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**FY2009**

**SENECA ARMY DEPOT ACTIVITY**

**Base Realignment & Closure  
Installation Action Plan**

Printed 01 October 2009



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## 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 the necessary remedial actions (RA).

In an effort to coordinate planning information between the BRAC environmental coordinator (BEC), the US Army Environmental Command (USAEC), Seneca Army Depot Activity (SEDA), the regulatory agencies, executing agencies, the BRAC Division and the public, a BIAP was completed. The BIAP is used to track requirements, schedules and 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 SENECA ARMY DEPOT ACTIVITY:

Absolom, Stephen  
Weinberg, Andrew

Seneca Army Depot Activity  
Bechtel-S Corporation for USAEC

## Installation Program Summaries

### BRAC-IRP

Total Number of Sites: 72  
Number of sites at RIP: 2  
Number of sites at RC: 69  
Number of sites at RC with LTM: 7  
Primary Contaminants of Concern: Metals, Nitrate/Nitrite, Radionuclides, Semi-volatiles (SVOC), Volatiles (VOC)  
Affected Media of Concern: Groundwater, Soil, Surface Water  
Date for Remedy-In-Place (RIP)/Response Complete (RC): 201009/202201  
Prior Funding: \$89,874.8 K  
Current FY 09 Requirements: \$667.0 K  
Future Requirements (CTC): \$7,180.0 K

### BRAC-MMRP

Total Number of Sites: 13  
Number of sites at RIP: 0  
Number of sites at RC: 9  
Number of sites at RC with LTM: 1  
Primary Contaminants of Concern: Metals, Munitions and explosives of concern (MEC), Munitions constituents (MC), Semi-volatiles (SVOC)  
Affected Media of Concern: Groundwater, Soil  
Date for Remedy-In-Place (RIP)/Response Complete (RC): 201309/201309  
Prior Funding: \$11,183.4 K  
Current FY 09 Requirements: \$9.0 K  
Future Requirements (CTC): \$21,843.0 K

## Installation Locale

BRAC Round: BRAC IV  
Installation Size (Acreage): 10,687.00  
Retained by Component (Acreage): 0.00  
BRAC Acreage: 10,687.00  
Acres being transferred to another service: 0.00  
Acres being transferred to other federal agencies: 0.00  
Acres being transferred to non-federal agencies: 10,416.00

City: Romulus

County: Seneca

State: New York

### Other Locale Information

SEDA encompasses 10,687 acres in Seneca County, New York, between Cayuga and Seneca Lakes in the Finger Lakes region and abuts the town of Romulus. It is bordered by New York State (NYS) Highway 96 to the east, NYS Highway 96A to the west, and sparsely populated farmland to the north and south.

### List of Off-Post Properties

N/A

# Installation Information

## Environmental Condition of Property

BRAC Round: BRAC IV

	CERCLA	MMRP
Acres in Category 1:	8,598.00	0.00
Acres in Category 2:	19.00	0.00
Acres in Category 3:	1,129.00	0.00
Acres in Category 4:	140.00	0.00
Acres in Category 5:	801.00	611.70
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)

## Regulator Participation

Federal US Environmental Protection Agency (USEPA), Region II  
 State New York State Department of Environmental Conservation (NYSDEC)

BRAC Closure Round: BRAC IV - Base Realignment And Closure 1995

## Status of Redevelopment Initiative (Reuse Plan)

Redevelopment Plan Date: 199703  
 Organization Name: Seneca County Indst Dev Agency

## Existing Legal Agreements/Interim Leases

Parcel Name	Actual Lease/License Date	Length of Lease/License	Licensee
airfield	14-FEB-2002	50	

## Significant Base Tenants

Seneca County Industrial Development Agency (SCIDA)  
 USACE

Projected Date of Final Transfer of Property: 201209

## National Priorities List (NPL) Status

A score of 37.3 was recorded on 199008.

Final RA(C) Completion Date: 201112

## Date for NPL Deletion:

BRAC-IRP N/A  
 BRAC-MMRP N/A

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

RAB established 1996

# Cleanup Program Summary

## Previous Year Planned versus Actual Progress

Records of Decision (RODs) continued, but were not completed, for the following sites:

- Sewage Sludge Waste Piles,
- Old Construction Debris Landfill,
- Radioactive Burial Sites,
- Paint Disposal Areas,
- Metals Sites, and
- Ore Igloos.

A ROD for the Defense Reutilization and Marketing Office (DRMO) was finalized. RA at the Munitions Washout Facility was initiated, but not completed.

## Installation Program Cleanup Progress

### BRAC-IRP

**Prior Year Progress:** A remedial action - operation [RA(O)] was in progress at the Ash Landfill and Fire Training Area (FTA) sites. A remedial design (RD)/RA will be completed at the Munitions Washout Facility. Long-term management (LTM) will continue for all planned industrial development (PID) sites and others as identified in the land use control (LUC) RD. Sites that receive no further action (NFA) approval will be closed out.

**Future Plan of Action:** RA(O) will continue at the Ash Landfill and FTA sites. LTM will continue for all PID sites and others as identified in the LUC RD. RD/RA should be initiated and completed for the Radioactive Burial Sites.

### BRAC-MMRP

**Prior Year Progress:** Interim Remedial Actions (IRAs) are in progress at two sites. LTM is in progress at one site. Two sites are at the end of the remedial investigation (RI)/feasibility study (FS) phase, with RODs being drafted.

**Future Plan of Action:** LTM will continue at sites with ROD requirements. The RI/FS will continue at SEAD-006-R-01.

## Installation Exit Strategy

Seneca is a BRAC site with the mission to clean up and dispose of the property to the local reuse authority for industrial/commercial development, green energy, conservation and recreational activities, and housing. Specific details can be found in cleanup strategies of the individual sites. The last Installation Restoration Program (IRP) parcel is scheduled to be transferred in 2012. The last Military Munitions Response Program (MMRP) parcel is scheduled to be transferred in 2015.



## Land Use Control (LUC) Summary

LUC title: Ash IC

Site(s): SEAD-006

ROD/DD title: Ash Landfill ROD

Location of LUC

West central portion of conservation area

Land Use Restriction: Media specific restriction - prohibit use of groundwater for consumption or domestic purposes

Types of Engineering Controls: None

Types of Institutional Controls: Deed Restrictions

Date in Place: 200501

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: Installation

Record of LUC: FOST

Documentation Date: N/A

LUC Enforcement: Annual Inspections, 5 Year Reviews

Contaminants: VOC

Additional Information

N/A

LUC title: Deact IC

Site(s): SEAD-001-R-01

ROD/DD title: Deactivation Furnaces

Location of LUC

Groundwater restriction in the PID Area

Land Use Restriction: Media specific restriction - prohibit use of groundwater for consumption or domestic purposes, Restrict land use - No daycare/hospital/school use, Restrict land use - No residential use

Types of Engineering Controls: None

Types of Institutional Controls: Deed Restrictions

Date in Place: 200509

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: Installation

Record of LUC: FOST

Documentation Date: N/A

LUC Enforcement: Annual Inspections, 5 Year Reviews

Contaminants: METALS, Unexploded Ordnance(UXO)

Additional Information

N/A

## Land Use Control (LUC) Summary

LUC title: FTA IC

Site(s): SEAD-025

ROD/DD title: Fire Training Areas DD

Location of LUC

PID AREA

Land Use Restriction: Media specific restriction - prohibit use of groundwater for consumption or domestic purposes

Types of Engineering Controls: None

Types of Institutional Controls: Deed Restrictions

Date in Place: 200609

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: Local Redevelopment Authority

Record of LUC: FOST

Documentation Date: N/A

LUC Enforcement: Annual Inspections, 5 Year Reviews

Contaminants: PETROLEUM HYDROCARBON, VOC

Additional Information

N/A

LUC title: LUC for SEAD 121

Site(s): SEAD-121

ROD/DD title: EBS Industrial Area

Location of LUC

PID Area

Land Use Restriction: 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, Media specific restriction - restrict withdrawal or use of groundwater w/out treatment, Restrict land use - No daycare/hospital/school use, Restrict land use - No residential use

Types of Engineering Controls: None

Types of Institutional Controls: Affirmative easements appurtenant, Deed Notices, Restrictions on Groundwater Withdrawal, Restrictions on land use, Zoning

Date in Place: 200809

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: Local Redevelopment Authority

Record of LUC: FOST

Documentation Date: 200806

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

Contaminants: METALS, PAH

Additional Information

N/A

## Land Use Control (LUC) Summary

LUC title: PID LUC

Site(s): SEAD-009, SEAD-027, SEAD-043, SEAD-044, SEAD-052, SEAD-056, SEAD-062, SEAD-066, SEAD-067, SEAD-069, SEAD-64A

ROD/DD title: Multiple Sites Rod With Risk Assessment

Location of LUC

LUC for PID and Prison parcels

Land Use Restriction: 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, Media specific restriction - restrict withdrawal or use of groundwater w/out treatment, Restrict land use - No daycare/hospital/school use, Restrict land use - No residential use

Types of Engineering Controls: None

Types of Institutional Controls: Deed Restrictions, Local Use ordinances, Restrictions on Groundwater Withdrawal, Restrictions on land use, Zoning

Date in Place: 200802

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: Installation

Record of LUC: FOST

Documentation Date: 200609

LUC Enforcement: Annual Inspections, 5 Year Reviews, Other

Contaminants: METALS, PAH

Additional Information

N/A

LUC title: PID LUC

Site(s): SEAD-64A

ROD/DD title: PID IC ROD

Location of LUC

PID/WHSE area as discribed in reuse plan

Land Use Restriction: Restrict land use - No daycare/hospital/school use, Restrict land use - No residential use

Types of Engineering Controls: None

Types of Institutional Controls: Deed Restrictions

Date in Place: 200509

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: Installation

Record of LUC: FOST

Documentation Date: N/A

LUC Enforcement: Annual Inspections, 5 Year Reviews

Contaminants: METALS, PESTICIDES, VOC

Additional Information

N/A

## Land Use Control (LUC) Summary

LUC title: PID/WHSE IC

Site(s): SEAD-013, SEAD-039, SEAD-040, SEAD-067

ROD/DD title: NFA/IC sites II

Location of LUC

PID and Whse Area and the East Central portion of Installation

Land Use Restriction: Media specific - Prohibit activities that results in contact with contaminated sediments, Media specific restriction - prohibit use of groundwater for consumption or domestic purposes

Types of Engineering Controls: None

Types of Institutional Controls: Deed Restrictions, Zoning

Date in Place: 200609

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: Local Redevelopment Authority

Record of LUC: FOST

Documentation Date: N/A

LUC Enforcement: Annual Inspections, 5 Year Reviews

Contaminants: NITRATE/NITRITE, PAH

Additional Information

N/A

LUC title: Paint Disposal Area LUC

Site(s): SEAD-059, SEAD-071

ROD/DD title: Paint Disposal Areas ROD

Location of LUC

PID area

Land Use Restriction: Restrict land use - No daycare/hospital/school use, Restrict land use - No residential use

Types of Engineering Controls: None

Types of Institutional Controls: Deed Restrictions, Restrictions on land use, Zoning

Date in Place: 200609

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: Local Redevelopment Authority

Record of LUC: FOST

Documentation Date: N/A

LUC Enforcement: Annual Inspections, 5 Year Reviews

Contaminants: METALS, PAH

Additional Information

N/A

## Land Use Control (LUC) Summary

LUC title: SEAD 1,2,5

Site(s): SEAD-001, SEAD-002, SEAD-005

ROD/DD title: Rad site, SEAD-48

Location of LUC

PID AREA

Land Use Restriction: Media specific restriction - prohibit use of groundwater for consumption or domestic purposes, Media specific restriction - restrict withdrawal or use of groundwater for agricultural/irrigation purposes, Media specific restriction - restrict withdrawal or use of groundwater w/out treatment, Restrict land use - No daycare/hospital/school use, Restrict land use - No residential use

Types of Engineering Controls: None

Types of Institutional Controls: Affirmative easements in gross, Deed Restrictions, Zoning

Date in Place: 200909

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: Local Redevelopment Authority

Record of LUC: FOST

Documentation Date: 200909

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

Contaminants: METALS, PAH

Additional Information

N/A

LUC title: VAPOR INTRUSION SEAD 12

Site(s): SEAD-012

ROD/DD title: SEAD 12 RAD site ROD

Location of LUC

SEAD 12 BUILDING 813/814

Land Use Restriction: Restrict land use - Mitigation area(s) protection

Types of Engineering Controls: None

Types of Institutional Controls: Deed Restrictions, Restrictive covenants, Zoning

Date in Place: 200909

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: State

Record of LUC: FOST

Documentation Date: N/A

LUC Enforcement: Annual Inspections, 5 Year Reviews

Contaminants: VOC

Additional Information

N/A

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# SENECA ARMY DEPOT ACTIVITY

Base Realignment and Closure  
Installation Restoration Program

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## BRAC-IRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) BRAC Sites/Response Complete (RC)

BRAC Sites\*: 72/69

Sites planned for RIP for FY2010

Site ID	Site Name	Month
N/A		

Sites planned for RC for FY2010

Site ID	Site Name	Month
N/A		

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

- 1 Burn Area  
(SEAD-024)
- 1 Contaminated Fill  
(SEAD-059)
- 1 Disposal Pit/Dry Well  
(SEAD-013)
- 1 Fire/Crash Training Area  
(SEAD-025)
- 2 Landfill  
(SEAD-006, SEAD-009)
- 1 Radioactive Waste Area  
(SEAD-012)
- 1 Storage Area  
(SEAD-005)
- 2 Surface Disposal Area  
(SEAD-004, SEAD-011)

Most Widespread Contaminants of Concern\*

Metals, Nitrate/Nitrite, Radionuclides, Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern\*

Groundwater, Soil, Surface Water

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

Site ID	Site Name	Action	Remedy	FY	Cost
SEAD-030	UST BUILDING 118 POL	FRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1993	TBD
SEAD-006	ASH LANDFILL (SEAD- 3,6,8,14,15)	IRA	OTHER	1995	TBD
SEAD-059	FILL AREA WEST 135	IRA	REMOVAL	2003	TBD
SEAD-027	BLDG 360 STEAM CLEANING WASTE TANK	FRA	INSTITUTIONAL CONTROLS	2005	TBD
SEAD-050	TANK FARM	IRA	REMOVAL	2005	TBD
SEAD-005	SEWAGE SLUDGE WASTE PILES	IRA	REMOVAL	2006	TBD
SEAD-006	ASH LANDFILL (SEAD- 3,6,8,14,15)	FRA	GROUND WATER TREATMENT	2006	TBD
SEAD-024	ABANDONED POWDER BURNING PIT	IRA	REMOVAL	2006	TBD
SEAD-025	FIRE TRAINING AND DEMO PAD	FRA	REMOVAL	2006	TBD
SEAD-039	BOILER PLANT BLOWDOWN PITS BUILDING 121	IRA	REMOVAL	2006	TBD

## BRAC-IRP Summary

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

Site ID	Site Name	Action	Remedy	FY	Cost
SEAD-063	MISCELLANEOUS COMPONENTS BURIAL SITE	IRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	2006	TBD
SEAD-067	DUMP SITE EAST OF STP #4	IRA	REMOVAL	2006	TBD
SEAD-011	OLD CONSTRUCTION DEBRIS LANDFILL	IRA	WASTE REMOVAL - SOILS	2008	TBD
SEAD-013	IRFNA DISPOSAL SITE (6)	FRA	INSTITUTIONAL CONTROLS	2008	TBD
SEAD-004	MUNITIONS WASHOUT FACILITY LEACH FIELD	FRA	OTHER	2009	TBD

### Total BRAC-IRP Funding

Prior Funding:	\$89,874.8 K
Current Requirements:	\$667.0 K
Future Requirements:	\$7,180.0 K

### Duration of BRAC-IRP

Date of BRAC-IRP Inception:	197901
Date for Remedy-In-Place (RIP)/Response Complete (RC):	201009/202201
Date of BRAC-IRP completion including Long Term Management (LTM):	205201

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

## BRAC-IRP Contamination Assessment

### Contamination Assessment Overview

SEDA was added to the NPL in 1989. The Federal Facilities Agreement (FFA) between the USEPA, the state of New York, and the Army was signed in 1993. Seneca's mission before BRAC included the responsibility to receive, store, distribute, maintain, and demilitarize conventional ammunition, explosives, and special weapons; store, maintain, and issue general supplies, including hazardous materials. The major contaminants found on the installation include chlorinated solvents, radioactive isotopes, heavy metals, and petroleum hydrocarbons. The media affected by those contaminants includes groundwater, surface water, sediment, and soil.

Previous investigations completed in 1993 identified 72 solid waste management units (SWMUs). The environmental baseline study completed in 1996 added two additional sites that were identified as AOCs. Twenty-two operable units (OU) address the 74 AOCs. These sites are generally categorized as landfills, munitions open burning and open detonation (OB/OD) grounds, refuse burning sites, dump sites, burial pits, spills, and FTAs. The final remedy is expected to be in place September 2013, subject to funding availability. LTM is expected to last for 30 years. Institutional controls (ICs) restricting certain types of development will last indefinitely.

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# SENECA ARMY DEPOT ACTIVITY

## Installation Restoration Program

### Site Descriptions

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Site Name: MUNITIONS WASHOUT FACILITY LEACH FIELD

**STATUS**

Parcel: LRA 2B (76 acres)  
Regulatory Driver: CERCLA  
RRSE: HIGH  
Program: BRAC-IRP  
Contaminants of Concern: Metals  
Media of Concern: Soil  
BRAC Round: BRAC IV

Phases	Start	End
PA.....	197905.....	198001
SI.....	199106.....	199512
RI/FS.....	199503.....	200809
RA(C).....	200602.....	200907
LTM.....	200909.....	201309

RIP Date: N/A  
RC Date: 200907

**SITE DESCRIPTION**

SEAD-004 is the munitions washout facility located in the southwestern portion of SEDA and was part of the ammunition workshop facility covering roughly 30 acres of developed and undeveloped areas. During the years that the munitions washout building was operating, the ammunition workshop facility consisted of eleven buildings. Four buildings were demolished.

A man-made lagoon approximately 150 feet in diameter was created for the purpose of containing wastewater. Within the past eight years, the pond was widened and deepened with a bulldozer. Pond sediment was pushed southwest of the pond to a 400 foot by 150 foot area adjacent to the pond. There are no known records of its full excavation beyond this dredging and it is assumed not to have a liner.

The expanded site investigation (ESI) conducted at SEAD-004 in 2005 consisted of geophysics, soil sampling, test pitting, monitoring well installation, groundwater sampling, surface water and sediment sampling.

The ESI indicated that the surface and subsurface soils have been impacted by antimony, copper, chromium and zinc at concentrations significantly above their respective screening values. A baseline ecological risk assessment showed unacceptable risk to the mourning dove.

Work conducted at SEAD-004 also includes SEAD-038 Boiler Plant Blowdown Pit at Building 2079.

**CLEANUP/EXIT STRATEGY**

The ROD completed in 2008 recommended soil excavation and disposal. A performance-based acquisition (PBA) was procured to take this site through RC. The remedial action - construction [RA(C)] phase included RD as part of the PBA.

LTM includes the removal of groundwater monitoring wells and the preparation of site closeout documentation.



### STATUS

Parcel: LRA 1/PID (21 acres)

Regulatory Driver: CERCLA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Metals

Media of Concern: Soil

BRAC Round: BRAC IV

Phases	Start	End
PA.....	199008.....	199307
SI.....	199008.....	199409
RI/FS.....	200106.....	200909
IRA.....	200106.....	200605
LTM.....	201010.....	201109

RIP Date: N/A

RC Date: 200909

### SITE DESCRIPTION

This site is a result of the storage of domestic sewage sludge from the drying beds at Sewage Treatment Plants (STP) No. 4 and No. 715. The storage area typically covered 220 feet by 110 feet and use began in the 1980s.

Investigation results have revealed that the sludge material contains elevated levels of heavy metals. An IRA is complete. A proposed remedial action plan (PRAP) and a ROD with LUCs are being prepared. A no digging restriction will be placed on this site as a result of the excavated soils placed there from SEAD-059. A LUC associated with this site will be accomplished as part of the SEAD-009 LUC administration.

### CLEANUP/EXIT STRATEGY

A ROD has been prepared recommending a cover be placed on the site to protect contact with the remaining soil. LTM includes site closeout documentation and maintaining LUC.



Site ID: SEAD-006

Site Name: ASH LANDFILL (SEAD-3,6,8,14,15)

## STATUS

Parcel: LRA 1B (45.24 acres)

Regulatory Driver: CERCLA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Metals, Volatiles (VOC)

Media of Concern: Groundwater, Soil

BRAC Round: BRAC IV

Phases	Start	End
PA.....	198009.....	198707
SI.....	198809.....	198907
RI/FS.....	198910.....	199410
RD.....	199804.....	200609
IRA.....	199409.....	199506
RA(C).....	200109.....	200612
RA(O).....	200701.....	202201
LTM.....	202202.....	205201

RIP Date: 200701

RC Date: 202201

## SITE DESCRIPTION

The Ash Landfill OU (Ash Landfill) occupies approximately 130 acres along the western boundary of SEDA. The Ash Landfill is composed of five SWMUs:

- the Incinerator Cooling Water Pond (SEAD-003),
- the Ash Landfill (SEAD-006),
- the Non-Combustible Fill Landfill (NCFL) (SEAD-008),
- the Refuse Burning Pits (SEAD-014), and
- the Abandoned Solid Waste Incinerator Building (SEAD-015).

Primary contaminants are VOCs, SVOCs [mainly polycyclic aromatic hydrocarbons (PAHs)] and metals. The source of the VOCs was most likely the three alleged solvent dump areas located northwest of the Ash Landfill site.

Two removal actions have been performed at the Ash Landfill. The first action removed a former 1,000-gallon heating oil underground storage tank (UST) and the second was a non-time critical removal action conducted between August 1994 and June 1995. The latter consisted of excavation and thermal treatment of VOC-impacted soils using the low temperature thermal desorption process.

A ROD was signed in 2004 that included the RAs of excavation and off-site disposal of debris piles, establishment and maintenance of a vegetative soil cover for the Ash Landfill and the NCFL, and installation of three in situ permeable reactive barrier walls.

This site includes SEAD-003, SEAD-008, SEAD-014, and SEAD-015 for tracking purposes.

The Army Management Structure (AMS) code is 61366R33.

## CLEANUP/EXIT STRATEGY

The RA(O) includes monitoring and five-year reviews until groundwater cleanup standards have been met, followed by site closeout documentation. LTM includes maintaining LUCs.

The ramp-down strategy is detailed in the LTM plan. This plan contains provisions to reduce monitoring requirements as cleanup goals are met.

Site Name: MULT NFA SITES (OLD SCRAP WD PILE)

**STATUS**

Parcel: PID Transfer (967 acres)

Regulatory Driver: CERCLA

RRSE: LOW

Program: BRAC-IRP

Contaminants of Concern: Metals

Media of Concern: Soil

BRAC Round: BRAC IV

Phases	Start	End
PA.....	197905.....	198001
SI.....	199408.....	199409
RI/FS.....	199907.....	200709
LTM.....	200710.....	204010

RIP Date: N/A

RC Date: 200709

**SITE DESCRIPTION**

The Old Scrap Wood Site (SEAD-009) is located in the eastern-central portion of the depot where future land use has been designated as industrial development. All sites associated with SEAD-009 have been consolidated for LUC implementation.

The Army proposed SEAD-009 as a moderately low priority AOC and this recommendation was documented in the final SWMU classification report.

A No Action ROD signed September 2003 includes the following:

- SEAD-007,
- SEAD-009,
- SEAD-010,
- SEAD-018,
- SEAD-019,
- SEAD-020,
- SEAD-021,
- SEAD-022,
- SEAD-033,
- SEAD-035,
- SEAD-036,
- SEAD-037,
- SEAD-042,
- SEAD-049,
- SEAD-051,
- SEAD-053,
- SEAD-055,
- SEAD-065, and
- SEAD-068.

A No Action ROD which includes SEAD-058 was signed in September 2006.

The ROD for sites requiring ICs in the planned industrial/office development or warehousing areas was signed Sept. 28, 2004 and includes SEAD-027, SEAD-066 and SEAD-64A.

The ROD for the following seventeen SWMUs requiring LUCs was signed on July 3, 2007:

- SEAD-013,
- SEAD-039,
- SEAD-040,
- SEAD-041,
- SEAD-043/056/069,
- SEAD-044A,
- SEAD-044B,
- SEAD-052,

Site ID: SEAD-009

Site Name: MULT NFA SITES (OLD SCRAP WD PILE)

- SEAD-062,
- SEAD-64B,
- SEAD-64C,
- SEAD-64D,
- SEAD-067,
- SEAD-122B, and
- SEAD-122E).

## CLEANUP/EXIT STRATEGY

LTM includes maintaining LUCs and preparing site closeout documentation.

Site Name: OLD CONSTRUCTION DEBRIS LANDFILL

**STATUS**

Parcel: LRA 3 (7.75 acres)

Regulatory Driver: CERCLA

RRSE: HIGH

Program: BRAC-IRP

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

Media of Concern: Groundwater, Soil

BRAC Round: BRAC IV

Phases	Start	End
PA.....	198001.....	198803
SI.....	199010.....	199512
RI/FS.....	199503.....	201009
IRA.....	200502.....	200809

RIP Date: N/A

RC Date: 201009

**SITE DESCRIPTION**

SEAD-011 is an abandoned landfill located in the southwestern portion of SEDA covering approximately four acres (590 feet by 300 feet). Soil analytical results showed that acetone, trichloroethene (TCE), and SVOCs were found at concentrations above the screening criteria. The results of the groundwater sampling program at SEAD-011 indicate that aluminum, antimony, iron, manganese, sodium, and thallium were present in individual wells at concentrations above screening criteria.

An action memorandum was prepared recommending a non-time critical removal action to address contaminants that have been identified in the soil that represent a potential threat to the environment and neighboring populations. The removal action was originally planned as a time critical removal action; however, since potential reuse of neighboring areas has been slower than originally anticipated, a non-time critical removal action is more appropriate. The presence of drums and other containers and the uncertainty of their contents is justification for a removal action at the site. Fieldwork has been completed. An NFA PRAP and ROD were initiated in fiscal year (FY)08.

**CLEANUP/EXIT STRATEGY**

The interim removal action field work has been completed and an NFA determination is planned for submittal.

LTM includes site closeout documentation.

A PBA has been procured to take this site through RC.



Site ID: SEAD-012

Site Name: RADIOACTIVE BURIAL SITES (3)

### STATUS

Parcel: LRA 4 (49 acres)  
Regulatory Driver: CERCLA  
RRSE: HIGH  
Program: BRAC-IRP  
Contaminants of Concern: Metals, Volatiles (VOC)  
Media of Concern: Groundwater, Soil, Surface Water  
BRAC Round: BRAC IV

Phases	Start	End
PA.....	197905.....	198001
SI.....	199310.....	199409
RI/FS.....	199503.....	201009
RA(C).....	200908.....	201009
LTM.....	201009.....	204010

RIP Date: N/A

RC Date: 201009

### SITE DESCRIPTION

This site consists of the former special weapons storage area at the north end of the installation. Three areas within the special weapons area were used to bury classified components.

Buildings 813 and 814 were constructed in the 1950s and primarily used for painting operations. A supplemental remedial investigation (SRI) was conducted based on the recommendations from the RI/FS conducted from 1995 through 1999 due to elevated TCE in groundwater adjacent to the building, and further investigation of EM-5, miscellaneous material burial pit, was recommended to further evaluate elevated levels of lead-210 (Pb-210) detected in soil samples.

In FY05 a soil removal action was conducted at the northeast corner of Building 813 with confirmatory samples indicating no VOC concentrations above soil screening criteria. Additional soil samples collected at EM-5 showed Pb-210 to be within screening criteria. Results of the RI indicate no unacceptable risk to human health and the environment.

The third area, SEAD-072 Mixed Waste Storage Building, regulated under the Interim Status Hazardous Waste Permit will be closed out and incorporated into the ROD for SEAD-012.

This site is combined with SEAD-63 for funding; the AMS code is 61366R32.

### CLEANUP/EXIT STRATEGY

The RI/FS was completed in FY08. The planned RA consists of the removal and disposal of classified components followed by LTM. LTM will include site closeout documentation.

## STATUS

Parcel: NONE

Regulatory Driver: CERCLA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Nitrate/Nitrite

Media of Concern: Groundwater

BRAC Round: BRAC IV

Phases	Start	End
PA.....	197905.....	198001
SI.....	199106.....	199512
RI/FS.....	199503.....	200708
RA(C).....	200808.....	200809
RA(O).....	200808.....	200809
LTM.....	200810.....	201009

RIP Date: 200809

RC Date: 200809

## SITE DESCRIPTION

The Inhibited Red Fuming Nitric Acid (IRFNA) Disposal Site is located in the northeastern portion of SEDA and includes two IRFNA disposal areas, SEAD-13-East and SEAD-13-West, located on the eastern and western sides of the south end of the Duck Pond, respectively. SEAD-13-East consists of six elongated disposal pits generally 20 to 30 feet long, oriented east to west, and marked by sparse vegetation, crushed shale and one inch limestone pieces at the surface. Vertical water and shower pipes are located west of the pits. This site was used by the Army to neutralize IRFNA, a liquid propellant constituent. The acid was poured into a trench filled with limestone and water and was neutralized. The process resulted in nitrogen compounds being introduced into the groundwater.

An ESI was conducted from 1993 to 1994 followed by supplemental sampling from 2000 to 2002. Results of field investigations identified four wells at SEAD-13-East with nitrate/nitrite-nitrogen concentrations above the NYS Ambient Water Quality Standard (AWQS) for groundwater classified as GA. A 2004 decision document (DD) recommended that RA for soil, sediment, and surface water was not required and instituting groundwater use restriction to prevent the ingestion of groundwater is required until contaminant concentrations meet the NYSDEC Class GA groundwater standards and the USEPA maximum contaminant levels (MCLs). This site is associated with SEAD-009 for LTM.

## CLEANUP/EXIT STRATEGY

The RI/FS will be followed by submission of an IC PRAP/ROD. RA(O) will be required for natural attenuation until groundwater cleanup goals are met. LTM for this site will be accomplished under Site SEAD 009. Five-year reviews will evaluate the need for continued groundwater monitoring. Once cleanup goals are met, site closeout documentation will be prepared.

Site ID: SEAD-024

Site Name: ABANDONED POWDER BURNING PIT

## STATUS

Parcel: LRA 1/PID (21 acres)

Regulatory Driver: CERCLA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Metals

Media of Concern: Soil

BRAC Round: BRAC IV

Phases	Start	End
PA.....	198902.....	199102
SI.....	199106.....	199512
RI/FS.....	199903.....	200905
IRA.....	199903.....	200605
LTM.....	200910.....	201011

RIP Date: N/A

RC Date: 200905

## SITE DESCRIPTION

SEAD-024, located in the western portion of SEDA, is a closed 1.2-acre site. This site was used from the late 1940s to the early 1950s to burn black powder and propellants. Investigation shows heavy metals contamination in the soil.

This site is combined with SEAD-050, SEAD-054, and SEAD-067 for tracking purposes. SEAD-050/054 is RC.

The AMS Code is 61366R37.

## CLEANUP/EXIT STRATEGY

The RI/FS and ROD will be completed in FY09. LTM includes site closeout documentation.

## STATUS

Parcel: LRA 1/PID (21 acres)

Regulatory Driver: CERCLA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Metals, Polycyclic Aromatic Hydrocarbons (PAH), Volatiles (VOC)

Media of Concern: Groundwater, Soil

BRAC Round: BRAC IV

Phases	Start	End
PA.....	199002.....	199102
SI.....	199106.....	199512
RI/FS.....	199503.....	200010
RD.....	199909.....	200510
RA(C).....	200502.....	200607
LTM.....	200608.....	204005

RIP Date: N/A

RC Date: 200607

## SITE DESCRIPTION

For tracking purposes, SEAD-025 is combined with SEAD-026.

The Fire Training and Demonstration Pad (SEAD-025) is located in the east-central portion of SEDA covering roughly 7.6 acres and was in use from the late 1960s to the late 1980s. During the 1980s the pad was used twice for fire fighting demonstrations, once in 1982 or 1983 and again in 1987. Results of the 1998 RI indicated the site soil had been impacted by VOCs and SVOCs due to past fire training activities. The presence of VOCs in the soil is considered to be the source of groundwater impacts that will be mitigated through the removal of the soil.

The 2003 ROD proposed to remove impacted soil and institute LUCs. This action was conducted in 2005.

The Fire Training Pit and Area (SEAD-026) is located in the southeastern portion of SEDA and covers approximately 8.2 acres. SEAD-026 was in use from 1977 to 1994 and was used one to four times a year for fire fighting training during which time various flammable materials were floated on water, ignited, and extinguished. Prior to 1977 the FTA may have also been used for fire demonstrations. On-site soils have been impacted by elevated levels of PAHs and groundwater has been impacted by VOCs. As with SEAD-025, the 2003 ROD proposed to excavate impacted soil and treat groundwater entering the excavation. The remedy was designed to restore the site to unrestricted use. The RA which consisted of a soil removal was completed in FY06 and groundwater monitoring started.

The AMS Code is 61366R29.

## CLEANUP/EXIT STRATEGY

LTM will consist of groundwater monitoring, five-year reviews, and LUCs.

The ramp-down strategy is detailed in the LTM plan. This plan contains provisions to reduce monitoring requirements as cleanup conditions are met.

Site ID: SEAD-059  
Site Name: FILL AREA WEST 135

**STATUS**

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

Phases	Start	End
PA.....	199008.....	199307
SI.....	199310.....	199409
RI/FS.....	199503.....	200904
IRA.....	200109.....	200304
LTM.....	200909.....	203909

RIP Date: N/A  
RC Date: 200904

**SITE DESCRIPTION**

SEAD-059 is a former fill area of about six acres located west of Building 135. It was used to dispose of concrete, asphalt, metal, wood, chain link fence, paint cans and 55-gallon drums.

A 2002 action memorandum outlined the objectives of the time critical removal action which included the removal of metal debris, paint cans and drums. The TCRA was conducted between September 2002 and November 2002.

An RI has been prepared which demonstrates that there is no unacceptable risk from this site for an industrial setting. A no digging restriction will be required for the excavated soil remaining on site and deposited on SEAD-005.

This site covers roughly two acres and allegedly was a paint disposal area located near Buildings 114 and 127.

For tracking purposes, SEAD-071 is combined with this site. The AMS Code is 61366R41. LUCs will become part of SEAD-027 ICs.

**CLEANUP/EXIT STRATEGY**

The FS will be followed by an IC PRAP and ROD in FY09. LTM includes site closeout documentation and maintenance of LUCs.

## BRAC-IRP Schedule

Date of BRAC-IRP Inception: 197901

### 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
SEAD-011	OLD CONSTRUCTION DEBRIS LANDFILL	SEAD 11 Old Construction Debris LF	20100130
SEAD-012	RADIOACTIVE BURIAL SITES (3)	SEAD 12 RAD site ROD	20100228
SEAD-072	BUILDING 803- MIXED WASTE STORAGE	SEAD 12 RAD site ROD	20100228


Final RA(C) Completion Date: 201009

NPL Deletion Date: N/A

Schedule for Next Five-Year Review: 2010

Estimated Completion Date of BRAC-IRP at Installation (including LTM phase): 205201

# SENECA ARMY DEPOT ACTIVITY BRAC-IRP Schedule

 = phase underway

SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
SEAD-004	MUNITIONS WASHOUT FACILITY LEACH FIELD	PA						
		SI						
		RI/FS						
		RA(C)						
		LTM						

SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
SEAD-005	SEWAGE SLUDGE WASTE PILES	PA						
		SI						
		RI/FS						
		IRA						
		LTM						

SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
SEAD-006	ASH LANDFILL (SEAD-3,6,8,14,15)	PA						
		SI						
		RI/FS						
		RD						
		IRA						
		RA(C)						
		LTM						

SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
SEAD-009	MULT NFA SITES (OLD SCRAP WD PILE)	PA						
		SI						
		RI/FS						
		LTM						

SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
SEAD-011	OLD CONSTRUCTION DEBRIS LANDFILL	PA						
		SI						
		RI/FS						
		IRA						

SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
SEAD-012	RADIOACTIVE BURIAL SITES (3)	PA						
		SI						
		RI/FS						
		LTM						

## SENECA ARMY DEPOT ACTIVITY BRAC-IRP Schedule

SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
SEAD-013	IRFNA DISPOSAL SITE (6)	PA						
		SI						
		RI/FS						
		RA(C)						
		RA(O)						
		LTM						
SEAD-024	ABANDONED POWDER BURNING PIT	PA						
		SI						
		RI/FS						
		IRA						
		LTM						
		SEAD-025	FIRE TRAINING AND DEMO PAD	PA				
SI								
RI/FS								
RD								
RA(C)								
LTM								
SEAD-059	FILL AREA WEST 135	PA						
		SI						
		RI/FS						
		IRA						
		LTM						



## BRAC-IRP Costs

Total Funding through FY2004:       \$79,972.0 K  
(Includes ER,A funding from FY04 and prior years.)

Prior Funding

FY	Phase	BRAC Round	Site ID	Obligations	FY Total
2005	IRA		SEAD-011	\$6,615.0 K	\$7,919.0 K
			RA(C)	SEAD-006	
	RI		SEAD-025	\$1,135.0 K	
			SEAD-005	\$15.0 K	
			SEAD-009	\$41.0 K	
			SEAD-012	\$46.0 K	
			SEAD-013	\$37.0 K	
2006	IRA		SEAD-121	\$300.0 K	\$810.0 K
	RI		SEAD-012	\$510.0 K	
2007	LTM	BRAC IV	SEAD-023	\$72.0 K	\$614.8 K
			SEAD-025	\$89.0 K	
	RA(C)		SEAD-004	\$27.8 K	
			SEAD-006	\$102.5 K	
			SEAD-013	\$95.0 K	
	RI		SEAD-005	\$56.5 K	
			SEAD-009	\$72.7 K	
			SEAD-024	\$35.4 K	
			SEAD-039	\$13.9 K	
			SEAD-121	\$50.0 K	
2008	LTM	BRAC IV	SEAD 005	\$9.0 K	\$559.0 K
			SEAD 009	\$9.0 K	
			SEAD 023	\$72.0 K	
			SEAD 039	\$9.0 K	
			SEAD 048	\$46.0 K	
			SEAD 059	\$9.0 K	
			SEAD 25	\$68.0 K	
			SEAD 27	\$9.0 K	
			SEAD24	\$46.0 K	
			RA-O	SEAD -006	
	SEAD 013			\$95.0 K	

TOTAL PRIOR FUNDING:       \$89,874.8 K

Current Requirements

BRAC IV

FY	Phase	Site ID	Requirements	FY Total
2009	LTM	SEAD-005	\$9.0 K	\$667.0 K
		SEAD-006	\$8.0 K	
		SEAD-009	\$73.0 K	
		SEAD-011	\$55.0 K	
		SEAD-024	\$47.0 K	
		SEAD-025	\$46.0 K	

## BRAC-IRP Costs

	SEAD-025	\$46.0 K
	SEAD-048	\$46.0 K
	SEAD-059	\$29.0 K
	SEAD-121	\$3.0 K
RA(O)	SEAD-006	\$192.0 K
	SEAD-013	\$113.0 K

TOTAL CURRENT REQUIREMENTS      \$667.0 K

Future Requirements - BRAC IV              \$7,180.0 K

Total Future Requirements              \$7,180.0 K

TOTAL PROGRAM COST:      \$97,721.8 K

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

Required Cost-to-Complete

RAC IV

SITE ID	SITE NAME		Required Cost-to-Complete					Out Yrs	Total
	Phase	FY10	FY11	FY12	FY13	FY14	FY15		
ACTIVITY									
SEAD-004	MUNITIONS WASHOUT FACILITY LEACH FIELD								
	LTM				91				91
								Site Total	91
SEAD-005	SEWAGE SLUDGE WASTE PILES								
	LTM		61						61
								Site Total	61
SEAD-006	ASH LANDFILL (SEAD-3,6,8,14,15)								
	RA(O)	216	216	263	221	218	216		1622
	LTM								521
								Site Total	3493
SEAD-009	MULT NFA SITES (OLD SCRAP WD PILE)								
	LTM	18	18	51	19	18	18		660
								Site Total	802
SEAD-012	RADIOACTIVE BURIAL SITES (3)								
	RI/FS								
	RA(C)	708							708
	LTM		77	15	8	8	3		96
								Site Total	915
SEAD-024	ABANDONED POWDER BURNING PIT								
	LTM	66	3						69
								Site Total	69
SEAD-025	FIRE TRAINING AND DEMO PAD								
	LTM	75	75	104	75	75	75		681
								Site Total	1160
SEAD-059	FILL AREA WEST 135								
	LTM	84	18	17	17	17	21		415
								Site Total	589
Totals		1167	468	450	431	336	333		3995
								Site Total	7180

Programmed Cost-to-Complete

BRAC IV

SITE ID	SITE NAME		FY10	FY11	FY12	FY13	FY14	FY15	Out Yrs	Total
	Phase	ACTIVITY								
SEAD-004	MUNITIONS WASHOUT FACILITY LEACH FIELD									
	LTM		0	0	0	91	0	0	0	91
									Site Total	91
SEAD-005	SEWAGE SLUDGE WASTE PILES									
	LTM		0	61	0	0	0	0	0	61
									Site Total	61
SEAD-006	ASH LANDFILL (SEAD-3,6,8,14,15)									
	RA(O)		216	216	263	221	218	216	1622	2972
	LTM		0	0	0	0	0	0	521	521
									Site Total	3493
SEAD-009	MULT NFA SITES (OLD SCRAP WD PILE)									
	LTM		18	18	51	19	18	18	660	802
									Site Total	802
SEAD-012	RADIOACTIVE BURIAL SITES (3)									
	RI/FS									
	RA(C)		708	0	0	0	0	0	0	708
	LTM		0	15	8	8	77	3	96	207
									Site Total	915
SEAD-024	ABANDONED POWDER BURNING PIT									
	LTM		66	3	0	0	0	0	0	69
									Site Total	69
SEAD-025	FIRE TRAINING AND DEMO PAD									
	LTM		75	75	104	75	75	75	681	1160
									Site Total	1160
SEAD-059	FILL AREA WEST 135									
	LTM		84	18	17	17	17	21	415	589
									Site Total	589
<b>Totals</b>			1167	406	443	431	405	333	3995	7180
									Site Total	7180





# SENECA ARMY DEPOT ACTIVITY

Base Realignment and Closure  
Military Munitions Response Program

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## BRAC-MMRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) BRAC Sites/Response Complete (RC)

BRAC Sites\*: 13/9

Sites planned for RIP for FY2010

Site ID	Site Name	Month
N/A		

Sites planned for RC for FY2010

Site ID	Site Name	Month
N/A		

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

- 1 Explosive Ordnance Disposal Area  
(SEAD-002-R-01)
- 2 Firing Range  
(SEAD-003-R-01, SEAD-007-R-01)
- 1 Incinerator  
(SEAD-001-R-01)
- 1 Open Burn  
(SEAD-006-R-01)

Most Widespread Contaminants of Concern\*

Metals, Munitions and explosives of concern (MEC), Munitions constituents (MC), Semi-volatiles (SVOC)

Media of Concern\*

Groundwater, Soil

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

Site ID	Site Name	Action	Remedy	FY	Cost
SEAD-001-R-01	DEACTIVATION FURNACES	FRA	INSTITUTIONAL CONTROLS	2008	TBD
SEAD-001-R-01	DEACTIVATION FURNACES	FRA	WASTE REMOVAL - SOILS	2008	TBD
SEAD-007-R-01	RIFLE GRENADE RANGE	IRA	REMOVAL	2008	TBD

Total BRAC-MMRP Funding

Prior Funding:	\$11,183.4 K
Current Requirements:	\$9.0 K
Future Requirements:	\$21,843.0 K

Duration of BRAC-MMRP

Date of BRAC-MMRP Inception:	197905
Date for Remedy-In-Place (RIP)/Response Complete (RC):	201309/201309
Date of BRAC-MMRP completion including Long Term Management (LTM):	204309

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

## BRAC-MMRP Contamination Assessment

### Contamination Assessment Overview

SEDA was added to the NPL in 1989. The FFA between the USEPA, the state of New York, and the Army was signed in 1993. Seneca's mission before BRAC included the responsibility to receive, store, distribute, maintain, and demilitarize conventional ammunition, explosives, and special weapons; store, maintain, and issue general supplies, including hazardous materials. The major contaminants found on the installation include chlorinated solvents, radioactive isotopes, heavy metals, and petroleum hydrocarbons. The media affected by those contaminants include groundwater, surface water, sediment, and soil.

Previous investigations completed in 1993 identified 72 SWMUs. The environmental baseline study completed in 1996 added two additional sites that were identified as AOCs. 22 OUs address the 74 AOCs. These sites are generally categorized as landfills, munitions OB/ODs, refuge burning sites, dump sites, burial pits, spills, and FTAs. The final remedy is expected to be in place September 2013, subject to the availability of funding. LTM is expected to last for 30 years. ICs restricting certain types of development will last indefinitely.





# SENECA ARMY DEPOT ACTIVITY

## Military Munitions Response Program

### Site Descriptions

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Site ID: SEAD-001-R-01  
Site Name: DEACTIVATION FURNACES

**STATUS**

Parcel: LRA 2A (14 acres)  
Regulatory Driver: CERCLA  
Program: BRAC-MMRP  
MRSPP Score: No longer required  
Contaminants of Concern: Metals, Semi-volatiles (SVOC)  
Media of Concern: Soil  
BRAC Round: BRAC IV

Phases	Start	End
PA.....	199901.....	200001
RI/FS.....	200010.....	200609
RD.....	200603.....	200705
RA(C).....	200603.....	200808
LTM.....	200810.....	203809

RIP Date: N/A  
RC Date: 200808

**SITE DESCRIPTION**

Formerly SEAD-016/017, this site includes former and existing popping plants. The Abandoned Deactivation Furnace (SEAD-016), located in the east-central portion of SEDA, consists of 2.6 acres of fenced land with grasslands, a storage area and the building housing the deactivation furnace. The Active Deactivation Furnace (SEAD-017) is located adjacent to and southwest of SEAD-016 and consists of a deactivation furnace building surrounded by a crushed shale road.

Based on the ESI, an RI field program identified lead in building materials and soil and PAHs in the soil at SEAD-016. Lead concentrations in the soil at SEAD-016 were of concern. A final ROD was signed by the regulators on Sept. 29, 2006.

**CLEANUP/EXIT STRATEGY**

A contract is in place to take this site through to RC.

LTM includes LUCs, five-year reviews, and site closeout documentation.

## STATUS

Parcel: LRA 3B (148.8 acres)

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 IV

Phases	Start	End
PA.....	200011.....	200306
RI/FS.....	200110.....	201009
IRA.....	200502.....	201009
LTM.....	201009.....	204009

RIP Date: N/A

RC Date: 201009

## SITE DESCRIPTION

The East Explosive Ordnance Disposal (EOD) Ranges include EOD Range 2 and EOD Range 3. EOD Range 2 covers five acres and is located along the northeastern portion of SEDA within Local Training Area (LTA) 2.

MEC has been found at both sites as a result of record search and site investigations. The RI recommended performing removal actions at the two locations and restricting the land use to surface activity.

## CLEANUP/EXIT STRATEGY

A contract has been procured to take this site through RC.

LTM includes MEC monitoring.



Site ID: SEAD-003-R-01  
Site Name: EOD RANGE 1

## STATUS

Parcel: LRA 5 (88 acres)

Regulatory Driver: CERCLA

Program: BRAC-MMRP

MRSPP Score: Evaluation pending

Contaminants of Concern: Metals, Munitions and explosives of concern (MEC), Munitions constituents (MC)

Media of Concern: Soil

BRAC Round: BRAC IV

Phases	Start	End
PA.....	200111.....	200206
RI/FS.....	200210.....	201003*
RD.....	201009.....	201012
RA(C).....	201009.....	201112
LTM.....	201201.....	204208

RIP Date: N/A

RC Date: 201112

## SITE DESCRIPTION

This range consists of three separate areas: EOD Area 1 (SEAD-057), the Demolition Range, and the Function Test Range. EOD Area 1 occupies 194 acres at the northwest corner of SEDA and was used from 1941 until 1995. The Demolition Range is also located in the northwest portion of SEDA and covers 40 acres. A 2001 engineering evaluation/cost analysis (EE/CA) revealed scrap, but no UXO. The Bazooka Range is located within the Local Training Area 2 (LTA-2) on the eastern side of SEDA and was used as a small arms range from 1941 until 1963.

## CLEANUP/EXIT STRATEGY

A field investigation has been completed and a completion report is being prepared, followed by a ROD with LUCs for MEC. A contract has been procured to take the site through RC.

A soil excavation followed by off-site disposal may be required. LTM includes MEC ICs.

Site Name: OPEN BURN/OPEN DETONATION GROUNDS

**STATUS**

Parcel: LRA 4A (364 acres)

Regulatory Driver: CERCLA

Program: BRAC-MMRP

MRSPP Score: Evaluation pending

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

Media of Concern: Groundwater, Soil

BRAC Round: BRAC IV

Phases	Start	End
PA.....	200111.....	200206
RI/FS.....	200208.....	201309
IRA.....	201003.....	201309
LTM.....	201309.....	204309

RIP Date: N/A

RC Date: 201309

**SITE DESCRIPTION**

The Army destroyed ammunition by detonation and OB at this site, which covers 364 acres and was in operation from 1948 through 1998. The OB ground consists of eight U-shaped earthen berms. The OD grounds are to the north of the OB grounds.

The investigation of this site revealed contamination consisting of OE and heavy metals. This is a RCRA interim permitted site.

This site also encompasses SEAD-023, OB Grounds, where a CERCLA remediation was completed in 2003.

**CLEANUP/EXIT STRATEGY**

Interim MEC removal will be performed and any residual soil contamination will be addressed. The removal action will be followed by an IC PRAP/ROD. LTM includes groundwater monitoring (RCRA required), LUCs, five-year reviews, and site closeout documentation.

Site ID: SEAD-007-R-01  
Site Name: RIFLE GRENADE RANGE

**STATUS**

Parcel: LRA 5 (88 acres)  
Regulatory Driver: CERCLA  
Program: BRAC-MMRP  
MRSPP Score: Evaluation pending  
Contaminants of Concern: Metals, Munitions and explosives of concern (MEC)  
Media of Concern: Soil  
BRAC Round: BRAC IV

Phases	Start	End
PA.....	200211.....	200306
R/FS.....	200410.....	201009
IRA.....	200602.....	200809
LTM.....	201009.....	204009

RIP Date: N/A  
RC Date: 201009

**SITE DESCRIPTION**

This 49-acre site was a training range where 40 millimeter (mm) training grenades and 37mm Land Attack Warfare (LAW) sub-caliber training rounds were fired. This site represents an area where MEC was found as a result of records search and site investigations. It was formerly referred to as SEAD-118.

**CLEANUP/EXIT STRATEGY**

A removal contract has been procured to take the site through RC. Fieldwork has been completed and a completion report is being prepared. A LUC ROD is anticipated to implement ICs. LTM consists of MEC monitoring every two years to maintain LUC.

## BRAC-MMRP Schedule

Date of BRAC-MMRP Inception: 197905

### 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
SEAD-002-R-01	EAST EOD RANGES	SEAD-002-R-01 and SEAD-007-R-01	20100715
SEAD-007-R-01	RIFLE GRENADE RANGE	SEAD-002-R-01 and SEAD-007-R-01	20100715
SEAD-002-R-01	EAST EOD RANGES	Munition Destruction Areas	20110930
SEAD-003-R-01	EOD RANGE 1	Munition Destruction Areas	20110930
SEAD-007-R-01	RIFLE GRENADE RANGE	Munition Destruction Areas	20110930
SEAD-006-R-01	OPEN BURN/OPEN DETONATION GROUNDS	RCRA Closure Plan	20170930

Final RA(C) Completion Date: 201112

NPL Deletion Date: N/A

Schedule for Next Five-Year Review: 2010

Estimated Completion Date of BRAC-MMRP at Installation (including LTM phase): 204309

## SENECA ARMY DEPOT ACTIVITY BRAC-MMRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
SEAD-001-R-01	DEACTIVATION FURNACES	PA						
		R/FS						
		RD						
		RA(C)						
		LTM						
SEAD-002-R-01	EAST EOD RANGES	PA						
		R/FS						
		IRA						
		LTM						
SEAD-003-R-01	EOD RANGE 1	PA						
		R/FS						
		RD						
		RA(C)						
		LTM						
SEAD-006-R-01	OPEN BURN/OPEN DETONATION GROUNDS	PA						
		R/FS						
		IRA						
		LTM						
SEAD-007-R-01	RIFLE GRENADE RANGE	PA						
		R/FS						
		IRA						
		LTM						

## BRAC-MMRP Costs

Total Funding through FY2004:       \$4,324.0 K  
 (Includes ER,A funding from FY04 and prior years.)

**Prior Funding**

FY	Phase	BRAC Round	Site ID	Obligations	FY Total
2005	IRA			\$6,157.0 K	\$6,192.0 K
	LTM			\$35.0 K	
2006	RA(C)		SEAD-006-R-01	\$603.0 K	\$603.0 K
2007	RD		SEAD-001-R-01	\$60.4 K	\$60.4 K
2008	LTM	BRAC IV	SEAD 002-R-01	\$2.0 K	\$4.0 K
			SEAD 007-R-01	\$2.0 K	

**TOTAL PRIOR FUNDING:**       \$11,183.4 K

**Current Requirements**

**BRAC IV**

FY	Phase	Site ID	Requirements	FY Total
2009	LTM	SEAD-001-R-01	\$7.0 K	\$9.0 K
		SEAD-002-R-01	\$2.0 K	

**TOTAL CURRENT REQUIREMENTS**       \$9.0 K

Future Requirements - BRAC IV       \$21,843.0 K

Total Future Requirements       \$21,843.0 K

**TOTAL PROGRAM COST:**       \$33,035.4 K

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

Required Cost-to-Complete

RAC IV

SITE ID	SITE NAME							Out Yrs	Total	
ACTIVITY	Phase	FY10	FY11	FY12	FY13	FY14	FY15			
SEAD-001-R-01	DEACTIVATION FURNACES									
	LTM			15	19	12	12		362	420
								Site Total	420	
SEAD-002-R-01	EAST EOD RANGES									
	RI/FS									
	IRA									
	LTM		2		2		2		20	26
								Site Total	26	
SEAD-003-R-01	EOD RANGE 1									
	RI/FS									
	RD		39							39
	RA(C)		477							477
	LTM					2			102	104
								Site Total	620	
SEAD-006-R-01	OPEN BURN/OPEN DETONATION GROUNDS									
	RI/FS	80	136	80						296
	IRA	6545	5340	5465	115					17465
	LTM				146	135	137		2572	2990
								Site Total	20751	
SEAD-007-R-01	RIFLE GRENADE RANGE									
	RI/FS									
	LTM	2		2		2			20	26
								Site Total	26	
<b>Totals</b>										
		6627	5994	5562	282	151	151		3076	21843
								Site Total	21843	

Programmed Cost-to-Complete

BRAC IV

SITE ID	SITE NAME							Out Yrs	Total		
ACTIVITY	Phase	FY10	FY11	FY12	FY13	FY14	FY15				
SEAD-001-R-01	DEACTIVATION FURNACES										
	LTM	0	0	15	19	12	12		362	420	
									Site Total	420	
SEAD-002-R-01	EAST EOD RANGES										
	RI/FS										
	IRA										
	LTM	0	2	0	2	0	2		20	26	
									Site Total	26	
SEAD-003-R-01	EOD RANGE 1										
	RI/FS										
	RD	0	39	0	0	0	0		0	39	
	RA(C)	0	477	0	0	0	0		0	477	
	LTM	0	0	0	0	2	0		102	104	
									Site Total	620	
SEAD-006-R-01	OPEN BURN/OPEN DETONATION GROUNDS										
	RI/FS	80	136	80	0	0	0		0	296	
	IRA	7558	4327	4514	1066	0	0		0	17465	
	LTM	0	0	0	146	135	137		2572	2990	
									Site Total	20751	
SEAD-007-R-01	RIFLE GRENADE RANGE										
	RI/FS										
	LTM	2	0	2	0	2	0		20	26	
									Site Total	26	
<b>Totals</b>		7640	4981	4611	1233	151	151		3076	21843	
									Site Total	21843	



Costs - Combined Requirements Spreadsheet

RAC IV

PROGRAM	SITE ID		SITE NAME					Out Yrs	Total		
	Phase	FY10	FY11	FY12	FY13	FY14	FY15				
ACTIVITY											
IR	SEAD-004		MUNITIONS WASHOUT FACILITY LEACH FIELD								
	LTM				91				91		
								Site Total	91		
IR	SEAD-005		SEWAGE SLUDGE WASTE PILES								
	LTM		61						61		
								Site Total	61		
IR	SEAD-006		ASH LANDFILL (SEAD-3,6,8,14,15)								
	RA(O)	216	216	263	221	218	216		1622		
	LTM								521		
								Site Total	3493		
IR	SEAD-009		MULT NFA SITES (OLD SCRAP WD PILE)								
	LTM	18	18	51	19	18	18		660		
								Site Total	802		
IR	SEAD-012		RADIOACTIVE BURIAL SITES (3)								
	RI/FS										
	LTM		77	15	8	8	3		96		
	RA(C)	708							708		
								Site Total	915		
IR	SEAD-024		ABANDONED POWDER BURNING PIT								
	LTM	66	3						69		
								Site Total	69		
IR	SEAD-025		FIRE TRAINING AND DEMO PAD								
	LTM	75	75	104	75	75	75		681		
								Site Total	1160		
IR	SEAD-059		FILL AREA WEST 135								
	LTM	84	18	17	17	17	21		415		
								Site Total	589		
MR	SEAD-001-R-01		DEACTIVATION FURNACES								
	LTM			15	19	12	12		362		
								Site Total	420		
MR	SEAD-002-R-01		EAST EOD RANGES								
	LTM		2		2		2		20		
	IRA										
	RI/FS										
								Site Total	26		

Costs - Combined Requirements Spreadsheet

BRAC IV

PROGRAM	SITE ID		SITE NAME					Out Yrs	Total	
	Phase	FY10	FY11	FY12	FY13	FY14	FY15			
ACTIVITY										
MR	SEAD-003-R-01		EOD RANGE 1							
	LTM					2		102	104	
	RI/FS									
	RD		39						39	
	RA(C)		477						477	
								Site Total	620	
MR	SEAD-006-R-01		OPEN BURN/OPEN DETONATION GROUNDS							
	LTM				146	135	137	2572	2990	
	RI/FS	80	136	80					296	
	IRA	6545	5340	5465	115				17465	
								Site Total	20751	
MR	SEAD-007-R-01		RIFLE GRENADE RANGE							
	LTM	2		2		2		20	26	
	RI/FS									
								Site Total	26	
		<b>Totals</b>								
		7794	6462	6012	713	487	484	7071	29023	
								Site Total	29023	

Costs - Combined Programmed Spreadsheet

RAC IV

PROGRAM ACTIVITY	SITE ID		SITE NAME					Out Yrs	Total
	Phase	FY10	FY11	FY12	FY13	FY14	FY15		
IR	SEAD-004		MUNITIONS WASHOUT FACILITY LEACH FIELD						
	LTM	0	0	0	91	0	0	0	91
								Site Total	91
IR	SEAD-005		SEWAGE SLUDGE WASTE PILES						
	LTM	0	61	0	0	0	0	0	61
								Site Total	61
IR	SEAD-006		ASH LANDFILL (SEAD-3,6,8,14,15)						
	RA(O)	216	216	263	221	218	216	1622	2972
	LTM	0	0	0	0	0	0	521	521
								Site Total	3493
IR	SEAD-009		MULT NFA SITES (OLD SCRAP WD PILE)						
	LTM	18	18	51	19	18	18	660	802
								Site Total	802
IR	SEAD-012		RADIOACTIVE BURIAL SITES (3)						
	RA(C)	708	0	0	0	0	0	0	708
	LTM	0	15	8	8	77	3	96	207
								Site Total	915
IR	SEAD-024		ABANDONED POWDER BURNING PIT						
	LTM	66	3	0	0	0	0	0	69
								Site Total	69
IR	SEAD-025		FIRE TRAINING AND DEMO PAD						
	LTM	75	75	104	75	75	75	681	1160
								Site Total	1160
IR	SEAD-059		FILL AREA WEST 135						
	LTM	84	18	17	17	17	21	415	589
								Site Total	589
MR	SEAD-001-R-01		DEACTIVATION FURNACES						
	LTM	0	0	15	19	12	12	362	420
								Site Total	420
MR	SEAD-002-R-01		EAST EOD RANGES						
	LTM	0	2	0	2	0	2	20	26
								Site Total	26
MR	SEAD-003-R-01		EOD RANGE 1						
	RD	0	39	0	0	0	0	0	39
	RA(C)	0	477	0	0	0	0	0	477
	LTM	0	0	0	0	2	0	102	104
								Site Total	620

Costs - Combined Programmed Spreadsheet

BRAC IV

PROGRAM	SITE ID	SITE NAME						Out Yrs	Total
ACTIVITY	Phase	FY10	FY11	FY12	FY13	FY14	FY15		
MR	SEAD-006-R-01	OPEN BURN/OPEN DETONATION GROUNDS							
	RI/FS	80	136	80	0	0	0	0	296
	IRA	7558	4327	4514	1066	0	0	0	17465
	LTM	0	0	0	146	135	137	2572	2990
								Site Total	20751
MR	SEAD-007-R-01	RIFLE GRENADE RANGE							
	LTM	2	0	2	0	2	0	20	26
								Site Total	26
	Totals								
		8807	5387	5054	1664	556	484	7071	29023
								Site Total	29023

## Community Involvement

Technical Review Committee (TRC): None

Restoration Advisory Board (RAB): RAB established 1996

RAB Adjournment Date:

RAB Adjournment Reason:

Community Involvement Plan (Date Published): 199210

### Additional Community Involvement Information

RAB meetings are held quarterly. Required public meetings are held as needed.

### Administrative Record is located at

Seneca Army Depot Activity  
Building 123  
5786 State Route 96  
Romulus, NY 14541-0009

### Information Repository is located at

Seneca Army Depot Activity  
Building 123  
5786 State Route 96  
Romulus, NY 14541-0009

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

TAPP Title: N/A

Potential TAPP: N/A

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