

# Spring Valley

Formerly Used Defense Site

## Community Meeting

## Remedial Investigation Report

May 12, 2015

“The USACE Mission in Spring Valley is to identify, investigate and remove or remediate threats to human health, safety or to the environment resulting from past Department of Defense activities in the area.”



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US Army Corps of Engineers  
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# Agenda Review

- ❖ **Welcome, Introductions & Announcements**
- ❖ **USACE Presentation**
  - **Review of Site-Wide Remedial Investigation Conclusions**
  - **Project-Wide Schedule**
- ❖ **Community Questions\*, Open Discussion**
- ❖ **Adjourn to Individual Questions and Answers**

\* The Corps of Engineers will have a representative available all night to record formal comments as part of the comment period.



# Introductions



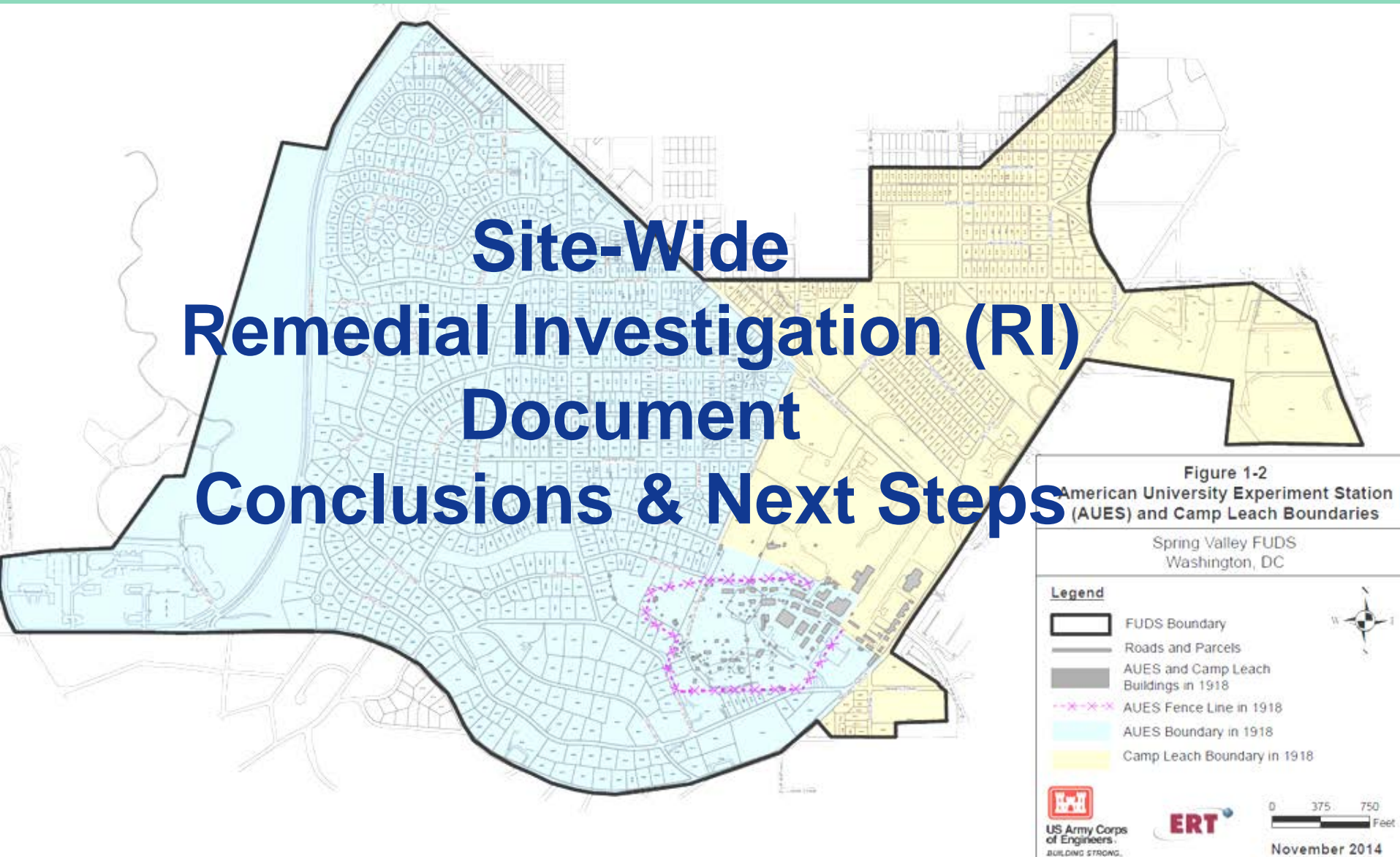
# Spring Valley FUDS Announcements

- The 45-day public comment period for the draft RI report began on April 8 and goes through May 26, 2015.
- The Remedial Investigation Report can be found online under Project Efforts/Remedial Investigation:  
<http://www.nab.usace.army.mil/Home/SpringValley.aspx> or in the Information Repository at the Tenley-Friendship Branch Library, located at 4450 Wisconsin Ave. N.W.
- Formal written and oral comments on the Remedial Investigation Report can be made TODAY at the May 12th Community Meeting.  
**AMENDMENT:** Written comments can be sent to the following mailing address: U.S. Army Corps of Engineers, ATTN: *Brittany Bangert*, Rm. 11400, 10 South Howard St., Baltimore, Md. 21201; or by e-mail to: [brittany.m.bangert@usace.army.mil](mailto:brittany.m.bangert@usace.army.mil)



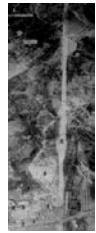
# USACE Presentation

## Site-Wide Remedial Investigation (RI) Document Conclusions & Next Steps



# The CERCLA Process

*(The Comprehensive Environmental Response, Compensation, and Liability Act)*



## Preliminary Assessment



## Site Inspection



## Remedial Investigation

General Purpose: Collect data to characterize site conditions; Determine the nature of the waste; Assess risk to human health and the environment; & Evaluate treatment options.



Information gathered as part of the RI influences the development of the FS which, in turn, may require further data collection and field investigations.

## Feasibility Study

General Purpose: To develop, screen, and evaluate alternatives for clean-up.

## Decision Document



General Purpose: Select the alternative as well as provide an overview of the project. This would include site history, previous and current investigations, and characterization of contamination.



## Proposed Plan

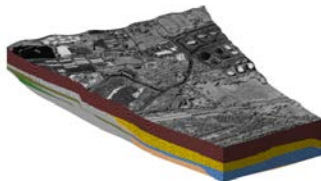
General Purpose: Presents the evaluation of clean-up alternatives and provides a recommendation for the preferred alternative.

**This document is made available for public review and comment.**



## Removal Action

General Purpose: If prompt action is deemed appropriate prior to the completion of the RI/FS process, USACE will begin removal of the contaminants of concern.



## Remedial Design/ Remedial Action

General Purpose: Implementation of the action determined in the Decision Document.



## Long Term Monitoring

General Purpose: To conduct any long term monitoring necessary and conduct five year reviews of the Formerly Used Defense Site.

**Spring Valley Military History**

**CIVIL WAR**



Ft. Gaines & other forts located near SV area during Civil War era.

**WWI**



American University Experiment Station (AUES) 1917-1919, Built for CWM development & testing

**WWI**



Camp Leach, 1917-1919, Built for troop training

**WWII**



Navy Bomb Disposal School 1942-1946, on AU campus for research & education

# SPRING VALLEY FUDS TIMELINE 1993 – 2015

Munitions | **Glenbrook Rd.** | Groundwater | Soil  
Documents | Munitions Destruction | Health

1986 – Army conducts historical study for possible AUES burials

1998 Search for revised POI 24 location begins

2000 – 2011 Munitions investigations conducted on 90 Spring Valley properties

Fall 2012 – 4825 Proposed Plan accepted. Remedial Action: Demolition & cleanup begins



January 5, 1993 Buried WWI munitions found in utility trench on 52nd Ct.



2001 – 2006 AU Small Disposal Area & AU Lot 18 investigated

2008 – 2010 AU Public Safety Bldg. area excavated

1993 Army leads Operation Safe Removal (OSR) as an Emergency Response Action



Mar. 1999 – Mar. 2001 Invasive investigation of Pits 1 & 2

May 2001 – Mar. 2002 High prob. investigation of Test Pit 23 (aka Pit 3)

2003 Containers of CWM, (including Lewisite), found at Lot 18



Oct. 2007 – Mar. 2009 High prob. investigation of Pit 3 resumes & is completed

2009 – 2011 FUDS western boundary near Dalecarlia Pkwy & Woods investigated

Winter 2012 – 4825 & AU areas PRP Investigation begins

Feb. 1993 OSR Phase I completed

1994 – 1996 Spaulding & Capt. Rankin Area Investigation

1999 4825 Glenbrook Rd. surveyed adjacent to Pits 1 & 2

2002 Sedgwick Trench Investigation completed



2003 Recovered chemical & conventional munitions destroyed



2007 – 2008 4835 Glenbrook Test Pits

2009 – 2010 4825 High Prob. Test Pits

Sept. 2011 4825 RI & FS Reports released

Aug. 2010 4825 becomes separate CERCLA project site to expedite cleanup

1993 – 1995 OSR Phase II Remedial Investigation conducted

2010 Recovered chemical munitions destroyed

2011 & 2012 Recovered conventional munitions destroyed

## 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2015

1993 AUES Historical Report issued & 54 Points of Interest (POIs) established



July 1996 DC Dept. of Health report critical of USACE investigation released

June 1995 Remedial Investigation Report issued

June 1995 No Further Action Record of Decision released, never finalized

January 2000 Soil investigation of 9 properties & several lots on AU, including the Child Dev. Center - munitions investigations conducted



2001 Child Dev. Center soil remediation completed

2000 Extensive soil sampling at 4825

2001 – 2012 Site-wide arsenic sampling & removal at 1,600 Spring Valley properties / lots

2002 – 2007 Areas of Interests Task Force (AOITF) find 28 areas (AOIs) to be addressed in addition to 54 POIs



2004 – Ongoing groundwater study begins, 80+ site-wide & surrounding locations sampled

April 2004 Formation of Spring Valley Partnership

2005 Elevated perchlorate found in groundwater near Sibley Hospital & AU Kreeger Hall

March 2008 AUES Chemical Parameters Report Released

2012 SV perchlorate determined to be from Chilean source

June 2011 – USACE begins drafting Site Wide Remedial Investigation Report & follow-on CERCLA documents

Mar. 2015 Site Wide RI Report Released

1999 – 2001 Pits 1 & 2 area soil removal

March 2001 RAB established

2006 Johns Hopkins Univ. (JHU) study finds SV resident health very good overall

2011 – 2013 JHU follow-on health study

2002 Two ATSDR studies consider potential health risks from SV arsenic concentrations

2005 ATSDR Study determines munitions pits from former SV military activities are public health hazards

2011 – ATSDR Study of 4825 initiated

# Spring Valley FUDS

## Section 8 Summary and Conclusions



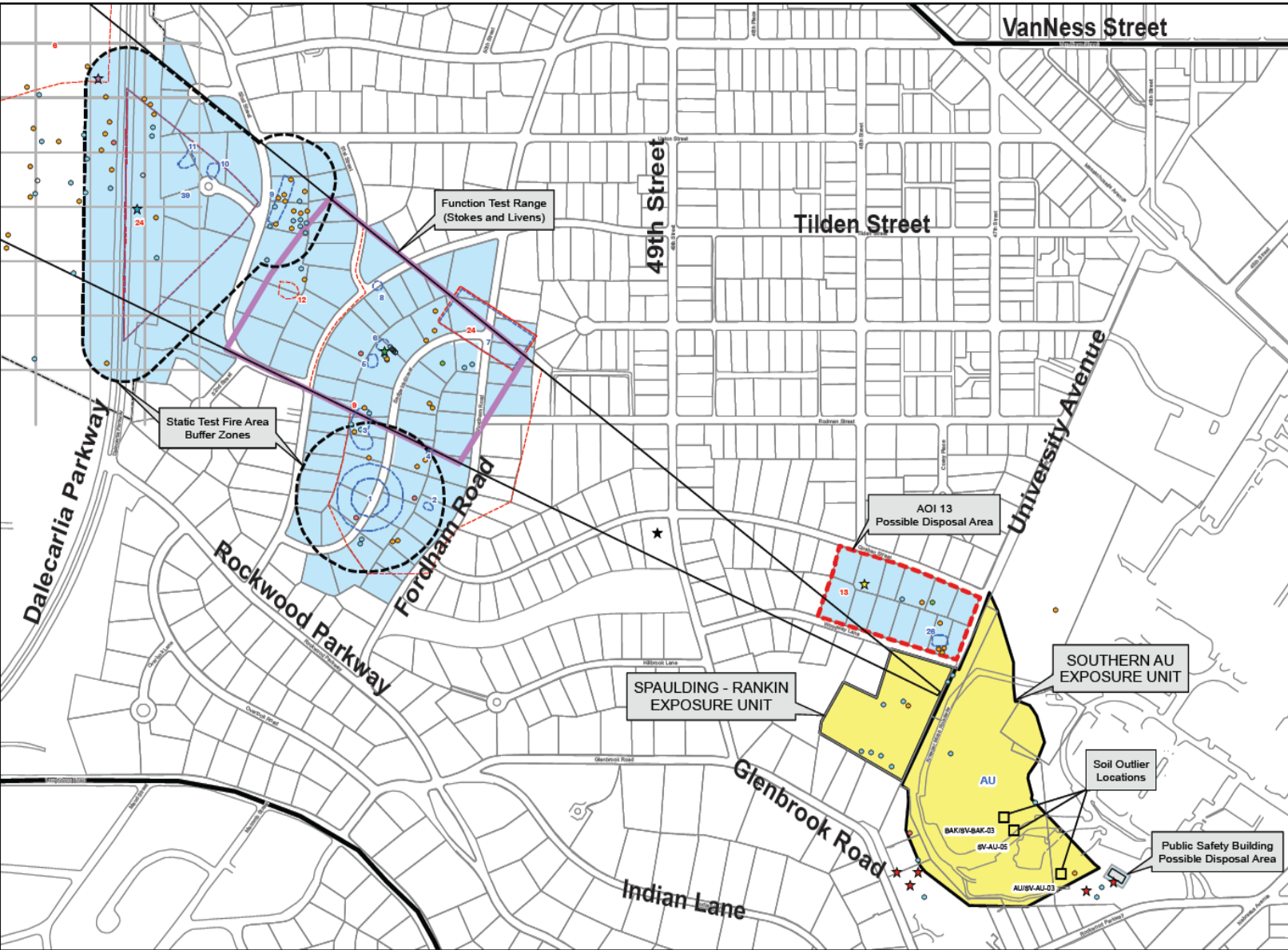
The conclusions of the Spring Valley RI are:

- **Certain areas will proceed to the Feasibility Study (FS) due to potential concerns with residual chemical risks in soil identified in the Human Health Risk Assessment (HHRA).**
  - **Southern American University Exposure Unit, and the Spaulding and Captain Rankin Area (SCRA) (*one property*).**
- **Certain areas will proceed to the Feasibility Study (FS) due to potential concerns with hazards identified in the Munitions and Explosives of Concern Hazard Assessment (MEC HA)**
  - **Function Test Range, Static Test Fire Area, Area of Interest (AOI) 13, and the Public Safety Building.**





# Areas for Evaluation in the Feasibility Study (FS)



**Figure 8-1**  
Areas for Evaluation  
in the FS

Spring Valley FUDS  
Washington, DC

**Legend**

- Areas of Potential Explosive Hazard for Evaluation in the FS
- Areas of Potential Carcinogenic / Non-Carcinogenic Risk for Evaluation in the FS
- Buffer Zone (150 FT) of Statically Fired Testing Areas
- Function Test Range (Stokes and Livens)
- Area of Interest (AOI)
- Point of Interest (POI)
- Range Fan
- Parcels
- FUDS Boundary

**Items**

- ★ Livens Projectile (MEC)
- ★ Stokes Mortar (MEC)
- ★ 75 mm Projectile (MEC)
- ★ Thermite Grenade (MEC)
- ★ Pipe with Explosives (MEC)
- ★ Disposal Area (MEC/CWM)
- 75 mm MD
- Livens MD
- Stokes Mortar MD
- MD (miscellaneous)
- Non-AUES MD



February 2015



# Spring Valley FUDS

## Tentative Schedule for Site-Wide RI Report

2015

April 8 –  
May 26

**Formal 45-day  
Public  
Comment  
Period**

May 12  
Community  
Meeting  
brief  
community  
on the RI  
Document's  
content &  
conclusions



May 26  
**Public comment  
period ends,  
USACE addresses  
public comments  
&  
Finalizes the  
RI report**

Fall 2015

**Feasibility Study  
conducted to evaluate  
alternatives for  
addressing any  
unacceptable risks  
or hazards Identified  
in Final RI Report**

2016

Winter  
2015 - 2016

**Prepare the  
Proposed Plan  
& start  
Public  
Comment  
Period**

Summer  
2016

**Prepare &  
sign the  
Decision  
Document**

2017

2017 -

**Begin  
Remedial  
Design/  
Remedial  
Action Plan/  
conduct Clean  
-Up Action**

# Spring Valley FUDS Community Meeting

- **Public Comments**
- **Wrap-Up**

