

**FY2016**

**USARC CAVEN POINT**  
**Army Defense Environmental Restoration Program**  
**Installation Action Plan**

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## Table of Contents

Statement Of Purpose.....	1
Acronyms.....	2
Installation Information.....	3
5-Year / Periodic Review Summary.....	4
Cleanup Program Summary.....	5
Compliance Restoration.....	6
CR Summary.....	7
CR Contamination Assessment.....	8
CR Previous Studies.....	9
Compliance Restoration Site Descriptions.....	10
CCNJ008002 AST Spill Remediation action.....	11
Compliance Restoration Site Closeout (No Further Action) Sites Summary.....	12
CR Schedule.....	13
Compliance Restoration Milestones.....	13
CR Schedule Chart.....	14

## Statement of Purpose

The purpose of the Installation Action Plan (IAP) 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 restoration manager, the 99th Regional Services Command (RSC), the US Army Environmental Command (USAEC), US Army Reserve Command (USARC) Caven Point, the Installation Management Command-Army Reserve Office (IMCOM-ARO), the executing agencies, regulatory agencies, and the public, an IAP was completed. The IAP is used to track requirements, schedules and budgets for all major 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.

## Acronyms

AEDB-R	Army Environmental Database - Restoration
AOC	Area of Concern
AST	Aboveground Storage Tank
CAP	Corrective Action Plan
CEA	Classification Exception Area
CR	Compliance Restoration
FRA	Final Remediation Action
FY	Fiscal Year
IAP	Installation Action Plan
ID	Identification
IMCOM-ARO	Installation Management Command-Army Reserve Office
IMP (C)	Implementation (Construction)
IMP (O)	Implementation (Operations)
IRA	Interim Remedial Action
LTM	Long-Term Management
NFA	No Further Action
NJDEP	New Jersey Department of Environmental Protection
NPL	National Priorities List
POL	Petroleum, Oil and Lubricants
ppb	Parts Per Billion
RA	Remedial Action
RA (C)	Remedial Action (Construction)
RAB	Restoration Advisory Board
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RIP	Remedy-in-Place
ROD	Record of Decision
RSC	Regional Support Command
TAPP	Technical Assistance for Public Participation
TBD	To Be Determined
TRC	Technical Review Committee
USAEC	US Army Environmental Command
USARC	US Army Reserve Center

## Installation Information

### Installation Locale

**Installation Size (Acreage):** 20

**City:** Jersey City

**County:** Hudson

**State:** New Jersey

### Other Locale Information

USARC Caven Point is located at 1 Chapel Ave and Caven Point Road in Jersey City, New Jersey.

### Installation Mission

USARC Caven Point is a Reserve Training Center which serves multiple reserve units through classroom training and a vehicle maintenance shop.

### Lead Organization

US Army Reserve

### Lead Executing Agencies for Installation

99th RSC

### Regulator Participation

**State** New Jersey Department of Environmental Protection, (NJDEP)

### National Priorities List (NPL) Status

USARC CAVEN POINT is not on the NPL

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

Installation at RIP/RC.

### Installation Program Summaries

#### CR

**Primary Contaminants of Concern:** Petroleum, Oil and Lubricants (POL)

**Affected Media of Concern:** Groundwater

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## 5-Year / Periodic Review Summary

No 5-Year / Periodic Reviews have been scheduled

# Cleanup Program Summary

## Installation Historic Activity

The site was a former aboveground storage tank (AST). The facility contained 12 ASTs containing No. 2 fuel oil. During the closure of these tanks in July 1998, it was discovered that the piping from two tanks (Buildings 199 and 204) leaked into the subsurface soil.

In 2009, contaminated soil was removed from several AOCs on-site. This was the largest soil remediation activity in the history of New Jersey. In an effort to obtain site-wide soil and groundwater closure, four additional wells were installed. In 2010, the 99th RSC issued an RA report which detailed the results of the site-wide excavation of soils. In the same year, a remedial investigation (RI) report for groundwater was issued; however, concentrations observed did not warrant state closure in regards to groundwater. In fiscal year (FY) 2014, all but one monitoring well was closed in a notification issued by NJDEP.

## Installation Program Cleanup Progress

### CR

**Prior Year Progress:** Contract awarded to perform sampling and prepare DD for benzene in groundwater portion of the site.

**Future Plan of Action:** Implement DD remedy and achieve site close-out.

**USARC CAVEN POINT**  
**Army Defense Environmental Restoration Program**  
**Compliance Restoration**

## CR Summary

**Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count:** 1/0

### Installation Site Types with Future and/or Underway Phases

1 Above Ground Storage Tank  
(CCNJ008002)

### Most Widespread Contaminants of Concern

Petroleum, Oil and Lubricants (POL)

### Media of Concern

Groundwater

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

Site ID	Site Name	Action	Remedy	FY
CCNJ008002	AST Spill Remediation action	IRA	WASTE REMOVAL - LIQUIDS	2003
CCNJ008002	AST Spill Remediation action	IRA	WASTE REMOVAL - SOILS	2003
CCNJ008002	AST Spill Remediation action	FRA	NATURAL ATTENUATION	2010
CCNJ008002	AST Spill Remediation action	FRA	WASTE REMOVAL - SOILS	2010

### Duration of CR

**Date of CR Inception:** 200101

**Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC):** 201010/202107

**Date of CR completion including Long Term Management (LTM):** 202107

# CR Contamination Assessment

## **Contamination Assessment Overview**

Contamination to groundwater is a result of a leaking underground storage tank that held fuel oil.

## **Cleanup Exit Strategy**

During FY15 the 99th RSC and NJDEP began discussions on exit strategy options that will result in the site receiving a Classification Exception Area (CEA) or no further action notification from NJDEP. It is anticipated that in FY16, an agreed upon exit strategy will be implemented that may include additional monitoring of one well (204-MW3) on an annual basis until such time that NJDEP issues a CEA or no further action notification.

## CR Previous Studies

	<b>Title</b>	<b>Author</b>	<b>Date</b>
<b>2003</b>	Interim Remedial Action Report	EA Engineering, Science, and Technology	APR-2003
<b>2005</b>	Preliminary Assessment	Potomac-Hudson Environmental, Inc	NOV-2005
<b>2006</b>	Memorandum of Agreement	77th RSC	FEB-2006
	Site Investigation	Potomac-Hudson Environmental, Inc	MAR-2006
	Remedial Investigation Report/ Remedial Action WorkPlan	Potomac-Hudson Environmental, Inc	DEC-2006
<b>2010</b>	Remedial Investigation Report/Remedial Action Workplan for Groundwater	CH2MHILL	APR-2010
	Remedial Action Report (Soil)	CAPE	SEP-2010

**USARC CAVEN POINT**  
**Compliance Restoration**  
**Site Descriptions**

**STATUS**

Regulatory Driver: RCRA  
Contaminants of Concern: Petroleum, Oil and Lubricants (POL)  
Media of Concern: Groundwater

Phases	Start	End
ISC.....	200101.....	200108
INV.....	200408.....	200506
CAP.....	200910.....	201009
IRA.....	200201.....	200211
IMP(C).....	200906.....	201009
IMP(O).....	201010.....	202107
<b>RIP Date:</b> 201010		
<b>RC Date:</b> 202107		

**SITE DESCRIPTION**

In July 1998, during the closure of two ASTs, it was discovered that the fuel oil leaked from the piping into the subsurface soil. Benzene concentrations in the groundwater were found to be above New Jersey groundwater quality criteria. An RI was completed in 2001. The extent of the contamination in groundwater was 150 feet downgradient from the source. The 77th RSC (now the 99th RSC) entered into a Memorandum of Agreement with NJDEP and in October 2002, 110 cubic yards of soil and 4,000 gallons of impacted groundwater were removed as part of an IRA. In February 2005, an RI was completed under Case Number 98-07-13-1600-26. The RI found that benzene levels exceeded the New Jersey Groundwater Quality Criteria for benzene of 1 ppb up to 150 feet downgradient from the source and that total natural attenuation would be expected within 12 years. The implementation construction [IMP(C)] phase occurred in 2009-2010 with additional soil removal. Under the implementation (operation) [IMP(O)] phase, quarterly monitoring of four groundwater wells for benzene has occurred since 2010.

In December 2013, during FY14, a request was submitted to NJDEP to approve the entire installation site as a designated CEA for groundwater due to the condition of historic fill material and unrelated to installation activities. After the performance of eight consecutive quarterly groundwater monitoring events, it was determined that groundwater contamination is constrained to one constituent (benzene) and recorded in one monitoring well location (204-MW3) at the upgradient edge of the property and migration to downgradient locations is not occurring. Additionally, in December 2013, an indeterminate CEA for historic fill was submitted to NJDEP for the entire installation property, including the localized low level benzene exceedances recorded in well location 204-MW3.

Because the site remedies did not work, they will be addressed in the IMP(O) phase of this program. During FY14 (February/March 2014) NJDEP rejected the request for an installation-wide indeterminate CEA because it includes the localized, low level benzene detections found at one site well (204-MW3).

**CLEANUP/EXIT STRATEGY**

The path forward for FY16/17 is the development of a Corrective Action Plan (CAP) agreed upon by the 99th RSC and NJDEP. No additional groundwater sample collection actions will be performed until concurrence between the 99th RSC and the NJDEP on the development of a CAP that will qualify the site to receive a CEA or no further action notification from NJDEP.

During FY15 the 99th RSC and NJDEP began discussions on exit strategy options that will result in the site receiving a CEA or no further action notification from NJDEP. It is anticipated that in FY16, an agreed upon exit strategy will be implemented that may include additional monitoring of one well (204-MW3) on an annual basis until such time that NJDEP issues a CEA or no further action notification.

## Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
There are no NFA sites			

## CR Schedule

**Date of CR Inception:** 200101

### Past Phase Completion Milestones

**2001**

ISC (CCNJ008002 - AST Spill Remediation action)

**2003**

IRA (CCNJ008002 - AST Spill Remediation action)

**2005**

INV (CCNJ008002 - AST Spill Remediation action)

**2010**

CAP (CCNJ008002 - AST Spill Remediation action)

IMP(C) (CCNJ008002 - AST Spill Remediation action)

### 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
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**Final RA(C) Completion Date:** 201009

**Schedule for Next Five-Year Review:** N/A

**Estimated Completion Date of CR at Installation (including LTM phase):** 202107

## USARC CAVEN POINT CR Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
CCNJ008002	AST Spill Remediation action	IMP(O)						

## Community Involvement

**Technical Review Committee (TRC):** None

**Community Involvement Plan (Date Published):** TBD

**Restoration Advisory Board (RAB):** No

**Reason Not Established:** Installation at RIP/RC.

### **Additional Community Involvement Information**

The soil and groundwater studies and remediation followed the NJDEPs requirements for public notice in the form of visible signs on the site that the public could see which solicited comments from the public. No calls were received and therefore no RAB was created.

### **Administrative Record is located at**

99th RSC HEADQUARTERS  
AFRC-SNJ-PW-E  
5231 SOUTH SCOTT PLAZA  
JOINT BASE MCGUIRE DIX LAKEHURST, NEW JERSEY 08640  
IRP POC 609.562.7661

### **Information Repository is located at**

99th RSC HEADQUARTERS  
AFRC-SNJ-PW-E  
5231 SOUTH SCOTT PLAZA  
JOINT BASE MCGUIRE DIX LAKEHURST, NEW JERSEY 08640  
IRP POC 609.562.7661

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

**TAPP Title:** N/A

**Potential TAPP:** N/A

