



*Installation Restoration Program
Massachusetts Military Reservation*

**Community Involvement Plan
Addendum**

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Acknowledgements

This Community Involvement Plan Addendum was developed through a collaborative effort of the Installation Restoration Program (IRP), U.S. Environmental Protection Agency (EPA), and Massachusetts Department of Environmental Protection (MassDEP). It is intended to be a streamlined explanation of community involvement activities that the Air Force Center for Engineering and the Environment (AFCEE) will conduct at the Massachusetts Military Reservation (MMR) as the cleanup program moves into the post-Record of Decision (ROD) phase (all decisions and all remedies in place), where most of the ongoing work will be related to operations, maintenance, and optimization of existing groundwater cleanup systems. This addendum supplements the 2003 AFCEE Community Involvement Plan.

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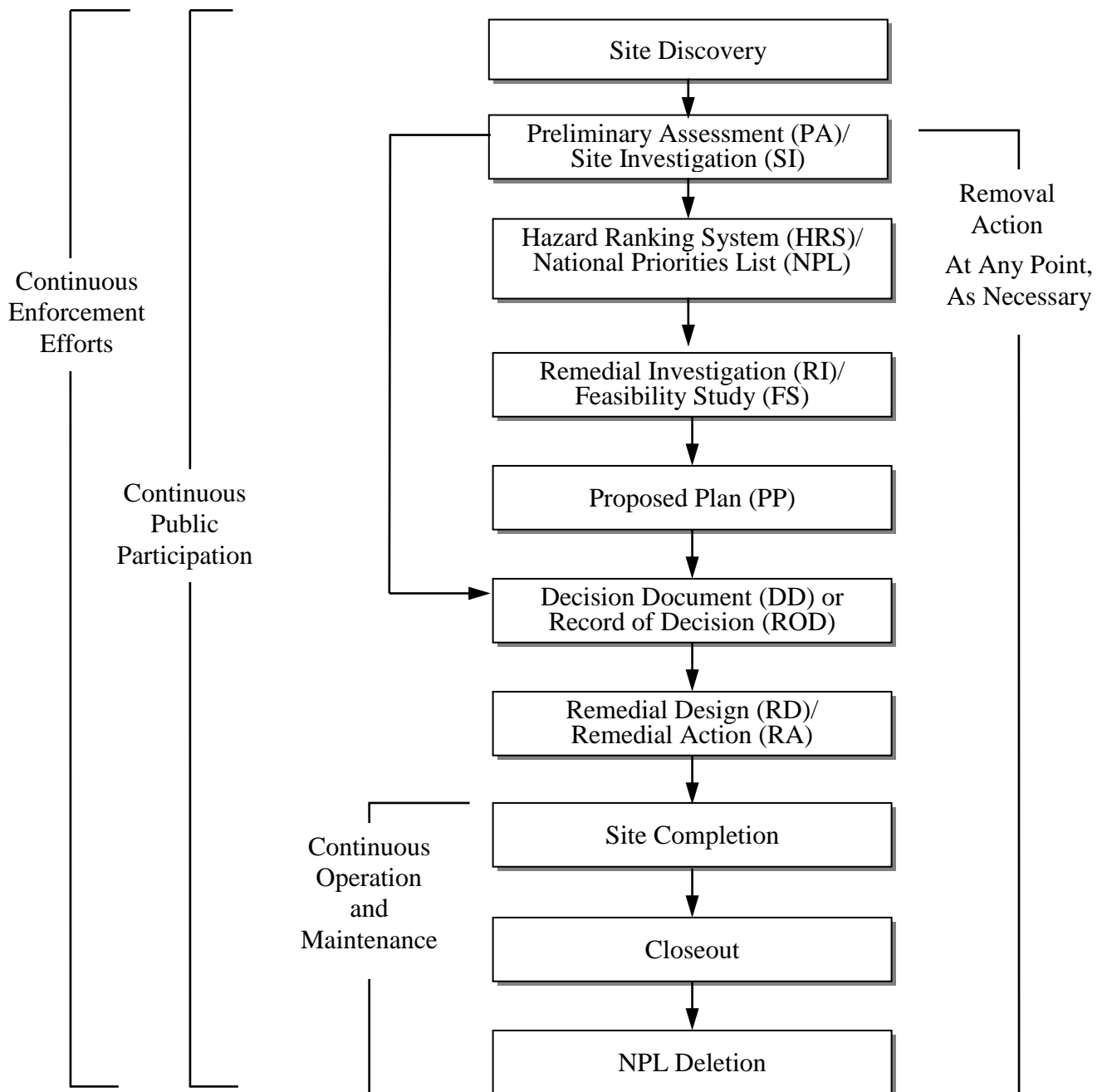
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The Superfund Process

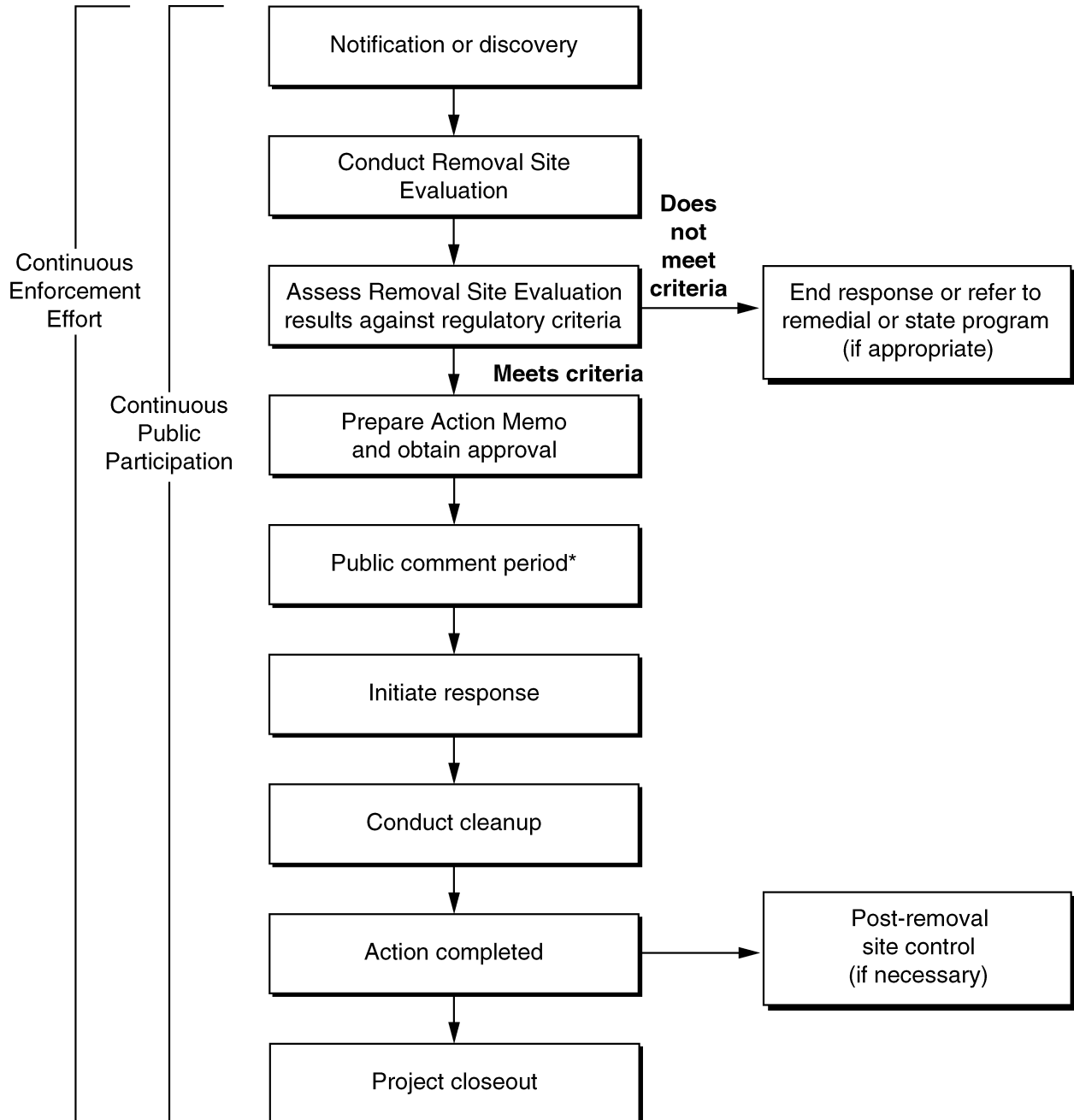
Because of contamination at the base, MMR was added to EPA's *National Priorities List (NPL)* in 1989. Sites on this list are known as "Superfund" sites. The NPL is a published inventory of *hazardous waste* sites in the country that are required to undergo extensive investigation and long-term cleanup. The Superfund program addresses hazardous waste resulting from past practices. Thus, the IRP does not manage all environmental investigations at MMR. Current activities such as the release and threats of release of oil and/or hazardous material that may affect the environment are not evaluated under Superfund. The Superfund process consists of several phases that lead to the ultimate goal of cleaning up a site and providing a safe environment for the people living on or near it. Throughout the process, there is opportunity for community involvement. When cleanup goals are met, project closeout reports are prepared. Sites proceed to NPL deletion after public review of the project closeout reports.

The U.S. EPA Superfund Process



If at any phase of the Superfund process a threat to human health or welfare or the environment exists because of an actual or threatened release of a hazardous substance, short-term cleanup, known as a *removal action* will be initiated. Removal actions are responses taken over the short term to address the release.

The Superfund Removal Action Process



*Note: For time-critical removal actions, the public comment period occurs after initiation of response.

A time-critical removal action is taken when EPA has determined that there is no immediate emergency, but a removal must begin within six months to prevent the situation at the site from becoming an emergency. A non-time-critical removal occurs when EPA determines that there is time for at least a six-month planning period prior to when the removal action must start.

AFCEE is the lead agency and works collaboratively with EPA, MassDEP, and various stakeholders to reach cleanup decisions. On November 15, 1989, the MMR was added to EPA's National Priorities List, making it a Superfund site. The Superfund list is a published list of hazardous waste site areas in the country. The Comprehensive and Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 is the law governing Superfund. The Massachusetts Contingency Plan (MCP) contains the regulations codified under the Commonwealth's *Superfund* law, MGL Chapter 21E, and the Installation Restoration Program conforms to these requirements and guidance for developing the framework and timetables to implement remedial actions at MMR. AFCEE uses the most stringent guidelines/regulations/standards for all evaluations and decisions in its program. The agencies and various stakeholders will continue to be involved with the ongoing work in the post-ROD phase, where most of the work will be related to operations, maintenance, and optimization of existing groundwater treatment systems.

Current IRP Status

Source Areas

A total of 80 source areas have been identified on MMR under the IRP program. Seventy-one of these source areas have either been cleaned up or required no treatment. In several cases, source areas have contributed to groundwater contamination at concentrations exceeding maximum contaminant levels (MCLs) or Massachusetts MCLs (MMCLs), thereby creating a groundwater plume.

In late 2007, EPA published a final delisting of 61 source areas on the MMR. These source areas have been investigated and, where needed, cleanup actions were completed. Determinations of no-further-response and no-further-risk to human health and the environment have been made for these sites. The sites that are associated with groundwater plumes were not included, although investigation and/or cleanup may have been completed.

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 agrees that it is acceptable to partially delist a surface site while a groundwater plume is undergoing cleanup. The partial deletion does not include groundwater plumes where cleanup levels have not been met or sites where investigation or cleanup is ongoing. If any new contamination information about a previously delisted site becomes available, EPA may reopen that site.

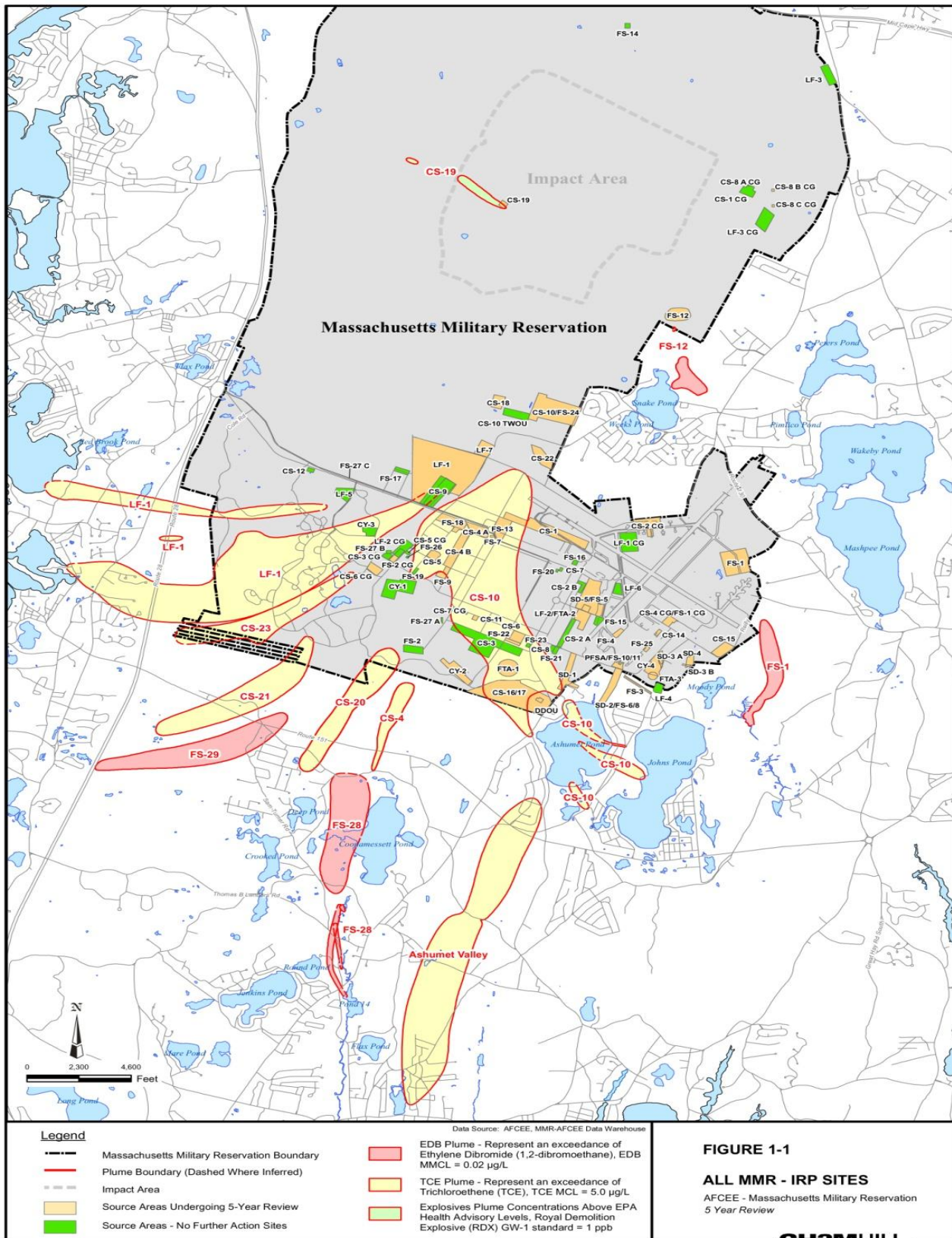
Groundwater Plumes

The IRP is currently addressing 12 distinct areas of groundwater contamination that are called groundwater plumes. Some plumes have undefined source areas. Most of the plumes have migrated from the MMR beyond the base boundary and are currently in various stages of groundwater monitoring and cleanup. At this time, eight treatment facilities are cleaning 14.5 million gallons of groundwater per day. Computer modeling suggests that it may take more than 30 years to fully remediate all of the groundwater contamination associated with MMR. Several plumes have shown dramatic decreases in size and contaminant concentrations due to years of groundwater treatment actions. Examples are the former Storm Drain 5 (SD-5) plume, which no longer exists due to cleanup actions taken, and the Fuel Spill 12 plume, which has seen an overall contaminant mass reduction of more than 90% due to cleanup actions taken so far. Plumes and groundwater treatment systems are continually being monitored and optimized to reduce the overall cleanup time. Eleven plumes are undergoing groundwater cleanup: Ashumet Valley, Chemical Spill 4 (CS-4), CS-10, CS-20, CS-21, CS-23, Fuel Spill 1 (FS-1), FS-12, FS-28, FS-29, and Landfill 1 (LF-1).

One plume, CS-19, is in long-term monitoring. LF-2 and SD-5, two sites where the groundwater contamination no longer meets the definition of a plume, are also in long-term monitoring.

For the most recent summary/status of plumes, source areas, monitoring, and decisions, please refer to the 2008 Final 3rd Five-Year Review 2002-2007 at http://www.mmr.org/irp/reports/fiveyear_fs.htm. You can also find more site-specific information at www.mmr.org under the Primary Site Documents tab.

Map: All MMR – IRP Sites



Map: All MMR Groundwater Plumes (11x17 map)

Summary of Community Involvement

Community involvement activity began in the mid 1980s and has evolved into a collaborative effort with citizens, towns, federal and regulatory agencies, and many other stakeholders. A comprehensive summary of past community involvement activities, including surveys and interviews, can be found in the 2003 Community Involvement Plan.

Community Involvement Activities

Records of Decision (RODs)

Formal decisions for groundwater plumes are published in RODs. In August and September 2009, the two remaining plumes requiring a ROD – CS-10 and CS-19 – were finalized. In addition, the CS-18 Operable Unit Decision Document was signed in September 2009.

ROD amendments

In the future there may be new circumstances for a particular plume or source area that warrant a new evaluation of the decision and a change in approach. If the change is deemed a significant deviation from the ROD, a ROD amendment will be issued and a public comment period will be held for that document.

Explanation of Significant Differences (ESD)

If changes occur in a cleanup system and these changes are significant, but without affecting the overall approach/goal of the system, an ESD will be issued to explain the new information and any adjustments to the cleanup system.

MMR Cleanup Team (MMRCT)

The origin of AFCEE's Plume Cleanup Team (PCT) goes back to 1993 when the Plume Management Process Action Team was formed. In later years the team made several transitions until members from the Public Information Team (PIT), Joint Process Action Team (JPAT), and Long Range Water Supply Team (LRWS) were integrated in 2001 to create the PCT. The team, which provided technical and community involvement advice on the cleanup of contaminants, met on the second Wednesday of the month on an as-needed basis. The PCT and its predecessors all reported to the Senior Management Board (SMB). (Please see page 14 for a description of the SMB).

The Army Environmental Command (AEC), through its Impact Area Groundwater Study Program (IAGWSP) at MMR, also supported a citizen advisory team called the Impact Area Review Team (IART). In May of 2008 the PCT and the IART began meeting jointly to cover both IRP and IAGWSP issues. In September 2008 the two teams combined to become the Massachusetts Military Reservation Cleanup Team (MMRCT). The MMRCT does not formally report to the SMB; however, the MMRCT and SMB occasionally conduct joint meetings.

MMRCT meetings, which are open to the public and generally occur once a month, provide a forum for community input regarding issues related to the IRP, which is focused on the environmental cleanup in the southern portion of the base, and the IAGWSP, which is focused on the environmental cleanup of the northern 15,000 acres of Camp Edwards. For more information on the MMRCT, including membership, please contact Doug Karson at 508-968-4678, ext. 2 at the IRP or Lori Boghdan at 508-968-5635 at the IAGWSP. AFCEE will continue to support the MMRCT.

Website

AFCEE will continue to maintain its website, www.mmr.org. Various environmental cleanup information is available on the site, including plume summaries/maps, reports, fact sheets, news releases, and MMRCT meeting information.

Administrative record

AFCEE’s administrative record contains all documents related to the decision-making process for all sites/plumes under AFCEE’s purview. AFCEE will continue to maintain the administrative record, which is also available online by going to www.mmr.org and selecting the “Admin Record” link.

Information repositories

AFCEE will continue to provide information to the local libraries. The main library in Bourne receives all final information issued by the IRP. The main libraries in Falmouth and Sandwich receive final information for sites/plumes that are located in or affect their specific town. The State Library of Massachusetts and Wilkens Library at Cape Cod Community College have recently started receiving final information for all sites/plumes.

Jonathan Bourne Library 19 Sandwich Road Bourne, MA 02532 (508) 759-0644	Falmouth Public Library 123 Katharine Lee Bates Road Falmouth, MA 02540 (508) 457-2555
Sandwich Public Library 142 Main Street Sandwich, MA 02563 (508) 888-0625	Wilkens Library Cape Cod Community College 2240 Iyannough Road West Barnstable, MA 02668 (877) 846-3672 (toll free)
State Library of Massachusetts 24 Beacon Street State House Room 341 Boston, MA 02133 (617) 727-2590	

Site mailing list

AFCEE will continue to maintain a site mailing list for people interested in receiving information about the program. Mailings will pertain to documents such as ROD amendments and other significant publications. News releases are not sent to the site mailing list but are issued to the news media and an email distribution list maintained by AFCEE (see News Releases topic later in this document).

Point of contact/telephone number for public and media queries

AFCEE will continue to provide a contact for public and media queries. The contact for the program is Doug Karson, AFCEE community involvement lead. Douglas.karson@us.af.mil; Office: (508) 968-4678, x2; Cell phone: (508) 566-6628.

Informational booklet

In the past AFCEE issued a plume booklet detailing the status of all groundwater plumes associated with the IRP. The Army also has issued similar publications on Impact Area Groundwater Study (IAGWSP) cleanup activities. In 2009, the IRP and IAGWSP agreed to participate in a joint effort to produce a streamlined booklet summarizing the cleanup status of both programs. A determination will be made at a later date as to what other joint informational materials will be produced. AFCEE will continue to make information on its cleanup program available to the public and update it periodically, as needed.

Land-use controls

Land-use controls (LUCs) used by AFCEE to reduce the possibility of exposure to contaminants include the following:

- Fences/signs were installed around the main base landfill (LF-1) and other source areas.
- Well drilling prohibitions on the MMR for potable water supplies are in place.
- Bourne, Falmouth, Mashpee, and Sandwich well drilling prohibitions and testing requirements for potable water supplies are in place at all appropriate areas.
- AFCEE continues to monitor local Dig Safe notices to look for well drilling activities and follow up as needed.
- AFCEE is required to conduct a program to verify the status of existing private and irrigation wells located on parcels in the footprint or in the future path of groundwater plumes. This ongoing effort involves direct contact with homeowners and collaboration with the local Boards of Health. AFCEE is also required to provide the regulators with an annual LUCs report on the information, management, and reporting of LUCs.

Five-Year Review

The purpose of the Five-Year Review is to evaluate the implementation and performance of a site cleanup remedy in order to determine if the remedy is or will be protective of human health and the environment. EPA guidance for Five-Year Reviews (OSWER 540-R-01-007, dated June 2001) requires the evaluation of each site in order to answer the following questions regarding the protectiveness of cleanup actions that have occurred or are occurring at the site:

- A. Is the remedy functioning as intended by the decision documents?
- B. Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?
- C. Has any other information come to light that could call into question the protectiveness of the remedy?

A required fact sheet summarizing the findings and conclusions of the Five-Year Review will be produced and distributed. The next Five-Year Review is scheduled for 2013.

Speaking engagements and tours

AFCEE supports invitations for speaking engagements and tailors presentations to the requestor's preference. Tours of cleanup activities will be supported. The contact for these activities is Doug Karson, AFCEE community involvement lead. Douglass.karson@us.af.mil; Office: (508) 968-4678, x2; Cell phone: (508) 566-6628.

Neighborhood notices

When conducting work that may result in high interest and/or disruption to travel/driveway access and/or noise, AFCEE will hand-deliver notices to homes in the surrounding area to explain the nature of the work/activity and provide a contact for questions.

News releases

News releases regarding significant activities, public meetings, comment periods, etc. will continue to be issued to the local media and distributed to AFCEE's email distribution list. Contact AFCEE Community Involvement at 508-968-4678, x 2 to be added to the list. News releases will be developed in coordination with key agencies and will undergo regulator review prior to dissemination to the public. For particularly urgent matters, prior coordination may not be possible, although the agencies would be notified verbally.

Informational meetings/posterboard sessions

When conducting work that may result in high interest and/or disruptions to travel/driveway access and/or noise, AFCEE may schedule an informational meeting/posterboard session in that neighborhood in order to fully explain the nature of the work/activity, answer questions, and provide a contact for questions.

Annual briefings for the Boards of Health

AFCEE and the IAGWSP will continue to provide annual updates to the Boards of Health in Falmouth, Mashpee, Sandwich, and Bourne. These updates, which are a formal requirement for AFCEE as explained in a ROD issued in September 2007 for the LF-1 and CS-23 plumes, are part of AFCEE's land-use control program.

Annual briefings for the Boards of Selectmen/town managers

The Environmental & Readiness Center (E&RC), AFCEE, and the IAGWSP will continue to provide annual updates to the Boards of Selectmen in Falmouth, Mashpee, Sandwich, and Bourne. These updates are televised on local cable TV and offer an excellent opportunity to convey information to the public.

Support of joint initiatives with E&RC and IAGWSP

In addition to the joint updates to the Boards of Health and Selectmen, AFCEE will continue to support additional community involvement activities with the other environmental programs at MMR. These efforts include, but are not limited to, joint appearances at realtors meetings and support of the annual MMR Environmental Fair for local middle school students. AFCEE also participates with the E&RC-sponsored Senior Management Board (SMB).

Community Involvement Plan addendums/updates

This addendum, as well as any future addendums or full updates, will undergo a 30-day public comment period. Notice of such comment periods will be placed in local papers through a paid advertisement, and a news release will be issued. Comments received will be considered and appropriate changes made. Responses, in the form of a responsiveness summary, will be issued to all comments received, and the summary will be provided to all those who comment. AFCEE will evaluate the Community Involvement Plan addendum at the appropriate time to consider a joint Community Involvement Plan with the Army cleanup program.

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Board of Health

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Other MMR Community Advisory Groups

Several other community advisory teams meet to discuss specific issues related to MMR. These groups meet on a regular basis to discuss issues ranging from the environmental cleanup programs to current activities occurring in the training area, to issues of mutual interest that affect both the military and the surrounding Upper Cape towns. All meetings are open to the public and are advertised in the local Enterprise newspapers. Notices of upcoming public meetings are distributed monthly via email and regular mail. To receive these notices please call: **508-968-5145**.

Senior Management Board (SMB)

The SMB, which is supported by the E&RC, meets to discuss ongoing base environmental issues. The SMB provides an important forum for towns and agencies to review, discuss, and influence the progress of the MMR cleanup. Selectmen and/or designated citizens appointed by the Board of Selectmen to represent the towns of Falmouth, Mashpee, Sandwich, and Bourne are members of the SMB who serve to facilitate two-way communication between the towns and the agencies and organizations associated with the MMR. Other members include the EPA, MassDEP, the Wampanoag Tribe, the E&RC, and the U.S. Coast Guard. The SMB serves as a forum for citizen teams, such as the MMRCT, to bring forward their issues, concerns, ideas, and recommendations. The SMB currently meets approximately four times a year, although meeting frequency is expected to decrease significantly once all remedies are in place for both cleanup programs. The SMB occasionally meets jointly with the MMRCT. AFCEE will continue to support the SMB with periodic updates on its projects as needed.

Massachusetts Military Reservation Military-Civilian Community Council (MCCC)

The MCCC, which was established by the E&RC in 2003, meets to discuss projects and policies that affect the southern 5,000 acres, or cantonment area, of the base. Past topics have included the Joint Land Use Study and its implementation, Homeland Defense/Homeland Security training opportunities at the MMR, and residential development bordering the MMR. Members sitting on the MCCC include: representatives from Falmouth, Mashpee, Sandwich, and Bourne; representatives from the Air and Army National Guards, the U.S. Coast Guard, PAVE PAWS, and AFCEE; and representatives from the Cape Cod Commission, the Association to Preserve Cape Cod, and the Wampanoag Tribe. The MCCC meets quarterly, or as needed.

Environmental Management Commission, Community Advisory Council, and Science Advisory Council

Environmental Management Commission (EMC)

The EMC meets to discuss the oversight, monitoring, and evaluation of military training and environmental protection activities that occur on the northern 15,000 acres of Camp Edwards. The EMC was established by Massachusetts state law, Chapter 47 of the Acts of 2002, to ensure the protection of the drinking water supply and wildlife habitat, along with compatible military training, in the northern 15,000 acres of MMR. Members of the EMC are the commissioners of the Massachusetts Department of Fish and Game, MassDEP, and the Massachusetts Department of Conservation and Recreation. The EMC is supported by two advisory councils: the Science Advisory Council and the Community Advisory Council. The EMC, as well as both advisory councils, meets quarterly. For more information about the EMC and its advisory boards, **contact Mark Begley at 508-968-5127** at the EMC.

Community Advisory Council (CAC)

The CAC advises the EMC on community-related issues pertaining to the oversight, monitoring, and evaluation of military training and environmental protection activities that occur on the northern 15,000 acres of MMR. The CAC includes representatives from the towns of Falmouth, Mashpee, Sandwich, and Bourne; the U.S. Coast Guard, the Air National Guard, and the Army National Guard; the Barnstable County Sheriff's Department, the Cape Cod Commission, the Wampanoag Tribe, the Upper Cape Regional Water Supply Cooperative, and at-large members.

Science Advisory Council (SAC)

The SAC advises the EMC on technical issues related to the protection of the drinking water supply and wildlife habitat, along with compatible military training, at the northern 15,000 acres of MMR. The SAC is comprised of scientists and engineers recognized for their expertise in the areas of public health, water protection, wildlife habitat management, and land-use management.

Community Involvement Activities Matrix

TOPIC (7)	News Release	Newspaper Ad	Neighborhood Flyer (10)	Fact Sheet	Public Meeting	Public Comment Period
REMIEDIATION						
PA/SI Fieldwork Notice to Proceed	X	Res/Public (4)	Res/Public (4)			
Preliminary Assessment	TBD	TBD	TBD (Abutters)	TBD	TBD	
Site Investigation	TBD	TBD	TBD (Abutters)	TBD	TBD	
Final Site Investigation Report	X	Res/Public (4)	Res/Public (4)			
Remedial Investigation Work Plan	X	X	X			14 days
Remedial Investigation	TBD	X	TBD	TBD	TBD	
Draft Remedial Investigation Report					MMRCT	
Technical Memo			TBD if off base	TBD if off base	TBD if off base	
Draft Feasibility Study					MMRCT (11)	30 days (9)
Proposed Plan	X	X	X	X (6)	X	30 days (1) (9)
Public Hearing on Proposed Plan	X	X	X			
Time-Critical Removal (<180 days)	X	X	X	TBD	TBD	30 days (1)
Time-Critical Removal (>180 days)	X	X	X	TBD	TBD	30 days (1)
Non-Time-Critical Removals (EE/CA)	X	X	TBD	TBD	TBD	30 days (1)
Draft Decision Document	X	X			MMRCT	30 days
Final Decision Document	X					
Pre-ROD Significant Changes	TBD	TBD	TBD	TBD	TBD	
Pre-ROD Amendment (12)		X	X	X (6)	X	30 days
Final Record of Decision/Amended ROD	X	X	Res/Public (4)			
Post-ROD/Enforcement Action Significant Changes	X	X	TBD	TBD	TBD	
Post-ROD/Enforcement Actions Amendment/ESD	X	X	X	X (6)	X	30 days
100% Remedial Design				X	MMRCT	
Construction Contract Award	X					
Prior to Start of Construction	X	X	X (5)	X	TBD (5)	
Construction Updates, as Required	TBD (3)		X		TBD	
System Start-up (2)	X	X	Res/Public (4)	TBD		
Demobilization of Remediation System	X	X	TBD if off base	TBD if off base	TBD	
Project Closure Report	X					

TOPIC (7)	News Release	Newspaper Ad	Neighborhood Flyer (10)	Fact Sheet	Public Meeting	Public Comment Period
COMMUNITY INVOLVEMENT						
Public Meeting	X	X	X			
Community and Team Meetings	X	X	X			
Other Public Information Meetings	X	X	TBD	TBD	X	
Emergencies	X	TBD	X	TBD	TBD	
Town Water Hookups	X					
Monitoring Well Installation in Neighborhood	X		X			
Private Well Verification Program (13)						
Groundwater Monitoring Well Agreements and Abandonment (13 + 14)						
Sampling Event (monitoring well, ecological, pond)			Abutters			
Annual Private Well Sampling Schedule (Telephone calls)	X					
Quarterly Program Update	X			X		
Operations and Monitoring Reports					MMRCT & SMB	
Five-Year Review		X		X	MMRCT & SMB	
Revised Community Involvement Plan (CIP)	X	X			TBD	30 days
Strategic or Management Plans	X	X	TBD	X	TBD	30 days (1)
FFA Amendments	X	X		X		30 days
Enforceable Milestone Extensions	TBD	TBD	TBD	TBD	TBD	TBD
Administrative Order on Consent/Consent Decree		X (8)				30 days

Notes:

- (1) Responsiveness summary to address public comments will be prepared.
- (2) After system start-up, system performance reports will be provided to the MMRCT.
- (3) To be determined (TBD) indicates that an activity is situational dependent; no entry means an activity is not required or not typically done.
- (4) Res/Public – Activities taking place where nearby residents or the general public could be affected.
- (5) Certified mail required for abutters within 300 feet of construction area and a Selectmen's Meeting (Mashpee only).
- (6) Proposed Plan is the fact sheet for the final feasibility study and for ROD amendments. Public hearing conducted during comment period.
- (7) For all topics, presentation and/or written update will be provided to MMRCT, SMB, BOH, Town Selectmen, Conservation Committee, etc. Documents also will be placed in the administrative record or information repositories, as required.
- (8) Notice must be published in the Federal Register.
- (9) The proposed plan public comment period is also an opportunity to comment on the remedial investigation and feasibility study.
- (10) Neighborhood flyers are sent to the town officials.
- (11) Two meetings held with the MMRCT prior to the finalization of alternatives and draft Feasibility Study.
- (12) A Pre-ROD Amendment is a revised Proposed Plan.
- (13) The Private Well Verification Program is one of several Land-Use Controls AFCEE has implemented at MMR. The program may involve letters, phone calls, home visits, and available records research. Also, coordination with the town regarding available information and notification.
- (14) May involve a legal instrument between the Air Force and the property owner in the form of an easement, right-of-entry, or some other binding document.

RESPONSIVENESS SUMMARY

A public comment period was held from February 1 to March 2, 2010 on the AFCEE January 22, 2010 Community Involvement Plan Addendum. Copies of the Draft Addendum were provided to the main libraries in the towns of Falmouth, Sandwich, and Bourne. The Addendum was also placed on AFCEE's MMR website www.mmr.org. Paid advertisements announcing the comment period appeared in the January 29, 2010 edition of the Cape Cod Times and the Region Section of the Enterprise Newspapers that was distributed to subscribers in the towns of Falmouth, Mashpee, Sandwich, and Bourne.

At the close of the comment period no public comments were received. The Addendum is now final.