent, not a temporary, component of the proposed modified CERCLA remedial action for the Burn Area. The soil cover that is a component of the original remedy would tie into the WIB. Each component of the remedy will be maintained by the Navy as long as necessary to provide adequate protection of human health and the environment. Navy will retain ultimate responsibility under CERCLA for successful implementation and maintenance of the remedial action and ensuring the remedial action's continuing protectiveness into the future as required by law.
Diane Livia (received via email on April 20, 2013)		
11	I am opposed to the modified remedy at Alameda Point which the Navy is proposing. Your plan does not take climate change into account fully, and makes a "swimmable, fishable, drinkable" San Francisco Bay an impossible goal. Please contemplate the characteristics of the contaminates once more: <u>VOCs SVOCs</u> 1,2-Dichlorobenzene 2,4-Dimethylphenol 2-Hexanone Acetone <u>PAHs</u> Benzene	Both the original and the modified remedies are equally protective of human health and the environment. The data collected to support the Feasibility Study and the Focused Feasibility Study indicate that under current conditions, there are relatively low levels of contaminants and very little, if any, movement of contaminants is occurring. Enclosing the waste with a WIB and soil cover will ensure the waste remains contained, even in the case of seismic events (i.e., earthquakes). Please also see also response to Comment 10.

	Acenaphthene cis-1,2-Dichloroethene Anthracene Ethylbenzene Benzo(a)anthracene m-Xylene & p-Xylene Benzo(a)pyrene Methylene chloride Benzo(b)fluoranthene Naphthalene Benzo(g,h,i)perylene o-Xylene Benzo(k)fluoranthene Toluene Chrysene trans-1,2-Dichloroethene Dibenz(a,h)anthracene Vinyl chloride Fluoranthene 1,2,4-Trimethylbenzene Fluorene 1,3,5-Trimethylbenzene Indeno(1,2,3-cd)pyrene 4-Isopropyltoluene Naphthalene n-Butylbenzene Phenanthrene n-Propylbenzene Pyrene sec-Butylbenzene <u>Pesticides</u> 4,4'-DDD 4,4'-DDE beta-BHC <u>Metals</u> Barium Cadmium Chromium Cobalt Copper Lead Manganese Molybdenum Nickel Silver Thallium <u>Dioxins/Furans</u> 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDD	

	1,2,3,4,6,7,8,9-OCDD 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF 1,2,3,4,6,7,8,9-OCDF	
RAB Comments (received via email April 24, 2013)		
12	Thank you for the opportunity to comment on the above document. The discussion period provided before the public meeting on the proposed plan proved very helpful to the RAB. It is unfortunate that such a meeting did not occur last year when the focused feasibility study was issued in August or September. We were able to elicit the following important information. • The expected life of the waste isolation bulkhead (WIB) is 100 years or less, most certainly less if a major seismic event occurs. • The cost estimate for the Navy's preferred alternative BA-1 does not include provision for replacing the WIB. The Navy may be expecting to transfer responsibility for the long-term maintenance of the site to a new owner, such as the City or East Bay Regional Park District. • No provision is made for a rodent barrier. • The thickness of the soil cover was estimated as being three to four feet. • The interlocking sheet piling comprising the WIB will be driven 15 feet into the Merritt Sand below mean sea level and rise ten feet above mean sea level. • The WIB will pose an obstacle to groundwater flow and cause the groundwater to "mound" up behind the bulkhead. • Loss of seasonal wetlands due to construction of the burn area cover will be mitigated by new seasonal wetlands elsewhere in site 1. • The Navy's consultants were unable to provide any specific examples of interlocking sheet pile barriers, such as the one proposed, that have withstood a severe seismic event. • The row of buried barges extends into the burn area but will not interfere with installation of the WIB because the barges lie farther to the east. • A radioactive hot spot was found in the burn area during the time critical removal action. This hot spot	See responses to Comments 1, 2, 3, and 10 above. **Rodent Barrier:** The Navy and regulatory agencies, in consultation with California Department of Fish and Game have concluded that a 36- to 48-inch soil cover is adequate barrier to deter rodents from compromising the cover. Please note that Navy is responsible for ensuring the long term integrity of the soil cover including inspections and making required repairs. **Contaminant Release:** The data collected to support the Feasibility Study and the Focused Feasibility Study indicate that under current conditions, there are relatively low levels of contaminants and very little, if any, movement of contaminants from groundwater discharged from the Burn Area to the San Francisco Bay. Although no site-specific biological surveys were completed in the Burn Area, the risk assessments performed to support the FS and the FFS considered ecological risks and screening levels in the development of project specific action levels. Enclosing the waste with a WIB and soil cover will ensure the waste remains contained, even in the case of seismic events (i.e., earthquakes). The 2005 Feasibility Study and the 2013 Focused Feasibility Study risk assessments indicated no unacceptable risk to human or ecological receptors. The mounding of groundwater behind the WIB will translate to lower groundwater velocities through the bulkhead to the bay and/or longer travel paths around the bulkhead to the bay resulting in lower bay water concentrations than predicted without the bulkhead. **Cost Analysis:**

	extended to a depth of 5 to 8 feet and might constitute what was previously referred to as a "radium disposal pit" within the burn area. • The primary reason why the excavation and removal alternative has increased in cost relative to "containment" is that the volume of material has increased (depth is now 30 feet versus the 10 feet assumed in the original feasibility study). Also, radioactively contaminated materials would have to be trucked hundreds of miles to Utah. • The entire area of contamination that lies south of the WIB will be excavated and moved into the portion of the burn area away from the shoreline. This is a significant document about a very serious source of contaminant to the environment and requires close scrutiny. After consideration the RAB has concluded that the Alternative BA-1, preferred by the Navy, is unacceptable for the following reasons. **Contaminant Release** The burn area of site 1 is an especially critical area because of its proximity to the Bay. The Navy has maintained for the last ten years that no leakage from the dump enters the Bay. The document clearly indicates that contaminants adhered to soil and in the presence of bay water are now leaching into the Bay. Tidal influence has been calculated to impact between the first 100 to 200 feet. The State Office of Human and Environmental Risk (HERO) states that the naphthalene standards protective of aquatic life are not met by BA-1. Trench T-13 showed a petroleum sheen indicating free product. The Navy maintains that chemicals found in the groundwater that exceed protective levels are not a problem because they add insignificant amounts to the Bay by virtue of attenuation and dispersal. It is acknowledged that the WIB will cause groundwater mounding that will be diverted around the ends of the bulkhead. Although it contains dissolved radiological materials, metals and total petroleum hydrocarbons, according to the groundwater sampling performed, the water will not be treated. Because the original plan was to construct a cap there was no environmental risk assessment performed. The document sampling table 2.3 indicates there is a potential risk. If examined as a component of total loading to the Bay that includes OU 2B, sites 2, 28 and 34, as well as Hunters Point, Treasure Island and commercial sites around the Bay, cumulative contamination of the Bay may be significant. Therefore, a risk assessment should be required. S1-4A was overwhelmingly preferred by the RAB community members and the regulators. One possible reason, other than	Cost analysis was conducted in accordance with the CERCLA process under the NCP. Each component of the remedy will be maintained by the Navy as long as necessary to provide adequate protection of human health and the environment. Navy will retain ultimate responsibility under CERCLA for successful implementation and maintenance of the remedial action and ensuring the remedial action's continuing protectiveness into the future as required by law. The NAVY understands that the lifespan of the bulkhead at 100 years does not necessarily translate to a complete replacement of the WIB but instead could signify a need for repair. Additionally, projecting the impact of factors such as the advancement of technology beyond 100 years on the maintenance/repair or replacement of the WIB engage a high level of uncertainty that make long-term cost comparison more complex than multiplying the 2013 replacement cost by the quotient of the half-life divided by the anticipated remedy lifespan. **Liquefaction and Seismic Risks:** Please note the proposed WIB would be designed to withstand the maximum credible earthquake; the same design requirement for the soil cover remedy over IR Site 1. OPEN CELL bulkheads Deformation of the WIB (settlement and or lateral movement) during and following a seismic event is expected. The Remedial Design will provide rationale supported by engineering analysis and design drawings detailing the construction methods. The Remedial Design will demonstrate the WIB's ability to contain wastes in the event of a seismic event. The integrity of OPEN CELL bulkheads installed in Alaska, particularly the dozens of installations along the shoreline in the Aleutian Chain, has been maintained throughout the recorded earthquakes such that no observable movement or damage has been observed. They remain functional for their intended use. Review of the borings, trenching, and geotechnical soil sampling analysis conducted on the soil and waste layers behind the WIB, including the materials planned for the soil cover, do not contain a confining layer that would result in sand boils forming within the Burn Area. **Skeet Range:** The Alameda former skeet range is located south

	cost, that this alternative was rejected by the Navy is that it identified wetlands that would need mitigation. As no biological survey has ever been performed, it cannot be assumed there would be no harm done to the environment by bulldozing the area. If the Navy's preferred alternative moves forward, a biological survey should be performed. If the survey reaches the same conclusion as was found at site 34, onsite mitigation would be preferable to off-site mitigation and could restore the Northwest Territories to a higher quality open space. **Cost Analysis** The cost comparison is invalid as no provision was made for replacing the barrier after it has deteriorated or lost its effectiveness. If the Navy is able to transfer responsibility for the long-term maintenance of the site, is the Navy or the new owner responsible for the cost of replacing the WIB at the appropriate time? The half-life of radium-226 is 1,620 years and toxic metals, such as cadmium, hexavalent chromium, zinc and lead, will remain in the soil indefinitely unless washed into the bay. If one accepts the consultant's estimate of 100 years for the barrier's life, it would have to be replaced 16 times over a 1,600-year period. The estimated original cost of the barrier is approximately $5 million. Thus, if the Navy were to provide an upfront fund of $80 million (16 times $5 million), that might be adequate to provide for replacement of the barrier in 100-year intervals for the next 1,600 years. This would be in addition to the $13.1 million estimate in the proposed plan, bringing the total cost closer to $100 million. This assumes that the money could be invested to match the future inflation rate. For example, $5 million in present costs would translate to $250 million after 100 years at an assumed inflation rate of 4 percent per annum. After 200 years the future cost would be $12.7 billion, etc. However, future replacement costs probably would be higher than the original cost because the deteriorated sheet piling would have to be removed before the new wall could be installed, making it a more complicated procedure. At the public meeting the Navy did not commit definitively to the repair or maintenance indefinitely. The cost analysis is calculated for 30 years only. Based on these longevity calculations, during the life of the bulkhead, it will need cyclic maintenance (anode replacement) four times at a cost of $300,000 per replacement before needing replacement, for a total cost of $1,200,000 in current dollars. If the maintenance were to be borne by the City or a future property owner, this is a significant cost that was not factored into the cost analysis. The original plan required sloping the western edge of the site back to establish a stable angle of repose should a seismic event occur. The preferred alternative does not include sloping and the focused feasibility study acknowledges that the WIB is	of the WIB alignment. **Global Warming and Sea Level Rise:** Risks associated with climate change, like sea level rise, are being considered and will be documented in the Remedial Design and Remedial Action Work Plan, which is forthcoming.

	likely to deform during a seismic event. Because the waste is not removed, the threat to the environment is not lessened. These issues should reduce the long-term effectiveness of the preferred alternative to low. It is unclear how S1-4A has a low rating for the reduction of toxicity, mobility or volume when the near-shore material would be removed. All in all the comparative analyses of alternatives is flawed and skewed to the Navy's preferred alternative. **Liquefaction and Seismic Risks** The alternative BA-1 is not protective of the environment. A severe seismic event is likely to damage and breach the WIB because it is anchored in sand that is subject to liquefaction. Liquefaction and resulting sand boils also would likely bring contaminants to the surface. Leaving the toxic waste in the ground over an area of highest risk for liquefaction (See the ABAG liquefaction risk maps for the bay area) AND at a location in close proximity to the active earthquake fault (Hayward Fault, highest risk for earthquakes in the near future (see USGS and ABAG seismic risk maps) has significant risks that were NOT addressed. The contractor representatives disclosed the substrate beneath the waste and fill is the Bay Mud, a relatively impermeable barrier above the water saturated, confined Merritt Sand). This is a perfect scenario for liquefaction induced subsidence and eruption of "Sand Volcanos" where sand and water erupt through the confining mud and flow to the surface entraining any contaminants encountered along the way and leaving pathways for liquids to migrate back to contaminate the aquifer after the subsidence related sand- and water- venting has ceased (it took weeks for the sand volcanos to cease flows of sand and groundwater, triggered by the Loma Prieta Earthquake under similar physical conditions at the Port of Richmond). Liquefaction with the accompanying subsidence will potentially lower the surface of areas of the western portion of the former NAS Alameda subjecting near surface sediments to new erosional conditions. In addition, the WIB is to be anchored in the Merritt Sand, the very sediment most likely to act as a liquid during a seismic event, rendering the bulkhead at serious risk of failure, allowing access of groundwater and sea water to the interior of the waste dump. With respect to the near shore environment, particularly the contaminated sediments at the Skeet Range, the current bay shoreline is a sloping surface armored by scrap concrete and similar solid debris. This shoreline serves to dissipate and	

	disperse wave energy. The replacement, a vertical wall of metal plates will have the opposite effect, reflecting wave energy back and potentially disturbing and remixing the shallow contaminants incorporated into the near shore sediments in the Skeet Range areas. We were told by BEC Derek Robinson at the March 2013 RAB meeting that the Treasure Island Skeet Range sediments are too toxic to leave in place and the Regional Water Quality Control Board requires them to be removed. It is reasonable to expect that a similar requirement may be applied to the Alameda Skeet Range contamination. How would the presence of this disruptive WIB limit the potential removal of contaminated skeet range sediments? Removing support from the toe of the structure seems to be an act likely to reduce the WIB stability, an alleged stability already questionable as the result of the significant seismic risk in this area and the liquefaction potential of the local sediments. **Global Warming and Sea Level Rise** At a July 25, 2011 presentation to City Council, Ms. Barbara Hawkins, City Engineer with the Public Works Department, described the 2008 Storm Drain Master Plan's 18" sea level rise analysis. Focusing on how an 18" sea level rise would impact the storm drain system in Alameda, Ms. Hawkins presented maps that indicated sea-level rise would not only flood the shoreline but that water would likely back up through the storm drains to be deposited into the city's downtown. Surely a significant seismic event that breeched the WIB would release the contaminants the Navy's proposed plan leaves in place? Would these contaminants not also back up through storm drains and be deposited into the city's core? Even without a seismic event, with sea-level rise expected to reach at least 50 inches by the end of this century, contamination in bay waters around the island will be increasingly problematic. The preferred alternative does not provide restoration or a permanent solution. At best, it will provide temporary containment only. There are so many deficiencies that had we been given adequate time, this letter would have been much longer. Not having been given an opportunity to review and comment on the draft, the proposed plan feels more like a fait d'accompli. We believe the Navy is resorting to artificial standards to circumvent regulations. This proposed solution (BA-1) is an enormous waste of time and money. It will not effectively resolve the issues caused by the dump. In addition that solution will burden the City, financially, environmentally and socially, and future property owners in perpetuity. Again, thank you for the opportunity to comment on this document.	