



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, NORTH ATLANTIC DIVISION
FORT HAMILTON MILITARY COMMUNITY
302 GENERAL LEE AVENUE
BROOKLYN NY 11252-6700

CENAD-PD-I

JAN 25 2017

MEMORANDUM FOR Commander, U.S. Army Corps of Engineers, New England District, (CENAE-PP-M/Ms. Heather Sullivan), 696 Virginia Road, Concord, MA 011742

SUBJECT: Defense Environmental Restoration Program - Formerly Used Defense Sites (DERP-FUDS) Revised Inventory Project Report (INPR) for Property No. DO1R10008, Navy Auxiliary Landing Field, Charlestown, RI

1. Reference Memorandum, CENAE-PP-M dated 21 December 2016, subject as above, (enclosed).
2. I concur with and approve the Revised Inventory Project Report (INPR) for the Navy Auxiliary Landing Field Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS), Property No. DO1R10008.
3. The point of contact for this action is Ms. Luz Spann-LaBato, Senior Environmental Program Manager, (347) 370-4605, Luz.O.Spann-LaBato@usace.army.mil.

Encl

A handwritten signature in blue ink, reading "W. H. Graham", is positioned above the typed name.

WILLIAM H. GRAHAM
Brigadier General, USA
Commanding



DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 Virginia Road
Concord, MA 01742-2751

CENAE-PP-M

21 December 2016

MEMORANDUM FOR Commander, U.S. Army Corps of Engineers, North Atlantic Division, (CENAD-PD-IIS-P/Mr. Ravi Ajodah), Fort Hamilton Military Community, 302 General Lee Ave, Brooklyn, New York 11252

SUBJECT: Defense Environmental Restoration Program - Formerly Used Defense Sites (DERP-FUDS) Revised Inventory Project Report (INPR) for Property No. D01RI0008, Navy Auxiliary Landing Field, Charlestown, RI

1. This memorandum, including enclosures, comprises the revised INPR for the HTRW projects at the Navy Auxiliary Landing Field FUDS Property. Enclosure 1 is the 2016 Revised Property Survey Summary Sheet. Enclosure 2 is the property map.
2. The Findings and Determination of Eligibility for this property was previously approved in 1985 and is included here as Enclosure 3. The property was determined to be eligible for inclusion into the FUDS Program. The HTRW project D01RI000801 is the subject of this revision.
3. There are currently six approved projects (Projects 01, 02, 04, 05, 06 and 07) at the Charlestown Navy Auxiliary Landing Field FUDS Property. Project 03 was previously rejected. Four of the seven projects are currently active; a site wide Hazardous Toxic and Radioactive Waste (HTRW) project (Project 01), and three MMRP Projects (04 through 06). An amendment to the INPR for the Charlestown Navy Auxiliary Landing Field is recommended in order to delineate Project 01 into a revised Project 01 and two new HTRW projects (Projects 08 and 09). Breaking the large HTRW project into smaller projects will allow progress to be documented and future efforts to be conducted more efficiently. Enclosure 4 contains the Project Summary Sheets for these revised/proposed projects.
4. I recommend that North Atlantic Division approve the revised and new HTRW and CON/HTRW Projects.

CENAE-PP-M

SUBJECT: Defense Environmental Restoration Program - Formerly Used Defense Sites (DERP-FUDS) Revised Inventory Project Report (INPR) for Property No. D01RI0008, Navy Auxiliary Landing Field Charlestown, Rhode Island

5. Please contact me directly if I can be of further assistance. Detailed information desired by your staff can be obtained by contacting Heather Sullivan, (978) 318-8543.

A handwritten signature in black ink, appearing to read 'CJB', with a long horizontal stroke extending to the right.

CHRISTOPHER J. BARRON
COL, EN
Commanding

4 Encls

1. Revised Property Survey Summary Sheet
2. Property Map
3. FDE
4. Revised Project Summary Sheets w/attachments

**REVISED
PROPERTY SURVEY SUMMARY SHEET
FOR
DERP-FUDS PROPERTY NO. D01RI0008
NAVAL AUX LANDING FIELD
CHARLESTOWN, WASHINGTON County, RI
December 2016 (Revision Date)**

PROPERTY NAME: Naval Auxiliary Landing Field, a.k.a. Charlestown Naval Auxiliary Landing Field (CNALF)

LOCATION: Naval Aux Landing Field is located near the city of Charlestown, Rhode Island, in Washington County. It is in the vicinity of Latitude 41° 21' 51" North and Longitude 71° 39' 43" West and is within Rhode Island Congressional District 02, U.S. Environmental Protection Agency Region 1, and zip code 02813.

PROPERTY HISTORY: The field was constructed between 1940 and 1942 as a training field for Navy pilots and aviation crews. After World War II, it continued to be used for training and as an alternate landing location in support of the Quonset Point Naval Air Station, RI, until its closing in 1970. The entire 631.3 acres were reported to GSA for disposal in 1974. GSA conveyed 172.4 acres to the Town of Charlestown in 1981 and 55 acres in 1982. The remaining 403.9 acres were conveyed to the Department of the Interior between 1971 and 1982.

The FUDS currently is owned by the City of Charlestown and the United States Fish and Wildlife Service (USFWS). While a large portion of the FUDS is a wildlife refuge, the property is open to the public and used for recreational purposes.

PROPERTY VISIT: Several property visits have been conducted on the former Naval Auxiliary Landing Field by USACE personnel as well as government contractors.

CATEGORY OF HAZARDS: HTRW, BD/DR, CON/HTRW, MMRP

PROJECT DESCRIPTION:

Original Project 01: HTRW – site-wide. Project 01 was initially approved as a site-wide HTRW project to evaluate contamination at numerous areas including a three landfills, three boiler house areas with POL contamination, a tank farm area with POL contamination and a burn pit area. Significant effort has been conducted on the tank farm POL area (also known as Site 8.)

Revised Project 01: HTRW. The revised project 02 will include only the tank farm area (Site 8).

Project 02: BD/DR - D01R/000802 BD/DR. Project 02 was approved on 15 July 1993, and NDAL'd and closed out on 30 September 2003. **This revised INPR does not address this project.**

Project 03: CON/HTRW. Project 03 was rejected. **This revised INPR does not address this project.**

Project 04: MMRP - Skeet Range Complex. Project 04 was approved in July 2014 following MMRP realignment and is limited to the Munitions Response Site (MRS) identified as Skeet Range Complex. **This revised INPR does not address this project.**

Project 05: MMRP - Shoot-In-Butt & Island Dump Area. Project 05 was approved in July 2014 following MMRP realignment and addresses the Shoot-in-Butt & Island Dump Area. **This revised INPR does not address this project.**

Project 06: MMRP - Inland Toxic Waste Dump & Dump Area., Project 06 was approved in July 2014 following MMRP realignment and addresses the Inland Toxic Waste Dump & Dump Area. **This revised INPR does not address this project.**

Project 07: MMRP - Pistol Range. Project 07 was approved in July 2014 following MMRP realignment and addresses the Pistol Range. **This revised INPR does not address this project.**

New Project 08: CON/HTRW – Boiler House POL contamination – This revised INPR creates new project 08. Future work will involve investigating the POL issues at Boiler Houses 2, 3 and 4 by performing new sampling, data analysis and development of a conceptual site model. This project also includes removal of an underground electrical vault, removal of all discarded electrical equipment including a transformer, testing the soil and concrete for possible PCBs, properly disposing of all removed materials, and completion of a closure report.

New Project 09: HTRW – Landfills and Burn Pit – This revised INPR creates new project 09. Future work will involve investigating the three landfills (Charlestown, Eastern and Ninigret) and the fire training/burn pit area by performing new sampling, data analysis and development of a conceptual site model.

AVAILABLE STUDIES AND REPORTS:

Final Archives Search Report (ASR) - April 1999

Final Site Inspection (SI) Report - August 2008

Reports and studies are available on the Project Information Retrieval System (PIRS) at <https://fuds-pirs.usace.army.mil/app/index.cfm>; Engineering Knowledge Online (EKO) Virtual Teams at <https://eko.usace.army.mil/virtualteams/mmrp>; and the FUDS Records Management Database (FRMD) at <https://frmd.usace.army.mil/fiip/app/index.cfm>.

POINT OF CONTACT: Heather Sullivan, New England District, 978-318-8543

LEAD REGULATOR: Mr. Richard Gottlieb, Rhode Island Department of Environmental Management, (401) 222-4242 ext. 7138

Recommendation for Signature



CHRISTOPHER J. BARRON
COL, EN
Commanding

21 DEC 16

Date

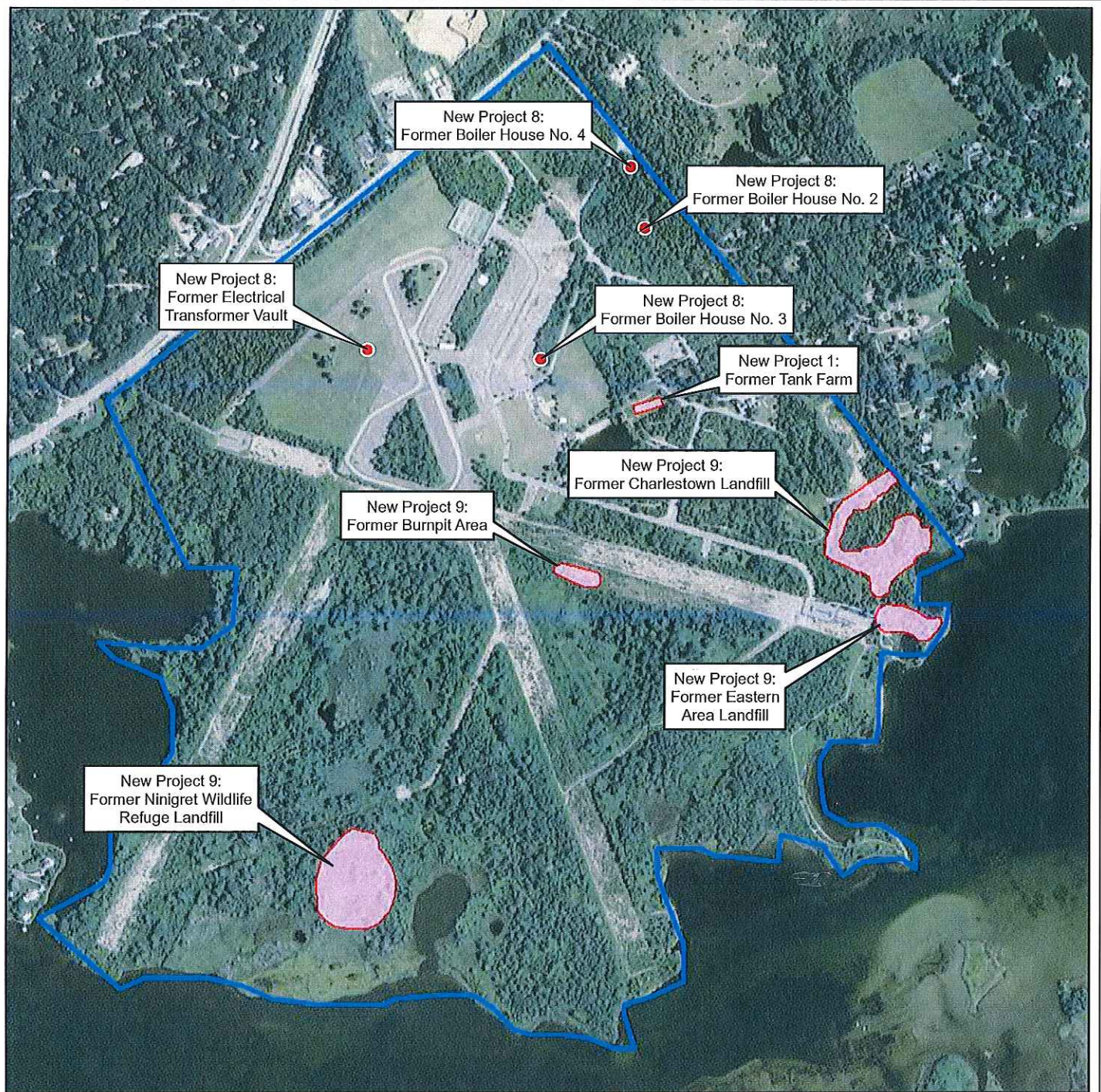
Approval



WILLIAM H. GRAHAM
Brigadier General, USA
Commanding

25 JAN 17

Date



Legend

- Approximate New Site Location
- Approximate New Site Boundary
- Approximate CNALF Site Boundary



0 1,000
Feet

Figure 1

CNALF
New Project Locations
Charlestown, RI



DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
FOR FORMERLY-USED SITES
FINDINGS AND DETERMINATION OF ELIGIBILITY
NAVAL AUXILIARY LANDING FIELD, CHARLESTOWN, RHODE ISLAND
PROJECT NO. D01RI000801

FINDINGS OF FACT

1. An environmental restoration project is proposed that includes the removal of 8 to 10 underground fuel tanks containing various levels of contaminated jet fuel, aviation gas, gasoline, and fuel oil. Also proposed is the demolition and removal of a one-story brick building and further demolition and removal of extensive walls, foundations, adjacent walks at 14 sites throughout the installation; one of these sites also has an old water tank head to be removed, and several have underground vaults with valves and other equipment to be extracted and filled. Further action includes the removal of an old sewage distribution system and approximately 500,000 ft² of a deteriorated bituminous and concrete runway. All restored areas are to be filled, graded, and seeded.
2. The Charlestown Naval Auxiliary Landing Field was constructed between 1940 and 1942 as a training field for Navy pilots and aviation crews. After World War II, it continued to be used for training and as an alternate landing site in support of the Quonset Point Naval Air Station, Rhode Island, until its closing in 1970. It was reported to the General Services Administration (GSA) for disposal in 1974.
3. The entire installation originally consisted of 604 acres acquired by the U.S. Government for the Navy. The area covered by this report is the 227 acres conveyed to the Town of Charlestown, Rhode Island. The remaining 377 acres was granted to the Department of the Interior, and is managed by them as the Ninigret National Wildlife Refuge. The local office of the Fish and Wildlife Service has indicated that there is much work they would like to have done under the Defense Environmental Restoration Program (DERP). An inspection will be made of the Ninigret National Wildlife Refuge site, and a separate report under a different project number will be issued.
4. The 227 acres covered by this report was granted to the Town of Charlestown in two parcels. By deed dated 22 May 1981, 172.4 acres were conveyed to the town for public park or public recreation purposes by the Department of Interior, Heritage Conservation and Recreation Service. The deed included the right of recapture for defense purposes, a reverter clause for breach of conditions, and a requirement for the consent of the Department of Interior prior to disposal. By deed dated 18 June 1982, 55.0 acres were conveyed to the town by GSA for consideration in the amount of \$279,000.00. A review of both these instruments revealed no conditions or language either establishing or releasing U.S. Government responsibility for restoration.

5. Two underground aviation fuel tanks located close to a recently completed 2.5-acre freshwater pond, which is part of a public recreation area, are the primary concern and must be removed. Traces of fuel residue in the water of this pond have been found and it is suspected that it may come from leaks in these tanks. The tanks are partially full of water-contaminated aviation fuel and may threaten the water quality, and therefore the public image of this public use area. The tanks have never been used since being abandoned by the military. The tanks are located in a heavily overgrown section of ground with several concrete pads and old foundations, some of which house old fuel valves and connections. All of these structures should be removed and the disturbed area graded and seeded.

DETERMINATION

Based on the foregoing findings of fact, the present condition of the site as described above has been determined to be the result of prior DOD ownership, utilization, or activity in connection therewith. Moreover, it is determined that an environmental restoration project under the Defense Environmental Restoration Program, to the extent set out herein, is an appropriate undertaking within the purview of Public Law 98-473, Continuing Appropriation, 1985 [Conference Report (HR 98-1159)], for the reasons stated above.

2 July 1985
DATE

Lloyd A. Duscha
LLOYD A. DUSCHA, P. E.
Deputy Director
for Directorate of Engineering and
Construction

**REVISED PROJECT SUMMARY SHEET
FOR
DERP-FUDS HTRW PROJECT NO. D01RI000801
Property No. D01RI0008
Federal Facility ID Number: RI9799F2106
Former Tank Farm - Site 8
NAVAL AUX LANDING FIELD
Washington County, RI
December 2016 (Revision Date)**

PROJECT DESCRIPTION: The original Project 01 included eight HTRW areas of concern: 3 Landfills, 3 Boiler Houses with POL contamination, a burn pit and a tank farm area. Project 01 is being revised to include only the tank farm area. The tank farm area was comprised of five USTs located approximately 200 feet east of the eastern edge of Little Nini Pond. Each tank was approximately 10 feet by 43 feet. This area served as the major source of fuel for the former NALF. The tanks were excavated as part of decommissioning activities in the late 1980s and significant contamination was left on site. Remediation of contaminated soil occurred in 2008 followed by Long Term Monitoring of groundwater from 2008 to 2010. The site is currently undergoing the closeout process via the development of an Environmental Land Use Restriction (ELUR) and Soil Management Plan (SMP) with the Town of Charlestown. The site is currently a level grass field and is used as part of a disc golf course.

PROJECT ELIGIBILITY: The field was constructed between 1940 and 1942 as a training field for Navy pilots and aviation crews. After World War II, it continued to be used for training and as an alternate landing location in support of the Quonset Point Naval Air Station, RI, until its closing in 1970. The entire 631.3 acres were reported to GSA for disposal in 1974. GSA conveyed 172.4 acres to the Town of Charlestown in 1981 and 55 acres in 1982. The remaining 403.9 acres were conveyed to the Department of the Interior between 1971 and 1982. Property was under the jurisdiction of the Secretary and owned by, leased to, or otherwise possessed by the United States at the time of actions leading to contamination by hazardous substances. The property was transferred from DoD's control prior to 17 October 1986.

POLICY CONSIDERATIONS: There is no policy that prohibits the proposal of the project amendment. The U. S. Army used the project site, and therefore, the site would be eligible for funding under the DERP-FUDS Program.

PROPOSED ACTIVITIES: The following activities are proposed for HTRW project 01: Continued long term monitoring and project closeout.

POINT OF CONTACT: Heather Sullivan, New England District, 978-318-8543

LEAD REGULATOR: Mr. Richard Gottlieb, Rhode Island Department of Environmental Management, (401) 222-4242 ext. 7138

**REVISED PROJECT SUMMARY SHEET
FOR
DERP-FUDS CON/HTRW PROJECT NO. D01RI000808
Property No. D01RI0008
Federal Facility ID Number: RI9799F2106
Boiler House POL Contamination
NAVAL AUX LANDING FIELD
Washington County, RI
December 2016 (Revision Date)**

PROJECT DESCRIPTION: This new CON/HTRW project is added to evaluate POL contamination remaining at tank sites associated with three boiler houses and to remove an underground transformer vault. The boiler house sites were initially included in Project 01.

Boiler House Number 2 is located near the northern end of the site. It contained one 10,000 gallon UST. The tank, which occupied an area of approximately 7 feet by 29 feet, was excavated as part of decommissioning activities in the late 1980s. The boiler house has been demolished.

Boiler House Number 3 was located approximately 700 feet north of Little Nini Pond in Ninigret State Park. The boiler house contained one 5000 gallon UST. The tank, which occupied an area of approximately 6 feet by 23 feet, was excavated as part of decommissioning activities in the late 1980s. The boiler house no longer exists and basketball court has been built adjacent to its former location surrounded by maintained lawn.

Boiler House Number 4 was located near the northern end of the former NALF. The boiler house contained one 5000 gallon UST. The tank, which occupied an area of approximately 7 feet by 29 feet, was excavated as part of decommissioning activities in the late 1980s. The boiler house has been demolished.

An underground electrical vault containing an old transformer and the remains of electrical switching equipment was found to exist on this site. The transformer and switching equipment was part of the lighting system for the runways at the auxiliary landing field. It appears that neither the vault nor the equipment has been in use since it was abandoned by the military. Based upon the age of the equipment within the vault, it must be assumed that the transformer oil contains PCBs.

The vault is approximately 7-ft by 7-ft, 8-ft deep with 6-inch thick walls. The transformer appears to be about 2½-ft in diameter by about 3-ft high. The opening appears to be about 3-ft in diameter and is secured by a watertight manhole set on top of the vault. The inner seal to the watertight manhole is broken and the vault is now exposed to the elements.

PROJECT ELIGIBILITY: The field was constructed between 1940 and 1942 as a training field for Navy pilots and aviation crews. After World War II, it continued to be used for training and as an alternate landing location in support of the Quonset Point Naval Air Station, RI, until its closing in 1970. The entire 631.3 acres were reported to GSA for disposal in 1974. GSA conveyed 172.4 acres to the Town of Charlestown in 1981 and 55 acres in 1982. The remaining 403.9 acres were conveyed to the Department of the Interior between 1971 and 1982. Property was under the jurisdiction of the Secretary and owned by, leased to, or otherwise possessed by the United States at the time of actions leading to contamination by hazardous substances. The property was transferred from DoD's control prior to 17 October 1986.

POLICY CONSIDERATIONS: There is no policy that prohibits the proposal of the project amendment. The U. S. Army used the project site, and therefore, the site would be eligible for funding under the DERP-FUDS Program.

PROPOSED ACTIVITIES: The following activities are proposed for CON/HTRW project 08: Evaluate the POL contamination under the State UST Regulations. Remove the vault and any associated contamination.

POINT OF CONTACT: Heather Sullivan, New England District, 978-318-8543

LEAD REGULATOR: Mr. Richard Gottlieb, Rhode Island Department of Environmental Management, (401) 222-4242 ext. 7138

**REVISED PROJECT SUMMARY SHEET
FOR
DERP-FUDS HTRW PROJECT NO. D01RI000809
Property No. D01RI0008
Federal Facility ID Number: RI9799F2106
Landfills
NAVAL AUX LANDING FIELD
Washington County, RI
December 2016 (Revision Date)**

PROJECT DESCRIPTION: This new project is added to evaluate three landfills and a burn pit at the Navy Auxiliary Landing Field Property. The landfill and burn pit sites were initially included in Project 01.

The Charlestown Landfill site is an excavated area located at the eastern end of the former NALF. The excavated area was used for disposal and burial of military debris which included airplane and vehicle parts, scrap metal and inert practice bombs. In 1973 and 1977 the landfill was excavated in search of airplane parts by trustee of the Bradley Air Museum. The area is now heavily overgrown.

The Eastern Area Landfill is located beyond the eastern end of Runway 30 adjacent to Ninigret Pond. This site is in topographic depression that was used for disposal of construction debris which included concrete bricks and metal parts. The area is now heavily overgrown.

The Ninigret Wildlife Refuge Landfill is located approximately 500 feet northwest of Coon Cove in the Wildlife Refuge area. The site, which is flat wetland area, was used for disposal of trash, discarded appliances, tires, cans, bottles and other miscellaneous debris. The landfill is heavily overgrown and the fill is poorly covered.

The burn pit area is located immediately south of Runway 30, approximately 750 feet east of the intersection of Runways 30 and 35. The burn pit was used to practice fire and rescue training procedures in the event of a jet crash. During these exercises, aircraft fuselages were covered with jet fuel and set afire. The burn pit area is now heavily overgrown.

PROJECT ELIGIBILITY: The field was constructed between 1940 and 1942 as a training field for Navy pilots and aviation crews. After World War II, it continued to be used for training and as an alternate landing location in support of the Quonset Point Naval Air Station; RI, until its closing in 1970. The entire 631.3 acres were reported to GSA for disposal in 1974. GSA conveyed 172.4 acres to the Town of Charlestown in 1981 and 55 acres in 1982. The remaining 403.9 acres were conveyed to the Department of the Interior between 1971 and 1982. Property was under the jurisdiction of the Secretary and owned by, leased to, or otherwise possessed by the United States

at the time of actions leading to contamination by hazardous substances. The property was transferred from DoD's control prior to 17 October 1986.

POLICY CONSIDERATIONS: There is no policy that prohibits the proposal of the project amendment. The U. S. Army used the project site, and therefore, the site would be eligible for funding under the DERP-FUDS Program.

PROPOSED ACTIVITIES: The following activities are proposed for HTRW project 09: Completion of a Remedial Investigation, Feasibility Study, Proposed Plan and Decision Document, followed by implementation of the proposed remedy.

POINT OF CONTACT: Heather Sullivan, New England District, 978-318-8543

LEAD REGULATOR: Mr. Richard Gottlieb, Rhode Island Department of Environmental Management, (401) 222-4242 ext. 7138