

# FY2010

FORT ORD

Base Realignment & Closure  
Installation Action Plan

*(this page intentionally left blank)*

# Table of Contents

Statement Of Purpose.....	1
Installation Information.....	2
Cleanup Program Summary.....	4
Land Use Control (LUC) Summary.....	5
Installation Restoration Program.....	7
BRAC-IRP Summary.....	8
BRAC-IRP Contamination Assessment.....	10
Installation Restoration Program Site Descriptions.....	12
FTO-003 SITE 3-BEACH TRAINFIRE RANGES.....	13
FTO-012 SITE 12 DOL AUTO MAINT. AREA/CANNIBAL.YD.....	14
FTO-039 SITE 39 INLAND RANGES.....	15
FTO-041 SITE 41 FAAF FIRE DRILL AREA (OU1).....	17
FTO-044 RESERVATION ROAD SITE.....	19
FTO-053 LANDFILL (OU2).....	20
Installation Restoration Program Schedule.....	22
Installation Restoration Program Schedule Chart.....	23
Installation Restoration Program Costs.....	24
BRAC-IRP Prior Funding/Current Requirements.....	24
BRAC-IRP Required Cost-to-Complete Chart.....	25
BRAC-IRP Programmed Cost-to-Complete Chart.....	26
Military Munitions Response Program.....	27
BRAC-MMRP Summary.....	28
BRAC-MMRP Contamination Assessment.....	29
BRAC-MMRP Installation Map(s).....	31

# Table of Contents

Military Munitions Response Program Site Descriptions.....	32
FTO-001-R-01 BLM-EAST.....	33
FTO-002-R-01 BLM-EAST OTHER.....	35
FTO-003-R-01 BLM-HQ.....	36
FTO-004-R-01 BLM-NORTH.....	37
FTO-005-R-01 BLM-NORTH- XD.....	39
FTO-006-R-01 COASTAL SMALL ARMS RANGE.....	41
FTO-007-R-01 CSUMB.....	42
FTO-008-R-01 CSUMB-XD.....	43
FTO-009-R-01 DEVELOPMENT-NORTH.....	44
FTO-010-R-01 EAST GARRISON.....	45
FTO-011-R-01 EAST GARRISON-OTHER.....	46
FTO-012-R-01 GARRISON-NORTH.....	47
FTO-013-R-01 GARRISON-SOUTH.....	48
FTO-014-R-01 MULTI-USE RANGE AREA - BLM.....	49
FTO-015-R-01 MULTI-USE RANGE AREA - DRO.....	51
FTO-016-R-01 MULTI-USE RANGE AREA - IA.....	53
FTO-017-R-01 MULTI-USE RANGE AREA - OB/OD.....	55
FTO-018-R-01 MULTI-USE RANGE AREA - SEA.....	56
FTO-019-R-01 MULTI-USE RANGE AREA - SOUTH.....	57
FTO-020-R-01 PARKER FLATS.....	58
FTO-021-R-01 ROCKET RANGE AREA (FAAF).....	60
FTO-022-R-01 SOUTH RANGE AREA.....	61
Military Munitions Response Program Schedule.....	62
Military Munitions Response Program Schedule Chart.....	63
Military Munitions Response Program Costs.....	65
BRAC-MMRP Prior Funding/Current Requirements.....	65
BRAC-MMRP Required Cost-to-Complete Chart.....	67
BRAC-MMRP Programmed Cost-to-Complete Chart.....	69
Combined Requirements Spreadsheet.....	72
Costs - Combined Requirements Spreadsheet.....	72
Combined Programmed Spreadsheet.....	75
Costs - Combined Programmed Spreadsheet.....	75
Community Involvement.....	78

## Statement of Purpose

The purpose of the Base Realignment and Closure (BRAC) Installation Action Plan (BIAP) 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 necessary remedial actions (RA).

In an effort to coordinate planning information between the BRAC environmental coordinator (BEC), the US Army Environmental Command (USAEC), Fort Ord, the regulatory agencies, executing agencies, the BRAC Division and the public, a BIAP was completed. The BIAP is used to track requirements, schedules and tentative budgets for all 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.

The following persons contributed to the formulation and completion of this Installation Action Plan for FORT ORD:

Broadston, Melissa	Fort Ord
Collins, Bill	Fort Ord
De Jesus, Monique	Malcolm Pirnie, Inc. for USAEC
Eisen, David	USACE
Nguyen, Chieko	Fort Ord
Orsi, Caroline	Malcolm Pirnie, Inc. for USAEC
Youngblood, Gail	Fort Ord

# Installation Information

## Installation Program Summaries

### BRAC-IRP

Total Number of Sites:	46
Number of sites at RIP:	3
Number of sites at RC:	41
Number of sites at RC with LTM:	1
Primary Contaminants of Concern:	Explosives, Metals, Semi-volatiles (SVOC), Volatiles (VOC)
Affected Media of Concern:	Groundwater, Other (Soil Gas), Soil
Date for Remedy-In-Place (RIP)/Response Complete (RC):	201709/203610
Prior Funding:	\$258,705.9 K
Current FY 10 Requirements:	\$.0 K
Future Requirements (CTC):	\$110,238.0 K

### BRAC-MMRP

Total Number of Sites:	22
Number of sites at RIP:	0
Number of sites at RC:	5
Number of sites at RC with LTM:	5
Primary Contaminants of Concern:	Munitions and explosives of concern (MEC)
Affected Media of Concern:	Soil
Date for Remedy-In-Place (RIP)/Response Complete (RC):	201909/201909
Prior Funding:	\$128,411.2 K
Current FY 10 Requirements:	\$.0 K
Future Requirements (CTC):	\$216,175.0 K

## Installation Locale

BRAC Round: BRAC II

Installation Size (Acreage): 27,827.00

Retained by Component (Acreage): 812.00

BRAC Acreage: 27,015.00

Acres being transferred to another service: 0.00

Acres being transferred to other federal agencies: 0.00

Acres being transferred to non-federal agencies: 12,157.00

City: Monterey

County: Monterey

State: California

Other Locale Information

Fort Ord is located near Monterey Bay in Monterey County, California, approximately 80 miles south of San Francisco. The base consists of about 28,000 acres near the cities of Seaside, Sand City, Monterey, Del Rey Oaks, and Marina. Laguna Seca Recreation Area and Toro Regional Park border Fort Ord to the south and southeast, respectively. Land use east of Fort Ord is primarily agricultural.

## List of Off-Post Properties

N/A

# Installation Information

## Environmental Condition of Property

BRAC Round: BRAC II

	CERCLA	MMRP
Acres in Category 1:	2,493.00	0.00
Acres in Category 2:	0.00	0.00
Acres in Category 3:	414.00	0.00
Acres in Category 4:	14,746.00	5,248.00
Acres in Category 5:	9,362.00	5,847.00
Acres in Category 6:	0.00	0.00
Acres in Category 7:	0.00	0.00

## Lead Organization

Base Realignment and Closure Division

## Lead Executing Agencies for Installation

US Army Corps of Engineers (USACE), Sacramento District

## Regulator Participation

Federal US Environmental Protection Agency (USEPA) Region 9 Federal Facilities Branch  
State California EPA (Department of Toxic Substances Control [DTSC] and California Regional Water Quality Control Board [CRWQCB], Central Coast Region)

BRAC Closure Round: BRAC II - Base Realignment And Closure 1991

## Status of Redevelopment Initiative (Reuse Plan)

Redevelopment Plan Date: 199706

Organization Name: Fort Ord Reuse Authority(FORA)

## Existing Legal Agreements/Interim Leases

Parcel Name	Actual Lease/License Date	Length of Lease/License	Licensee
N/A			

## Significant Base Tenants

Projected Date of Final Transfer of Property: 201909

## National Priorities List (NPL) Status

A score of 42 was recorded on 01-FEB-90.

Final RA(C) Completion Date: 201909

Date for NPL Deletion: TBD

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

RAB established 1994

# Cleanup Program Summary

## Previous Year Planned versus Actual Progress

### Installation Program Cleanup Progress

#### BRAC-IRP

**Prior Year Progress:** Three groundwater treatment plants continue to operate. In 2009, construction of the Operable Unit (OU) Carbon Tetrachloride in situ bioremediation system began and is well underway. Outreach and database management continued as did landfill long-term management (LTM). Soil excavation is underway at Site 39.

**Future Plan of Action:** Three groundwater treatment plants will continue operation as well as the in situ treatment for OU Carbon Tetrachloride. Landfill LTM will continue. Continue soils excavation at Site 39. Outreach and database management will continue.

#### BRAC-MMRP

**Prior Year Progress:** Oversight of the Environmental Services Cooperative Agreement (ESCA) project continued. Prescribed burns were completed at Units 14 and 19 and MEC removal is underway. Outreach and database management continued.

**Future Plan of Action:** MEC awareness/site security programs will continue. Prescribed burns are planned for Units 15, 21, 32 and 34 followed by MEC remediation. The remaining Track 0 and 1 parcels will be transferred. Oversight and support for ESCA will continue and a remedial investigation/feasibility study (RI/FS) for the remaining Military Munitions Response Program (MMRP) areas will be developed. Outreach and database management will continue.

### Installation Exit Strategy

Property transfer will be completed after completion of all necessary remediation. Portions of the installation were transferred to the FORA under Early Transfer authority and cleanup of these areas will be managed by FORA under the ESCA process. Exit strategies for specific sites are discussed within the narrative for each site.

## Land Use Control (LUC) Summary

LUC title: Deeds

Site(s): FTO-044

ROD/DD title: Carbon Tetrachloride (OU-CT)

Location of LUC

In the vicinity of the OUCTP.

Land Use Restriction: Media specific restriction - Prohibit groundwater extraction that interferes with Remedial Action system, Media specific restriction - prohibit use of groundwater for consumption or domestic purposes, Media specific restriction - restrict drinking water well installation, Media specific restriction - restrict withdrawal or use of groundwater for agricultural/irrigation purposes

Types of Engineering Controls: None

Types of Institutional Controls: Deed Notices, Deed Restrictions

Date in Place: 200712

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: County

Record of LUC: FOSET, FOST

Documentation Date: N/A

LUC Enforcement: Annual Inspections, 5 Year Reviews, Transferee Reporting

Contaminants: VOC

Additional Information

N/A

LUC title: Excavation and Site Reuse

Site(s): FTO-015-R-01

ROD/DD title: MMRP TRACK 2 Del Rey Oaks

Location of LUC

Del Rey Oaks, CA

Land Use Restriction: Media specific restriction - Prohibit, or otherwise manage excavation, Media specific restriction - Prohibit, or otherwise manage excavation below a specified depth, Restrict land use - No daycare/hospital/school use, Restrict land use - No residential use

Types of Engineering Controls: None

Types of Institutional Controls: Construction Permit, Deed Notices, Dig Permits, Local Use ordinances, Restrictions on land use, Restrictive covenants

Date in Place: 200512

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: City

Record of LUC: FOSET

Documentation Date: 200512

LUC Enforcement: Transferee Reporting

Contaminants: Unexploded Ordnance(UXO)

Additional Information

N/A

## Land Use Control (LUC) Summary

LUC title: Excavation and Site Use

Site(s): FTO-020-R-01

ROD/DD title: MMRP TRACK 2 Parker Flats

Location of LUC

Parker Flats Area

Land Use Restriction: Media specific restriction - Prohibit, or otherwise manage excavation, Media specific restriction - Prohibit, or otherwise manage excavation below a specified depth, Restrict land use - No daycare/hospital/school use, Restrict land use - No residential use

Types of Engineering Controls: None

Types of Institutional Controls: Construction Permit, Deed Notices, Deed Restrictions, Dig Permits, Education programs, Local Use ordinances, Restrictions on land use, Restrictive covenants

Date in Place: 200809

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: State

Record of LUC: FOSET

Documentation Date: N/A

LUC Enforcement: Annual Inspections, 5 Year Reviews, Transferee Reporting

Contaminants: Unexploded Ordnance(UXO)

Additional Information

N/A

LUC title: Excavation and Site Use

Site(s): FTO-014-R-01

ROD/DD title: MMRP TRACK 3 Impact Area

Location of LUC

Impact Area

Land Use Restriction: Media specific restriction - Prohibit, or otherwise manage excavation, Media specific restriction - Prohibit, or otherwise manage excavation below a specified depth, Restrict land use - Mitigation area(s) protection, Restrict land use - No daycare/hospital/school use, Restrict land use - No residential use

Types of Engineering Controls: Fences, Signs

Types of Institutional Controls: Education programs, Restrictions on land use

Date in Place: 200809

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: Installation

Record of LUC: ECOP (Fed to Fed)

Documentation Date: N/A

LUC Enforcement: Annual Inspections, 5 Year Reviews

Contaminants: Unexploded Ordnance(UXO)

Additional Information

N/A

# FORT ORD

Base Realignment and Closure  
Installation Restoration Program

# BRAC-IRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) BRAC Sites/Closeout Sites Count: 46/40

## Sites planned for RIP for FY2011

Site ID	Site Name	Month
N/A		

## Sites planned for RC for FY2011

Site ID	Site Name	Month
N/A		

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

- 1 Contaminated Ground Water (FTO-044)
- 1 Contaminated Sediments (FTO-003)
- 1 Fire/Crash Training Area (FTO-041)
- 1 Landfill (FTO-053)
- 1 Small Arms Range (FTO-039)
- 1 Spill Site Area (FTO-012)

## Most Widespread Contaminants of Concern\*

Explosives, Metals, Semi-volatiles (SVOC), Volatiles (VOC)

## Media of Concern\*

Groundwater, Other (Soil Gas), Soil

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

Site ID	Site Name	Action	Remedy	FY	Cost
FTO-041	SITE 41 FAAF FIRE DRILL AREA (OU1)	FRA	GROUND WATER TREATMENT	1988	TBD
FTO-006	SITE 6-CAR DUMP (SITE 39)	FRA	WASTE REMOVAL - SOILS	1996	TBD
FTO-008	SITE 8 MC RANGES 49 (SITE 39)	FRA	WASTE REMOVAL - SOILS	1996	TBD
FTO-024	SITE 24 OLD DEH YARD	FRA	WASTE REMOVAL - SOILS	1996	TBD
FTO-039B	SITE 39B INTERGARRISON	FRA	WASTE REMOVAL - SOILS	1996	TBD
FTO-007	SITE 7 RANGES 40/41 FIRE DEMO (SITE 39)	FRA	WASTE REMOVAL - SOILS	1997	TBD
FTO-003	SITE 3-BEACH TRAINFIRE RANGES	FRA	WASTE REMOVAL - SOILS	1998	TBD
FTO-009	SITE 9 FFE TRAINING AREA (SITE 39)	FRA	WASTE REMOVAL - SOILS	1998	TBD
FTO-016	SITE 16 DOL MAINTENANCE/PETE'S POND	FRA	WASTE REMOVAL - SOILS	1998	TBD
FTO-017	SITE 17 1400 BLOCK MOTOR POOL	FRA	WASTE REMOVAL - SOILS	1998	TBD
FTO-031	SITE 31 FORMER DUMP SITE, EAST GARRISON	FRA	WASTE REMOVAL - SOILS	1998	TBD
FTO-034	SITE 34 FAAF FUELING FACILITY	FRA	WASTE REMOVAL - SOILS	1998	TBD
FTO-039A	SITE 39A EAST GARRISON SKEET RANGES	FRA	WASTE REMOVAL - SOILS	1998	TBD

## BRAC-IRP Summary

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

Site ID	Site Name	Action	Remedy	FY	Cost
FTO-003	SITE 3-BEACH TRAINFIRE RANGES	FRA	WASTE REMOVAL - SOILS	1999	TBD
FTO-012	SITE 12 DOL AUTO MAINT. AREA/CANNIBAL.YD	FRA	GROUND WATER TREATMENT	2000	TBD
FTO-053	LANDFILL (OU2)	FRA	GROUND WATER TREATMENT	2003	TBD
FTO-053	LANDFILL (OU2)	FRA	CAPPING	2003	TBD
FTO-005	SITE 5-RANGE 36A (SITE 39)	IRA	WASTE REMOVAL - SOILS	2004	TBD
FTO-044	RESERVATION ROAD SITE	IRA	SOIL VAPOR EXTRACTION	2004	TBD
FTO-044	RESERVATION ROAD SITE	IRA	BIOREMEDIATION - IN SITU GROUNDWATER	2004	TBD
FTO-005	SITE 5-RANGE 36A (SITE 39)	FRA	UXO CLEARANCE	2007	TBD

### Total BRAC-IRP Funding

Prior Funding:	\$258,705.9 K
Current Requirements:	\$.0 K
Future Requirements:	\$110,238.0 K

### Duration of BRAC-IRP

Date of BRAC-IRP Inception:	198006
Date for Remedy-In-Place (RIP)/Response Complete (RC):	201709/203610
Date of BRAC-IRP completion including Long Term Management (LTM):	204009

\*Note: This does not include sites closed prior to installation being identified as BRAC.

# BRAC-IRP Contamination Assessment

## Contamination Assessment Overview

After completion of the first phase of RI/FS fieldwork, the installation restoration (IR) sites clearly could be categorized based on whether a release was identified at a site, and if a release had occurred, the nature and extent of the release. Therefore, using the initial site characterization information and existing pre RI/FS data, the 43 sites were categorized as:

- (1) base-wide RI sites,
- (2) interim action (IA) sites, or
- (3) no action (NoA) sites.

These three categories are defined as follows; the individual RI, IA, and NoA sites are listed in Sections 7.0, 9.0, and 10.0, respectively:

- RI Sites: These have sufficient contamination to warrant a full RI, baseline risk assessment (BRA), ecological risk assessment (ERA), and FS
- NoA Sites: These sites do not warrant RA under Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA)
- IA Sites: These are sites with limited volume and extent of contaminated soil and, as a result, are easily excavated, as an IA.

To accelerate the cleanup process, IA and NoA sites were addressed in separate remedial categories from the RI sites and were supported by their own records of decision (ROD). These RODs provided a process for accelerated transfer of NoA sites and cleanup of IA sites under BRAC, rather than delaying cleanup or transfer actions until a final ROD for Fort Ord is signed. The NoA ROD was signed in April 1995 and the IA ROD was signed in March 1994. The RI sites ROD signed in January 1997 addressed cleanup of a range of sites for which full RI/FSs were deemed necessary. A ROD amendment was signed in September 2009 for the soil excavation project in Site 39.

In addition to the RI, NoA, and IA site RODs, three OUs at Fort Ord were also supported by their own RODs (Operable Unit 1 [OU1], the Fritzsche Army Airfield [FAAF] Fire Drill Area; Operable Unit 2[OU2], the Fort Ord landfills; and Operable Unit Carbon Tetrachloride [OUCTP]). These follow individual paths to the final ROD for Fort Ord. The ROD for OU 1 was signed in September 1995, the OU2 ROD was signed in August 1994, and the OUCTP ROD was signed in 2008.

The groundwater (GW) contamination plumes identified at OU1 and OUCTP have both moved outside the former Fort Ord property limits. Contamination outside the former Fort Ord property limits at OU1 was identified in December 2004. Initial characterization has indicated that the contamination has migrated approximately 1,500 feet off the former Fort Ord property boundary in an area called Armstrong Ranch.

In late-2007, the Army developed a pilot study at OU1 to collect the information needed to design and install a GW extraction and treatment system to address the site contamination at Armstrong Ranch. The pilot system was installed in mid-2008 and was operational in August 2008. Monitoring results from the pilot study indicate that aquifer cleanup levels have been met and the project is currently in a rebound study which was successfully completed and the system has been shut down. Because the plume had moved outside the Fort Ord property limits, the USEPA required an Explanation of Significant Differences (ESD) to document the changes to the OU1 ROD. The ESD was completed in 2010.

GW contamination from OUCTP has also been identified outside the former Fort Ord property limits, in the city of Marina. Concentration levels are low and will be addressed using bioremediation techniques in the uppermost aquifer. The ROD signed in February 2008 established RAs to include bioremediation treatment in the uppermost aquifer, extraction and treatment in the upper 180-foot aquifer, and monitored natural attenuation (MNA) in the lower 180-foot aquifer. In 2009, construction of the bioremediation system began and is well underway. In 2010, construction of the upper 180-foot aquifer extraction well and pipelines are underway. In addition, four new monitoring wells are required for MNA.

GW flow at FTO-053, OU2 is complex- affecting three aquifer units. GW flow in the 180-foot aquifers is further complicated by off-site pumping. Uncertainties include discontinuous low permeable layers which allow contamination to migrate into lower unaffected zones, and GW extraction by municipal and agricultural users which modifies GW flow. Additional characterization is underway to further understand the hydrogeologic conditions and optimize the extraction system to capture contaminated water.

The Site 39 ROD amendment required the excavation of approximately 125,000 cubic yards of contaminated soils from approximately 53 acres on former Fort Ord and transport and disposal in the on-site landfill. The remediation sites will then be restored and monitored to demonstrate successful restoration of critical habitat and rare, threatened, and endangered species.

## BRAC-IRP Contamination Assessment

The Site 39 soil excavation activities began in December 2009 and will continue through 2013.

Regulatory oversight/interest by federal and state agencies remains elevated.

Public interest is intermittent and appears to be limited to a small group of citizens concerned about the GW and munitions cleanup actions and development. Comments and questions are addressed as the public brings them to the Fort Ord BRAC office's attention.

*(this page intentionally left blank)*

# FORT ORD

## Installation Restoration Program

### Site Descriptions

Site Name: SITE 3-BEACH TRAINFIRE RANGES

**STATUS**

Parcel: NONE  
 Regulatory Driver: CERCLA  
 RRSE: HIGH  
 Program: BRAC-IRP  
 Contaminants of Concern: Metals  
 Media of Concern: Soil  
 BRAC Round: BRAC II

Phases	Start	End
PA.....	199006.....	199012
SI.....	199006.....	199012
RI/FS.....	199006.....	199510
RD.....	199603.....	199704
RA(C).....	199702.....	199812
LTM.....	200009.....	201509

RIP Date: N/A  
 RC Date: 200009

**SITE DESCRIPTION**

The former Beach Trainfire Ranges (FTO-003) were identified as Site 3 in the Final basewide RI/FS (HLA, 1995). The site extends approximately 3.2 miles along the coastline of Monterey Bay at the western boundary of Fort Ord and was used for small arms training from the 1940s until base closure. Spent bullets accumulated on the sand dunes that formed the "backstops" for the targets. The beach ranges provide critical habitat for several plant and animal species that are listed as rare, threatened, or species of special concern (Harding ESE, 2002). The Final basewide RI/FS evaluated cleanup alternatives for soil containing lead and other metals (HLA, 1995) to protect human health, and indicated further study was required to assess impacts to the environment (ecological receptors) at the site. The selected remedy consisted of the excavation of contaminated soil and was documented in the Interim ROD, Site 3, Beach Trainfire Ranges, Fort Ord, California (Site 3 Interim ROD; Army, 1997). After the cleanup was completed, post-remediation sampling determined that the remaining site-wide average lead concentration in soil was 161 milligrams per kilogram (mg/kg) (IT, 2000). Subsequent ecological risk assessments and evaluations of risks to plants or animals after the cleanup for lead have been completed at Site 3 (MRS-22) and include a Post-Remediation ERA (IT, 2000). Site 3 has been transferred to California Department of Parks and Recreation and is now the Fort Ord Dunes State Park. The state park includes hiking trails, future campgrounds, and ancillary facilities. A walkway through the dunes connects a parking lot on the eastern portion of the site with the beach to the west.

A final ROD for the Site 3 Beach Trainfire Ranges, signed in April 2005, requires ecological monitoring to confirm previous results of ecological risk evaluations and assessments that the non-remediated areas are protective of human health and the environment.

In June 2008, the Army prepared the Habitat Restoration and Monitoring Plan (HRMP) which outlines the strategy and methods to be used to further evaluate potential impacts to ecological receptors from exposure to residual metals within non-remediated areas. The Army awarded a contract to the California Department of Parks and Recreation to conduct the work and prepare reports on the progress. As of August 2010, the evaluation of impacts to ecological receptors in non-remediated areas indicates no further action is needed.

**CLEANUP/EXIT STRATEGY**

Complete re-vegetation and ecological monitoring in accordance with the Site 3 HRMP. The goals of the HRMP are to demonstrate that dune scrub restoration can be self-sustaining within non-remediated areas with no deleterious effects to native dune vegetation from residual metals in soil; and 2) Achieve after five years, vegetative cover comparable to existing occurrences of dune scrub in areas without residual metals in Fort Ord Dunes State Park; and 3) Achieve individual plant health and condition (using seacliff buckwheat as a model) comparable to plants growing in dune scrub in areas without residual metals. The results will be used to validate previous results of ecological risk evaluations/assessment in accordance with the Site 3 ROD. The monitoring results and analysis will be included in the next five-year review and we anticipate that the site can be closed out in FY2015 following the next five-year review.

Site Name: SITE 12 DOL AUTO MAINT. AREA/CANNIBAL.YD

**STATUS**

Parcel: NONE  
 Regulatory Driver: CERCLA  
 RRSE: HIGH  
 Program: BRAC-IRP  
 Contaminants of Concern: Semi-volatiles (SVOC),  
 Volatiles (VOC)  
 Media of Concern: Groundwater, Soil  
 BRAC Round: BRAC II

Phases	Start	End
PA.....	199006.....	199012
SI.....	199006.....	199012
RI/FS.....	199006.....	199510
RD.....	199507.....	199712
RA(C).....	199612.....	199911
RA(O).....	199912.....	201709
LTM.....	201710.....	202209

RIP Date: 199912  
 RC Date: 201709

**SITE DESCRIPTION**

FTO-012 (Site 12) is located in the northwest portion of Fort Ord, east of Highway 1 and adjacent to Imjin Parkway. It encompasses approximately 12 acres. This site was used for light industrial activities related to vehicle maintenance. Operations caused both soil and groundwater contamination. The area was assessed in the base-wide RI/FS (HLA, 1995).

Contaminated soils and associated debris were excavated during cleanup activities at the site, and the area was backfilled with clean soil. Remedial actions to address soil contamination have been completed.

In April 1999 construction of a groundwater pump-and-treat system was completed and system operations began. From the start of the operation of the treatment system, groundwater has been sampled periodically to verify that the treatment system is operating effectively. Since 1999, water samples and water levels from groundwater monitoring wells have been collected every three months. This groundwater monitoring information has been compiled into quarterly and annual reports to show the long-term trends for this site.

From 2003 to 2005 Fort Ord initiated a groundwater optimization study of the operations. The optimization identified that an addition of an air stripper with potassium permanganate adsorption would allow the system to operate at a greater volume and reduce the overall treatment period. The air stripper system was installed and is operational. GW modeling was completed in 2008 and the results indicate that remediation to meet remedial action objectives would take an additional seven years until FY17.

**CLEANUP/EXIT STRATEGY**

System operations will continue. Locations of monitoring wells will be modified (unneeded wells destroyed/new wells constructed) as plume footprint changes (shrinks) to ensure monitoring data accurately delineates plume footprint. GW sampling frequency will be reduced for specific wells as identified in annual reports. Once aquifer cleanup levels are met, treatment system operations will cease, and monitoring will be continued to validate the remediation and support site closeout decisions. The GW treatment system, extraction wells, and pipelines as well as any remaining monitoring wells will be destroyed at site closeout.

**STATUS**

Parcel: BLM (7444 acres),SEASIDE (FORA) (FOSET 5) (615.43 acres),MONTEREY COUNTY (FORA) (FOSET 5) (2290 acres),DEL REY OAKS (FORA) (FOST 10) (4.66 acres)

Regulatory Driver: CERCLA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Semi-volatiles (SVOC)

Media of Concern: Soil

BRAC Round: BRAC II

Phases	Start	End
PA.....	199006.....	199012
SI.....	199006.....	199012
RI/FS.....	199006.....	199510
RD.....	199603.....	199801
RA(C).....	200809.....	201709
LTM.....	201710.....	202309

RIP Date: N/A

RC Date: 201709

**SITE DESCRIPTION**

FTO-039 (Site 39 Inland Ranges) is located in the southwestern portion of former Fort Ord and includes the Impact Area (approximately 8,000 acres) and a 2.36-inch Rocket Range (approximately 50 acres). The Impact Area is bounded by Eucalyptus Road to the north, Barloy Canyon Road to the east, South Boundary Road to the south, and General Jim Moore Blvd to the west. The 2.36-inch Rocket Range is immediately north of Eucalyptus Road, near the north-central portion of the Impact Area.

The Impact Area was used since the early-1900s for weapons training. Over the years, various types of ordnance have been used in the Impact Area, including hand and rifle grenades, mortars, rockets, mines, artillery projectiles, and small arms rounds. The 2.36-inch Rocket Range was reportedly used for anti-armor (bazooka) training during and shortly after World War II.

The proposed future use for most of the Impact Area will be a Natural Resource Management Area (NRMA). This area will be managed by the US Department of the Interior, Bureau of Land Management, and public access will be managed or restricted. Several areas within, but along the periphery of, the Impact Area have a proposed future land use other than as a NRMA. The areas along the south and west boundary of the Impact Area are proposed for several uses, including commercial and residential development, a school expansion, and the potential relocation of Highway 68. Identified soil contamination in the development areas along the south and west boundary of the Impact Area has been addressed to support the identified reuse(s) in those areas. The agencies have concurred that cleanup goals have been met and the property has been transferred.

The selected RAs for Site 39 Inland Ranges in the Basewide Record of Decision (ROD) (Army, 1997) were excavation where concentrations of lead in soil were above 1,860 parts per million (the identified level to address human health) and placement of soils in the Fort Ord Landfill in accordance with the substantive requirements of the Corrective Action Management Unit regulations. The cleanup levels to address ecological risks were not identified in the 1997 ROD. Additional investigations have occurred since the 1997 ROD to fully characterize the area. An Ecological Risk Assessment and Feasibility Study (FS) Addendum to identify remedial cleanup levels were completed in 2007 and 2008 respectively, with the ROD Amendment to the 1997 ROD being signed in September 2009. The FS Addendum identified the specific areas and volumes of contaminated soils to be excavated and removed. An estimated 125,000 cubic yards of contaminated soil remains to be remediated on Site 39. The ROD Amendment also includes a process to address additional areas of contamination that may be identified in the future during munitions and explosives of concern remediation. The ROD Amendment was required to establish cleanup levels to address ecological risks and is also protective of human health and has lead to significant increases in soil volumes to be excavated and placed at the former Fort Ord landfill. More than 50,000 cubic yards have been excavated and placed into Operable Unit 2 (former Fort Ord landfill) since November 2009.

There is no impact to the groundwater at Site 39.

**CLEANUP/EXIT STRATEGY**

Site ID: FTO-039  
Site Name: SITE 39 INLAND RANGES

Exit Strategy: Excavations as identified in the FS addendum and ROD Amendment will be completed. Habitat restoration of remediated areas will begin in 2010. Monitoring will be conducted to ensure habitat recovery is occurring as required by the Installation-Wide Multispecies Habitat Management Plan, Biological Opinions, and the applicable habitat restoration and monitoring plans. If funding is received as requested, all construction activities will be completed by 2013 and the former landfill parcel (143 acres) can be transferred.

Site Name: SITE 41 FAAF FIRE DRILL AREA (OU1)

**STATUS**

Parcel: UCMBEST (FOST 12) (46.32 acres)  
 Regulatory Driver: CERCLA  
 RRSE: HIGH  
 Program: BRAC-IRP  
 Contaminants of Concern: Volatiles (VOC)  
 Media of Concern: Groundwater  
 BRAC Round: BRAC II

Phases	Start	End
PA.....	198006.....	198012
SI.....	198405.....	198612
RI/FS.....	198701.....	198705
RA(C).....	198707.....	198806
RA(O).....	198807.....	201509
LTM.....	201510.....	201909

RIP Date: 198807  
 RC Date: 201509

**SITE DESCRIPTION**

FTO-041, the Fritzsche Army Airfield Fire Drill Area (FDA), also known as OU 1, was a training area for the Fort Ord Fire Department. Fuel and off specification solvents were discharged from on-site storage tanks into an unlined pit, ignited, and then extinguished with water. Training was discontinued in 1985.

Fort Ord's site investigation concluded that soil and groundwater cleanups were required in this area. The approved remedy was groundwater extraction and treatment with carbon filtration and biodegradation for soil. Approximately 4,000 cubic yards of contaminated soil were excavated in 1987. The OU 1 ROD (1995) approved no further action for soil.

A groundwater extraction and treatment facility was constructed in 1988 to remediate volatile organic compounds (VOCs) in groundwater. Currently, the extraction system in the original plume footprint has been shut off since contaminant concentrations have reached aquifer cleanup levels.

In 1998 groundwater contamination was identified outside the capture area. The Army initiated additional work to define the extent of the downgradient contamination.

In 2002 the Army issued a performance-based acquisition (PBA) with insurance to address the remaining contamination. The PBA contractor initiated work in 2003 and is working with the regulatory agencies to complete the on-site remedial work.

In December 2004 contaminated groundwater was identified beyond former Fort Ord's original property limits. In October 2005 the PBA contractor notified the Army they were not responsible for the contamination beyond the property boundary. The Army, working with another contractor, began defining the extent of the off-site investigation.

In summer 2006 the PBA contractor installed a groundwater extraction and treatment system at the boundary of the former Fort Ord. The contractor has continued to install additional extraction wells to address the total on-site plume area.

In late 2007 the Army developed a pilot study to collect the required information needed to design and install a groundwater extraction and treatment system to address the off-site contamination. The pilot system was installed in mid-2008 and monitoring results from November 2009 indicate that all contamination above cleanup levels had been removed and wells in the area have been shifted to long term monitoring. Because the plume has moved outside the former Fort Ord property limits, the USEPA required an ESD to document the changes to the ROD. The ESD was completed in 2010.

**CLEANUP/EXIT STRATEGY**

The PBA contractor will complete work on the site extraction and treatment system. The systems will be operated to reach aquifer cleanup levels, monitoring will be continued to assess status, and appropriate changes will be made to the system as aquifer

Site ID: FTO-041  
Site Name: SITE 41 FAAF FIRE DRILL AREA (OU1)

conditions change. Once cleanup levels are achieved and have regulatory approval, the treatment system will be shut down. The treatment system, wells, piping, and monitoring wells will then be destroyed.

**STATUS**

Parcel: MONTEREY COUNTY (FORA) (FOSET 5) (2290 acres), MARINA (FORA) (FOSET 5) (52.87 acres)  
 Regulatory Driver: CERCLA  
 RRSE: HIGH  
 Program: BRAC-IRP  
 Contaminants of Concern: Volatiles (VOC)  
 Media of Concern: Groundwater  
 BRAC Round: BRAC II

Phases	Start	End
PA.....	199701.....	199701
SI.....	199701.....	199802
RI/FS.....	199701.....	200309
RD.....	200309.....	200601
IRA.....	200407.....	200409
RA(C).....	200603.....	201109
RA(O).....	201110.....	202409
LTM.....	202410.....	204009

RIP Date: 201110  
 RC Date: 202409

**SITE DESCRIPTION**

FTO-044, the OUCTP, is located in the north-central portion of Fort Ord. Based upon some limited historical information, electronics maintenance activities existed in the north-central part of the former Fort Ord during the 1950s. Carbon tetrachloride appears to have been discharged to the ground after it was used to clean radio parts. Construction of base housing occurred in the area from the 1980s to the early-1990s. Data collected for the site investigation for inclusion in the RI/FS indicated that carbon tetrachloride had migrated through the soil to GW. A soil vapor extraction (SVE) system installed as a pilot study has successfully removed remaining soil vapor contamination.

GW contamination has migrated down gradient and affects three aquifer units below the site. These are the A, the upper 180-foot, and the lower 180/400-foot aquifers. The GW plume in the A aquifer is long and narrow (10,000 by 700 feet). Current use of the area impacted by the plume is residential housing in the source area on Fort Ord and in the area furthest down gradient (in the city of Marina). The central portion of the plume (approximately 5,000 feet) underlies a designated habitat preserve area. Contamination in the lower aquifer units was caused by migration through previously existing wells that were screened across the three aquifers. Well abandonment has been completed on all identified conduits.

The Record of Decision signed in February 2008 established RAs to include bioremediation treatment in the uppermost aquifer, extraction and treatment in the upper 180-foot aquifer, and MNA in the lower 180-foot aquifer. Construction of the bioremediation system is planned for completion by September 2011.

In 2010 an additional extraction well was installed to capture contaminated groundwater in the upper 180-foot aquifer and treat the water at the FTO-053/OU2 GW treatment system. MNA will require the installation (planned installation early FY11) of four additional monitoring wells in the lower 180/400-foot aquifer, with monitoring continuing for at least 30 years.

**CLEANUP/EXIT STRATEGY**

The identified remedy will be installed, monitored, and adjusted appropriately to ensure progress is made to reach aquifer cleanup level. Once the Aquifer Cleanup Level (ACL) is reached, the installation will coordinate with the regulatory agencies to shut down the treatment system in A aquifer and the upper 180-foot aquifer; the aquifers will then be monitored to identify any changes after shutdown. If the ACL holds, any remaining system infrastructure will be removed. The lower 180-foot aquifer will be monitored to ensure MNA criteria is attained.

Site ID: FTO-053

Site Name: LANDFILL (OU2)

## STATUS

Parcel: MONTEREY COUNTY (FORA) (FOST 13) (146.8 acres), MARINA (FORA) (FOST 10) (40.18 acres)

Regulatory Driver: CERCLA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Other (Soil Gas), Soil

BRAC Round: BRAC II

Phases	Start	End
PA.....	199006.....	199012
SI.....	199012.....	199012
RI/FS.....	199012.....	199306
RD.....	199307.....	199612
RA(C).....	199512.....	200211
RA(O).....	199601.....	203609
LTM.....	203610.....	204009

RIP Date: 200211

RC Date: 203610

## SITE DESCRIPTION

FTO-053 (OU2) consists of two adjacent landfill areas (150 acres) and associated contaminated GW; the site was used for residential and commercial waste disposal. The north landfill (Area A, 30 acres) was used from 1956-1966. The main landfill (Areas B-F, 120 acres) operated from 1960-1987 and may have received a small amount of chemical waste (paint, oil, pesticides, electrical equipment, ink, and epoxy adhesive) along with household and commercial refuse. The Army began studies in 1988. The Final RI/FS Report (1993) indicated the presence of low levels of VOCs in GW, and semi-volatile organic compounds (SVOCs), metals, and pesticides in the soil.

Remedies for landfills included capping and closure, GW extraction and treatment in conjunction with institutional controls. The north landfill has been excavated and clean closed. A construction completion report for cap construction was issued; however, the regulatory agencies did not concur on that document, because issues relating to landfill gas remained.

A GW treatment facility was constructed in 1995 to remediate GW underlying the landfill and continues to be in operation. Remediation was originally expected to take about 30 years. From 2003 to 2005 the Army assessed the treatment system to determine whether actions to optimize the system could be identified. Actions such as optimizing locations of extraction wells and extracting landfill gases before they could add to GW contamination were identified. Several of these actions have occurred.

GW modeling completed in 2008 and reported in the exit strategy for Sites 2/12 and OU2 identified that to reach RA Objectives the (GW treatment system) will need to remain in operation for approximately another 27 years in its current configuration.

Based on the modeling, a cost benefit analysis to evaluate the options of constructing a new GWTP at the landfill site has been developed. The analysis evaluated 3 options: 1) continue operations with no modifications; 2) relocate the GWTP to the landfill; and 3) continue operations at present location, with new piping and injection components. The analysis showed significant time savings for both Options 2 and 3 (10 years). Option 2 had an estimated cost saving of \$33M. Option 3 will provide cost saving of approximately \$31M. Option 2 will provide the Army the more advantageous system in addressing future remediation challenges at OU2 and potentially the OUCTP (FTO-044). A cost estimate was developed for plant relocation.

GW monitoring has identified low level contamination (below action levels) in municipal water supply wells down gradient to the landfill plume. Well monitoring will continue to determine if RA is required.

Based on the recommendations of the landfill gas (LFG) pilot test evaluation report, the Army expanded the OU2 LFG extraction and treatment system, which included installation of extraction wells around the entire perimeter of Area E and in the interior of Area F, and converting to a thermal treatment unit. This system intercepts landfill gas before GW contamination occurs, shortening the overall time that the GW treatment system needs to operate. The LFG treatment system is operational.

The landfill is also being used for disposal of soil excavated from Site 39. The Army is cleaning up the soil at several former firing ranges, removing lead and other materials. About 125,000 cubic yards of this soil will be excavated and transported to cell e of the landfill then a cover will be constructed on top of this soil and welded to the original cover. The excavation work will take 12 to 18 months. The installation of the landfill Cell E cover will follow.

Site ID: FTO-053

Site Name: LANDFILL (OU2)

## CLEANUP/EXIT STRATEGY

System operations will continue. Locations of monitoring wells will be modified (unneeded wells destroyed/new wells constructed) as the plume footprint shrinks. GW sampling frequency will be reduced for specific wells as identified in annual reports. Once aquifer cleanup levels are met, the treatment system will be shut down. Monitoring will continue to validate remediation and to support site closeout decisions. The GW treatment system, extraction wells, and pipelines as well as any remaining monitoring wells will be destroyed at site closeout.

## BRAC-IRP Schedule

Date of BRAC-IRP Inception: 198006

### 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
---------	-----------	--------------	-------------

Final RA(C) Completion Date: 201709

NPL Deletion Date: TBD

Schedule for Next Five-Year Review: 2012

Estimated Completion Date of BRAC-IRP at Installation (including LTM phase): 204009

## FORT ORD BRAC-IRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-003	SITE 3-BEACH TRAINFIRE RANGES	LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-012	SITE 12 DOL AUTO MAINT. AREA/CANNIBAL.YD	RA(O)						
		LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-039	SITE 39 INLAND RANGES	RA(C)						
		LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-041	SITE 41 FAAF FIRE DRILL AREA (OU1)	RA(O)						
		LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-044	RESERVATION ROAD SITE	RA(C)						
		RA(O)						
		LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-053	LANDFILL (OU2)	RA(O)						
		LTM						

## BRAC-IRP Costs

Total Funding through FY2004: \$218,464.0 K

(Includes ER,A funding from FY04 and prior years.)

Prior Funding					
FY	Phase	BRAC Round	Site ID	Obligations	FY Total
2005	LTM		FTO-003	\$580.0 K	\$2,542.0 K
	RA(O)		FTO-053	\$1,962.0 K	
2006	LTM		FTO-003	\$463.0 K	\$9,510.0 K
	RA(C)		FTO-005	\$75.0 K	
			FTO-039	\$4,193.0 K	
			FTO-041	\$202.0 K	
			FTO-012	\$968.0 K	
	RA(O)		FTO-053	\$1,791.0 K	
2007	RD		FTO-044	\$1,818.0 K	\$759.9 K
	LTM		FTO-003	\$74.7 K	
			FTO-003	\$308.0 K	
	RA(C)		FTO-044	\$115.2 K	
	RA(O)		FTO-041	\$262.0 K	
2008	LTM	BRAC II	FTO-003	\$158.0 K	\$27,430.0 K
	RA(C)	BRAC II	FTO-039	\$13,428.0 K	
			FTO-044	\$7,812.0 K	
			FTO-012	\$1,473.0 K	
	RA(O)	BRAC II	FTO-041	\$1,468.0 K	
		FTO-053	\$3,091.0 K		

TOTAL PRIOR FUNDING: \$258,705.9 K

Current Requirements

TOTAL CURRENT REQUIREMENTS \$ .0 K

Future Requirements - BRAC II \$110,238.0 K

Total Future Requirements \$110,238.0 K

TOTAL PROGRAM COST: \$368,943.9 K

(Includes ER,A funding from FY04 and prior years.)

Required Cost-to-Complete

BRAC II

SITE ID	Phase	SITE NAME							Out Yrs	Total
		FY11	FY12	FY13	FY14	FY15	FY16	FY17		
ACTIVITY										
FTO-003		SITE 3-BEACH TRAINFIRE RANGES								
	LTM	15	15	15	15	13			73	
Site Total									73	
FTO-012		SITE 12 DOL AUTO MAINT. AREA/CANNIBAL.YD								
	RA(O)	1338	689	689	792	689	689	689	5575	
	LTM							1217	1217	
Site Total									6792	
FTO-039		SITE 39 INLAND RANGES								
	RA(C)	4760	4760	4760					14280	
	LTM				373	216	53		671	
Site Total									14951	
FTO-041		SITE 41 FAAF FIRE DRILL AREA (OU1)								
	RA(O)	540	355	355	355	396			2001	
	LTM						228	259	748	
Site Total									3236	
FTO-044		RESERVATION ROAD SITE								
	RA(C)	2026							2026	
	RA(O)		1763	1572	1493	1493	2232	1572	10508	
	LTM								4461	
Site Total									27120	
FTO-053		LANDFILL (OU2)								
	RA(O)	10081	1903	1903	1903	2823	1740	1740	33071	
	LTM								2902	
Site Total									58066	
Totals										
		18760	9485	9294	4931	5630	4942	4260	52936	
Site Total									110238	

Programmed Cost-to-Complete

BRAC II

SITE ID	Phase	SITE NAME							Out Yrs	Total
		FY11	FY12	FY13	FY14	FY15	FY16	FY17		
ACTIVITY										
FTO-003		SITE 3-BEACH TRAINFIRE RANGES								
	LTM	15	15	15	15	13	0	0	0	73
									Site Total	73
FTO-012		SITE 12 DOL AUTO MAINT. AREA/CANNIBAL.YD								
	RA(O)	1338	689	689	792	689	689	689	0	5575
	LTM	0	0	0	0	0	0	0	1217	1217
									Site Total	6792
FTO-039		SITE 39 INLAND RANGES								
	RA(C)	2000	2000	2000	2000	2280	2280	1720	0	14280
	LTM	0	0	0	0	0	0	0	671	671
									Site Total	14951
FTO-041		SITE 41 FAAF FIRE DRILL AREA (OU1)								
	RA(O)	540	355	355	355	396	0	0	0	2001
	LTM	0	0	0	0	0	228	259	748	1235
									Site Total	3236
FTO-044		RESERVATION ROAD SITE								
	RA(C)	2026	0	0	0	0	0	0	0	2026
	RA(O)	0	1763	1572	1866	1709	2285	1572	9866	20633
	LTM	0	0	0	0	0	0	0	4461	4461
									Site Total	27120
FTO-053		LANDFILL (OU2)								
	RA(O)	2000	1903	1903	1903	2823	1740	1740	41152	55164
	LTM	0	0	0	0	0	0	0	2902	2902
									Site Total	58066
Totals										
		7919	6725	6534	6931	7910	7222	5980	61017	110238
									Site Total	110238

*(this page intentionally left blank)*

# FORT ORD

Base Realignment and Closure  
Military Munitions Response Program

# BRAC-MMRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) BRAC Sites/Closeout Sites Count: 22/0

**Sites planned for RIP for FY2011**

Site ID	Site Name	Month
N/A		

**Sites planned for RC for FY2011**

Site ID	Site Name	Month
N/A		

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

- 1 Small Arms Range  
(FTO-006-R-01)
- 21 Unexploded Munitions/Ordnance  
(FTO-001-R-01, FTO-002-R-01, FTO-003-R-01, FTO-004-R-01, FTO-005-R-01, FTO-007-R-01, FTO-008-R-01, FTO-009-R-01, FTO-010-R-01, FTO-011-R-01, FTO-012-R-01, FTO-013-R-01, FTO-014-R-01, FTO-015-R-01, FTO-016-R-01, FTO-017-R-01, FTO-018-R-01, FTO-019-R-01, FTO-020-R-01, FTO-021-R-01, FTO-022-R-01)

**Most Widespread Contaminants of Concern\***

Munitions and explosives of concern (MEC)

**Media of Concern\***

Soil

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

Site ID	Site Name	Action	Remedy	FY	Cost
N/A					

**Total BRAC-MMRP Funding**

Prior Funding:	\$128,411.2 K
Current Requirements:	\$.0 K
Future Requirements:	\$216,175.0 K

**Duration of BRAC-MMRP**

Date of BRAC-MMRP Inception:	200111
Date for Remedy-In-Place (RIP)/Response Complete (RC):	201909/201909
Date of BRAC-MMRP completion including Long Term Management (LTM):	204009

\*Note: This does not include sites closed prior to installation being identified as BRAC.

# BRAC-MMRP Contamination Assessment

## Contamination Assessment Overview

In February 1990 the former Fort Ord was listed on the National Priorities List (NPL) due to GW contamination. The Federal Facility Agreement (FFA) was signed in July 1990. The Army began military munitions investigations in 1993, including identification of potential munitions response sites (MRSs) through the archive search process. RAs using the Engineering Evaluation/Cost Analysis (EE/CA) process under CERCLA were conducted beginning in 1994. Fort Ord was officially closed in September 1994 in response to the 1991 BRAC. The Army was sued for not following the CERCLA process by not preparing an RI/FS for military munitions.

In 1998 the Army settled the suit by agreeing to complete an RI/FS for military munitions. In order to expedite property transfer, the Army categorized the 121 known or suspected sites into three tracks for the purposes of munitions response investigations. The Department of Justice required the Army to evaluate all areas other than identified sites in another track, which became Track 0. In April 2000 an agreement was signed between the Army, USEPA, and California Department of Toxic Substances Control (DTSC) to evaluate military munitions at the former Fort Ord subject to the provisions of the Fort Ord FFA. Track 0 through Track 3 are described below:

### Track 0

This track covers areas that do not contain evidence of MEC and have never been suspected as having been used for military munitions-related activities of any kind. The Track 0 process addresses single or grouped areas of land at the former Fort Ord that do not have history of munitions-related use and for which NoA is necessary to protect human health and the environment. Details of the Track 0 program and areas addressed are provided in the Track 0 ROD (2002), and the Track 0 ESD (2005).

### Track 1

This track covers sites where military munitions were suspected to have been used, but based on the RI/FS for each site, it falls into one of the following three categories and NFA is required:

- Category 1: There is no evidence to indicate military munitions were used at the site (i.e., suspected training did not occur); or
- Category 2: The site was used for training, but the military munitions items used do not pose an explosive hazard (i.e., training did not involve explosive items); or
- Category 3: The site was used for training with military munitions, but military munitions items that potentially remain as a result of that training do not pose an unacceptable risk based on site-specific evaluations. Field investigations identified evidence of past training involving military munitions, but training at these sites involved only the use of practice and/or pyrotechnic items that are not designed to cause injury. In the unlikely event that a live item of the type previously observed at the site is found, the item is not expected to function by casual contact (i.e., inadvertent and unintentional contact).

To be included in the Track 1 decision process, the results of the evaluation performed for a site must indicate a strong weight of evidence that the information from the literature review and field investigations supports NFA related to MEC as determined by the project team. Because Track 1 sites do not pose an unacceptable risk to human health or the environment from previous military munitions-related activities, NFA related to MEC is the recommended action at these sites (Track 1 ROD, 2005).

### Track 2

This track covers sites where MEC items were present and MEC removal has been conducted. Based on site-specific conditions, actions taken, residual potential risks, and anticipated future reuse, each Track 2 site or area will be evaluated through an RI/FS, proposed plan (PP), and ROD.

### Track 3

This track covers areas where MEC items are known or suspected to be present, but MEC investigations have not yet been completed. Sites will be evaluated through an RI/FS, PP, and ROD.

Numerous parcels and MRSs have been documented as Track 0 areas and Track 1 sites, respectively, and transferred with no restrictions. RODs selecting LUCs were signed for two Track 2 munitions response areas (MRAs). The former Impact Area was evaluated as a Track 3 site; RAs are in progress based on a 2008 ROD. Remaining areas are currently being evaluated under the Remaining RI/FS Areas Management Plan to determine their applicable tracks to complete the CERCLA process.

In March 2007, the Army and FORA entered into an ESCA concerning a total of 3,426 acres of the former Fort Ord property. These acreages affect 12 munitions response FTOs and have been transferred to FORA under the Early Transfer authority. The ESCA requires FORA to complete munitions response activities necessary to obtain site closeout under CERCLA (except Army Obligations that are listed in the ESCA) in areas included in the ESCA. The ESCA grant has been paid to FORA according to a schedule described in the agreement.

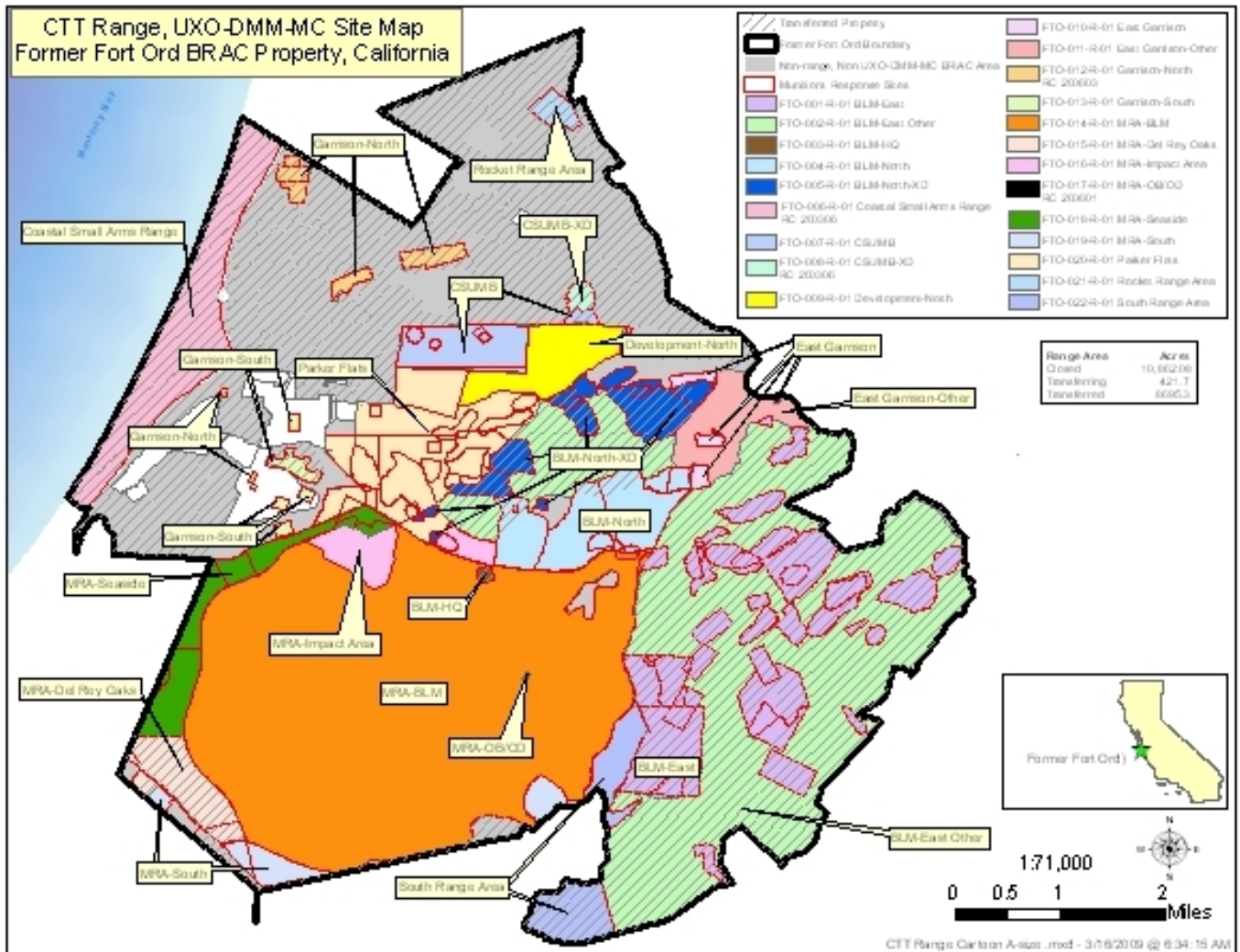
## BRAC-MMRP Contamination Assessment

In the ESCA process, the FORA works as an agent/contractor for the Army and the Army provides oversight of FORA's ESCA activities. ESCA public outreach and documents on the cleanup work are prepared by FORA and/or its contractors and supplied to the Army to be posted on the cleanup website ([www.fortordcleanup.com](http://www.fortordcleanup.com)) and in the administrative record. FORA and/or its contractors attend US Army public outreach meetings and provide updates to the public as a part of the Army's overall briefings on the cleanup efforts at the former Fort Ord. The same regulatory oversight, cleanup requirements, and public participation requirements apply to the early transfer (ET)/ESCA as would apply if the Army were conducting the cleanup.

Further details concerning FORA's ESCA remediation program can be found at FORA's website at [www.fora-esca-rp.com](http://www.fora-esca-rp.com) and (831) 883-3506.

# BRAC-MMRP Installation Map(s)

Fort Ord CTT Map FY09  
 Fort Ord CTT Map FY09



*(this page intentionally left blank)*

# FORT ORD

## Military Munitions Response Program

### Site Descriptions

**STATUS**

Parcel: BLM (7444 acres), MONTEREY COUNTY (FORA) (FOST 10) (380.05 acres)  
 Regulatory Driver: CERCLA  
 Program: BRAC-MMRP  
 MRSPP Score: 03  
 Contaminants of Concern: Munitions and explosives of concern (MEC)  
 Media of Concern: Soil  
 BRAC Round: BRAC II

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	200710.....	201409
LTM.....	201410.....	202209

RIP Date: N/A  
 RC Date: 201409

**SITE DESCRIPTION**

The BLM-East (FTO-001-R-01) range complex covers approximately 1,847.1 acres. It is located in the southeast section of Former Fort Ord and contains approximately 30 training and maneuver areas. Training maps from 1984 indicate these areas of the complex as several small unit infantry maneuver training areas likely used from the 1940s until the closure of the base in 1994 involving signaling and simulator devices as well as small arms blank ammunition. Munitions response including sampling and removal has been conducted on some ranges in the complex. Other ranges remain to be sampled. The complex and adjoining property have been transferred to BLM for use as public lands. The area is subject to the requirements of a Munitions Response (MR) RI/FS.

Investigation of potential soil contamination is conducted under a separate RI/FS program. See FTO-039. This range complex is within areas designated as an NRMA.

In March 2007, the Army and the FORA entered into an ESCA concerning a total of 3,426 acres of the former Fort Ord property. These acreages affect 12 MRSSs. The acreage has been transferred to FORA under the early transfer authority. The ESCA requires FORA to complete munitions response activities necessary to obtain site closeout under CERCLA (except Army obligations that are listed in the ESCA) in areas included in the ESCA. The ESCA grant has been paid to FORA according to a schedule described in the agreement. Even though the munitions response responsibilities associated with the ESCA areas have been transferred to FORA, the BRAC office will provide oversight of FORA's ESCA activities as described in the ESCA. Approximately 5.6 acres of FTO-001-R-01 is included in the ESCA project. The ESCA parcels are portions of E11b.7.1 and L20.8.

The site strategy for the ESCA-portion of this range complex includes oversight of the FORA ESCA remediation program until site closeout is attained, which is expected in FY14. The site strategy for the remaining portion of the range complex includes:

- Track 1 sites: NFA and LTM measures are required for 239 areas of the range complex based on the Track 1 ROD (MRS-27X, MRS-32A/B, MRS-63, MRS-69, and MRS-70). As of Fall 2010, site assessment field work is in progress.
- Track 1 future sites: Based on the Final Remaining RI/FS Areas Management Plan, site assessment and Track 1 approval memorandum are required for 1,410 acres (MRS-17, MRS-14B/C, MRS-32C, MRS-27K/L/M/N/O/P/Q/R/S/T/U/V/W, MRS-60, MRS-61, MRS-64, MRS-65, MRS-67, and MRS-68).
- Track 2 future sites: Based on the Final Remaining RI/FS Areas Management Plan, site assessment, Track 2-type RI/FS, PP, and ROD are required for 192 acres where MEC removal was conducted (MRS-14D/E, MRS-25, MRS-26, MRS-12, and MRS-21).

LTM measures will be required for this range complex through FY22.

An explanation of the remedial activities for Tracks 0-3 can be found in the Cleanup Program Summary section of this BIAP.

**CLEANUP/EXIT STRATEGY**

Site ID: FTO-001-R-01  
Site Name: BLM-EAST

The range complex is in the RI phase through FY14. Remedial action construction [RA(C)] is not expected to be required. LTM will be required through FY22.

The site strategy for the ESCA-portion of this range complex includes oversight of the FORA ESCA remediation program until Site Closeout is attained, which is expected in FY14.

The site strategy for the remaining portions of the range complex includes:

- Track 1 sites. No further remedial action is required for this portion of the range complex based on the Track 1 ROD (MRS-27X, MRS-32A/B, MRS-63, MRS-69, and MRS-70; 239 acres). LTM measures are required based on Track 1 ROD through the FY12 five-year review.
- Track 1 future sites. Based on the final Remaining RI/FS Areas Management Plan, Site Assessment and Track 1 Approval Memorandum are required for 1,410 acres (MRS-17, MRS-14B/C, MRS-32C, MRS-27K/L/M/N/O/P/Q/R/S/T/U/V/W, MRS-60, MRS-61, MRS-64, MRS-65, MRS-67, and MRS-68). As of Fall 2010, site assessment field work is in progress.
- Track 2 future sites. Based on the final Remaining RI/FS Areas Management Plan, Site Assessment, Track 2-type RI/FS, PP, and ROD are required for 192 acres where MEC removal was conducted (MRS-14D/E, MRS-25, MRS-26, MRS-12, and MRS-21). LTM will be required.

## STATUS

Parcel: BLM (7444 acres), MONTEREY COUNTY (FORA) (FOST 10) (380.05 acres)  
 Regulatory Driver: CERCLA  
 Program: BRAC-MMRP  
 MRSPP Score: 03  
 Contaminants of Concern: Munitions and explosives of concern (MEC)  
 Media of Concern: Soil  
 BRAC Round: BRAC II

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	200710.....	201409
RA(C).....	201410.....	201909
LTM.....	201910.....	203209

RIP Date: N/A  
 RC Date: 201909

## SITE DESCRIPTION

The BLM-East Other range complex (FTO-002-R-01) contains approximately 4,929.8 acres that surround the BLM - East complex areas on the southeast portion of Former Fort Ord. The acreage of this complex is not specifically identified as a range; however, these areas were used by troops to get from one area to another within BLM - East and as such are defined as range areas. The acreage of the complex was included in 1984 training facilities maps of small unit maneuver areas. The area is not indicated or identified as an area where military munitions were used. The complex has been transferred to US BLM for use as public lands. The area is subject to the requirements of an MR RI/FS. This area is assumed to have been used during the same period as BLM - East range complex.

Investigation of potential soil contamination is conducted under a separate RI/FS program. See FTO-039. This range complex is within areas designated as an NRMA. Prescribed burning is the preferred method of vegetation clearance in support of any RA in NRMA.

The site strategy for this range complex includes the following actions:

- An RI followed by a Track 1 plug-in decision document (DD) will be required for a majority of this FTO to support NFA.
- Based on the Final Remaining RI/FS Areas Management Plan, 553 acres of this range complex will be evaluated in a Track 2-type RI/FS, PP, and ROD. The Track 2 area would require MEC removal. As of fall 2010, site assessment fieldwork is in progress.
- This range complex would require LTM through FY32.

An explanation of the remedial activities for MR RI/FS Tracks 0-3 can be found in the Cleanup Program Summary section of this BIAP.

## CLEANUP/EXIT STRATEGY

The range complex is in the RI phase through FY14. RA(C) is expected to be required for FY15-FY19. LTM will be required through FY32.

The site strategy for the range complex includes:

- Track 1 future sites. Based on the final Remaining RI/FS Areas Management Plan, a majority of this range complex is expected to require NFA (4377.3 acres). RI followed by a Track1 Plug-In DD will be required. LTM measures will be required based on the Track 1 ROD.
- Track 2 future sites. Based on the final Remaining RI/FS Areas Management Plan, 552.5 acres of this range complex will be evaluated in a Site Assessment, Track 2-type RI/FS and ROD. The Track 2 area would require MEC removal. LTM will be required.

**STATUS**

Parcel: NONE  
 Regulatory Driver: CERCLA  
 Program: BRAC-MMRP  
 MRSPP Score: Evaluation pending  
 Contaminants of Concern: Munitions and explosives of concern (MEC)  
 Media of Concern: Soil  
 BRAC Round: BRAC II

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	201001.....	201310
LTM.....	201311.....	202209

RIP Date: N/A  
 RC Date: 201310

**SITE DESCRIPTION**

The whole BLM-Headquarters (BLM-HQ) occupies 12.9 acres and is located on the northern edge of the Impact Area and consists of MRS-35, the former range control. The impact area was historically used for small arms training, and as firing and impact areas for a variety of grenades, shoulder-launched projectiles, and other munitions. In 1994 MRS-35 was sampled to a depth of four feet. A total of 508 small arms and two munitions items (a grenade fuze and a ground illumination signal) were located. Munitions surface removal was conducted in January 1998. The September 2001 after action report indicates that no further munitions response is needed to support reuse of the property. This area is subject to the requirements of a pending MR RI/FS.

Investigation of potential soil contamination is conducted under a separate RI/FS program (See FTO-039 for details).

The site strategy for this range complex includes a Track 2-type RI/FS, PP, and ROD. LTM will be required through FY22. As of Fall 2010, this site is being reevaluated as a candidate Track 1 site. An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section of this BIAP.

**CLEANUP/EXIT STRATEGY**

As of Fall 2010, this site is being reevaluated as a potential Track 1 site. Long term management measures will be required based on the Track 1 ROD. The site strategy for this range complex includes a Track 2-type RI/FS, PP, and ROD. This range complex would require LTM measures after the completion of Track 2 RI/FS phase. The LTM phase will be composed of MEC monitoring and the five-year review process.

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

## STATUS

Parcel: BLM (7444 acres)

Regulatory Driver: CERCLA

Program: BRAC-MMRP

MRSPP Score: 03

Contaminants of Concern: Munitions and explosives of concern (MEC)

Media of Concern: Soil

BRAC Round: BRAC II

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	201001.....	201409
RA(C).....	201410.....	201909
LTM.....	201910.....	203209

RIP Date: N/A

RC Date: 201909

## SITE DESCRIPTION

The BLM-North range complex (FTO-004-R-01), located in the central portion of the former Fort Ord, includes approximately 727.8 acres and was used for maneuver, training, and weapons ranges from approximately 1930 through the 1950s involving rifle grenades and small arms. The area was later used for small unit infantry maneuver training involving simulators, signaling devices, and blank surface-to-air arms ammunition until closure of the base in 1994. The area is planned for transfer to BLM for use as public lands, but this transfer has not been initiated. A vegetation burn was conducted in 1997 and removal and sampling actions were completed in the area. This area is subject to the requirements of the Fort Ord MR RI/FS program.

The following sites make-up FTO-004-R-01:

- MRS-10A,
- MRS-10B,
- MRS-19,
- MRS-27I,
- MRS-27J,
- MRS-48, and
- MRS-58.

Investigation of potential soil contamination is conducted under a separate RI/FS program. See FTO-039. This range complex includes areas designated as an NRMA. Prescribed burning is the preferred method of vegetation clearance in support of any RA in NRMA.

The site strategy for this range complex includes a Track 2-type MR RI/FS, PP, and ROD. An RA is also proposed for this area. Based on the Final Remaining RI/FS Areas Management Plan, except for approximately 200 acres of this range complex where one-foot removal was previously conducted, the Track 2 area would require MEC removal.

This range would require LTM measures after the completion of RI/FS and RA.

An explanation of the remedial activities for Tracks 0-3 can be found in the Cleanup Program Summary section of this BIAP.

## CLEANUP/EXIT STRATEGY

The range complex is in the RI phase through FY14. RA(C) is expected to be required for FY15-FY19. LTM will be required through FY32.

The site strategy for this range complex includes Track 2-type MR RI/FS, PP, ROD and RA. Based on the final Remaining RI/FS Areas Management Plan, except for approximately 200 acres of this range complex where one-foot removal was previously conducted, the Track 2 area would require MEC removal (527.8 acres). LTM measures will be required after the completion of the

Site ID: FTO-004-R-01  
Site Name: BLM-NORTH

RI/FS and RA.

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

Site ID: FTO-005-R-01  
Site Name: BLM-NORTH- XD

**STATUS**

Parcel: BLM (7444 acres), MONTEREY COUNTY (FORA)  
(FOSET 5) (2290 acres), MONTEREY COUNTY (FORA)  
(FOST 10) (380.05 acres)

Regulatory Driver: CERCLA

Program: BRAC-MMRP

MRSPP Score: 03

Contaminants of Concern: Munitions and explosives of concern (MEC)

Media of Concern: Soil

BRAC Round: BRAC II

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	200709.....	201409
RA(C).....	201410.....	201709
LTM.....	201710.....	203009

RIP Date: N/A

RC Date: 201709

**SITE DESCRIPTION**

The BLM-North-XD range complex (FTO-005-R-01), located in the central portion of the former Fort Ord, includes approximately 507 acres (previously 512.5 acres; five acres had been transferred to FTO-020-R-01) and was used for maneuver, training, and weapons ranges from approximately 1930 through the 1950s involving rifle grenades and small arms. The area was later used for small unit infantry maneuver training involving simulators, signaling devices, and blank surface-to-air small arms ammunition until closure of the base in 1994. The area has been transferred to BLM for use as public lands. A visual inspection of munitions of the observable surface area has been completed in this area. The area is subject to the requirements of the Fort Ord MR RI/FS program.

Investigation of potential soil contamination is conducted under a separate RI/FS program. See FTO-039. This range complex is within areas designated as an NRMA. Prescribed burning is the preferred method of vegetation clearance in support of any RA in NRMA.

MRS-59A, MRS-59B, and MRS-27F were addressed as NFA sites in the March 10, 2005 Track 1 ROD and the July 19, 2006 Track 1 Plug-In Approval Memorandum for Multiple Sites, Groups 1-5, at Former Fort Ord, California.

In March 2007 the Army and FORA entered into an ESCA concerning a total of 3,426 acres of the former Fort Ord property. These acreages affect 12 munitions response sites. The acreages will be transferred to FORA under the Early Transfer authority. The ESCA requires FORA to complete environmental response activities necessary to obtain site closeout under CERCLA (except Army Obligations that are listed in the ESCA) in areas included in the ESCA. The ESCA grant has been paid to FORA according to a schedule described in the agreement. Even though the munitions response responsibilities associated with the ESCA areas have been transferred to FORA, the Fort Ord Base Realignment and Closure Field Office will provide oversight of FORA's ESCA activities as described in the ESCA. Approximately 56.3 acres of FTO-005-R-01 are included in the ESCA project.

The site strategy for the ESCA-portion of this range complex includes oversight of the FORA ESCA remediation program until site closeout is attained, which is expected in FY14. The site strategy for the remaining portion of the range complex includes:

- Track 1 sites: NFA is required for this 59-acre portion of this range complex based on the Track 1 ROD (MRS-59A, MRS-59B, and MRS-27F).
- Track 1 future sites: Based on the Final Remaining RI/FS Areas Management Plan, a Track 1 approval memorandum is required in 235 acres of habitat-designated areas (MRS-27D, MRS-57, and MRS-59).
- Track 2 future sites: Based on the Final Remaining RI/FS Areas Management Plan, Track 2 RI/FS, PP, and ROD are required for approximately 157 acres where MEC removal may be required (MRS-54, MRS-56, MRS-53BLM, MRS-27GH, MRS-41, and MRS-9).

LTM measures will be required for this range complex through FY30.

An explanation of the remedial activities for Tracks 0-3 can be found in the Cleanup Program Summary section of this BIAP.

## CLEANUP/EXIT STRATEGY

The range complex is in the RI phase through FY14. RA(C) is expected to be required for FY15-FY17. LTM will be required through FY30.

The site strategy for the ESCA-portion of this range complex includes oversight of the FORA ESCA remediation program until Site Closeout is attained, which is expected in FY14.

The site strategy for the remaining portions of the range complex includes:

- Track 1 sites. No further remedial action is required for this portion of this range complex based on the Track 1 ROD (MRS-59A) and the Track 1 Plug-In process (MRS-59B and MRS-27F; 59 acres). LTM measures are required based on Track 1 ROD through the FY12 five-year review.
- Track 1 future sites. Based on the final Remaining RI/FS Areas Management Plan, Track 1 Approval Memorandum is required in habitat-portions of MRS-27D, MRS-57, and MRS-59 (235 acres).
- Track 2 future sites. Based on the final Remaining RI/FS Areas Management Plan, Track 2 RI/FS, PP, and ROD are required for areas where MEC removal may be required (MRS-54, MRS-56, MRS-53BLM, MRS-27GH, MRS-41, and MRS-9; approximately 157 acres). LTM will be required.

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

Site ID: FTO-006-R-01  
Site Name: COASTAL SMALL ARMS RANGE

**STATUS**

Parcel: NONE  
Regulatory Driver: CERCLA  
Program: BRAC-MMRP  
MRSPP Score: No longer required  
Contaminants of Concern: Munitions and explosives of concern (MEC)  
Media of Concern: Soil  
BRAC Round: BRAC II

Phases	Start	End
PA.....	200111.....	200306
LTM.....	200309.....	201209

RIP Date: N/A  
RC Date: 200306

**SITE DESCRIPTION**

The Coastal Small Arms Range (FTO-006-R-01) covers approximately 951.8 acres and was in use from the 1940s through base closure in 1994. This is also site FTO-003 under the Installation Restoration Program (IRP). Initial walkthrough, munitions sampling, and other activities on the beach range complex, located on the coast of Monterey Bay, found no MEC and 17 munitions debris items along with numerous small arms ammunition. No further munitions response is required for this range complex (MRS-22) based on the Track 1 ROD. Significant portions of the area were excavated as part of a RA to address lead-contaminated soil associated with small arms ranges (FTO-003). The area of the complex was transferred to the Department of the Interior, which later transferred it to the state of California. As of March 2009 this area has been opened to the public for use as a state park and recreational area. Much of the area will be managed as a habitat reserve with designated trails accessible to the public.

Investigation of potential soil contamination was completed under a separate RI/FS program (FTO-003).

LTM measures are required based on the Track 1 ROD. The next five-year review (FY12) will serve as the site closeout documentation. An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section of this BIAP.

**CLEANUP/EXIT STRATEGY**

Site closeout is expected with the next five-year review anticipated in FY12.

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

## STATUS

Parcel: CSUMB (FORA) (FOSET 5) (322.84 acres)

Regulatory Driver: CERCLA

Program: BRAC-MMRP

MRSP Score: Evaluation pending

Contaminants of Concern: Munitions and explosives of concern (MEC)

Media of Concern: Soil

BRAC Round: BRAC II

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	200710.....	201409

RIP Date: N/A

RC Date: 201409

## SITE DESCRIPTION

Archive information indicates that the ranges of this complex (FTO-007-R-01) cover approximately 356.6 acres and were used for infantry maneuver training until the base closed in 1994. These ranges are located in the central portion of former Fort Ord, along the northern edge of the designated range areas. A sampling of the area indicates sites containing practice mines, practice grenades, and booby-trap training areas, Chemical, Biological, Radiological (CBR) training, and ordnance cache burial pits. A 100 percent RA has been completed on the ranges of the complex. The area is planned for development by the California State University, Monterey Bay (CSUMB).

This area includes the following Fort Ord designated MRSs:

- MRS 27Y,
- MRS-4C,
- MRS-7,
- MRS-8,
- MRS-13C,
- MRS-31, and
- MRS-18 (CSUMB).

Approximately 332.8 acres of FTO-007-R-01 are included in the ESCA project. These acreages have been transferred to FORA under the Early Transfer authority. The ESCA requires FORA to complete the environmental response activities necessary to obtain site closeout under CERCLA. An explanation of the ESCA can be found in the Cleanup Program Summary section of this BIAP.

The site strategy for the ESCA-portion of this range complex includes oversight of the FORA ESCA remediation program until site closeout is attained, which is expected in FY14.

NFA is required for the remaining portion of this range complex based on the Track 1 ROD (MRS-27Y). LTM measures are required based on the Track 1 ROD and will end based on the FY12 five-year review. An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section of this BIAP.

## CLEANUP/EXIT STRATEGY

The site strategy for this range complex includes project oversight on the ESCA portion (332.8 acres) and LTM measures on MRS-27Y (23.76 acres, Track 1 ROD).

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

## STATUS

Parcel: NONE  
Regulatory Driver: CERCLA  
Program: BRAC-MMRP  
MRSP Score: No longer required  
Contaminants of Concern: Munitions and explosives of concern (MEC)  
Media of Concern: Soil  
BRAC Round: BRAC II

Phases	Start	End
PA.....	200111.....	200306
LTM.....	200309.....	201209

RIP Date: N/A  
RC Date: 200306

## SITE DESCRIPTION

Archive information indicates that the ranges of this complex (FTO-008-R-01) were used for small unit infantry maneuver training until the area was developed for military housing in 1987. These ranges occupy approximately 41.1 acres and are located in the central portion of former Fort Ord, along the northern edge of the designated range areas. A sampling of the area located one expended munitions debris item and 66 small arms ammunition items. The area has been transferred for use as student and faculty housing and future development to CSUMB.

NFA is required for this range complex (MRS-66) based on the Track 1 ROD. LTM measures are required based on the Track 1 ROD. The next five-year review (FY12) will serve as the site closeout documentation. An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section of this BIAP.

## CLEANUP/EXIT STRATEGY

Site closeout is expected with the next five-year review anticipated in FY12.

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

Site ID: FTO-009-R-01  
 Site Name: DEVELOPMENT-NORTH

**STATUS**

Parcel: Marina Coast Water District (FORA)(FOST 10) (1.09 acres),MONTEREY COUNTY (FORA) (FOSET 5) (2290 acres),MONTEREY COUNTY (FORA) (FOST 10) (380.05 acres)

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	200710.....	201003
LTM.....	201010.....	201310

Regulatory Driver: CERCLA

Program: BRAC-MMRP

MRSP Score: Evaluation pending

RIP Date: N/A

RC Date: 201003

Contaminants of Concern: Munitions and explosives of concern (MEC)

Media of Concern: Soil

BRAC Round: BRAC II

**SITE DESCRIPTION**

Archive information indicates that the ranges of this complex (FTO-009-R-01), located adjacent to the CSUMB range complex in the northern portion of the range areas, were used for small unit infantry maneuver training involving signaling devices, simulator, and small arms blank ammunition. Actual periods of use were not documented. This range complex covers approximately 394.5 acres. A sampling of the area indicated sites containing practice mines, practice grenades, booby-trap training areas, and ordnance cache burial pits. The area is comprised of development areas with habitat requirements.

Approximately 393.7 acres of FTO-009-R-01 is included in the ESCA project. These acreages have been transferred to FORA under the Early Transfer authority. The ESCA requires FORA to complete the environmental response activities necessary to obtain site closeout under CERCLA. An explanation of the ESCA can be found in the Cleanup Program Summary section of this BIAP.

The site strategy for the ESCA portion of this range complex includes oversight of the FORA ESCA remediation program until site closeout is attained, which is expected in FY14. NFA is required for this area based on the Track 1 Plug-in process.

NFA is required for the remainder of the range complex (MRS-45A; 0.8 acres) based on the July 19, 2006 Track 1 Plug-In Approval Memorandum for Multiple Sites, Groups 1-5, at former Fort Ord. LTM measures are required for MRS-45A based on the Track 1 ROD plug-in process. LTM requirement will end based on the FY12 five-year review. An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section of this BIAP.

**CLEANUP/EXIT STRATEGY**

The site strategy for this range complex includes program oversight on the ESCA portion (393.96 acres, oversight on MRS-45) and LTM measures on MRS-45A (Track 1 Plug-In ROD).

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

Site ID: FTO-010-R-01  
Site Name: EAST GARRISON

**STATUS**

Parcel: MONTEREY COUNTY (FORA) (FOSET 5) (2290 acres), MONTEREY COUNTY (FORA) (FOST 10) (380.05 acres)

Regulatory Driver: CERCLA  
Program: BRAC-MMRP  
MRSP Score: Evaluation pending

Contaminants of Concern: Munitions and explosives of concern (MEC)  
Media of Concern: Soil  
BRAC Round: BRAC II

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	200710.....	201409

RIP Date: N/A  
RC Date: 201409

**SITE DESCRIPTION**

An archives search report found the ranges in the East Garrison (EG) Area site (FTO-010-R-01) were used for small arms and rifle grenade training from the 1930s through the 1950s, and small arms, infantry maneuver training involving signaling devices and simulators until closure of the base in 1994. The EG site is located in the east central portion of former Fort Ord and occupies approximately 71.0 acres. Munitions sampling and RAs have been completed on ranges in the complex. Plans for the area include housing development and a habitat reserve. MRSs included in the EG Site are MRS-5, MRS-33, MRS-11, and MRS-42. NFA is required for the following MRS in accordance with Track 1 ROD: MRS-5. NFA is expected for MRS-33 in accordance with the Track 1 Plug-In Approval Memorandum. An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section of this BIAP.

Approximately 41.7 acres of FTO-010-R-01 (MRS-11 and MRS-42) are included in the ESCA project. These acreages have been transferred to FORA under the Early Transfer authority. The ESCA requires FORA to complete the environmental response activities necessary to obtain site closeout under CERCLA. An explanation of the ESCA can be found in the Cleanup Program Summary section of this BIAP.

The site strategy for the ESCA-portion of this range complex (MRS-11 and MRS-42) includes oversight of the FORA ESCA remediation program until site closeout is attained, which is expected in FY14. NFA is required for the remaining portion of this range complex based on the Track 1 ROD (MRS-5) and the Track 1 Plug-In Progress (MRS-33). LTM measures are required based on the Track 1 ROD. The LTM requirement will end based on the FY12 five-year review.

**CLEANUP/EXIT STRATEGY**

The site strategy for this range complex includes project oversight on the ESCA portion (41.72 acres, oversight on MRS-42/11) and LTM measures on MRS-5/33 (29.28 acres, Track 1 ROD/Plug-In).

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

Site ID: FTO-011-R-01  
Site Name: EAST GARRISON-OTHER

**STATUS**

Parcel: MONTEREY COUNTY (FORA) (FOSET 5) (2290 acres), MONTEREY COUNTY (FORA) (FOST 10) (380.05 acres)

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	200710.....	201409

Regulatory Driver: CERCLA

Program: BRAC-MMRP

MRSP Score: Evaluation pending

Contaminants of Concern: Munitions and explosives of concern (MEC)

Media of Concern: Soil

BRAC Round: BRAC II

RIP Date: N/A

RC Date: 201409

**SITE DESCRIPTION**

This complex (FTO-011-R-01) contains the acreage (385.1 acres) of the area around the EG complex in the east central portion of former Fort Ord that is not currently identified as ranges or sites but may have been used for small unit infantry maneuver training involving signaling devices, blank ammunition, and simulators. Areas included in this complex are: EG Area 2, EG Area 4NE, and EG Area 4. NFA is required for the following MRSs in accordance with Track 1 Plug-In Approval Memorandum: EG Area 2 and EG Area 4NE. An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section of this BIAP.

Approximately 204.5 acres of FTO-011-R-01 (EG Area 4) is included in the ESCA project. These acreages have been transferred to FORA under the Early Transfer authority. The ESCA requires FORA to complete the environmental response activities necessary to obtain site closeout under CERCLA. An explanation of the ESCA can be found in the Cleanup Program Summary section of this BIAP.

The site strategy for the ESCA-portion of this range complex includes oversight of the FORA ESCA remediation program until site closeout is attained, which is expected in FY14. NFA is required for the remaining portion of this range complex based on the Track 1 ROD and the Track 1 Plug-In Process (EG Area 2 and EG Area 4NE). LTM measures are required based on the Track 1 ROD and the Track 1 Plug-in Process. LTM requirement will end based on the FY12 five-year review.

**CLEANUP/EXIT STRATEGY**

The site strategy for this range complex includes project oversight on ESCA portion (181.96 acres, oversight on EGA4 which includes E11b.6.1)

Only 181.96 acres of the 203.4 ESCA acres for this site have MMRP issues. The site strategy for the ESCA-portion of this range complex includes oversight of the FORA ESCA remediation program until site closeout is attained, which is expected in FY14. Site MRS-EG Area 4 is included in the ESCA.

For the Army-retained (non-ESCA) portions of this site, further RA is not required for the remaining portion of this range complex based on the Track 1 ROD and the Track 1 Plug-in process (MRS-EG Area 2, MRS-EG Area 4NE, and MRS- E11b.6.1). LTM measures are required based on Track 1 ROD and Track 1 plug-in process. LTM requirement will end based on the 2012 five-year review.

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

Site ID: FTO-012-R-01  
Site Name: GARRISON-NORTH

**STATUS**

Parcel: MST (FORA) (FOST 10) (7 acres),MARINA (FORA) (FOST 10) (40.18 acres),VETERANS CENTER (FOST 9) (4.62 acres)

Regulatory Driver: CERCLA

Program: BRAC-MMRP

MRSP Score: No longer required

Contaminants of Concern: Munitions and explosives of concern (MEC)

Media of Concern: Soil

BRAC Round: BRAC II

Phases	Start	End
PA.....	200111.....	200603
LTM.....	200603.....	201209

RIP Date: N/A

RC Date: 200603

**SITE DESCRIPTION**

This complex (FTO-012-R-01), located in the northern section of former Fort Ord and occupying approximately 141.0 acres, includes designated military weapons training areas and disposal sites likely operated between the 1930s and 1967. Discarded military munitions were located in some areas during IRP actions. The area is subject to the requirements of the Fort Ord MR RI/FS.

This range complex includes the Fort Ord designated sites MRS 1, 6, 13A, 20, 24D, and 24E. NFA is required for this range complex based on the Track 1 ROD. LTM measures are required based on the Track 1 ROD. The next five-year review (FY12) will serve as the site closeout documentation. An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section of this BIAP.

**CLEANUP/EXIT STRATEGY**

Site closeout is expected with the next five-year review anticipated in FY12.

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

**Site ID: FTO-013-R-01**  
**Site Name: GARRISON-SOUTH**

**STATUS**

Parcel: SEASIDE (FORA) (FOST 12) (70.62 acres), MPC (FOST 9) (15.17 acres)  
Regulatory Driver: CERCLA  
Program: BRAC-MMRP  
MRSPP Score: 05  
Contaminants of Concern: Munitions and explosives of concern (MEC)  
Media of Concern: Soil  
BRAC Round: BRAC II

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	200510.....	201209
LTM.....	201210.....	202209

RIP Date: N/A  
RC Date: 201209

**SITE DESCRIPTION**

Garrison-South (FTO-013-R-01), located west of Parker Flats range area, occupies approximately 92.3 acres. This complex includes designated practice grenade training areas used prior to the 1960s at which time military housing was developed in the area. Sampling was completed in all suspected areas. The area is subject to the requirements of the Fort Ord MR RI/FS. This range complex includes the following munitions response sites (MRS-24B, MRS-39, MRS-49, MRS-24A, and MRA-24C).

Investigation of potential soil contamination is conducted under a separate RI/FS program, and NFA is required.

No further RA is required for Track 1 sites portion of the range complex based on the Track 1 ROD (MRS-24B, MRS-39, and MRS-49).

As of March 2010, the BRAC Cleanup Team agreed to evaluate three sites: MRS-24A, MRS-24C and parcel E20c.1 as Track 1 candidates.

LTM measures are required through FY22; however, the length of LTM will be evaluated upon completion of the Track 1 process.

An explanation of the remedial activities for Tracks 0-3 can be found in the Cleanup Program Summary section of this BIAP.

**CLEANUP/EXIT STRATEGY**

The range complex is in the RI phase through FY12. RI is in progress and is likely to be completed with existing funding. RA(C) is not expected to be required. LTM measures will be required through FY22.

The site strategy for this range complex includes:

- Track 1 sites. No further remedial action is required for this portion of the range complex based on the Track 1 ROD (MRS-24B, MRS-39, and MRS-49). LTM measures are required based on the Track 1 ROD through the FY12 five-year review.
- Track 1 future sites. Track 1 plug-in approval memorandum will be prepared for MRS-24A and parcel E20c.1, where sampling investigations have been conducted.
- As of Fall 2020, the remaining areas are being evaluated as candidate Track 1 sites. The Track 1 plug-in approval memorandum will be prepared for MRS-24A, MRS-24C and parcel E20c.1, where sampling investigations have been conducted. Long term management measures will be required based on the Track 1 ROD.

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

**STATUS**

Parcel: BLM (7444 acres)

Regulatory Driver: CERCLA

Program: BRAC-MMRP

MRSP Score: Evaluation pending

Contaminants of Concern: Munitions and explosives of concern (MEC)

Media of Concern: Soil

BRAC Round: BRAC II

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	200307.....	200608
RA(C).....	200609.....	201909
LTM.....	201910.....	204009

RIP Date: N/A

RC Date: 201909

**SITE DESCRIPTION**

The Multi-Use Range Area - BLM range complex (FTO-014-R-01) is located within the confines of the Impact Area in the southwest portion of the former Fort Ord and was originally 5,905.1 acres. The 2006 RACER estimate increased acreage from 5,905.1 to 6,316.8 based on transferring 391 acres from FTO-016-R-01 and 20.7 acres from FTO-017-R-01. These ranges include the impact areas of approximately 27 small arms, mortar, rocket, and machine gun ranges as well as demolitions and incendiary munitions training areas used from the 1930s until the base was closed in 1994. The ranges contain a concentration of similar expended munitions and unexploded ordnance (UXO). The area is not in use by the Army. Vegetation on this complex is protected under the Installation-wide Multispecies Habitat Management Plan (HMP). The area is planned to be transferred to BLM as a habitat reserve when all RA is complete.

Investigation of potential soil contamination is conducted under a separate RI/FS program. See FTO-039 for details. This range complex is within areas designated as NRMA containing central maritime chaparral (CMC). Prescribed burning has been identified as the preferred method of vegetation clearance to support the removal of MEC in NRMA containing CMC.

The Final Track 3 Impact Area Munitions Response Area (MRA) MR RI/FS was completed in June 2007. Track 3 ROD for the Impact Area MRA was signed May 15, 2008. Based on the Track 3 ROD, the selected remedy for the Impact Area MRA is Technology-Aided Surface MEC Remediation, with Subsurface MEC Remediation in Selected Areas and LUCs. RA was initiated in 2008. An explanation of the remedial activities for Tracks 0-3 can be found in the Cleanup Program Summary section.

This range complex encompasses 6,316.8 acres that are a part of the Track 3 impact area MRA addressed in the Track 3 ROD. Track 3 ROD also selected the final remedy for the approximately 273 acres of Ranges 43-48 where interim RA was conducted. Even though this acreage is a part of FTO-016-R-01, because the Track 3 remedy is a MRA-wide comprehensive RA, the cost for eventual site closure for the 273-acre portion of Ranges 43-48 is captured under FTO-014-R-01 with the rest of the Track 3 impact area MRA.

The site strategy for this range complex includes the implementation of the RA as described in the Track 3 ROD. The range complex will be divided into manageable work units, and a site-specific prescribed burn plan and MEC RA work plan will be prepared for each unit. RA(C) phase is expected to span several years. LTM is required through FY40.

**CLEANUP/EXIT STRATEGY**

The range complex is in RA(C) phase through FY19. LTM measures will be required through FY40.

The site strategy for this range complex includes the implementation of the RA as described in the Track 3 ROD. The range complex will be divided into manageable work units, and a site-specific prescribed burn plan and MEC RA work plan will be prepared for each unit. RA(C) phase is expected continue through FY19. LTM is required.

Site ID: FTO-014-R-01

Site Name: MULTI-USE RANGE AREA - BLM

With regard to acreages, this range complex encompasses 6,316.8 acres that are a part of the Track 3 Impact Area MRA addressed in the Track 3 ROD. Track 3 ROD also selected the final remedy for the approximately 273 acres of Ranges 43-48 where interim remedial action (IRA) was conducted. Even though this acreage is a part of FTO-016-R-01, because the Track 3 remedy is a MRA-wide comprehensive response action, the cost for eventual site closure for the 273-acre portion of Ranges 43-48 is captured under FTO-014-R-01 with the rest of the Track 3 Impact Area MRA.

Defense Environmental Restoration Program (DERP) Interim Guidance for Estimating Program Costs and Environmental Liabilities, dated December 14, 2007, requires that after October 1, 2009, costs for the LTM phase need to be estimated and reported for a finite period of time bounded by the next two five-year reviews or a specified fixed period until there are no further DERP-eligible activities and associated costs for the site. Deviation from this guidance needs to be documented. For the FTO-014-R-01 cost estimate, the LTM phase will continue through FY40. As described below, the selected remedy for the Impact Area MRA is intended to be comprehensive; it balances the cost and habitat impacts of the MEC remediation with a set of LUCs that will be implemented over the long-term reuse to protect the future land users from the explosive safety risks posed by MEC that will likely remain in the property. Because subsurface MEC remediation will not be conducted in the entire site, the implementation and maintenance of the selected LUCs are critical to the protection of human health and support of the designated future use of the property as a habitat reserve. Therefore the LTM phase will continue through FY40 for the purpose of the cost estimate.

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

### STATUS

Parcel: DEL REY OAKS (FORA) (FOSET 5) (5.04 acres), DEL REY OAKS (FORA) (FOST 10) (4.66 acres)

Regulatory Driver: CERCLA

Program: BRAC-MMRP

MRSP Score: Evaluation pending

Contaminants of Concern: Munitions and explosives of concern (MEC)

Media of Concern: Soil

BRAC Round: BRAC II

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	200610.....	201409
LTM.....	201410.....	201709

RIP Date: N/A

RC Date: 201409

### SITE DESCRIPTION

The Multi-Use Range Area DRO range complex (FTO-015-R-01) is located on the western edge of the Impact Area, occupies approximately 335.3 acres, and includes the hardstand, firing lines, and preparation areas for approximately three small arms and mortar ranges that are now adjacent to a connector highway and local residential areas used from the 1930s until the base was closed in 1994. The area is subject to the requirements of a MR RI/FS.

Investigation of potential soil contamination, including residues of explosives, is conducted under a separate RI/FS program and NFA is required.

A 324-acre portion of this range complex where MEC removal was previously conducted was transferred to the city of Del Rey Oaks as an early transfer with land use restrictions. A Track 2 RI/FS was completed for this portion of the site in August 2007. The resulting ROD was signed in November 2008 selecting LUCs as the remedy. MRS-15DRO.1A and MRS-15DRO.2A were addressed as NFA sites in the July 19, 2006 Track 1 Plug-In Approval Memorandum for Multiple Sites, Groups 1-5, at Former Fort Ord, California. An explanation of the remedial activities for Tracks 0-3 can be found in the Cleanup Program Summary section of the BIAP.

In March 2007 the Army and FORA entered into an ESCA concerning a total of 3,426 acres of the former Fort Ord property. These acreages affect 12 munitions response sites. The acreages will be transferred to FORA under the early transfer authority. The ESCA requires FORA to complete environmental response activities necessary to obtain site closeout under CERCLA (except Army Obligations that are listed in the ESCA) in areas included in the ESCA. The ESCA grant has been paid to FORA according to a schedule described in the agreement. Even though the munitions response responsibilities associated with the ESCA areas have been transferred to FORA, the BRAC office will provide oversight of FORA's ESCA activities as described in the ESCA. Approximately 9.1 acres of FTO-015-R-01 are included in the ESCA project.

The site strategy for the ESCA-portion of this range complex includes oversight of the FORA ESCA remediation program until Site Closeout is attained, which is expected in FY14. The site strategy for the remaining portions of the range complex includes:

- Track 1 sites. NFA is required for MRS-15DRO.1A and MRS-15DRO.2A.
- Track 2 sites. Implementation of the selected remedy based on the Del Rey Oaks ROD is required. LTM is required through FY17.

### CLEANUP/EXIT STRATEGY

The range complex is in the RI phase through FY14. LTM will be required through FY17.

The site strategy for the ESCA-portion of this range complex includes oversight of the FORA ESCA remediation program until site closeout is attained, which is expected in FY14.

Site ID: FTO-015-R-01  
Site Name: MULTI-USE RANGE AREA - DRO

The site strategy for the remaining portions of the range complex includes:

- Track 1 sites. No further remedial action is required for MRS-15DRO.1A and MRS-15DRO.2A based on the Track 1 Plug-In Approval Memorandum (approximately 5 acres). LTM measures are required based on the Track 1 ROD. LTM cost is included in the MEC Institutional Controls cost of the Track 2 sites, below.
- Track 2 sites. Implementation of the selected remedy, including LTM, is required.

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

Site ID: FTO-016-R-01

Site Name: MULTI-USE RANGE AREA - IA

## STATUS

Parcel: BLM (7444 acres),SEASIDE (FORA) (FOSET 5) (615.43 acres),MONTEREY COUNTY (FORA) (FOSET 5) (2290 acres)

Regulatory Driver: CERCLA

Program: BRAC-MMRP

MRSP Score: Evaluation pending

Contaminants of Concern: Munitions and explosives of concern (MEC)

Media of Concern: Soil

BRAC Round: BRAC II

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	200307.....	200407
RA(C).....	200709.....	201409
LTM.....	201410.....	202209

RIP Date: N/A

RC Date: 201409

## SITE DESCRIPTION

The Multi-Use Range Area - IA range complex (FTO-016-R-01) is located within and just north of the Impact Area in the southwest portion of the former Fort Ord and cover approximately 550.78 acres (previously 923.9 acres; 391 acres were transferred to FTO-014-R-01 in 2006 and approximately 18 acres were transferred from FTO-018-R-01 in 2008). These ranges were used for combined weapons training including mortars, 40mm grenades, anti-tank rockets, demolition charges, incendiary devices, and small arms from the 1930s until the base closed in 1994. A surface removal action in exposed areas of the complex was completed in 2001. An interim action (IA) has been developed for this complex to address dangerous UXO conditions arising from the type of munitions on the ranges and the proximity of the ranges to local residential areas and schools. The habitat area of the complex is planned to be transferred to BLM, and the former range firing lines, hardstands, and other perimeter lands was transferred to the local reuse authority. IRA conducted in the site will be further evaluated in the MR RI/FS program for Site Closeout.

Investigation of potential soil contamination is conducted under a separate RI/FS program. See FTO-039 for details. This range complex is within areas designated as a natural resource management area.

An IA RI/FS and ROD were completed for MRS-Ranges 43-48, Range 30A and MRS-16 that comprised this site. Interim RA has been taken at Ranges 43-48 and MRS-16. Range 30A was included in a subsequent ROD for the Track 3 Impact Area MRA. An explanation of the remedial activities for Tracks 0-3 can be found in the Cleanup Program Summary section of this BIAP.

In March 2007, the Army and FORA entered into an ESCA concerning a total of 3,426 acres of the former Fort Ord property. These acreages affect 12 munitions response sites. The acreages will be transferred to FORA under the early transfer authority. The ESCA requires FORA to complete environmental response activities necessary to obtain site closeout under CERCLA (except Army Obligations that are listed in the ESCA) in areas included in the ESCA. The ESCA grant has been paid to FORA according to a schedule described in the agreement. Even though the munitions response responsibilities associated with the ESCA areas have been transferred to FORA, the BRAC office will provide oversight of FORA's ESCA activities as described in the ESCA. Approximately 198.5 acres of FTO-016-R-01 are included in the ESCA project.

The site strategy for the ESCA-portion of this range complex includes oversight of the FORA ESCA remediation program until Site Closeout is attained, which is expected in FY14. The site strategy for the remaining portions of the range complex includes:

- post-remediation habitat monitoring and final site closeout for MRS-16, and
- completion of the Track 3 remedy for the southern (non-ESCA) portion of Ranges 43-48 (see FTO-014-R-01).

## CLEANUP/EXIT STRATEGY

The range complex is in RA(C) phase through FY14. LTM will be required through FY22.

Site ID: FTO-016-R-01  
Site Name: MULTI-USE RANGE AREA - IA

The site strategy for the ESCA-portion of this range complex includes oversight of the FORA ESCA remediation program until site closeout is attained, which is expected in FY14.

The site strategy for the remaining portions of the range complex includes:

- For MRS-16, LTM measures, including post-remediation habitat monitoring, are required as described in the Remedial Action Report. Final site closeout will be documented in a Track 2 ROD that will be prepared for adjacent sites (see FTO-002-R-01).
- For the southern portion of Ranges 43-48 (non-ESCA portion), site strategy is to implement the final selected remedy as part of the Track 3 ROD (Also see FTO-014-R-01); cost estimate is included in FTO-014-R-01 CTC.
- With regards to acreages, the number of acres listed in the Closed, Transferring and Transferred (CTT) report for this range complex was estimated. Range 30A (391 acres) was included in the Track 3 Impact Area MRA and addressed under the Track 3 remedy. Therefore this acreage has been transferred to FTO-014-R-01.

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

Site ID: FTO-017-R-01

Site Name: MULTI-USE RANGE AREA - OB/OD

## STATUS

Parcel: BLM (7444 acres)

Regulatory Driver: CERCLA

Program: BRAC-MMRP

MRSP Score: No longer required

Contaminants of Concern: Munitions and explosives of concern (MEC)

Media of Concern: Soil

BRAC Round: BRAC II

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	200307.....	200601
LTM.....	200809.....	204009

RIP Date: N/A

RC Date: 200601

## SITE DESCRIPTION

This site is also covered under site FTO-005 in the IRP.

This range area covers approximately 1.8 acres and was an explosive ordnance disposal (EOD) range used for disposal of various types of commercial explosives and military ordnance and munitions in the south-central portion of former Fort Ord, within the confines of the impact area. Disposal occurred by open burn/open detonation (OB/OD). The range was used until October 1992, when former Fort Ord's EOD unit was deactivated. From January 1994 to January 1997, this range was reactivated for disposal of UXO identified from the Former Fort Ord Time-Critical Removal Action (TCRA) Program for UXO/Ordnance and Explosives Work Plan (OEW) found outside the Inland Ranges. Potential contaminants present at the range as a result of past activities include explosive compounds and metals, which have been addressed under the Resource Conservation and Recovery Act (RCRA) closure process as IRP site number FTO-005. The Army retains control of the area and reuse is anticipated to be limited to a habitat area.

The preliminary assessment (PA) date reflected in the site status box is a result of the June 27, 2003 US Army CTT Range and Site Inventory, Final, at the Presidio of Monterey (Former Fort Ord) BRAC property, California.

The range complex will be subject to the LUCs required under the Track 3 ROD (FTO-014-R-01). The 1.8 acres remain in FTO-017-R-01 because of the range type in the CTT report referenced above. An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

## CLEANUP/EXIT STRATEGY

The range complex is included in the Track 3 ROD and funded under FTO-014-R-01. The 1.8 acres remains in FTO-017-R-01 because of the range type in the CTT report references above.

This range complex requires LTM measures that are underway.

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

Site ID: FTO-018-R-01

Site Name: MULTI-USE RANGE AREA - SEA

## STATUS

Parcel: SEASIDE (FORA) (FOSET 5) (615.43 acres), MONTEREY COUNTY (FORA) (FOSET 5) (2290 acres)

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	200710.....	201409

Regulatory Driver: CERCLA

Program: BRAC-MMRP

MRSP Score: Evaluation pending

RIP Date: N/A

RC Date: 201409

Contaminants of Concern: Munitions and explosives of concern (MEC)

Media of Concern: Soil

BRAC Round: BRAC II

## SITE DESCRIPTION

This complex (FTO-018-R-01) is located on the western edge of the impact area and it includes the hardstand, firing lines, and preparation areas for approximately nine small arms and mortar ranges used from the 1930s until the base was closed in 1994; this complex is now adjacent to a connector highway and local residential areas. This range complex includes MRS-SEA.1 through 4, and MRS-MOCO.2. The area is subject to the requirements of a pending MR RI/FS. A non-TCRA was completed in 2004, except in areas where site conditions preclude anomaly detection/identification (e.g. a berm).

Approximately 452.5 acres (rounded to 453 acres) of FTO-018-R-01 are included in the ESCA project. These acreages have been transferred to FORA under the Early Transfer authority. The ESCA requires FORA to complete the environmental response activities necessary to obtain site closeout under CERCLA. An explanation of the ESCA can be found in the Cleanup Program Summary section of this BIAP.

The site strategy for the ESCA-portion of this range complex includes oversight of the FORA ESCA remediation program until site closeout is attained, which is expected in FY14. It is expected that the entire site will be closed with the completion of the ESCA in FY14.

The number of acres reported in the CTT report does not match the number of acres for the ESCA project at this range complex. The CTT report contained a mapping error; a small portion was incorrectly included in the range complex. The MR portion of the Army Environmental Database - Restoration (AEDB-R) has been revised as follows: FTO-018-R-01 is now 452.5 acres and FTO-016-R-01 is now 550.78.

## CLEANUP/EXIT STRATEGY

The site strategy for this range complex includes project oversight for the ESCA project and some specific LTM for Army responsibilities not covered by the ESCA project.

The entire site is part of the ESCA project that is currently in progress. ESCA ACRES: 452.5 and the number of acres reported in the CTT report does not match the number of acres for the ESCA project at this range complex. The CTT report contained a mapping error. The MR portion of AEDB-R has been revised as follows: FTO-018-R-01 is now 452.5 acres and FTO-016-R-01 is now 550.78.

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

Site ID: FTO-019-R-01

## Site Name: MULTI-USE RANGE AREA - SOUTH

### STATUS

Parcel: York School (FOST 10) (101.2 acres), MONTEREY COUNTY (FORA) (FOSET 5) (2290 acres), CITY OF MONTEREY (FORA) (FOSET 5) (23.31 acres)

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	200710.....	201409

Regulatory Driver: CERCLA

Program: BRAC-MMRP

MRSP Score: Evaluation pending

Contaminants of Concern: Munitions and explosives of concern (MEC)

Media of Concern: Soil

BRAC Round: BRAC II

RIP Date: N/A

RC Date: 201409

### SITE DESCRIPTION

The Multi Use Range Area - South (FTO-019-R-01) is located on the southern edge of the impact area, occupies approximately 232.7 acres, and includes the hardstand, firing lines, and preparation areas for approximately four small arms and mortar ranges used from the 1930s until the base was closed in 1994. The Multi-Use Area Range - South is now adjacent to a connector highway, local businesses, race track, and residential areas. The area is planned to transfer to the county of Monterey, the city of Monterey, and York School. Sampling and appropriate removal actions are completed on this complex. Portions of the area have been leased to York School and the Laguna Seca Raceway. The remainder is currently under Army control and undeveloped, however, transfer is in progress. Sites included in FTO-019-R-01 are: MRS 30 (an ESCA site), MRS 43 (transfer is in progress), MRS 46 (transfer is in progress, MRS 47 (an ESCA site), and MOCO.1 (a portion (E29B.1) is in the ESCA program and another portion (E29B.2) is scheduled to soon be transferred).

In March 2007 the Army and FORA entered into an ESCA concerning a total of 3,426 acres of the former Fort Ord property. These acreages affect 12 munitions response sites. The acreages were transferred to FORA under the early transfer authority. ESCA requires FORA to complete environmental response activities necessary to obtain site closeout under CERCLA (except Army obligations that are listed in the ESCA) in areas included in the ESCA. The ESCA grant has been paid to FORA according to a schedule described in the agreement. Even though the munitions response responsibilities associated with the ESCA areas have been transferred to FORA, the BRAC office will provide oversight of FORA's ESCA activities as described in the ESCA. Approximately 101.6 acres of FTO-019-R-01 are included in the ESCA project.

The site strategy for the ESCA-portion of this range complex includes oversight of the FORA ESCA remediation program until site closeout is attained, which is expected in FY2014. Site MRS-43, MRS-47, and MRS-30 are included in the ESCA.

For the non-ESCA portions of this site (MRS-MOCO.1 and MRS-46), no further remedial action is required based on the Track 1 Record of Decision (ROD) and Track 1 Plug-In ROD Process. LTM measures are required based on the Track 1 ROD. LTM requirements will end based on the 2012 five-year review.

### CLEANUP/EXIT STRATEGY

The site strategy for this range complex includes project oversight on the ESCA portion (101.6 acres, oversight on MRS-43/47/30) and LTM on MRS-MOCO.1/46 (Track 1 Plug-In).

The site is included in the ESCA project that is currently in progress (ESCA ACRES: 101.6).

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

Site ID: FTO-020-R-01  
Site Name: PARKER FLATS

**STATUS**

Parcel: MST (FORA) (FOST 11) (29.82 acres),MPC (FORA) (FOSET 5) (10.97 acres),SEASIDE (FORA) (FOSET 5) (615.43 acres),MONTEREY COUNTY (FORA) (FOSET 5) (2290 acres)

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	200710.....	201409
LTM.....	201410.....	201709

Regulatory Driver: CERCLA

Program: BRAC-MMRP

MRSPP Score: Evaluation pending

Contaminants of Concern: Munitions and explosives of concern (MEC)

Media of Concern: Soil

BRAC Round: BRAC II

RIP Date: N/A

RC Date: 201409

**SITE DESCRIPTION**

An Archives Search Report (ASR) found the Parker Flats range complex (FTO-020-R-01) to be used for rifle grenade and shoulder launched projectile training from the 1940s through 1970s. The area is approximately 1139.2 (revised from 1133.2 previously) acres and is in the central portion of Former Fort Ord. The area is designated for development including the Monterey Peninsula College police officer training area, equestrian center, and veteran's cemetery. Munitions removal was conducted in MRS-13B and in the southern 600 acres of the complex. Sites in this complex include MRS 3, 4A, 4B, 13B, 27A, 27B, 27C, 27G (partial), 37, 40, 44PBC, 44EDC, 50, 52, 53, 54EDC, and 55. The complex also includes the areas between these sites.

Investigation of potential soil contamination is conducted under a separate RI/FS program. See FTO-039.

Track 2 RI/FS was completed for the 758-acre portion of this site where a MEC removal was previously conducted. The resulting ROD was signed in August 2008 selecting LUCs as the remedy. An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

In March 2007 the Army and FORA entered into an ESCA concerning a total of 3,426 acres of the former Fort Ord property. These acreages affect 12 MRSs. The acreages will be transferred to FORA under the early transfer authority. The ESCA requires FORA to complete environmental response activities necessary to obtain site closeout under CERCLA (except Army obligations that are listed in the ESCA) in areas included in the ESCA. The ESCA grant has been paid to FORA according to a schedule described in the agreement. Even though the munitions response responsibilities associated with the ESCA areas have been transferred to FORA, the BRAC office will provide oversight of FORA's ESCA activities as described in the ESCA. Approximately 1,060.9 acres of FTO-020-R-01 are included in the ESCA project.

Remedy implementation in three transfer parcels (Parcels F2.6 Army Maintenance Center, Parcel L2.3 Monterey-Salinas Transit (MST) Facility Park and Ride, and Parcel L2.4.1 MST Facility Maintenance Center) remain as part of the Army's responsibilities under this site.

The site strategy for the ESCA-portion of this range complex includes oversight of the FORA ESCA remediation program until site closeout is attained, which is expected in FY14.

The site strategy for the remaining portion of the range complex is to implement the selected remedy (parcels F2.6, L2.3 and L2.4.1; portions of MRS-13B). LTM measures are required.

**CLEANUP/EXIT STRATEGY**

The range complex is in the RI phase through FY14. LTM will be required through FY17.

Site ID: FTO-020-R-01  
Site Name: PARKER FLATS

The site strategy for the ESCA-portion of this range complex includes oversight of the FORA ESCA remediation program until site closeout is attained, which is expected in FY14.

For parcels F2.6, L2.3, and L2.4.1 (portions of MRS-13B), the site strategy is to implement the selected remedy of land use controls. LTM is required.

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

Site ID: FTO-021-R-01  
Site Name: ROCKET RANGE AREA (FAAF)

**STATUS**

Parcel: NONE

Regulatory Driver: CERCLA

Program: BRAC-MMRP

MRSP Score: Evaluation pending

Contaminants of Concern: Munitions and explosives of concern (MEC)

Media of Concern: Soil

BRAC Round: BRAC II

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	201010.....	201310
LTM.....	201311.....	202209

RIP Date: N/A

RC Date: 201310

**SITE DESCRIPTION**

The FAAF rocket range area, consisting of 70.8 acres, is located north of the existing runway of the former FAAF in the northern section of former Fort Ord. This range area was identified through a review of a 1942 Fort Ord Master Plan map showing a 2.36-in. rocket practice range, prior to the establishment of the airfield. This range was used for small arms training, 2.36-in. rockets, and demolition charges. The dates of use for this range are reportedly unknown, but assumed to be from the 1940s to approximately 1970. A one-hundred percent RA has been completed on the complex. The land has been transferred to the city of Marina under the Early Transfer authority. LUCs are in place. No further RA is planned. The area is subject to the requirements of a pending MR RI/FS.

Investigation of potential soil contamination is conducted under a separate RI/FS program and NFA is required.

The site strategy for this range complex includes Track 2-type MR RI/FS, PP, and ROD. LTM will be required. An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section of the BIAP.

**CLEANUP/EXIT STRATEGY**

The site strategy for this range complex includes Track 2-type MR RI/FS, a PP, and a ROD.

LTM will be composed of MEC monitoring, the five-year review process, and site closeout documentation, after the completion of RI/FS and RA.

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

**Site ID: FTO-022-R-01**  
**Site Name: SOUTH RANGE AREA**

**STATUS**

Parcel: MONTEREY COUNTY (FORA) (FOSET 5) (2290 acres)

Regulatory Driver: CERCLA

Program: BRAC-MMRP

MRSP Score: Evaluation pending

Contaminants of Concern: Munitions and explosives of concern (MEC)

Media of Concern: Soil

BRAC Round: BRAC II

Phases	Start	End
PA.....	200111.....	200306
RI/FS.....	200710.....	201409

RIP Date: N/A

RC Date: 201409

**SITE DESCRIPTION**

This complex (FTO-022-R-01) covers approximately 421.7 acres and contains ranges outside the MRA in the southeast and southwest of former Fort Ord that are suspected to have been used for rifle grenades in the 1930s, 1950s, and from the 1960s to the closure of the base in 1994 as small unit infantry maneuver training areas. A portion of the area has been transferred to the FORA and will later be transferred to local municipalities and businesses. Sites in this complex include MRS 14A, 29, and 62.

Approximately 193.4 acres of range complex FTO-022-R-01 are included in the ESCA project. These acreages have been transferred to FORA under the Early Transfer authority. The ESCA requires FORA to complete the environmental response activities necessary to obtain site closeout under CERCLA. An explanation of the ESCA can be found in the Cleanup Program Summary section of this BIAP.

The site strategy for the ESCA-portion of this range complex includes oversight of the FORA ESCA remediation program until site closeout is attained, which is expected in FY14. Sites MRS-14A and MRS-29 are included in the ESCA.

NFA is required for the remaining portions of this range complex based on the Track 1 ROD (MRS-62). LTM measures are required based on the Track 1 ROD. LTM requirements for this portion of the site will end based on the FY12 five-year review. An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

**CLEANUP/EXIT STRATEGY**

The site strategy for this range complex includes LTM on MRS-62 and project management/oversight on ESCA portion (MRS-14A/29).

An explanation of the RAs for Tracks 0-3 can be found in the Cleanup Program Summary section.

## BRAC-MMRP Schedule

Date of BRAC-MMRP Inception: 200111

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
---------	-----------	--------------	-------------

Final RA(C) Completion Date: 201909

NPL Deletion Date: TBD

Schedule for Next Five-Year Review: 2012

Estimated Completion Date of BRAC-MMRP at Installation (including LTM phase): 204009

## FORT ORD BRAC-MMRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-001-R-01	BLM-EAST	RI/FS						
		LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-002-R-01	BLM-EAST OTHER	RI/FS						
		RA(C)						
		LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-003-R-01	BLM-HQ	RI/FS						
		LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-004-R-01	BLM-NORTH	RI/FS						
		RA(C)						
		LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-005-R-01	BLM-NORTH- XD	RI/FS						
		RA(C)						
		LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-006-R-01	COASTAL SMALL ARMS RANGE	LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-007-R-01	CSUMB	RI/FS						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-008-R-01	CSUMB-XD	LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-009-R-01	DEVELOPMENT-NORTH	LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-010-R-01	EAST GARRISON	RI/FS						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-011-R-01	EAST GARRISON-OTHER	RI/FS						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-012-R-01	GARRISON-NORTH	LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-013-R-01	GARRISON-SOUTH	RI/FS						
		LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-014-R-01	MULTI-USE RANGE AREA - BLM	RA(C)						
		LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-015-R-01	MULTI-USE RANGE AREA - DRO	RI/FS						
		LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-016-R-01	MULTI-USE RANGE AREA - IA	RA(C)						
		LTM						

## FORT ORD BRAC-MMRP Schedule

SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-017-R-01	MULTI-USE RANGE AREA - OB/OD	LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-018-R-01	MULTI-USE RANGE AREA - SEA	RI/FS						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-019-R-01	MULTI-USE RANGE AREA - SOUTH	RI/FS						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-020-R-01	PARKER FLATS	RI/FS						
		LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-021-R-01	ROCKET RANGE AREA (FAAF)	RI/FS						
		LTM						
SITE ID	SITE NAME	PHASE	FY11	FY12	FY13	FY14	FY15	FY16+
FTO-022-R-01	SOUTH RANGE AREA	RI/FS						

## BRAC-MMRP Costs

Total Funding through FY2004: \$96,388.0 K

(Includes ER,A funding from FY04 and prior years.)

Prior Funding					
FY	Phase	BRAC Round	Site ID	Obligations	FY Total
2005	LTM		FTO-006-R-01	\$7,485.0 K	\$7,485.0 K
2006	LTM		FTO-006-R-01	\$76.0 K	\$7,613.0 K
			FTO-008-R-01	\$76.0 K	
			FTO-012-R-01	\$76.0 K	
	RA(C)		FTO-016-R-01	\$7,345.0 K	
			FTO-016-R-01	\$40.0 K	
2007	LTM		FTO-006-R-01	\$16.0 K	\$1,644.2 K
			FTO-008-R-01	\$29.6 K	
			FTO-012-R-01	\$11.0 K	
			FTO-017-R-01	\$12.4 K	
	RA(C)		FTO-014-R-01	\$1,006.7 K	
			FTO-016-R-01	\$548.5 K	
	RI		FTO-015-R-01	\$20.0 K	
2008	LTM	BRAC II	FTO-006-R-01	\$21.0 K	\$15,281.0 K
			FTO-008-R-01	\$33.0 K	
			FTO-012-R-01	\$13.0 K	
			FTO-017-R-01	\$15.0 K	
	RA(C)	BRAC II	FTO-014-R-01	\$5,000.0 K	
			FTO-016-R-01	\$3,941.0 K	
	RI/FS	BRAC II	FTO-001-R-01	\$523.0 K	
			FTO-002-R-01	\$728.0 K	
			FTO-003-R-01	\$228.0 K	
			FTO-007-R-01	\$1,100.0 K	
			FTO-009-R-01	\$691.0 K	
			FTO-010-R-01	\$775.0 K	
			FTO-013-R-01	\$809.0 K	
			FTO-015-R-01	\$556.0 K	
			FTO-018-R-01	\$282.0 K	
			FTO-020-R-01	\$566.0 K	

TOTAL PRIOR FUNDING: \$128,411.2 K

Current Requirements

TOTAL CURRENT REQUIREMENTS \$0.0 K

Future Requirements - BRAC II \$216,175.0 K

Total Future Requirements \$216,175.0 K

## BRAC-MMRP Costs

TOTAL PROGRAM COST: \$344,586.2 K  
(Includes ER,A funding from FY04 and prior years.)

Required Cost-to-Complete

BRAC II

SITE ID	Phase	SITE NAME							Out Yrs	Total	
		FY11	FY12	FY13	FY14	FY15	FY16	FY17			
ACTIVITY											
FTO-001-R-01		BLM-EAST									
	RI/FS	624	793	512	16					1945	
	LTM					30	25	25		130	210
MEC Monitoring, MEC Institutional Controls, Five Year Review, Professional Labor Management, RI/FS									Site Total	2155	
FTO-002-R-01		BLM-EAST OTHER									
	RI/FS	1117	827	512	16					2472	
	RA(C)					16	11387	10253		444	22100
	LTM									1293	1293
MEC Subsurface removal, prescribed burn, 5 year review, RAB, Professional Labor Management									Site Total	25865	
FTO-003-R-01		BLM-HQ									
	RI/FS	57								57	
	LTM				16	16	16	16		101	165
RI/FS 5 year review, RAB Professional Labor Management, Admin. Rec									Site Total	222	
FTO-004-R-01		BLM-NORTH									
	RI/FS	1022	512	16	16					1566	
	RA(C)					16	16	10085		9199	19316
	LTM									1572	1572
MEC Subsurface removal, prescribed burn, 5 year review, RAB, Professional Labor Management									Site Total	22454	
FTO-005-R-01		BLM-NORTH- XD									
	RI/FS	481	659	512	16					1668	
	RA(C)					3934	3572	66			7572
	LTM									490	490
RI/FS, five year review, professional labor management, MEC monitoring									Site Total	9730	
FTO-006-R-01		COASTAL SMALL ARMS RANGE									
	LTM	8	8								16
5 year review, RAB Professional Labor Management, Admin. Rec									Site Total	16	
FTO-007-R-01		CSUMB									
	RI/FS	8	8								16
5 year review, RAB Professional Labor Management, Admin. Rec, MEC monitoring									Site Total	16	
FTO-008-R-01		CSUMB-XD									
	LTM	8	8								16
5 year review, RAB Professional Labor Management, Admin. Rec									Site Total	16	
FTO-009-R-01		DEVELOPMENT-NORTH									
	LTM	8	8								16
5 year review, RAB Professional Labor Management, Admin. Rec									Site Total	16	

Required Cost-to-Complete

BRAC II

SITE ID	Phase	SITE NAME							Out Yrs	Total
		FY11	FY12	FY13	FY14	FY15	FY16	FY17		
ACTIVITY										
FTO-010-R-01		EAST GARRISON								
	RI/FS	8	8							16
5 year review, RAB Professional Labor Management, Admin. Rec, MEC monitoring									Site Total	16
FTO-011-R-01		EAST GARRISON-OTHER								
	RI/FS	8	8							16
5 year review, RAB Professional Labor Management, Admin. Rec									Site Total	16
FTO-012-R-01		GARRISON-NORTH								
	LTM	8	8							16
5 year review, RAB Professional Labor Management, Admin. Rec									Site Total	16
FTO-013-R-01		GARRISON-SOUTH								
	RI/FS									
	LTM			30	25	25	25	25	124	254
RI/FS, five year review, professional labor management, MEC monitoring									Site Total	254
FTO-014-R-01		MULTI-USE RANGE AREA - BLM								
	RA(C)	7776	10165	17196	14922	16428	20350	20086	7959	114882
	LTM								39411	39411
prescribed burn, MEC surface/subsurface removal, 5 year review, RAB, Professional Labor Management									Site Total	154293
FTO-015-R-01		MULTI-USE RANGE AREA - DRO								
	RI/FS	70	15	15	46					146
	LTM					15	15	15		45
5 year review, RAB, Professional Labor Management									Site Total	191
FTO-016-R-01		MULTI-USE RANGE AREA - IA								
	RA(C)	68	23	23	53					167
	LTM					28	23	23	133	207
five year review, professional labor management, MEC monitoring									Site Total	374
FTO-019-R-01		MULTI-USE RANGE AREA - SOUTH								
	RI/FS	8	8							16
five year review, professional labor management, MEC monitoring									Site Total	16
FTO-020-R-01		PARKER FLATS								
	RI/FS	28	28	28	44					128
	LTM					28	28	28		84
five year review, professional labor management, MEC monitoring, implement LUC									Site Total	212
FTO-021-R-01		ROCKET RANGE AREA (FAAF)								
	RI/FS	116								116
	LTM			16	16	16	16		101	165
RI/FS, 5 year review, RAB, Professional Labor Management									Site Total	281

Required Cost-to-Complete

BRAC II

SITE ID	Phase	SITE NAME							Out Yrs	Total	
		FY11	FY12	FY13	FY14	FY15	FY16	FY17			
ACTIVITY											
FTO-022-R-01		SOUTH RANGE AREA									
	RI/FS	8	8							16	
5 year review, RAB, Professional Labor Management									Site Total	16	
Totals											
		11431	13094	18844	15186	20552	35473	40638		60957	216175
									Site Total	216175	

Programmed Cost-to-Complete

BRAC II

SITE ID	Phase	SITE NAME							Out Yrs	Total	
		FY11	FY12	FY13	FY14	FY15	FY16	FY17			
ACTIVITY											
FTO-001-R-01		BLM-EAST									
	RI/FS	624	793	512	16	0	0	0		0	1945
	LTM	0	0	0	0	30	25	25		130	210
MEC Monitoring, MEC Institutional Controls, Five Year Review, Professional Labor Management, RI/FS									Site Total	2155	
FTO-002-R-01		BLM-EAST OTHER									
	RI/FS	1117	827	512	16	0	0	0		0	2472
	RA(C)	0	0	0	0	16	6087	2353		13644	22100
	LTM	0	0	0	0	0	0	0		1293	1293
MEC Subsurface removal, prescribed burn, 5 year review, RAB, Professional Labor Management									Site Total	25865	
FTO-003-R-01		BLM-HQ									
	RI/FS	57	0	0	0	0	0	0		0	57
	LTM	0	0	0	16	16	16	16		101	165
RI/FS 5 year review, RAB Professional Labor Management, Admin. Rec									Site Total	222	
FTO-004-R-01		BLM-NORTH									
	RI/FS	1022	512	16	16	0	0	0		0	1566
	RA(C)	0	0	0	0	16	16	10085		9199	19316
	LTM	0	0	0	0	0	0	0		1572	1572
MEC Subsurface removal, prescribed burn, 5 year review, RAB, Professional Labor Management									Site Total	22454	
FTO-005-R-01		BLM-NORTH- XD									
	RI/FS	481	659	512	16	0	0	0		0	1668
	RA(C)	0	0	0	0	3934	3572	66		0	7572
	LTM	0	0	0	0	0	0	0		490	490
RI/FS, five year review, professional labor management, MEC monitoring									Site Total	9730	
FTO-006-R-01		COASTAL SMALL ARMS RANGE									
	LTM	8	8	0	0	0	0	0		0	16
5 year review, RAB Professional Labor Management, Admin. Rec									Site Total	16	

Programmed Cost-to-Complete

BRAC II

SITE ID		SITE NAME									
Phase	FY11	FY12	FY13	FY14	FY15	FY16	FY17		Out Yrs	Total	
ACTIVITY											
FTO-007-R-01		CSUMB									
RI/FS	8	8	0	0	0	0	0		0	16	
5 year review, RAB Professional Labor Management, Admin. Rec, MEC monitoring									Site Total	16	
FTO-008-R-01		CSUMB-XD									
LTM	8	8	0	0	0	0	0		0	16	
5 year review, RAB Professional Labor Management, Admin. Rec									Site Total	16	
FTO-009-R-01		DEVELOPMENT-NORTH									
LTM	8	8	0	0	0	0	0		0	16	
5 year review, RAB Professional Labor Management, Admin. Rec									Site Total	16	
FTO-010-R-01		EAST GARRISON									
RI/FS	8	8	0	0	0	0	0		0	16	
5 year review, RAB Professional Labor Management, Admin. Rec, MEC monitoring									Site Total	16	
FTO-011-R-01		EAST GARRISON-OTHER									
RI/FS	8	8	0	0	0	0	0		0	16	
5 year review, RAB Professional Labor Management, Admin. Rec									Site Total	16	
FTO-012-R-01		GARRISON-NORTH									
LTM	8	8	0	0	0	0	0		0	16	
5 year review, RAB Professional Labor Management, Admin. Rec									Site Total	16	
FTO-013-R-01		GARRISON-SOUTH									
RI/FS											
LTM	0	0	30	25	25	25	25		124	254	
RI/FS, five year review, professional labor management, MEC monitoring									Site Total	254	
FTO-014-R-01		MULTI-USE RANGE AREA - BLM									
RA(C)	2000	2000	2000	2000	5462	10350	2000		89070	114882	
LTM	0	0	0	0	0	0	0		39411	39411	
prescribed burn, MEC surface/subsurface removal, 5 year review, RAB, Professional Labor Management									Site Total	154293	
FTO-015-R-01		MULTI-USE RANGE AREA - DRO									
RI/FS	70	15	15	46	0	0	0		0	146	
LTM	0	0	0	0	15	15	15		0	45	
5 year review, RAB, Professional Labor Management									Site Total	191	
FTO-016-R-01		MULTI-USE RANGE AREA - IA									
RA(C)	68	23	23	53	0	0	0		0	167	
LTM	0	0	0	0	28	23	23		133	207	
five year review, professional labor management, MEC monitoring									Site Total	374	

Programmed Cost-to-Complete

BRAC II

SITE ID	Phase	SITE NAME							Out Yrs	Total
		FY11	FY12	FY13	FY14	FY15	FY16	FY17		
ACTIVITY										
FTO-019-R-01		MULTI-USE RANGE AREA - SOUTH								
	RI/FS	8	8	0	0	0	0	0	0	16
five year review, professional labor management, MEC monitoring									Site Total	16
FTO-020-R-01		PARKER FLATS								
	RI/FS	28	28	28	44	0	0	0	0	128
	LTM	0	0	0	0	28	28	28	0	84
five year review, professional labor management, MEC monitoring, implement LUC									Site Total	212
FTO-021-R-01		ROCKET RANGE AREA (FAAF)								
	RI/FS	116	0	0	0	0	0	0	0	116
	LTM	0	0	0	16	16	16	16	101	165
RI/FS, 5 year review, RAB, Professional Labor Management									Site Total	281
FTO-022-R-01		SOUTH RANGE AREA								
	RI/FS	8	8	0	0	0	0	0	0	16
5 year review, RAB, Professional Labor Management									Site Total	16
Totals										
		5655	4929	3648	2264	9586	20173	14652	155268	216175
									Site Total	216175

Costs - Combined Requirements Spreadsheet

BRAC II

PROGRAM	SITE ID		SITE NAME							Out Yrs	Total
	Phase	FY11	FY12	FY13	FY14	FY15	FY16	FY17			
ACTIVITY											
IR	FTO-003		SITE 3-BEACH TRAINFIRE RANGES								
	LTM	15	15	15	15	13				73	
									Site Total	73	
IR	FTO-012		SITE 12 DOL AUTO MAINT. AREA/CANNIBAL.YD								
	LTM								1217	1217	
	RA(O)	1338	689	689	792	689	689	689		5575	
									Site Total	6792	
IR	FTO-039		SITE 39 INLAND RANGES								
	RA(C)	4760	4760	4760						14280	
	LTM				373	216	53		29	671	
									Site Total	14951	
IR	FTO-041		SITE 41 FAAF FIRE DRILL AREA (OU1)								
	RA(O)	540	355	355	355	396				2001	
	LTM						228	259	748	1235	
									Site Total	3236	
IR	FTO-044		RESERVATION ROAD SITE								
	RA(O)		1763	1572	1493	1493	2232	1572	10508	20633	
	LTM								4461	4461	
	RA(C)	2026								2026	
									Site Total	27120	
IR	FTO-053		LANDFILL (OU2)								
	LTM								2902	2902	
	RA(O)	10081	1903	1903	1903	2823	1740	1740	33071	55164	
									Site Total	58066	
MR	FTO-001-R-01		BLM-EAST								
	RI/FS	624	793	512	16					1945	
	LTM					30	25	25	130	210	
									MEC Monitoring, MEC Institutional Controls, Five Year Review, Professional Labor Management, RI/FS	2155	
MR	FTO-002-R-01		BLM-EAST OTHER								
	LTM								1293	1293	
	RI/FS	1117	827	512	16					2472	
	RA(C)					16	11387	10253	444	22100	
									MEC Subsurface removal, prescribed burn, 5 year review, RAB, Professional Labor Management	25865	
MR	FTO-003-R-01		BLM-HQ								
	RI/FS	57								57	
	LTM			16	16	16	16		101	165	
									RI/FS 5 year review, RAB Professional Labor Management, Admin. Rec	222	

Costs - Combined Requirements Spreadsheet

BRAC II

PROGRAM	SITE ID		SITE NAME					Out Yrs	Total	
	Phase	FY11	FY12	FY13	FY14	FY15	FY16			FY17
ACTIVITY										
MR	FTO-004-R-01		BLM-NORTH							
	RI/FS	1022	512	16	16			1566		
	LTM						1572	1572		
	RA(C)				16	16	10085	9199	19316	
MEC Subsurface removal, prescribed burn, 5 year review, RAB, Professional Labor Management							Site Total	22454		
MR	FTO-005-R-01		BLM-NORTH- XD							
	LTM						490	490		
	RA(C)				3934	3572	66	7572		
	RI/FS	481	659	512	16			1668		
RI/FS, five year review, professional labor management, MEC monitoring							Site Total	9730		
MR	FTO-006-R-01		COASTAL SMALL ARMS RANGE							
	LTM	8	8					16		
5 year review, RAB Professional Labor Management, Admin. Rec							Site Total	16		
MR	FTO-007-R-01		CSUMB							
	RI/FS	8	8					16		
5 year review, RAB Professional Labor Management, Admin. Rec, MEC monitoring							Site Total	16		
MR	FTO-008-R-01		CSUMB-XD							
	LTM	8	8					16		
5 year review, RAB Professional Labor Management, Admin. Rec							Site Total	16		
MR	FTO-009-R-01		DEVELOPMENT-NORTH							
	LTM	8	8					16		
5 year review, RAB Professional Labor Management, Admin. Rec							Site Total	16		
MR	FTO-010-R-01		EAST GARRISON							
	RI/FS	8	8					16		
5 year review, RAB Professional Labor Management, Admin. Rec, MEC monitoring							Site Total	16		
MR	FTO-011-R-01		EAST GARRISON-OTHER							
	RI/FS	8	8					16		
5 year review, RAB Professional Labor Management, Admin. Rec							Site Total	16		
MR	FTO-012-R-01		GARRISON-NORTH							
	LTM	8	8					16		
5 year review, RAB Professional Labor Management, Admin. Rec							Site Total	16		
MR	FTO-013-R-01		GARRISON-SOUTH							
	LTM			30	25	25	25	25	124	254
	RI/FS									
RI/FS, five year review, professional labor management, MEC monitoring							Site Total	254		

Costs - Combined Requirements Spreadsheet

BRAC II

PROGRAM	SITE ID		SITE NAME							Out Yrs	Total
	Phase	FY11	FY12	FY13	FY14	FY15	FY16	FY17			
ACTIVITY											
MR	FTO-014-R-01		MULTI-USE RANGE AREA - BLM								
	LTM								39411	39411	
	RA(C)	7776	10165	17196	14922	16428	20350	20086	7959	114882	
	prescribed burn, MEC surface/subsurface removal, 5 year review, RAB, Professional Labor Management								Site Total	154293	
MR	FTO-015-R-01		MULTI-USE RANGE AREA - DRO								
	LTM					15	15	15		45	
	RI/FS	70	15	15	46					146	
	5 year review, RAB, Professional Labor Management								Site Total	191	
MR	FTO-016-R-01		MULTI-USE RANGE AREA - IA								
	RA(C)	68	23	23	53					167	
	LTM					28	23	23	133	207	
	five year review, professional labor management, MEC monitoring								Site Total	374	
MR	FTO-019-R-01		MULTI-USE RANGE AREA - SOUTH								
	RI/FS	8	8							16	
	five year review, professional labor management, MEC monitoring								Site Total	16	
MR	FTO-020-R-01		PARKER FLATS								
	LTM					28	28	28		84	
	RI/FS	28	28	28	44					128	
	five year review, professional labor management, MEC monitoring, implement LUC								Site Total	212	
MR	FTO-021-R-01		ROCKET RANGE AREA (FAAF)								
	LTM				16	16	16	16	101	165	
	RI/FS	116								116	
	RI/FS, 5 year review, RAB, Professional Labor Management								Site Total	281	
MR	FTO-022-R-01		SOUTH RANGE AREA								
	RI/FS	8	8							16	
	5 year review, RAB, Professional Labor Management								Site Total	16	
	Totals										
		30191	22579	28138	20117	26182	40415	44898	113893	326413	
									Site Total	326413	

Costs - Combined Programmed Spreadsheet

BRAC II

PROGRAM	SITE ID		SITE NAME							Out Yrs	Total
	Phase	FY11	FY12	FY13	FY14	FY15	FY16	FY17			
ACTIVITY											
IR	FTO-003		SITE 3-BEACH TRAINFIRE RANGES								
	LTM	15	15	15	15	13	0	0		0	73
Site Total										73	
IR	FTO-012		SITE 12 DOL AUTO MAINT. AREA/CANNIBAL.YD								
	RA(O)	1338	689	689	792	689	689	689		0	5575
	LTM	0	0	0	0	0	0	0		1217	1217
Site Total										6792	
IR	FTO-039		SITE 39 INLAND RANGES								
	RA(C)	2000	2000	2000	2000	2280	2280	1720		0	14280
	LTM	0	0	0	0	0	0	0		671	671
Site Total										14951	
IR	FTO-041		SITE 41 FAAF FIRE DRILL AREA (OU1)								
	RA(O)	540	355	355	355	396	0	0		0	2001
	LTM	0	0	0	0	0	228	259		748	1235
Site Total										3236	
IR	FTO-044		RESERVATION ROAD SITE								
	RA(C)	2026	0	0	0	0	0	0		0	2026
	RA(O)	0	1763	1572	1866	1709	2285	1572		9866	20633
	LTM	0	0	0	0	0	0	0		4461	4461
Site Total										27120	
IR	FTO-053		LANDFILL (OU2)								
	RA(O)	2000	1903	1903	1903	2823	1740	1740		41152	55164
	LTM	0	0	0	0	0	0	0		2902	2902
Site Total										58066	
MR	FTO-001-R-01		BLM-EAST								
	RI/FS	624	793	512	16	0	0	0		0	1945
	LTM	0	0	0	0	30	25	25		130	210
MEC Monitoring, MEC Institutional Controls, Five Year Review, Professional Labor Management, RI/FS										Site Total	2155
MR	FTO-002-R-01		BLM-EAST OTHER								
	RI/FS	1117	827	512	16	0	0	0		0	2472
	RA(C)	0	0	0	0	16	6087	2353		13644	22100
	LTM	0	0	0	0	0	0	0		1293	1293
MEC Subsurface removal, prescribed burn, 5 year review, RAB, Professional Labor Management										Site Total	25865
MR	FTO-003-R-01		BLM-HQ								
	RI/FS	57	0	0	0	0	0	0		0	57
	LTM	0	0	0	16	16	16	16		101	165
RI/FS 5 year review, RAB Professional Labor Management, Admin. Rec										Site Total	222

Costs - Combined Programmed Spreadsheet

BRAC II

PROGRAM	SITE ID		SITE NAME							Out Yrs	Total
	Phase	FY11	FY12	FY13	FY14	FY15	FY16	FY17			
ACTIVITY											
MR	FTO-004-R-01		BLM-NORTH								
	RI/FS	1022	512	16	16	0	0	0		0	1566
	RA(C)	0	0	0	0	16	16	10085		9199	19316
	LTM	0	0	0	0	0	0	0		1572	1572
MEC Subsurface removal, prescribed burn, 5 year review, RAB, Professional Labor Management										Site Total	22454
MR	FTO-005-R-01		BLM-NORTH- XD								
	RI/FS	481	659	512	16	0	0	0		0	1668
	RA(C)	0	0	0	0	3934	3572	66		0	7572
	LTM	0	0	0	0	0	0	0		490	490
RI/FS, five year review, professional labor management, MEC monitoring										Site Total	9730
MR	FTO-006-R-01		COASTAL SMALL ARMS RANGE								
	LTM	8	8	0	0	0	0	0		0	16
5 year review, RAB Professional Labor Management, Admin. Rec										Site Total	16
MR	FTO-007-R-01		CSUMB								
	RI/FS	8	8	0	0	0	0	0		0	16
5 year review, RAB Professional Labor Management, Admin. Rec, MEC monitoring										Site Total	16
MR	FTO-008-R-01		CSUMB-XD								
	LTM	8	8	0	0	0	0	0		0	16
5 year review, RAB Professional Labor Management, Admin. Rec										Site Total	16
MR	FTO-009-R-01		DEVELOPMENT-NORTH								
	LTM	8	8	0	0	0	0	0		0	16
5 year review, RAB Professional Labor Management, Admin. Rec										Site Total	16
MR	FTO-010-R-01		EAST GARRISON								
	RI/FS	8	8	0	0	0	0	0		0	16
5 year review, RAB Professional Labor Management, Admin. Rec, MEC monitoring										Site Total	16
MR	FTO-011-R-01		EAST GARRISON-OTHER								
	RI/FS	8	8	0	0	0	0	0		0	16
5 year review, RAB Professional Labor Management, Admin. Rec										Site Total	16
MR	FTO-012-R-01		GARRISON-NORTH								
	LTM	8	8	0	0	0	0	0		0	16
5 year review, RAB Professional Labor Management, Admin. Rec										Site Total	16
MR	FTO-013-R-01		GARRISON-SOUTH								
	LTM	0	0	30	25	25	25	25		124	254
RI/FS, five year review, professional labor management, MEC monitoring										Site Total	254

Costs - Combined Programmed Spreadsheet

BRAC II

PROGRAM	SITE ID		SITE NAME							Out Yrs	Total	
	Phase	FY11	FY12	FY13	FY14	FY15	FY16	FY17				
ACTIVITY												
MR	FTO-014-R-01		MULTI-USE RANGE AREA - BLM									
	RA(C)	2000	2000	2000	2000	5462	10350	2000		89070	114882	
	LTM	0	0	0	0	0	0	0		39411	39411	
prescribed burn, MEC surface/subsurface removal, 5 year review, RAB, Professional Labor Management									Site Total	154293		
MR	FTO-015-R-01		MULTI-USE RANGE AREA - DRO									
	RI/FS	70	15	15	46	0	0	0		0	146	
	LTM	0	0	0	0	15	15	15		0	45	
5 year review, RAB, Professional Labor Management									Site Total	191		
MR	FTO-016-R-01		MULTI-USE RANGE AREA - IA									
	RA(C)	68	23	23	53	0	0	0		0	167	
	LTM	0	0	0	0	28	23	23		133	207	
five year review, professional labor management, MEC monitoring									Site Total	374		
MR	FTO-019-R-01		MULTI-USE RANGE AREA - SOUTH									
	RI/FS	8	8	0	0	0	0	0		0	16	
five year review, professional labor management, MEC monitoring									Site Total	16		
MR	FTO-020-R-01		PARKER FLATS									
	RI/FS	28	28	28	44	0	0	0		0	128	
	LTM	0	0	0	0	28	28	28		0	84	
five year review, professional labor management, MEC monitoring, implement LUC									Site Total	212		
MR	FTO-021-R-01		ROCKET RANGE AREA (FAAF)									
	RI/FS	116	0	0	0	0	0	0		0	116	
	LTM	0	0	0	16	16	16	16		101	165	
RI/FS, 5 year review, RAB, Professional Labor Management									Site Total	281		
MR	FTO-022-R-01		SOUTH RANGE AREA									
	RI/FS	8	8	0	0	0	0	0		0	16	
5 year review, RAB, Professional Labor Management									Site Total	16		
		Totals										
		13574	11654	10182	9195	17496	27395	20632		216285	326413	
									Site Total	326413		

## Community Involvement

Technical Review Committee (TRC): 199001

Community Involvement Plan (Date Published): 200606

Restoration Advisory Board (RAB): RAB established 1994

RAB Adjournment Date: 199905

RAB Adjournment Reason: Installation Commander determined RAB should be adjourned.

### Additional Community Involvement Information

#### RAB:

The Fort Ord RAB held monthly public meetings for five years at which current cleanup actions were scheduled to be presented and discussed. Participants in these meetings frequently expressed frustration with RAB meeting procedures, extended meetings and delays in the discussion of cleanup issues. RAB participation declined to eight members in 1998. After several attempts at facilitation by the USEPA and the Army, as well as DTSC and CRWQCB, and in spite of the efforts of many talented community members, the RAB was assessed as ineffective in providing a forum for the exchange of information and a source of advice for the Army. Subsequently, the RAB was disbanded by the Army in May 1999.

#### Community Involvement Workshops:

The RAB public meeting process was replaced by Community Involvement Workshops (CIWs) to provide community members an opportunity to discuss cleanup plans, examine cleanup documents and express their interests or concerns. A community meeting was held by the USEPA and the Army in May 1999 to solicit input from community members concerning the format for future public meetings. Using that input plus ideas and concerns collected during other community relations activities, the Army developed the date, time, and format for CIWs. The meeting format is continually assessed and modified using community input and participant critiques to sustain an effective information exchange forum.

The objective of the CIWs is to provide an opportunity for community members to participate in the cleanup decision-making process. In addition to presentations on proposed cleanup plans, CIWs provide updates from the BRAC Cleanup Team (BCT), the Fort Ord Community Advisory Group and the USEPA Technical Assistance Grant recipient when appropriate. Questions and comments by community members are solicited on agenda subjects and an open forum is provided at each workshop for comments and questions as well as input for future agenda topics on any cleanup subject.

Questions, requests, and comments from attending community members are addressed in the CIW or a response is scheduled for a subsequent meeting. Summaries describing the events and issues discussed at CIWs are produced and available for review in the Information Repositories, on the cleanup website, and in the Administrative Record.

#### TRC:

Local and regional air, water, wildlife, land, public health, regulatory and service agencies, as well as educational institutions and government representatives review and comment on cleanup plans and documents as members of the Fort Ord TRC. The TRC meets quarterly to discuss technical material and provide advice to the Army, USEPA, DTSC, and the CRWQCB concerning pending cleanup decisions. The TRC was established in 1990.

The Fort Ord TRC and the community outreach program for the environmental cleanup at Fort Ord serve the purpose of the former Fort Ord RAB. It should be noted that the TRC meeting includes time to summarize comments from the CIW that usually occurs the evening prior to the TRC. This is one way in which the TRC serves as an opportunity for sharing community concerns and input with local and regional regulatory and service agency representatives.

Community interest was surveyed in 2007. The analysis of the survey results did not indicate a sufficient, sustained interest in a RAB. Another community survey began in March 2009.

More information is available at 831-393-1284 or [www.FortOrdCleanup.com](http://www.FortOrdCleanup.com).

## Community Involvement

Administrative Record is located at

Fort Ord Administrative Record  
Building 4463 Gigling Road  
Ord Military Community, CA 93944-5004  
Telephone: (831) 393-9186  
[www.fortordcleanup.com](http://www.fortordcleanup.com).

Information Repository is located at

Seaside Library  
550 Harcourt Avenue  
Seaside, CA 93955  
(831) 899-2055

California State University Monterey Bay Library  
(831) 582-3733

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

TAPP Title: N/A

Potential TAPP: N/A