

Engineering Evaluation / Cost Analysis (EE/CA) Public Meeting Area 18E – Soil Removal Action Former Raritan Arsenal Edison, New Jersey

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Agenda

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- Site map
- Area 18E – Soil Investigations
- Purpose of Non – Time Critical Removal Action
- Engineering Evaluation / Cost Analysis (EE/CA)
- DERP-FUDS
- Recommendation
- Area 18E – path forward
- Raritan Arsenal website
- Questions



Background

Area 18E – Former Maintenance Area

- Area 18E is located in the northern portion of the Former Arsenal
- Area 18E property is currently owned by the USEPA Region II
 - ▶ This area is entirely developed, zoned for light industrial use and is situated just south of Woodbridge Avenue. The area consists of Buildings 10 and 18 with the remainder being a grass-covered lawn. The grass-covered lawn once included three former U.S. Army buildings: Buildings 14, 15, and 19. These three former buildings were constructed in 1918. USEPA demolished these buildings from July through October of 1997.
- Area 18E consists of the following former Arsenal buildings:
 - ▶ Building 14 served as a small arms shop;
 - ▶ Building 15 served as a machine shop; and
 - ▶ Building 19 was referred to as a vehicle rebuild assembly shop.



What is DERP – FUDS?

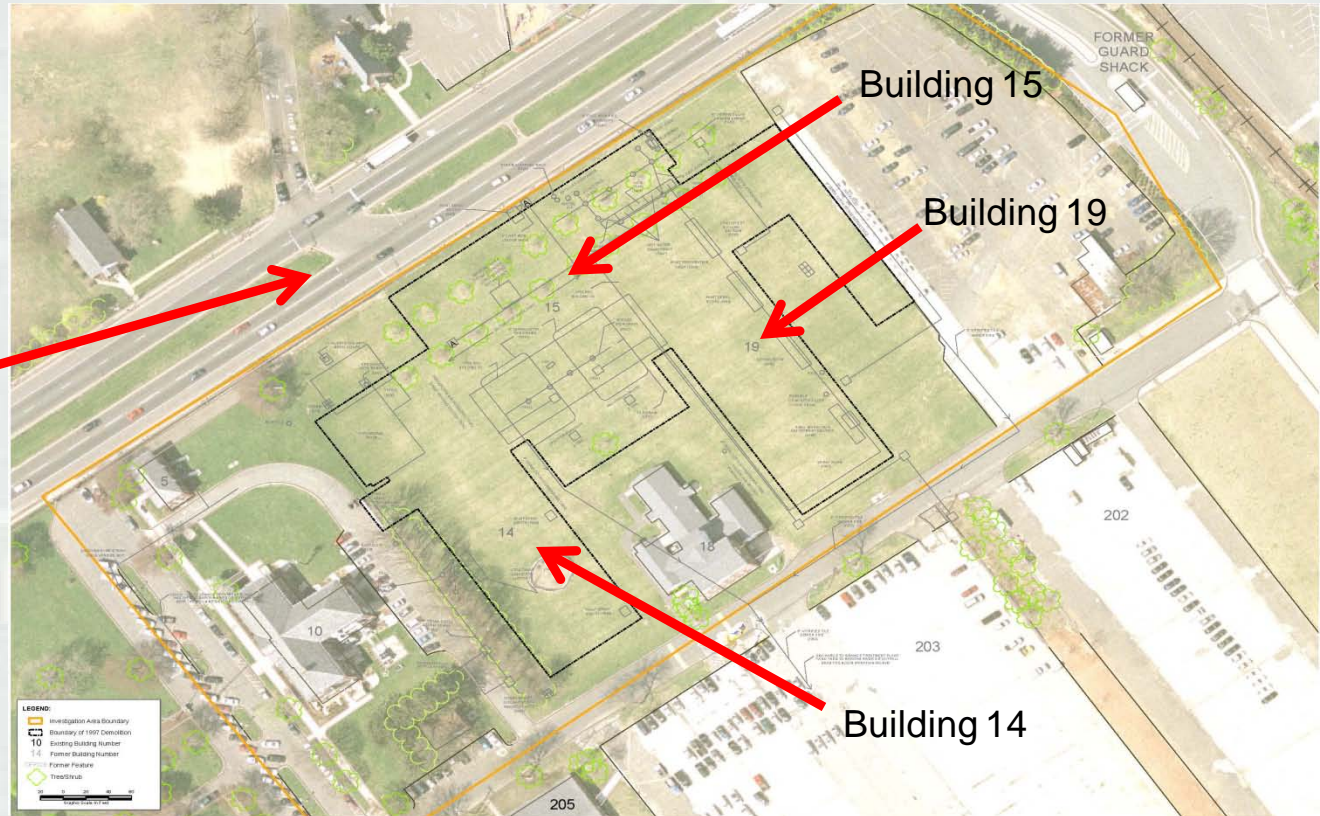
- Response actions at the former Raritan Arsenal (former Arsenal) are being funded under the Defense Environmental Restoration Program-Formerly Used Defense Sites (DERP-FUDS).
 - ▶ Goals: Complete environmental restoration of the former Raritan Arsenal
 - ▶ Address potential human health and environmental risks associated with past Department of Defense (DOD) activities.
 - ▶ Former Raritan Arsenal project being completed by the U.S. Army Corps of Engineers (USACE)



Area 18E (Soil) – Site Map



Woodbridge Ave



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Area 18E – Soil Investigations

- Area 18E – Remedial Investigation
 - ▶ Scope of work: complete the delineation of volatile organic compounds (VOCs) and metals in soil
 - Investigation commenced / completed – July / December 2009
 - Results from the investigation have been included in the Final Remedial Investigation report and has been issued to NJDEP for review – Sept 2011
- Area 18E – Remedial Action
 - ▶ Scope of work: Excavation and Off-Site Disposal of 1,850 cubic yards of shallow sub-surface soils
 - Work Plan (WP) generated to meet requirements of the New Jersey Technical Requirements for Site remediation (N.J.A.C 7:26E); WP issued to NJDEP for their review; NJDEP approval – Sept 2011
 - Completion Report will be submitted to NJDEP for their review – Winter 2011



Purpose of Non Time Critical Removal Action (TCRA)

- Recent and historic analytical data indicate these contaminated soils act as a contributing source to groundwater impacts in this area, specifically groundwater area 8A/B.
 - ▶ Groundwater aquifer is not used as a drinking water source
- Removal action has been recommended to address the potential threat from exposure to soils containing trichloroethylene (TCE), tetrachloroethylene (PCE) and arsenic in the shallow subsurface soils at the former Raritan Arsenal.



Engineering Evaluation/Cost Analysis (EE/CA)

- An Engineering Evaluation/Cost Analysis (EE/CA) was issued in September 2011, which included an evaluation of alternatives and costs to address Area 18E soils.
- Public review and comment is being solicited on the removal action recommendation outline in the EE/CA.
 - ▶ A Responsiveness Summary will be generated after the public comment process and made available to the public.
- Public review period is: Sept 19th – Oct 17th
- The EE/CA can be found:
 - ▶ Electronically at the Raritan Arsenal Website:
www.nan.usace.army.mil/business/buslinks/raritan/index.htm
 - ▶ Hard copy is located at the Public repository at USACE Raritan Arsenal field trailers at 2890 Woodbridge Avenue, Edison, NJ.



Recommendation

■ Proposed action:

- ▶ Alternative 2: Excavation and Off-Site Disposal of 1,850 cubic yards (≈ 90 trucks loads) of shallow sub-surface soils has been identified as the removal action. In addition, the excavation and off-site disposal of impacted soils would result in a permanent solution that requires no additional long-term oversight, operation and maintenance, and monitoring.
 - Approximate depth of excavations is 3 to 6 feet below grade
 - Dumpster trucks will exit off EPA property onto Woodbridge Ave
 - Off-site disposal hours : 7am – 5pm

■ Cost:

- ▶ Estimated cost of this non-Time Critical Removal Action (TCRA):
\$650,000



Area 18E – path forward

- Subsequent to the soil removal action, Groundwater Area of Concern (AOC) 8A/B will be incorporated into our Monitored Natural Attenuation program
 - Groundwater Remedial Action Work Plan (GWRAMP) addendum will be submitted to NJDEP for their review – Winter 2011
 - A Classification Exemption Area (CEA) is in place for the whole Raritan Arsenal site:
 - ▷ Land use restriction
 - ▷ Prevents land users from installing any groundwater wells



Raritan Arsenal Website:

www.nan.usace.army.mil/business/buslinks/raritan/index.htm

The screenshot shows a Windows Internet Explorer browser window displaying the website for the US Army Corps of Engineers, New York District. The page features a navigation menu with links for HOME, WHO WE ARE, NEWS, PUBLIC NOTICES, PROJECTS, PROGRAMS, BUSINESS, EMPLOYMENT, SERVICES, and LINKS. The main content area is titled "Former Raritan Arsenal Site" and includes a "Public Notice" section. The notice states that the New York District is planning to perform a Non-Time Critical Removal Action at 2890 Woodbridge Avenue (Area 18E) and is offering the public an opportunity to comment. The comment period is 30 days, from 9/19/2011 to 10/17/2011. The notice also mentions that an Engineering Evaluation Cost Analysis (EE/CA) has been prepared, which describes the delineation (removal and disposal) of volatile organic compounds (VOCs) and metals in contaminated soils (approximately 2,000 yards) which is part of the former Raritan Arsenal project. The purpose of the efforts is to address contaminated soil identified within Area 18E which may impact groundwater. A link is provided for the EE/CA for Area 18E Property. The notice also states that the Administrative Record file for the former Raritan Arsenal site is also available for inspection; please contact Ms. Sandra Pietro at the contact information provided. The footer of the page includes a disclaimer, Freedom of Information Act, Privacy & Security Notice, Information Quality Act, and Accessibility. The Windows taskbar at the bottom shows the system tray with the date and time as 7:37 AM on 10/3/2011.

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New York District

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New York District

Former Raritan Arsenal Site

News Releases

Public Notice
Non-Time Critical Removal Action
Review period: 9/19/2011 - 10/17/2011

U.S. Army Corps of Engineers - New York District is planning to perform a Non-Time Critical Removal Action at 2890 Woodbridge Avenue (Area 18E) and is offering the public an opportunity to comment on our proposed action. The comment period is 30 days. An Engineering Evaluation Cost Analysis (EE/CA) has been prepared which describes the delineation (removal and disposal) of volatile organic compounds (VOCs) and metals in contaminated soils (approximately 2,000 yards) which is part of the former Raritan Arsenal project. The purpose of our efforts is to address contaminated soil identified within Area 18E which may impact groundwater.

If you are interested in reviewing the EE/CA for the 2890 Woodbridge Avenue (Area 18E) property, please select the following link:

[EE/CA for Area 18E Property](#)

The Administrative Record file for the former Raritan Arsenal site is also available for inspection; please contact Ms. Sandra Pietro at the contact information provided.

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Raritan Arsenal Website:

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