

**FY2012**

**PARKS RESERVE FORCES TRAINING AREA**  
**Army Defense Environmental Restoration Program**  
**Installation Action Plan**

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## Statement of Purpose

The purpose of the Installation Action Plan (IAP) is to outline the total multiyear cleanup program for an installation. The plan identifies environmental cleanup requirements at each site or area of concern (AOC), and proposes a comprehensive, installation-wide approach, along with the costs and schedules associated with conducting investigations and taking the necessary remedial actions (RA).

In an effort to coordinate planning information between the restoration manager, the US Army Environmental Command (USAEC), the Parks Reserve Forces Training Area (PRFTA), and the Installation Management Command (IMCOM)- Army Reserves Office, the executing agencies, regulatory agencies, and the public, an IAP was completed. The IAP is used to track requirements, schedules and tentative budgets for all major Army installation cleanup programs.

All site-specific funding and schedule information has been prepared according to projected overall Army funding levels and is, therefore, subject to change.

## Acronyms

AEDB-R	Army Environmental Database - Restoration
AOC	Area of Concern
APG	Aberdeen Proving Ground
AST	Aboveground Storage Tank
CAEPA	California Environmental Protection Agency
CALTRAN	California Dept. of Transportation
CAP	Corrective Action Plan
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
COC	Contaminant of Concern
CSTC	Combat Support Training Center
DD	Decision Document
EIS	Environmental Impact Statement
ER,A	Environmental Restoration, Army
FRA	Final Remedial Action
FY	Fiscal Year
GFPR	Guaranteed Fixed Price Remediation
IAP	Installation Action Plan
IMCOM	Installation Management Command
IRA	Interim Remedial Action
IRP	Installation Restoration Program
ISC	Initial Site Characterization
K	thousand
LTM	Long-Term Management
MC	Munitions Constituents
MEC	Munitions and Explosives of Concern
MMRP	Military Munitions Response Program
MRSPP	Munitions Response Site Prioritization Protocol
N/A	Not Applicable
NPL	National Priorities List
PBA	Performance-Based Acquisition
PCB	Polychlorinated Biphenol
PP	Proposed Plan
PRFTA	AEDB-R designation for Parks Reserve Forces Training Area
PRFTA	Parks Reserve Forces Training Area
RA	Remedial Action
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operation)
RAB	Restoration Advisory Board
RC	Response Complete
RD	Remedial Design
RIP	Remedy-in-Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
Seabees (CBs)	US Naval Mobile Construction Battalion
SI	Site Inspection

## Acronyms

SVOC	Semi-Volatile Organic Compound
TAPP	Technical Assistance for Public Participation
TPH	Total Petroleum Hydrocarbon
TRC	Technical Review Committee
USACE	US Army Corps of Engineers
USACHPPM	US Army Center for Health Promotion and Preventive Medicine
USAEC	US Army Environmental Command
USAEHA	US Army Environmental Hygiene Agency
USAPHC	US Army Public Health Command
USEPA	US Environmental Protection Agency
UST	Underground Storage Tank
UXO	Unexploded Ordnance
VENC	Environmental Compliance
VOC	Volatile Organic Compound

# Installation Information

## Installation Locale

**Installation Size (Acreage):** 2478

**City:** Camp Parks

**County:** Alameda and Contra Costa

**State:** California

## Other Locale Information

The Parks Reserve Forces Training Area (PRFTA) is located in California and has a generally flat, 487-acre cantonment area within its 2478 acres. The northern two-thirds of PRFTA consists primarily of grassy rolling hills and valleys (rising from about 350 feet to 750 feet) used as a training area and firing range. The PRFTA is a multi-use installation that hosts a variety of military and civilian tenants.

## Installation Mission

The mission of the PRFTA is to serve as a training center of excellence for assigned active component and reserve units and individuals, providing logistical, administrative, training, facilities, and support for the combined total force, and enhance the readiness of the reserve components by providing an environment that supports individual, collective and institutional training.

## Lead Organization

### Lead Executing Agencies for Installation

US Army Corps of Engineers (USACE), Sacramento District

USAEC

### Regulator Participation

#### Federal

US Environmental Protection Agency (USEPA)

#### State

California Integrated Waste Management Board

San Francisco Bay Regional Water Quality Board

California Department of Fish and Game

California State Historic Preservation Office

California Environmental Protection Agency (CAEPA), Department of Toxic Substances Control

### National Priorities List (NPL) Status

PARKS RESERVE FORCES TRAINING AREA is not on the NPL

### Installation Restoration Advisory Board (RAB)/Technical Review Committee (TRC)/Technical Assistance for Public Participation (TAPP) Status

The community has expressed no sufficient, sustained interest in a RAB.

## Installation Program Summaries

### IRP

**Primary Contaminants of Concern:** Dioxins/Dibenzofurans, Metals

**Affected Media of Concern:** Groundwater, Soil

### MMRP

**Primary Contaminants of Concern:** Munitions and explosives of concern (MEC), Munitions constituents (MC)

**Affected Media of Concern:** Soil

### CR

**Primary Contaminants of Concern:**

**Affected Media of Concern:**

# 5-Year / Periodic Review Summary

## 5-Year / Periodic Review Summary

Status	Start Date	End Date	End FY
Planned	201212	201212	2013

## 5-Year / Periodic Review Details

Associated ROD/DD Name	Sites
PRFTA-02 DD	PRFTA-02

# Cleanup Program Summary

## Installation Historic Activity

PRFTA, established in 1942, was one of the earlier facilities established not long after the inception of the US Naval mobile construction battalion (Seabees, aka CBs) and was used to support their mission. From 1942 through 1944 the installation was a camp called the Shoemaker Naval Reservation. During this time the installation functioned as a construction battalion replacement depot, a Naval personnel distribution center, and a Naval hospital. The facility became the largest station for Seabee personnel, incorporating roughly 90,000.

In 1946, after the war, the Secretary of the Navy disestablished the installation and from 1946 to 1953 it was leased to Alameda County and became the Santa Rita Rehabilitation Center. In 1953 the area was reacquired by the US Air Force and became Parks Air Force Base. It was primarily used as a basic training center, overseas replacement depot, and an air base defense training area. Up to 12,000 troops were housed on base at any one time for training for World War II and the Korean War.

In 1958, the US Air Force exceded the installation. Portions were then used as the US Navy radiological defense laboratory, where experiments were conducted on plants and animals. From 1959 through 1973 the Army operated the installation in standby status. In 1974 the Army declared the installation in excess, retaining 1,600 acres for National Guard and Navy use, while excess property was transferred to Alameda County and the Job Corps.

In 1973, the installation was reactivated and from then to the present the installation's operations have been in support of reserve components. Its perimeter was expanded back to where it nearly equaled its 1942-44 size. In 1975 the installation was officially established as the US Army Garrison, Parks Reserve Forces Training Area (PRFTA). Intermittently since 1964, selected parcels were released or leased to other entities. In 1988, 18 agencies and entities retained leases and easements to parcels within PRFTA. During this latter period, the installation served as a mobilization and training center for reserve components and became semi-active and a sub-installation of the Presidio of San Francisco. In 1992, it became a sub-installation of Headquarters, I Corps and Fort Lewis, Washington. In 1994, the Army Reserve Command classified PRFTA as a direct reporting installation to Fort McCoy, Wisconsin. In 2004 it was renamed Camp Parks and was merged with Fort Hunter-Liggett, Moffett Field Army Housing, and B.T. Collins to form the US Army Combat Support Training Center (CSTC).

In 2011, PRFTA organizations used the installation for a variety of activities including fire services, building maintenance range control, storage, demolition activities, and administration of utilities. Tenants included the residential communities' initiative; Clark/Pinnacle, California National Guard, Navy Seabees, Bureau of Prisons, and Armed Forces reserve units.

## Installation Program Cleanup Progress

### IRP

**Prior Year Progress:** Under a performance-based acquisition (PBA) the proposed plan (PP) for PRFTA-02 was finalized and a decision document (DD) is under review.

**Future Plan of Action:** Future Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) phases will continue under the PBA at PRFTA-02.

### MMRP

**Prior Year Progress:** Site PRFTA-007-R-01 is undergoing a remedial investigation (RI).

**Future Plan of Action:** A feasibility study (FS) will be conducted to evaluate alternatives and an RA will be conducted based on the selected remedial alternative.

### CR

**Prior Year Progress:** A Phase II site inspection (SI) report was completed and an RI/FS will begin at Tassajara Disposal Trenches (CCPRFTA-01) in late winter early spring and will be performed by US Army Public Health Command (USAPHC). Three new sites, CCPRFTA-06, CCPARKS 1, and CCPARKS 6 are in the scoping phase and will undergo an RI under a PBA.

**Future Plan of Action:** Future work will be determined after the completion of the RI/FS at CCPRFTA-01. CCPRFTA-06, CCPARKS 1, and CCPARKS 6 will have a completed RI.

**PARKS RESERVE FORCES TRAINING AREA  
Army Defense Environmental Restoration Program  
Installation Restoration Program**

# IRP Summary

**Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count:** 7/6

## Installation Site Types with Future and/or Underway Phases

1 Incinerator  
(PRFTA-02)

## Most Widespread Contaminants of Concern

Dioxins/Dibenzofurans, Metals

## Media of Concern

Groundwater, Soil

## Completed Remedial Actions (Interim Remedial Actions/ Final Remedial Actions (IRA/FRA))

Site ID	Site Name	Action	Remedy	FY
PRFTA-13	BLDG 761 FORMER FUEL AST	FRA	IN-SITU SOIL TREATMENT	2007
PRFTA-13	BLDG 761 FORMER FUEL AST	FRA	REMOVAL	2007
PRFTA-13	BLDG 761 FORMER FUEL AST	FRA	GROUND WATER TREATMENT	2007
PARKS7	DRUM DISPOSAL SITE	FRA	REMOVAL	2009

## Duration of IRP

**Date of IRP Inception:** 199402

**Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC):** 201212/201212

**Date of IRP completion including Long Term Management (LTM):** 201612

# IRP Contamination Assessment

## Contamination Assessment Overview

At present, PRFTA has no federal facility agreement or interagency agreement. There is no technical review committee (TRC) or RAB. The PRFTA has completed only one installation-wide preliminary assessment (PA). The facility has no active landfills and is not undergoing landfill RAs. Although historically the facility has been transferred between military branches and undergone various periods of deactivation, it has not undergone a previous base closure program.

In July 1981, a radiation protection evaluation of 22 buildings and areas was conducted. This study evaluated the current and past use of radioactive material at the camp. Three sites (PRFTA-07, PRFTA-06, and PRFTA-05) were found to have radioactivity, but the levels do not constitute a health hazard.

In June 1991, radiological surveys of the training areas and several additional sites at PRFTA were conducted. Radiation levels above background were not detected in the training areas; however, levels higher than background were detected at one location (PRFTA-06).

The PRFTA has undergone one comprehensive installation PA/records research study. It was conducted by Woodward-Clyde (under contract to the USACE, Sacramento District) in April 1994 and finalized in September 1996. The PA found approximately 60 areas that required further investigation. These areas included underground and aboveground storage tanks (USTs and ASTs), surface impoundments, landfills and disposal areas, suspected release sites, and washrack areas on-site. Recommendations were made concerning further investigation and characterization, to determine if any of these sites impacted the soil or groundwater.

In August 1998, the US Army Center for Health Promotion and Preventive Medicine (USACHPPM) completed a relative risk site evaluation (RRSE) to further evaluate areas of concern (AOCs) identified in the PA/SI. The results of the RRSE has lead to a number of further investigations and subsequent RAs at PRFTA.

In 1995, an investigation was conducted to determine the extent and chemical content of a mixture of ash observed in the walls of the excavation created during the demolition of building 109 former trash incinerator (PRFTA-02). This study concluded that concentrated ash does not extend more than a few feet back from the excavation; however, the lead content of this concentrated ash is high enough to cause the ash to be regulated in California as a hazardous waste. Additional RIs determined both lead and dioxin/furans concentrations were above action levels. An RI/FS was finalized in 2010 and PRFTA-02 is undergoing a soil removal action in 2011.

Currently, PRFTA-02 is the only active Installation Restoration Program (IRP) site in the AEDB-R. All other active sites are tracked under the Military Munitions Response Program (MMRP) and Compliance Restoration (CR).

## Cleanup Exit Strategy

Based on the results of the RI/FS, under a PBA a soil removal action is being performed in 2011. Future long-term management (LTM) requirements are to be determined post RA after four quarters of groundwater monitoring is performed.

## IRP Previous Studies

Year	Title	Author	Date
1981	Radiation Protection Evaluation No. 28-43-0152-82	PRFTA, USAEHA, APG, MD	JUL-1981
1987	Master Plan Report	PRFTA	AUG-1987
	Environmental Assessment	Federal Detention Center Federal Correction Institution	SEP-1987
	Draft Environmental Impact Report	Proposed Bent Creek Residential Development	SEP-1987
	Proposed Environmental Impact Report	Dougherty Valley General Plan Amendment	NOV-1987
	PRFTA Master Plan Report	PSF, DEH; 6th Army Engineers; COE, Sacramento District	NOV-1987
1988	Environmental Assessment and Initial Study for North Pleasanton Improvement District		JAN-1988
	Phase I Site Assessment, Department of Military, PRFTA	BSK & Associates	JAN-1988
	Revised Draft EIS and Draft Compatible Use Zone Report Implementation of Development Plans of PRFTA	PSF, DEH; 6th Army Engineers; COE, Sacramento District	FEB-1988
	Draft Environmental Impact Report -Dougherty Valley General Plan Amendment		MAY-1988
	Final Environmental Impact Report for Zone 7 of Alameda County Flood Control and Water Conservation District		JUN-1988
	Relative Risk Site Evaluation	USACHPPM	AUG-1988
1989	Draft Environmental Impact Report: Dublin/Pleasanton Extension Project	Bay Area Rapid Transit District	SEP-1989
1991	Soil Sample Collected near PRFTA Letter to CPT Contreas, Letterman Army Medical Center, Presidio of San Francisco (PSF)	Robert C. Wren	AUG-1991
	City of San Ramon, Draft Program Environmental Impact Report, Dougherty Valley Growth Management and Specific Plan	EIP Associates	SEP-1991
	47-Acre Surplus Property Parcel at PRFTA (Preliminary Assessment Screening)		SEP-1991
1992	Final Environmental Impact Report - Dougherty Valley Growth Management and Specific Plan		JUN-1992
1993	Inventory Project Report, Parks Air Force Base	Dynamac Corp., COE, Sacramento District	JAN-1993
	Letter Report: San Joaquin Kit Fox Survey at PRFTA	Jones & Stokes Associates, Inc., COE, Sacramento District, Bob Verkade	AUG-1993
	47-Acre Surplus Parcel Preliminary Assessment Screening PRFTA	Woodward Clyde	DEC-1993

## IRP Previous Studies

Year	Title	Author	Date
1993	Caltran Easement Preliminary Assessment Screening PRFTA	Woodward Clyde	DEC-1993
1994	PA for PRFTA, Dublin, CA, Draft	Woodward Clyde, Oakland, CA	APR-1994
	Regulatory Framework Analysis Report	Woodward Clyde	AUG-1994
	Remedial Investigation Services for Suspected Contamination and UST Sites	Woodward Clyde	SEP-1994
	Work Plan for Tank Removals at Bldgs 770, 1136, and 1180, PRFTA	Woodward Clyde	SEP-1994
	Tank 732-2 Subsurface Investigation at Bldg 732 - Final Report	Woodward Clyde	OCT-1994
1995	Miscellaneous Compliance Actions Project Tenant Environmental Compliance Audits	Woodward Clyde	APR-1995
	Site Characterization Report Bldg 109 UST	Woodward Clyde	JUN-1995
	Site Characterization Report Bldg 109 ASH	Woodward Clyde	SEP-1995
1996	Summary of Tabulated Analytical Results of Woodward Clyde Federal Services Storm Water Sampling Effort	Woodward Clyde	JAN-1996
	Work Plan for Quarterly Groundwater Monitoring at Bldg 109	Woodward Clyde	JAN-1996
	Closure report for Tanks at Bldgs 1135, 1136, and 1180	Woodward Clyde	JAN-1996
1998	Relative Risk Site Evaluation Parks Reserve Forces Training Area Project NO. 38-EH-8204-98	USACHPPM	AUG-1998
1999	Final Sampling Plan Site Inspection - PARKS-5, PRFTA-01, PRFTA-02	USACHPPM	MAY-1999
	Work Plan - Arsenic Drum Disposal Site	Roy F. Westin, Inc	NOV-1999
2000	Site Inspection - Former Fire Training Area	USACHPPM	MAR-2000
	Field Summary Report - Environmental Sampling and Anomaly Investigation at the Arsenic Drum Disposal Site, PARKS-7	Roy F. Weston, Inc	SEP-2000
2001	Work Plan - Arsenic Drum Disposal Site Plume Characterization Parks-7	Roy F. Weston, Inc	MAR-2001
	Field Summary Report Plume Characterization at the Arsenic Drum Disposal Site Parks-7	Roy F. Weston, Inc	JUL-2001
2002	Sampling and Analysis Plan Phase 1 Site Inspection Former Fuel ASTS	USACHPPM	MAY-2002
	Draft Engineering Evaluation/Cost Analysis, Arsenic Drum Disposal Site Parks 7	Roy F. Weston, Inc	AUG-2002
	Draft Environmental Baseline Survey for 187 acre Exchange Parks Reserve Forces Training Area	USACHPPM	AUG-2002

## IRP Previous Studies

Year	Title	Author	Date
2002	Sampling and Analysis Plan Phase 2 Site Inspection Former Tank Farm	USACHPPM	OCT-2002
2003	Soil Metals Background Survey at Parks Reserve Forces Training Area (PRFTA)	CH2MHILL	MAY-2003
	Final Engineering Evaluation/Cost Analysis, Arsenic Drum Disposal Site Parks 7	Roy F. Weston, Inc	JUN-2003
	Sampling Plan, Environmental Baseline Survey for 187 acre Exchange Parks Reserve Forces Training Area, Phase II	USACHPPM	OCT-2003
2004	Comprehensive Magnetometer Survey for Underground Storage Tanks at Camp Parks Training Site, Dublin Crossing Project,	Mike Bobbitt & Associates	JUN-2004
	Sampling Results, Environmental Baseline Survey for 187 acre Exchange Parks Reserve Forces Training Area, Phase III	USACHPPM	NOV-2004
2005	Comprehensive Magnetometer Survey for Underground Storage Tanks at Camp Parks Training Site, Oakland RPX Project	Mike Bobbitt & Associates	JAN-2005
2006	Site Investigation Report, PRFTA 13	Kemron Environmental Services and MACTEC Environmental Consulting Inc.	APR-2006
	USARC GFPR Corrective Action Plan Former Tank Farm (PRFTA 13)	Kemron Environmental Services and MACTEC Environmental Consulting Inc.	JUL-2006
2007	Quarterly Groundwater Monitoring Report First Quarter 2007 Former Tank Farm (PRFTA 13)	Kemron Environmental Services and MACTEC Environmental Consulting Inc.	MAY-2007
	Corrective Action Report Former Tank Farm (PRFTA 13)	Kemron Environmental Services and MACTEC Environmental Consulting Inc.	AUG-2007
	Quarterly Groundwater Monitoring Report Second Quarter 2007 Former Tank Farm (PRFTA 13)	Kemron Environmental Services and MACTEC Environmental Consulting, Inc.	OCT-2007
2008	Quarterly Groundwater Monitoring Report Third Quarter 2007 Former Tank Farm (PRFTA 13)	Kemron Environmental Services and MACTEC Environmental Consulting, Inc.	JAN-2008
	Quarterly Groundwater Monitoring Report Fourth Quarter 2007 Former Tank Farm (PRFTA 13)	Kemron Environmental Services and MACTEC Environmental Consulting, Inc.	MAR-2008

## IRP Previous Studies

2008	Title	Author	Date
	Quarterly Groundwater Monitoring Report First Quarter 2008 Former Tank Farm (PRFTA 13)	Kemron Environmental Services and MACTEC Environmental Consulting, Inc.	APR-2008
	Final Site Status Report	Kemron/MACTEC	JUN-2008
	Arsenic Tech Memo-PRFTA-13	Kemron/MACTEC	JUN-2008
	Confirmation Soil Boring Installation Work Plan-SAP Addendum-PRFTA-13	Kemron/MACTEC	AUG-2008
	Quarterly Groundwater Monitoring Report-Second Quarter-PRFTA-13	Kemron/MACTEC	SEP-2008
	CAP Addendum-Former Tank Farm (PRFTA-13)	Kemron/MACTEC	OCT-2008
	Quarterly Groundwater Monitoring Report-Third Quarter-PRFTA-13	Kemron/MACTEC	DEC-2008
2009	REMEDIAL INVESTIGATION/FEASIBILITY STUDY NO. 38-EH-077T-07	USACHPPM	APR-2009
	Site Status Report Former Tank Farm (PRFTA 13)	KEMRON/MACTEC	APR-2009
2010	Evaluation of Remedial Goals Technical Memorandum Installation Restoration Program Site PRFTA-02	URS	NOV-2010
	Proposed Plan for Installation Restoration Site PRFTA-02, US Army Garrison Camp Parks	URS	NOV-2010

# **PARKS RESERVE FORCES TRAINING AREA**

## **Installation Restoration Program**

### **Site Descriptions**

**Site ID: PRFTA-02**  
**Site Name: B-109 INCINERATOR**

**STATUS**

**Regulatory Driver:** CERCLA

**RRSE:** MEDIUM

Contaminants of Concern: Dioxins/Dibenzofurans, Metals

Media of Concern: Soil

Phases	Start	End
PA.....	199402.....	199405
SI.....	199809.....	200002
RI/FS.....	200308.....	201005
RD.....	201005.....	201212
RA(C).....	201103.....	201212
LTM.....	201212.....	201612

**RIP Date:** N/A

**RC Date:** 201212

**SITE DESCRIPTION**

This site contains the remains of Building 109. Prior to its demolition, Bldg 109 was a trash incinerator. The remaining structures consist of a heavily reinforced foundation of poured concrete construction including minor brick and mortar. The foundation structures make up the ash containment cell, which is approximately 20 feet by 20 feet by five feet, and the incinerator exhaust stack base. In mid-March 1994, during building demolition and removal activities, a previously unknown underground storage tank (UST) was discovered and damaged. An unknown amount of fuel was released into the excavation from the tank which had held between 5,000 and 10,000 gallons. The majority of the fuel released into the excavation area was removed by a vacuum truck; however, product was observed in the excavation after the fuel removal activities were concluded, and was subsequently detected in groundwater samples. Soil was also removed. Three monitoring wells were placed close to the spill area. Alameda County has agreed that no further water quality tasks are required resulting from the UST release.

Ash was observed in a trench during the demolition and fuel recovery operations. Subsequent investigations led to the detection of various accumulations of ash waste material in the walls of the excavations, soil borings and monitoring wells. Building 109 was identified on a 1945 facility drawing that defined a trash pit and scrap area, to the south of the building. In spring 1999, USACHPPM conducted soil and groundwater sampling. Three new groundwater monitoring wells were installed during this field effort. Sampling results indicated elevated levels of arsenic in the groundwater and soil; however, arsenic occurs naturally at elevated levels at PRFTA. Four quarters of groundwater monitoring have been completed.

When this project was initiated, debris related to incinerator process waste (ash), was assumed ineligible for Environmental Restoration, Army (ER,A) funding. Historical research indicated that incinerator operations ceased in the 1950s, which made it eligible for ER,A funding. Environmental compliance (VENC) funds (funding code for environmental compliance) were used prior to this determination. A RI/FS was finalized in fiscal year (FY)10. Under a PBA a PP was finalized in 2010 and, pending DD signature, PRFTA-02 will undergo further RAs as recommended in the RI/FS under the PBA beginning in summer 2011.

**CLEANUP/EXIT STRATEGY**

Based on the results of the RI/FS, under a PBA, a soil removal action is being performed in 2011. Future LTM requirements are to be determined post RA after four quarters of groundwater monitoring is performed.

## Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
PARKS3	FORMER OIL DRUM STORAGE AREA	199612	This site has been determined to be ineligible for ER,A funding. It is covered under the Compliance program.
PARKS5	FIRE TRAINING AREA	200009	This site has been determined to be ineligible for ER,A funding. It is covered under the Compliance program.
PARKS7	DRUM DISPOSAL SITE	201003	NFA Letter from DTSC dated July 28,2009
PRFTA-01	TASSAJARA FLOOD PLAIN DISPOSAL TRENCHES	201006	Site legal driver transitioning from CERCLA to RCRA based on COCs and site history. Site now tracked as CCPRFTA-01.
PRFTA-03	B-791 REFUELING AREA	199612	NFA Letter from Regional Water Quality Control Board dated Jan. 14, 2010.
PRFTA-13	BLDG 761 FORMER FUEL AST	200910	Closed out with LUCs in place as per Pre-NFA Letter from Regional Water Quality Control Board dated Feb. 17, 2009.

# IRP Schedule

**Date of IRP Inception:** 199402

## Past Phase Completion Milestones

### 1994

PA (PRFTA-01 - TASSAJARA FLOOD PLAIN DISPOSAL TRENCHES, PRFTA-02 - B-109 INCINERATOR)

### 1997

PA (PARKS3 - FORMER OIL DRUM STORAGE AREA, PARKS5 - FIRE TRAINING AREA, PRFTA-03 - B-791 REFUELING AREA)

### 1998

SI (PARKS5 - FIRE TRAINING AREA, PARKS7 - DRUM DISPOSAL SITE)

PA (PARKS7 - DRUM DISPOSAL SITE)

### 2000

RI/FS (PARKS5 - FIRE TRAINING AREA)

SI (PRFTA-02 - B-109 INCINERATOR)

### 2001

RI/FS (PARKS7 - DRUM DISPOSAL SITE)

### 2002

PA (PRFTA-13 - BLDG 761 FORMER FUEL AST)

### 2003

SI (PRFTA-13 - BLDG 761 FORMER FUEL AST)

### 2004

RD (PRFTA-13 - BLDG 761 FORMER FUEL AST)

### 2007

RA(C) (PRFTA-13 - BLDG 761 FORMER FUEL AST)

### 2009

RA(C) (PARKS7 - DRUM DISPOSAL SITE)

### 2010

RI/FS (PRFTA-02 - B-109 INCINERATOR)

LTM (PARKS7 - DRUM DISPOSAL SITE)

RA(O) (PRFTA-13 - BLDG 761 FORMER FUEL AST)

SI (PRFTA-01 - TASSAJARA FLOOD PLAIN DISPOSAL TRENCHES)

## Projected Phase Completion Milestones

See attached schedule

## Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates

Site ID	Site Name	ROD/DD Title	ROD/DD Date
PRFTA-02	B-109 INCINERATOR	PRFTA-02 DD	20120930

**Final RA(C) Completion Date:** 201212

**Schedule for Next Five-Year Review:** 2012

**Estimated Completion Date of IRP at Installation (including LTM phase):** 201612

## PARKS RESERVE FORCES TRAINING AREA IRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY13	FY14	FY15	FY16	FY17	FY18+
PRFTA-02	B-109 INCINERATOR	RD						
		RA(C)						
		LTM						

**PARKS RESERVE FORCES TRAINING AREA**  
**Army Defense Environmental Restoration Program**  
**Military Munitions Response Program**

# MMRP Summary

**Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count:** 7/6

**Installation Site Types with Future and/or Underway Phases**

1 Small Arms Range  
(PRFTA-007-R-01)

**Most Widespread Contaminants of Concern**

Munitions and explosives of concern (MEC), Munitions constituents (MC)

**Media of Concern**

Soil

**Completed Remedial Actions (Interim Remedial Actions/ Final Remedial Actions (IRA/FRA))**

Site ID	Site Name	Action	Remedy	FY
N/A				

**Duration of MMRP**

**Date of MMRP Inception** 200206

**Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC):** 201309/201309

**Date of MMRP completion including Long Term Management (LTM):** 201309

# MMRP Contamination Assessment

## Contamination Assessment Overview

Training Area B small arms and machine gun ranges were delisted from range inventory and require an RI/cleanup. An archival search report/investigation was completed in 2003 and historical records review in 2007 in support of the MMRP. An SI was conducted for the off-post range fan associated with Area B series ranges. Both identified the site as requiring further action pending deactivation. The B series ranges have been active since the 1940s.

## Cleanup Exit Strategy

An RI will be completed in 2011. Following the RI, an FS will be conducted to evaluate alternatives and an RA will be conducted based on the selected remedial alternative.

## MMRP Previous Studies

	<b>Title</b>	<b>Author</b>	<b>Date</b>
<b>2003</b>	Ordnance and Explosives Archives Search Report	USACE	JAN-2003
<b>2007</b>	Historical Records Review MMRP Camp Parks	URS Group, Inc.	SEP-2007
<b>2008</b>	Final Site Investigation Camp Parks, Dublin, CA Military Response Program	URS	SEP-2008
<b>2010</b>	Explosive Site Plan PRFTA-007-R-01	URS	APR-2010
	Final Remedial Investigation Workplan PRFTA-007-R-01	URS	DEC-2010

# **PARKS RESERVE FORCES TRAINING AREA**

## **Military Munitions Response Program**

### **Site Descriptions**

**Site ID: PRFTA-007-R-01**  
**Site Name: Area B Small Arms Ranges**

**STATUS**

**Regulatory Driver:** CERCLA

**MRSPP Score:** Evaluation pending

Contaminants of Concern: Munitions and explosives of concern (MEC), Munitions constituents (MC)

Media of Concern: Soil

<b>Phases</b>	<b>Start</b>	<b>End</b>
PA.....	200206.....	200304
SI.....	200206.....	200709
RI/FS.....	200912.....	201309

**RIP Date:** N/A

**RC Date:** 201309

**SITE DESCRIPTION**

Training Area B small arms and machine gun ranges were delisted from range inventory and require an RI/cleanup. An archival search report/investigation was completed in 2003 and historical records review in 2007 in support of MMRP SI for off-post range fan associated with Area B series ranges. Both identified the site as requiring further action pending deactivation. The B series ranges have been active since the 1940s. An RI was initiated in FY10 under a PBA for PRFTA-007-R-01 and will be completed in FY12.

In FY12, upon the completion of the RI, discussions will be made to determine the best course for contracting an FS to evaluate alternative cleanup remedies and an RA will be conducted based on the selected remedial alternative.

**CLEANUP/EXIT STRATEGY**

Following the RI, an FS will be conducted to evaluate alternatives and a RA will be conducted based on the selected remedial alternative.

## Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
PRFTA-001-R-01	ARTILLERY SIMULATOR BOX	200809	Recommended for NFA in the September 2008 Final SI Report
PRFTA-002-R-01	CANTONMENT AREA MOUT	200809	Recommended for NFA in the September 2008 Final SI Report
PRFTA-003-R-01	EASTERN RIFLE RANGE	200809	Recommended for NFA in the September 2008 Final SI Report
PRFTA-004-R-01	MORTAR RANGE	200809	Recommended for NFA in the September 2008 Final SI Report
PRFTA-005-R-01	Machine Gun Range	200809	Recommended for NFA in the September 2008 Final SI Report
PRFTA-006-R-01	Rifle Range	200809	Recommended for NFA in the September 2008 Final SI Report

# MMRP Schedule

**Date of MMRP Inception** 200206

## **Past Phase Completion Milestones**

### **2003**

PA (PRFTA-001-R-01 - ARTILLERY SIMULATOR BOX, PRFTA-002-R-01 - CANTONMENT AREA MOUT, PRFTA-003-R-01 - EASTERN RIFLE RANGE, PRFTA-004-R-01 - MORTAR RANGE, PRFTA-005-R-01 - Machine Gun Range, PRFTA-006-R-01 - Rifle Range, PRFTA-007-R-01 - Area B Small Arms Ranges)

### **2007**

SI (PRFTA-007-R-01 - Area B Small Arms Ranges)

### **2008**

SI (PRFTA-001-R-01 - ARTILLERY SIMULATOR BOX, PRFTA-002-R-01 - CANTONMENT AREA MOUT, PRFTA-003-R-01 - EASTERN RIFLE RANGE, PRFTA-004-R-01 - MORTAR RANGE, PRFTA-005-R-01 - Machine Gun Range, PRFTA-006-R-01 - Rifle Range)

## **Projected Phase Completion Milestones**

**See attached schedule**

## **Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates**

To Be Determined

## **Final RA(C) Completion Date:**

**Schedule for Next Five-Year Review:** 2012

**Estimated Completion Date of MMRP at Installation (including LTM phase):** 201309

# PARKS RESERVE FORCES TRAINING AREA MMRP Schedule

  = phase underway

SITE ID	SITE NAME	PHASE	FY13	FY14	FY15	FY16	FY17	FY18+
PRFTA-007-R-01	Area B Small Arms Ranges	RI/FS						

**PARKS RESERVE FORCES TRAINING AREA**  
**Army Defense Environmental Restoration Program**  
**Compliance Restoration**

## CR Summary

**Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count:** 6/2

### Installation Site Types with Future and/or Underway Phases

2 Burn Area  
(CCPARKS 1, CCPRFTA-06)  
1 Landfill  
(CCPRFTA-01)  
1 Radioactive Waste Area  
(CCPARKS 6)

### Most Widespread Contaminants of Concern

### Media of Concern

### Completed Remedial Actions (Interim Remedial Actions/ Final Remedial Actions (IRA/FRA))

Site ID	Site Name	Action	Remedy	FY
N/A				

### Duration of CR

**Date of CR Inception:** 199301

**Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC):** 201406/201406

**Date of CR completion including Long Term Management (LTM):** 201507

# CR Contamination Assessment

## Contamination Assessment Overview

The Chemical Burn Area (CCPARKS 1), Burn Pits (CCPRFTA-06), Davilla Dam Disposal Piles (CCPARKS 6), and Tassajara Disposal Trenches (PRFTA-01) were first identified in a 1994 PA/SI and investigated further in a 1998 RRSE by USACHPPM. The exact location of the actual buildings used in the experiments at the Chemical Burn Area, which subsequently were burned could not be verified in the RRSE. The site is approximately the size of two football fields. The upper end of the site (higher elevation) is reportedly where the former fire training building was located. Chemicals were applied to the structure and set on fire to practice fire fighting. A geophysical survey may be required to locate the building footprint to sample soil. The site drains to a wetlands area which will also require sampling (soil and sediment). Trace amounts of organic contaminants have been found in the soil. Volatile organic compounds (VOCs) and metals were investigated in the RRSE. Direct- push or geoprobe type equipment will be needed to collect subsurface soil samples. VOCs, semi-volatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH), metals, dioxins and furans will need to be sampled and analyzed.

Davilla Dam Disposal Piles is a landfill suspected to contain radioactive waste materials from experiments conducted at PRFTA. Potential secondary contaminants of concern (COCs) include metals and pesticides. The 57 mounds are not near any streams or wetlands. The soil mounds were investigated for gross alpha and gross beta. Additional soil sampling is necessary to prove no further action (NFA) for this site. This site is in a nonoperational range area, but will require anomaly avoidance instruments aided by unexploded ordnance (UXO) tech support during intrusive investigations. This site is in a rolling hills setting and the areas includes threatened wildlife habitat.

The Burn Pits are adjacent to each other separated by 15-foot high soil berms, and the perimeter of the soil berms contains ash waste. Each burn pit is approximately 100-ft. by 100-ft. The three burn pits are several hundred yards west of the Tassajara Landfill and the landfill borders the Tassajara creek.

The burn pits require a soil and ground water investigation (metals, SVOCs and VOCs were investigated in the RRSE). Shallow groundwater is less than 25 feet below grade surface while the drinking water aquifer is 100-800 feet below grade surface. The RRSE report indicates no connection between the shallow groundwater and the aquifer due to the low permeability clay. Groundwater sampling should be from the shallow zone. The VOCs, SVOCs, TPH, metals, dioxin and furans will need to be sampled and analyzed. This site is in a nonoperational range area, but will require anomaly avoidance instruments aided by UXO tech support during intrusive investigations. This site is also in a rolling hills setting and the areas includes threatened wildlife habitat.

Tassajara Disposal Trenches were used as a medical dump site during the Navy's tenure in the 1940s and is currently part of an operational range (Area M) used as a bivouac area. This site is inactive and consists of a minimum of three buried disposal trenches. Several exposed (empty) 55 gallon drums and debris are visible. A revised phase I SI was completed in 2009 and a phase II was completed within 2010. Geophysical surveys and confirmatory excavations have observed primarily municipal and former Navy hospital waste debris throughout the area. Metals appear to be the primary COC; however, additional characterization of the site is warranted. AnRI/FS is being performed at the site to fully capture nature and extent and to identify remedies for cleanup.

## Cleanup Exit Strategy

The RIs will be completed at CCPRFTA-06, CCPARKS 1, and CCPARKS 6 to determine the need for further action. An RI/FS will be completed at CCPRFTA-01 and an RA/remedy will be determined.

## CR Previous Studies

**Title**

**Author**

**Date**

There are no Previous Studies

# **PARKS RESERVE FORCES TRAINING AREA**

## **Compliance Restoration**

### **Site Descriptions**

**Site ID: CCPARKS 1**  
**Site Name: Chemical Burn Area**

**STATUS**

Regulatory Driver: CERCLA

<b>Phases</b>	<b>Start</b>	<b>End</b>
PA.....	199301.....	199403
SI.....	199804.....	199808
RI/FS.....	201103.....	201306
<b>RIP Date:</b>	N/A	
<b>RC Date:</b>	201306	

**SITE DESCRIPTION**

The Chemical Burn Area was first identified in a 1994 PA/SI and investigated further in a 1998 RRSE by USACHPPM. The exact location of the actual buildings used in the experiments which subsequently were burned could not be verified in the RRSE. The site is approximately the size of two football fields. The upper end of the site (higher elevation) is reportedly where the former fire training building was located. Chemicals were applied to the structure and set on fire to practice fire fighting. A geophysical survey may be required to locate the building footprint to sample soil. The site drains to a wetlands area which will also require sampling (soil and sediment). Trace amounts of organic contaminants have been found in the soil. The VOCs and metals were investigated in the RRSE. Direct-push or geoprobe type equipment will be needed to collect subsurface soil samples. Sampling and analysis will need to include VOCs, SVOCs, TPH, metals, dioxins and furans.

**CLEANUP/EXIT STRATEGY**

This site is in a nonoperational range area, but will require anomaly avoidance instruments aided by UXO tech support during intrusive investigations. This site is also in a rolling hills setting and the areas includes threatened wildlife habitat. Fieldwork is scheduled to begin in June of FY12.

**Site ID: CCPARKS 6**  
**Site Name: Davilla Dam Disposal Piles**

**STATUS**

Regulatory Driver: CERCLA

<b>Phases</b>	<b>Start</b>	<b>End</b>
PA.....	199301.....	199403
SI.....	199804.....	199808
RI/FS.....	201103.....	201306
<b>RIP Date:</b>	N/A	
<b>RC Date:</b>	201306	

**SITE DESCRIPTION**

The Davilla Dam Disposal Piles was first identified in a 1994 PA/SI and investigated further in a 1998 RRSE by USACHPPM. This Landfill is suspected to contain radioactive waste materials from experiments conducted at PRFTA. Potential secondary COCs include metals and pesticides. The 57 mounds are not near any streams or wetlands. The soil mounds were investigated for gross alpha and gross beta. Additional soil sampling is necessary to prove NFA for this site.

**CLEANUP/EXIT STRATEGY**

This site is in a nonoperational range area, but will require anomaly avoidance instruments aided by UXO tech support during intrusive investigations. This site is also in a rolling hills setting and the area includes threatened wildlife habitat. Fieldwork is scheduled to begin in June of FY12.

**Site ID: CCPRFTA-01**

**Site Name: Tassajara Flood Plain Disposal Trenches**

**STATUS**

Regulatory Driver: CERCLA

<b>Phases</b>	<b>Start</b>	<b>End</b>
PA.....	199809.....	200002
SI.....	200901.....	201009
RI/FS.....	201010.....	201309
RA(C).....	201309.....	201406
LTM.....	201407.....	201507

**RIP Date:** N/A

**RC Date:** 201406

**SITE DESCRIPTION**

This site was used as a medical dump site during the Navy's tenure in the 1940s and is currently part of an operational range (Area M) used as a bivouac area. This landfill is inactive and consists of a minimum of three buried disposal trenches. Several exposed (empty) 55 gallon drums and debris are visible. A revised Phase I SI was completed in 2009 and a Phase II was completed in 2010. Geophysical surveys and confirmatory excavations have observed primarily municipal and former Navy hospital waste debris throughout the area. Metals appear to be the primary COC; however, additional characterization of the site is warranted.

**CLEANUP/EXIT STRATEGY**

An RI/FS under CERCLA is needed at the site to fully capture the nature and extent of contamination and to identify remedies for cleanup. The Phase III RI/FS will begin in summer of FY12.

**STATUS**

Regulatory Driver: CERCLA

<b>Phases</b>	<b>Start</b>	<b>End</b>
PA.....	199301.....	199403
SI.....	199804.....	199808
RI/FS.....	201103.....	201306
<b>RIP Date:</b>	N/A	
<b>RC Date:</b>	201306	

**SITE DESCRIPTION**

The Burn Pits Site was first identified in a 1994 PA/SI and investigated further in a 1998 RRSE by USACHPPM. The Burn Pits are adjacent to each other separated by 15-foot high soil berms, and the perimeter of the soil berms contains ash waste. Each burn pit is approximately 100-ft. by 100-ft. The three burn pits are several hundred yards west of the Tassajara Landfill and the landfill borders the Tassajara creek. The burn pits require soil and groundwater investigation (metals, SVOCs and VOCs were investigated in the RRSE). Shallow groundwater is less than 25 feet below grade surface while the drinking water aquifer is 100-800 feet below grade surface. The RRSE report indicates no connection between the shallow groundwater and the aquifer due to the low permeability clay.

**CLEANUP/EXIT STRATEGY**

This site is in a nonoperational range area, but will require anomaly avoidance instruments aided by UXO tech support during intrusive investigations. This site is also in a rolling hills setting and the area includes threatened wildlife habitat. The RI fieldwork is scheduled to begin in June of FY12.

## Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
CCEVANS00N	Evan Avenue 319 signal Corp Possibl	201001	
CCPRFTSCDB	SE Corner of Dublin Crossing	200905	

## CR Schedule

**Date of CR Inception:** 199301

### **Past Phase Completion Milestones**

**1994**

PA (CCPARKS 1 - Chemical Burn Area, CCPARKS 6 - Davilla Dam Disposal Piles, CCPRFTA-06 - Burn Pits)

**1998**

SI (CCPARKS 1 - Chemical Burn Area, CCPARKS 6 - Davilla Dam Disposal Piles, CCPRFTA-06 - Burn Pits)

**2000**

PA (CCPRFTA-01 - Tassajara Flood Plain Disposal Trenches)

**2003**

ISC (CCEVANS00N - Evan Avenue 319 signal Corp Possibl)

**2004**

ISC (CCPRFTSCDB - SE Corner of Dublin Crossing)

**2009**

INV (CCPRFTSCDB - SE Corner of Dublin Crossing)

**2010**

SI (CCPRFTA-01 - Tassajara Flood Plain Disposal Trenches)

INV (CCEVANS00N - Evan Avenue 319 signal Corp Possibl)

### **Projected Phase Completion Milestones**

**See attached schedule**

### **Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates**

To Be Determined

**Final RA(C) Completion Date:** 201406

**Schedule for Next Five-Year Review:** 2012

**Estimated Completion Date of CR at Installation (including LTM phase):** 201507

## PARKS RESERVE FORCES TRAINING AREA CR Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY13	FY14	FY15	FY16	FY17	FY18+
CCPARKS 1	Chemical Burn Area	RI/FS						
SITE ID	SITE NAME	PHASE	FY13	FY14	FY15	FY16	FY17	FY18+
CCPARKS 6	Davilla Dam Disposal Piles	RI/FS						
SITE ID	SITE NAME	PHASE	FY13	FY14	FY15	FY16	FY17	FY18+
CCPRFTA-01	Tassajara Flood Plain Disposal Trenches	RI/FS						
		RA(C)						
		LTM						
SITE ID	SITE NAME	PHASE	FY13	FY14	FY15	FY16	FY17	FY18+
CCPRFTA-06	Burn Pits	RI/FS						

## Community Involvement

**Technical Review Committee (TRC):** None

**Community Involvement Plan (Date Published):** 201010

**Restoration Advisory Board (RAB):** No

**Reason Not Established:** The community has expressed no sufficient, sustained interest in a RAB.

**Community Interest Solicited on:** 201008

**Efforts Taken to Determine Interest**

A survey in August 2010 solicited community interest via letters/Community Interview Process as per a Public Participation Plan (PPP) addendum.

**Results**

After careful evaluation of the solicitation results, the Commander has determined that there is no need for a RAB at the installation.

**Follow-up Procedures**

The community will continue to be informed of cleanup progress per the PPP addendum. The RAB solicitation will occur again in 2012.

**Additional Community Involvement Information**

The community will continue to be informed of cleanup progress per the PPP addendum.

**Administrative Record is located at**

Department of Toxic Substances Control  
10151 Croydon Way  
Sacramento, CA 95827  
(916) 255-3618

**Information Repository is located at**

Alameda County Dublin Library  
200 Civic Plaza  
Dublin, CA 94568  
(925) 828-1315

and

Contra Costa County San Ramon Library  
1750 Oak Park Boulevard  
Pleasant Hill, CA 94523  
(925) 973-3380

**Current Technical Assistance for Public Participation (TAPP):**N/A

**TAPP Title:** N/A

**Potential TAPP:** N/A

