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Massachusetts Military Reservation

PLUME RESPONSE PROGRAM

Final Record of Decision for Area of Contamination Fuel Spill-2

February 2002

Prepared for:
AFCEE/MMR
Installation Restoration Program
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ACRONYMS AND ABBREVIATIONS

AFCEE	Air Force Center for Environmental Excellence
AOC	area of contamination
AVGAS	aviation gasoline
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Identification System
COC	contaminant of concern
COPC	contaminant of potential concern
COPEC	contaminant of potential ecological concern
CS	Chemical Spill, as in CS-4
CSF	cancer slope factor
CY	Coal Yard, as in CY-2
DEP	Massachusetts Department of Environmental Protection
DOD	U.S. Department of Defense
ELCR	excess lifetime cancer risk
EPA	U.S. Environmental Protection Agency
EPH	extractable petroleum hydrocarbon
ERA	ecological risk assessment
FFA	Federal Facility Agreement
FS	Fuel Spill, as in FS-13
ft bgs	feet below ground surface
FTA	Fire Training Area, as in FTA-1
HI	hazard index
HQ	hazard quotient

ACRONYMS AND ABBREVIATIONS

IRP	Installation Restoration Program
JP-4	jet propellant fuel
JPAT	Joint Process Action Team
LF	Landfill, as in Landfill-1
LOAEL	lowest observed adverse effect level
MCP	Massachusetts Contingency Plan
mg/day	milligrams per day
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MMR	Massachusetts Military Reservation
msl	mean sea level
NCP	National Oil and Hazardous Substances Contingency Plan
NGB	National Guard Bureau
NOAEL	no observed adverse effect level
NPL	National Priorities List
PAH	polyaromatic hydrocarbon
PCT	Plume Cleanup Team
PFSA	petroleum fuels storage area
PRG	preliminary remediation goal
RfD	reference dose
RI	remedial investigation
RME	reasonable maximum exposure
ROD	Record of Decision
SARA	Superfund Amendment and Reauthorization Act
SD	Storm Drain, as in SD-5

ACRONYMS AND ABBREVIATIONS

SVOC	semivolatile organic compound
SWOU	Southwest Operable Unit
TPH	total petroleum hydrocarbons
UCL	upper confidence limit
USCG	U.S. Coast Guard
VOC	volatile organic compound
VPH	volatile petroleum hydrocarbon
µg/kg	micrograms per kilogram
µg/L	micrograms per liter

1.0 DECLARATION

1.1 SITE NAME AND LOCATION

The Massachusetts Military Reservation (MMR) on Cape Cod Massachusetts lies within the boundaries of the towns of Bourne, Mashpee, Sandwich, and Falmouth. This site is listed on the National Priorities List (NPL) as Otis Air National Guard/Camp Edwards in Falmouth, Massachusetts. This Record of Decision (ROD) addresses the area of contamination (AOC) Fuel Spill-2 (FS-2), which consists of 5.5 acres of land located at the end of Guenther Road, adjacent to the southern boundary of the MMR golf course. The Comprehensive Environmental Response, Compensation and Liability Identification System (CERCLIS) number for the site is MA2570024487.

1.2 STATEMENT OF BASIS AND PURPOSE

This ROD presents the selected No Further Action decision for the soil and groundwater at the FS-2 site at MMR, chosen in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendment and Reauthorization Act (SARA), and to the extent practicable, the National Oil and Hazardous Substances Contingency Plan (NCP). This decision is based on the administrative record for this site.

The U.S. Department of Defense (DOD) is the lead agency for CERCLA remedial actions at MMR. The U.S. Environmental Protection Agency (EPA) and the DOD (U.S. Air Force) are parties to the Federal Facility Agreement (FFA) for the MMR. These parties, along with the Commonwealth of Massachusetts Department of Environmental Protection (DEP), concur with the No Further Action decision for the FS-2 site.

1.3 DESCRIPTION OF SELECTED REMEDY

Soils containing contamination that posed unacceptable human health risks were removed from the site in 1996 and treated at the thermal treatment plant at FTA-1. The U.S. Air Force, with concurrence from the EPA and the DEP, has determined that no further

action is necessary to address the contamination at the FS-2 site. Petroleum-related semivolatile organic compounds (SVOCs) and metals were subsequently detected in soil and groundwater samples collected from the site. However, these compounds occur at concentrations below applicable action levels. Because the compounds remaining at the FS-2 site are at concentrations below those considered to pose human health or ecological risks, no further action is appropriate.

1.4 STATUTORY DETERMINATIONS

The selected remedy is consistent with CERCLA and to the extent practicable, the NCP; is protective of human health and the environment; and is cost-effective. Because the selected remedy is No Further Action, there are no applicable or relevant and appropriate requirements with which to comply. Because the levels of contaminants remaining at AOC FS-2 are within the levels that allow for unlimited use and unrestricted exposure, a five-year review is not required for this remedial action.

1.5 AUTHORIZING SIGNATURES

The following represents the decision for No Further Action for soil and groundwater at the FS-2 site by the U.S. Air Force and the EPA with the concurrence of the DEP (Appendix A).

Concur and recommend for immediate implementation.

U. S. AIR FORCE

Michael A. Aimone

Date: 28 Jan 02

MICHAEL A. AIMONE, P.E.
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U.S. ENVIRONMENTAL PROTECTION AGENCY

By: _____

Date: Feb 7, 2002

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