

Notice of Intent for Partial Deletion **Otis Air National Guard Base/Camp Edwards Superfund Site**

Summary Fact Sheet of Federal Register Notice

Introduction

This fact sheet is a summary of the Federal Register Notice of Intent for Partial Deletion of Sites from the Otis Air National Guard Base/Camp Edwards Superfund Site which has been issued on August 1, 2007 for a 30-day public comment period. This site is also locally known as the Massachusetts Military Reservation (MMR).

MMR was listed on the National Priorities List in 1989 (CERCLIS ID – MA2570024487). It occupies over 22,000 acres in portions of the Towns of Bourne, Falmouth, Mashpee, and Sandwich. To date, investigations have identified 80 source area sites and 12 groundwater plumes.

In 1995, EPA published the Partial Deletions rule allowing partial deletion of Superfund sites (60 FR 55466, 11/1/95). Guidance on Procedures for Partial Deletion was issued in April 1996. The three main criteria for partial deletion of sites are: all investigations and cleanups, as needed, have occurred; a determination of no further response; and a determination of no significant risk to human

health and the environment. This rule allows for the possibility of redevelopment of portions of Superfund sites; however, redevelopment of sites is not planned for any of the sites at MMR at this time.

The partial deletion covers 61 sites of the MMR Superfund Site which has a total of 80. All these 61 sites have been investigated and, where needed, cleanup actions have been completed.

Determinations of no further response and no further risk to human health and the environment have been made for these sites. The Massachusetts Department of Environmental Protection (MassDEP) has reviewed this Federal Register notice and concurs with the proposal.

The public comment period runs from August 1 to August 30, 2007. The public is invited to submit comments. See the box below for information on viewing or obtaining the Federal Register Notice, supporting materials and instructions on submitting comments.

Responses to all comments received will be found in a Responsiveness Summary to be issued in

Tell EPA Your Opinion

The public is invited to comment on the Draft Notice of Intent for Partial Deletion of Sites at the Otis ANG/Camp Edwards Superfund Site. A 30-day public comment runs from August 1 to August 30, 2007. Responses to each public comment will be provided and taken into consideration prior to issuing a Final Notice of Intent for Partial Deletion.

Where You Can Get a Copy of the Federal Register Notice or Review Supporting Material?

There are several sources where copies of Federal Register Notice can be obtained.

Online: Visit www.regulations.gov or www.mmr.org

In Person: Libraries of Bourne, Falmouth, Mashpee, or Sandwich, or EPA New England Superfund Records & Information Center (see last page for addresses)

The supporting material also known as the Deletion Docket can be viewed on the www.regulations.gov website. You can also review the Federal Register Notice and supporting information in any of the four MMR surrounding Town libraries which have CD-ROMs of the Federal Register Notice and the Deletion Docket.

Where to Submit A Comment – Public Comment Period Ends on August 30, 2007

Online: Visit www.regulations.gov and type in “EPA-HQ-SFUN-1989-0007” to view and click on “Add Comment”

Mail: Bob Lim, EPA Project Manager

Fax: (617) 918-1291

EPA New England Regional Office

E-Mail: lim.robert@epa.gov

One Congress Street, Suite 1100 (Mailcode: HBT)

Boston, MA 02114

a Final Notice for Partial Deletion.

Site History

A two-party Federal Facility Agreement which was signed in 1991, and as subsequently amended, requires the Air Force to take the lead on cleanup activities for Installation Restoration Program sites at MMR.

The military's Installation Restoration Program (IRP) was established in 1982 leading to numerous soil and groundwater investigations and cleanups in the southern, developed portion of the base. In addition, the military has extended public water supply lines into neighborhoods where plumes have affected groundwater underneath homes which had previously relied on private wells. Figure 1 shows all MMR Superfund source area sites, MMR Superfund plumes, and Impact Area Groundwater Study Program (IAGWSP) plumes. The Air Force Center for Engineering and Environment currently operates groundwater cleanup systems for 11 groundwater plumes and treats over 18 million gallons per day. From 1997 to March 2007, over 32 billion gallons of contaminated groundwater have been extracted and treated. For more information on the site history and current news at MMR, go online at www.mmr.org.

The IAGWSP is another investigation and cleanup program in the northern portion of the MMR. This work is being undertaken using the EPA's Safe Drinking Water Act authorities and is not affected by the Partial Delisting. EPA has issued four Administrative Orders for investigation and cleanup, and prohibition of all live fire of munitions, propellants and pyrotechnics, demolition training, firing of lead from small arms, planned detonation of ordnance, or explosive except for UXO activities, and certain other training related activities.

Figure 1 includes nine groundwater plumes related to the IAGWSP which are found in the upper half of the figure. IAGWSP source area sites are not shown on Figure 1. The primary contaminants in the IAGWSP groundwater plumes are explosives compounds and perchlorate. The IAGWSP plumes are depicted to their non-detect boundaries which are 0.25 parts per billion (ppb) for RDX and 0.35 ppb for perchlorate. For more information on the program and current IAGWSP news, go online at groundwaterprogram.army.mil.

Summary of Federal Register Notice

The figure highlights with cross-hatching sites that are the subject of the Partial Deletion notice. Although some sites are located within plume boundaries from the two-dimensional perspective,

site investigation data and plume data demonstrate that these sites are not connected to plumes. Therefore, EPA believes that it is acceptable to partially delist a surface site while a groundwater plume is undergoing cleanup. The partial deletion does not cover groundwater plumes where cleanup levels have not been met or 19 sites where investigation is ongoing and further actions have not been determined.

The Federal Register Notice contains a summary of each site from investigation to cleanup. The 61 sites are divided into two groups based on whether or not a cleanup action was conducted at the site. Cleanup actions varied from non-CERCLA (Comprehensive, Environmental, Response, Compensation, and Liability Act) actions such as underground storage tank removals to CERCLA actions such as soil removal. Where CERCLA action was taken, contaminants of concern and their respective cleanup levels were identified. The sites range in size from less than one acre to 80.7 acres. The total acreage is 482.1 acres. Site coordinates of each site and acreage are found in Appendix B to the Federal Register Notice.

Tables 1 and 2 of this fact sheet present key information for each site such as the name and a brief description. The tables also identify if a site contains a structure which is part of the partial delisting. Table 1 contains the no action sites and Table 2 contains sites where either or both non-CERCLA and CERCLA actions have been taken. The key documents in the Deletion Docket are listed. The Deletion Docket is viewable online and in the designated information repositories (see last page of this fact sheet for information locations).

Table 1 contains 17 "no action" sites. All these sites have been investigated. EPA with concurrence from the MassDEP has determined that no response is needed and no risk to human health and the environment have been made. There are 44 action sites. All these sites have been investigated. As noted, one or several actions have been conducted on each site to reach the determination that no further response is necessary and there is no risk to human health and the environment. These sites do not have to be evaluated in future MMR five year reviews because these sites were cleaned up to meet the highest standard under CERCLA, i.e., suitability for residential use. Some sites are grouped together because they share a common geographic boundary or contaminant migration pathway.

Conclusion

The Draft Notice of Intent for Partial Deletion of Sites on the Otis Air National Guard Base/Camp Edwards Superfund Site has been issued in the Federal Register for public comment. The public comment period runs from August 1 to August 30, 2007. The public is invited to provide comments on this notice. All the 61 proposed source area sites meet the EPA's three criteria for partial deletion. The three main criteria for partial deletion re: all investigations and cleanups, as needed, have occurred; a determination of no further response; and a determination of no significant risk to human health and the environment. Pending finalization of this partial deletion, all sites will not require a five-year review. However, if any new contamination information becomes available, EPA may reopen any site that has previously been deleted. Upon completion of this process, out of a total of 80 source area sites, there are 19 remaining source area sites. Information on viewing or obtaining the Federal Register Notice can be found on page 1 and 3 of this fact sheet.

Acronyms

AFCEE - Air Force Center for Engineering & Environment
 ANG – Air National Guard
 CERCLA – Comprehensive, Environmental, Response, Compensation, and Liability Act
 EPA – U.S. Environmental Protection Agency
 FFA – Federal Facility Agreement
 FS – Fuel Spill
 IAGWSP – Impact Area Groundwater Study Program
 IRP – Installation Restoration Program
 LF – Landfill
 MassDEP – Massachusetts Department of Environmental Protection
 MMR – Massachusetts Military Reservation
 RDX – Royal Dutch Explosive
 SF - Superfund
 UST – Underground Storage Tank
 UXO – Unexploded Ordnance

Addresses for Information Repository Locations

MMR Website - www.mmr.org

www.regulations.gov (Search ID#-HQ-SFUND-1989-0007)

Libraries

Jonathan Bourne Library
 19 Sandwich Road
 Bourne, MA 02532
 (508) 759-0644

Falmouth Public Library
 123 Katherine Lee Bates Road
 Falmouth, MA 02540
 (508) 457-2555

Mashpee Public Library
 Steeple Street, Mashpee Commons
 Mashpee, MA 02649
 (508) 539-1435

Sandwich Public Library
 142 Main Street
 Sandwich, MA 02563
 (508) 888-0625

EPA New England Superfund Records & Information Center
 One Congress Street, Suite 1100
 Boston, MA 02114
 (617) 918-1440 (Call to schedule an appointment to view documents)
www.epa.gov/region01/superfund/resource/records.htm

EPA Website on Partial Deletions

<http://www.epa.gov/superfund/sites/npl/pdelguid.htm>

EPA Contacts

Bob Lim, Project Manager
 (617) 918-1392
lim.robert@epa.gov

Jim Murphy, Community Involvement Coordinator
 (617) 918-1028
Murphy.jim@epa.gov

TABLE 1: NO ACTION SITES

Proposed Notice of Intent for Partial Deletion of Sites Listed by Chronological Order of Key Deletion Docket Documents
 Otis ANG/Camp Edwards (Massachusetts Military Reservation) National Priorities List Site

SITE NAME	DESCRIPTION	AREA (acre)	KEY DOC (DATE)	INCLUDES STRUCTURE?
CS-5 (CG)	Carpentry shop	0.8	DD (Aug-90)	Y
CS-7	Former motor pool	0.5	DD (Aug-90)	Y
CS-7 (CG)	Dry-cleaning facility in Building 1131 (Abandoned Building)	0.1	DD (Aug-90)	Y
FS-15	1960s aviation gasoline spill at end of Runway No. 5	3.3	DD (Aug-90)	N
FS-16	JP-4 spill on tarmac ramp outside of Building 2816	1.3	DD (Aug-90)	N
LF-3 (CG)	Demolition rubble and debris landfill	12.8	DD (Aug-90)	N
LF-5	Rubble landfill at VA Cemetery	9.3	DD (Aug-90)	N
LF-6	Debris and rubble fill area	4.1	DD (Aug-90)	N
LF-2 (CG)	Asphalt and concrete debris area	8.7	DD (Aug-90)	N
CS-12	VA Cemetery Roads and Grounds Shop	1.3	DD (Aug-91)	Y
LF-1 (CG)	Former rubble & debris landfill	16.8	DD (Dec-95)	N
LF-3	Several piles of sand	8.7	DD (Apr-97)	N
FS-3	1500 foot section of Back Road	3.4	DD (Jan-00)	Y
FS-2 (CG)	Former location of hot-mix asphalt plant	4.4	DD (Feb-00)	N
FS-27	Soil excavation along fiber-optic cable line	6.0	DD (May-01)	N
CY-1	Former coal yard now occupied by base theatre, barracks, and athletic fields (assoc. w/ CY-3)	24.5	DD (Jan-03)	Y
CY-3	Former VA hospital steam plant which used coal (assoc. w/ CY-1)	5.3	DD (Jan-03)	N

Notes:

- CG = U.S. Coast Guard
- CS = Chemical Spill
- CY = Coal Yard
- DD = Decision Document
- FS = Fuel Spill
- JP = Jet Propulsion
- LF = Landfill
- VA = Veterans Administration

TABLE 2: ACTION SITES**Proposed Notice of Intent for Partial Deletion of Sites Listed by Chronological Order of Key Deletion Docket Documents
Otis ANG/Camp Edwards (Massachusetts Military Reservation) National Priorities List Site****(Page 1 of 3)**

SITE NAME	DESCRIPTION	AREA (acre)	ACTION DESCRIPTION	KEY DOC (YEAR)	INC. STRUC TURE?
FS-20	Army building	0.4	12,500 gal UST removed (1996-nC)	DD (Jul-91)	Y
CS-1	Helicopter hangar	40.4	9 USTs removed (1985 & 1986-nC); 49 drainage structures; 900 tons of soil removed (1996-C)	DD (Sep-91)	N
FS-25	Parking area northeast of Building 167 where 2,000 cy of soil excavated	1.1	2,000 cubic yards of petroleum contaminated soil removed (1989-nC)	DD (Jun-97)	Y
FS-26 (CG)	Former location of a 3000-gallon UST that contained No. 2 heating oil	0.2	3,000 gal UST removal (1990-nC)	DD (Jul-97)	N
CS-9	Former motor pool	27.8	Three USTs removed (two 5,000 gal & a 12,000 gal); 3,663 tons of soil removed (1996-nC)	DD (Jun-98)	N
CS-3 (CG)	Former location of an automobile service and gasoline station; currently location of "3-in-1" facility	2.2	UST removed (1985-nC); Three UST removed (1994-nC); Six drainage structures with 340 cubic yards of petroleum contaminated soil removed (1996-C)	ROD (Sep-98)	Y
FS-17	Former motor pool and vehicle maintenance facility	3.6	Two USTs and pump island removed (1994-nC); french drain, leaching well, dry well and vehicle maintenance bays removed (1996-C)	ROD (Dec-99)	N
FS-19	Former fuel storage and transfer point	1.0	Six USTs removed (1989-nC); Drainage structure and assoc. soil removed (1996-C)	ROD (Dec-99)	N
CS-6/FS-22	Former oil/water separator; sumps remain in place; FS-22 was the drainage ditch; Visitor's Center (Building 754) currently at CS-6	6.6/2.3	Fuel spill cleanup (1984-nC)	DD (Apr-00)	Y
FS-14	Location of a fuel spill which occurred in 1985	1.3	30 cubic yards of fuel contaminated soil removed (1985-nC)	DD (Apr-00)	N
CS-3	South Truck Road Motor Pool	45.3	Six USTs removed (1985-nC); six underground drainage structures removed (1996-C)	DD (Apr-00)	Y
FS-23	South Truck Road Fuel Spill Site	0.8	Two 10-inch underground fuel pipeline removed (1993-nC)	DD (Apr-00)	N
CS-6 (CG)	Building 5215 housed four maintenance shops	5.9	Six cubic yards of cont. soil removed (1990-nC); UST removed (1993-nC)	DD (Jun-00)	Y
CS-14	Leaching pit at Building 156, Hangar 158, and abandoned oil/water separator	1.2	Leaching pit area removed (1996-C)	DD (Jun-00)	Y
FS-14	Location of a fuel spill which occurred in 1985	1.3	30 cubic yards of petroleum contaminated soil removed (1985-nC)	DD (Jun-00)	N

Notes:

- C = CERCLA Action
- CG = U.S. Coast Guard
- CS = Chemical Spill
- CY = Coal Yard
- DD = Decision Document
- DDOU = Drum Disposal Operable Unit
- DSRP = Drainage Structure Removal Program
- FS = Fuel Spill
- FTA = Fire Training Area
- JP = Jet Propulsion
- LF = Landfill
- nC = non-CERCLA Action
- ROD = Record of Decision
- SD = Storm Drain
- UST = underground storage tank
- VA = Veterans Administration

TABLE 2: ACTION SITES

**Proposed Notice of Intent for Partial Deletion of Sites Listed by Chronological Order of Key Deletion Docket Documents
Otis ANG/Camp Edwards (Massachusetts Military Reservation) National Priorities List Site**

(Page 2 of 3)

SITE NAME	DESCRIPTION	AREA (acre)	ACTION DESCRIPTION	KEY DOC (YEAR)	INC. STRUC TURE?
FS-4	Area adjacent to former Building 178	2.7	Remedial design sampling for petroleum hydrocarbons resulted in no action required (C); Five USTs at Pumphouse 178 removed (1994-nC); 25,000 gal UST removed (1994-nC)	Remedial Design (Sep-00)	N
CS-8/FS-21	Operational Motor Pool (CS-8); Current Product Tank No. 90 (FS-21)	1.2/1.7	12,500 gal. UST removed (1988-nC); 12,500 gal. UST removed (1998-nC); 5,000 gal. UST removed (1988-nC); 5,000 gal. UST removed (1998-nC); Cesspool & 40 cubic yards of soil removed (1996-nC)	DD (Nov-00)	Y
CS-2	Three former motor pools	10.3	Three USTs removed (1980s-nC); 18 drainage structures, vehicle maintenance buildings, and contaminated soil removed (1996-C)	DD (Nov-00)	N
CS-2 (CG)	USCG Air Station (two aircraft hangars and support facilities)	16.5	Removal of leaching well near Building 3170 with 118 cubic yards of soil and debris removed (1996-C); Dry well & contaminated sediments (approximately 20 cubic yards) near Building 3162 removed (1992-nC); 8,000 gallon UST removed (1993-nC)	DD (Nov-00)	Y
LF-4	Abandoned borrow pit	4.0	950 cubic yards of soil and debris from an illegal dump removed (1998-nC)	DD (Nov-00)	N
CS-15	Area used for jet-engine testing	9.5	Three transformers (1994-nC); drainage structure gas trap w/ 74 cubic yards of soil removed (1996-C)	DD (Dec-01)	N
FS-2	Former distribution facility for jet fuel and aviation gasoline	7.4	520 cubic yard of soil removed (1996-C)	ROD (Feb-02)	N
FS-9	Former location of motor pool	4.4	125 cubic yards of petroleum hydrocarbon contaminated soil removed (2001-C); 3 USTs removed (1994-nC); waste disposal leaching wells and catch basin removed (1996-C); leaching well adjacent to Building 1569 was decontaminated and abandoned in-place (1996-C); structure at Building 1368 removed with 14 cubic yards of soil (1996-C)	Remedial Action Report (Sep-02)	Y
CS-16/CS-17/DDOU	Former infiltration sand filter and sludge drying beds (CS-16/CS-17); Clearing in a wooded area where drums and contaminated soil were removed (DDOU)	80.7	4,000 cubic yards of metals contaminated soil (2001-C); 213 cubic yards of pesticide contaminated soil removed (2002-C); 11 drums removed (1994-nC);	Remedial Action Report (Apr-03)	Y
CS-22	Former sand and gravel borrow pit	12.6	440 cubic yards of contaminated soil (date-C); 418 tons of petroleum contaminated soil removed (2000-C)	Removal Action Report (Jul-03)	N

Notes:

- C = CERCLA Action
- CG = U.S. Coast Guard
- CS = Chemical Spill
- CY = Coal Yard
- DD = Decision Document
- DDOU = Drum Disposal Operable Unit
- DSRP = Drainage Structure Removal Program
- FS = Fuel Spill
- FTA = Fire Training Area
- JP = Jet Propulsion
- LF = Landfill
- nC = non-CERCLA Action
- ROD = Record of Decision
- SD = Storm Drain
- UST = underground storage tank
- VA = Veterans Administration

TABLE 2: ACTION SITES

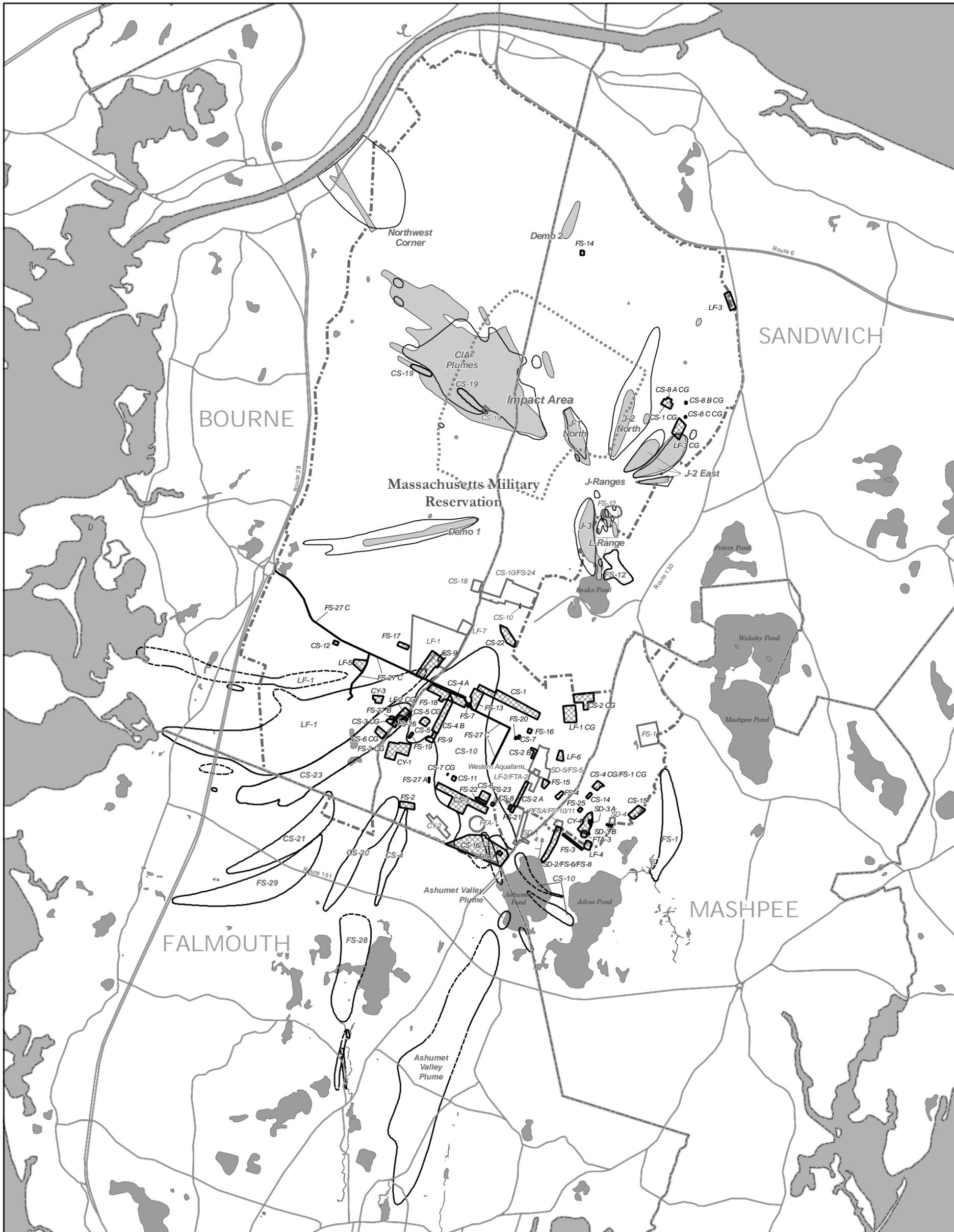
**Proposed Notice of Intent for Partial Deletion of Sites Listed by Chronological Order of Key Deletion Docket Documents
Otis ANG/Camp Edwards (Massachusetts Military Reservation) National Priorities List Site**

(Page 3 of 3)

SITE NAME	DESCRIPTION	AREA (acre)	ACTION DESCRIPTION	KEY DOC (YEAR)	INC. STRUC TURE?
CS-8 (CG)	Location of abandoned radio cabinet	0.8	25 cubic yards of soil removed (2002-C)	Removal Action Report (Aug-03)	N
CS-11	Building 1116 used to store and mix pesticides and herbicides	1.2	1,157 cubic yards of soil removed (2002-C); 200 pounds of pesticides removed (1983-nC)	Removal Action Report (Apr-04)	Y
CS-4 (CG)/FS-1 (CG)	Area around Hangar 128	4.6	318 cubic yards of contaminated soil removed (2001-nC)	Removal Action Report (Apr-04)	Y
CS-5	Area around Building 3461	4.7	leaching well removed (1996-C); 86 cubic yards of contaminated soil removed (2001-nC)	Removal Action Report (Apr-04)	Y
FS-7	Clearing near Building 1820	0.5	18 cubic yards of contaminated soil removed (2001-C); 500 gal UST removed (1985-nC)	Removal Action Report (Apr-04)	N
FS-18	Former motor pool and fuel transfer site	14.5	Remedial design sampling for petroleum hydrocarbons resulted in no action required; two USTs removed (1985-nC); two USTs removed (1994-nC); nine drainage structures and 430 cubic yards of contaminated soil removed (1996-C)	Removal Action Report (Apr-04)	Y
SD-2/FS-6/FS-8	Storm drainage ditch	15.6	350 cubic yards of contaminated soil removed (2002-C); 120 cubic yards of contaminated soil plus 450 cubic yards from PFSA removed (1996-nC)	Remedial Action Report (Jun-04)	N
CS-1 (CG)	Transmitter Station	6.3	Monitoring	Letter (Jul-04)	Y
SD-3/FTA-3/CY-4	Storm drainage ditch that received run-off from CY-4 and a fire training area	1.6/3.0/14.8	1,065 cubic yards of contaminated soil removed (2001-C); 42,000 cubic yards of coal, coal ash, and contaminated soil (1994-nC) used as part of landfill cap base at LF-1	Remedial Action Report (Aug-04)	N
CS-4	Former gasoline station and storage yard for Defense Property Disposal Office	27.9	South Truck Road Motor Pool removal action included excavation of 13,235 tons of contaminated soil (approx. 11,000 cubic yards) and treatment by low temperature thermal desorption (1994-C); 24 drainage structures (1996-C); 2,600 cubic yards of soil from a former gas station removed (2002-C); 500 gal UST removed (2002-C); Six 5,000 gal USTs removed (1984-nC)	Removal Action Report (Sep-06)	Y
FS-13	Underground Fuel Line Cantonment	13.5	2,000 gallons of JP-4 and associated contaminated soil from a spill removed (1972-nC); 14 tons of soil from test pit (2005-nC)	DD (Sep-06)	N

Notes:

- C = CERCLA Action
- CG = U.S. Coast Guard
- CS = Chemical Spill
- CY = Coal Yard
- DD = Decision Document
- DDOU = Drum Disposal Operable Unit
- DSRP = Drainage Structure Removal Program
- FS = Fuel Spill
- FTA = Fire Training Area
- JP = Jet Propulsion
- LF = Landfill
- nC = non-CERCLA Action
- ROD = Record of Decision
- SD = Storm Drain
- UST = underground storage tank
- VA = Veterans Administration



Legend

- Active Site
- Partial Deletion Site
- Water Body
- Town Boundary
- Impact Area Boundary
- Massachusetts Military Reservation Boundary

- Superfund Site Plume Boundary (Dashed Where Inferred)
(MCL Contour for PCE (5ppb), TCE (5ppb), EDB (0.02 ppb))
- Impact Area Groundwater Study Plumes:**
- Perchlorate
(Non-Detect Contour, ND = 0.35 ppb)
- RDX
(Non-Detect Contour, ND = 0.25 ppb)

Data Source: AFCEE, MMR-AFCEE Data Warehouse (Sept. 2006),
MMR EDMS Data Administration (Nov. 2006)

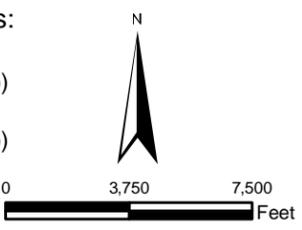


FIGURE 1
Otis ANGB/Camp Edwards
Notice of Intent for
Partial Deletion of Areas

August 2007

EPA-New England
One Congress Street
Suite 1100 (Mailcode: HBT)
Boston, MA 02114

Mailing Address Here