

**Spring Valley Partnering Meeting
August 13, 2019
Spring Valley Project Federal Property Conference Room**

Name	Organization/Address	
Allyn Allison	USACE - Huntsville	
Brenda Barber	USACE – Baltimore	X
Brian Barone	DOEE	X
Matt Beatty	Weston Solutions	
Todd Beckwith	USACE - Baltimore	
Sean Buckley	Parsons	X
Paul Chrostowski	CPF Associates, American University Consultant	
Ed Fisher	American University	X
Chris Gardner	USACE – Corporate Communications Office	X
John Gerhard	Weston Solutions	
Ivanna Goldsberry	USACE - Baltimore	X
Whitney Gross	ERT – Community Outreach Team	X
Steven Hirsh	EPA – Region III	X
Bryan Hnetinka	Weston Solutions Project Manager	X
Holly Hostetler	ERT	X
Carrie Johnston	ERT - Community Outreach Team	
David King	USACE - Baltimore	
Kevin Kingdon	Black Tusk Geophysics	
Carlos Lazo	USACE, Government Affairs Liaison	X
Caitlyn Martin	Weston Solutions	
Chris Moran	Weston Solutions	X
Dan Nichols	American University	
Dan Noble	USACE – Baltimore	X

Steven Norman	ECBC	
Randall Patrick	Parsons	X
Tom Rosso	ECBC	
Dave Tomlinson	DOEE	
Amy Walker	USACE - Huntsville	
Bruce Whisenant	USACE – Huntsville	X
Rebecca Yahiel	ERT – Community Outreach Team	X

Summary of 13 August 2019 Spring Valley Partnering Meeting

Consensus Decisions

- None

13 August 2019 Action Items

- In response to Weston Solutions’ question on the review status, Department of Energy and Environment (DOEE) and Environmental Protection Agency (EPA) Region III confirmed that EPA Region III and DOEE are currently reviewing the Draft Final Soil Remediation Property Report for the Spaulding-Rankin property and will submit comments soon.

Tuesday 13 August 2019

A. Site-Wide Remedial Action (RA)

The goal of this segment of the meeting was to review the status of the Site-Wide Remedial Action.

Weston Solutions provided a brief update on the Site-Wide Remedial Action (RA).

1. Residential Properties Update

a. Recent Activities

Intrusive Investigations:

- December 2018: 4 Grids (H4-H7 West).
- February 2019: 5 residential properties.
- April 2019: 9 residential properties. Most are complete except for 3 hardscape excavations that will require permitting.
- June 2019: 12 residential properties. Most are complete except for 3 hardscape excavations that will require permitting.

b. June 2019 Intrusive Investigations Results

- Intrusive investigations conducted at 12 properties.
- No Munitions and Explosives of Concern (MEC) or Material Potentially Presenting an Explosive Hazard (MPPEH) items recovered.
- Recovered 19 munitions debris (MD) items. All MD items were head-spaced by Edgewood Chemical Biological Center (ECBC) for mustard (HD) and lewisite (L). All sample results were non-detect for HD and L.

- The team encountered more MD items in the Static Test Fire area to the south rather than the Function Test Range/Impact Area 1.

c. Progress Since the June Partner Meeting:

- Landscape plans approved by four more property owners. Obtaining approvals of landscape plans has been challenging; property owners on travel or summer vacations have not given approvals as quickly as the first group of 26 properties.
- An owner of a completed property on the right side of the static test fire area requested that the team survey the rest of the property outside the area of focus when an MD item was found at the property in June. The team will complete that survey as well.
- Advanced Geophysical Classification (AGC) surveys began at 5 properties and work continued in Dalecarlia Woods.
- Began site preparation phase at 23 new properties; HD video, landscape surveys, arborist inventory appraisals.
- Work initiated at 67 of the 92 properties.
- Intrusive excavations have been completed on 20 of the 26 properties that have begun intrusive work.

d. Current Status of Properties

- Hardscape excavations on 6 properties require District Department of Transportation (DDOT) permits. The permits for 2 of the first 3 properties from April have been approved and the last April permit is expected to be approved in the next 2 weeks. The 3 permits for June are pending.
- The first property summary memo is being finalized, to include excavation results and a summary of the work performed on the property. The memo is expected to be submitted to Department of Energy and Environment (DOEE) and Environmental Protection Agency (EPA) Region III in the upcoming weeks. Once the content and format is approved by DOEE and EPA Region III, Weston Solutions will draft property summary reports for the remaining 19 properties that have completed intrusive investigations.
- No new Root Cause Analyses (RCAs).
- A new Field Variance Form (FVF) presented the use of an air-spade for intrusive anomaly investigations near tree roots. The FVF has been approved.

In response to a question from U.S. Army Corps of Engineers (USACE) Baltimore District, Weston Solutions explained that 8 landscape approval plans have not been finalized yet and 5 more landscape plans will be presented this week. Some of the 8 landscape plans were presented to the homeowners a couple months ago.

In response to a question from DOEE, Weston Solutions and Rebecca Yahiel, ERT - Community Outreach Team explained that the landscape plans have not been approved because some homeowners are traveling or do not have time to deal with the landscape plans at this time. Some homeowners are waiting to hear back from their own landscapers, and those landscapers are in the busy season. No property owners in this group have refused to work with the Outreach Team.

In response to questions from USACE Baltimore, Weston Solutions explained that 23 landscape plans need to be approved by homeowners; 5 landscape plans will be presented on August 16 and 18 landscape plans will be presented after August 16. Every week more properties are added to the process. The preferred size of a group of properties for mobilization of the team for intrusive work is 16 properties; 4 are ready now and 12 more properties with approved landscape plans are needed.

2. Public Safety Building (PSB)

a. Recent Activities

- Conducted pot-holing using a hydro-vac and air spade to locate American University (AU) copper water line that crosses the slope above the former PSB foundation and check location of possible sanitary sewer line from Jack Child Hall the week of July 8. The team did not encounter the sewer line but will continue to search for the sewer line and take appropriate measures to divert the sewer line around the building during excavation.
- Worked with AU utilities group to ensure the work to remove concrete piers and sidewalks does not interfere with AU utilities.
- Encountered 1 MD item (identified as a mortar tail boom) in pothole EE03 at 2.3 feet depth. Headspace analysis was negative for HD and L.
- Encountered a variety of glass bottles, including a milk bottle and a beer bottle. The milk bottle is on the table at the federal compound.
- Encountered a glass bottle neck with cork intact at 3.5 feet during the excavation to cap the water line on the eastern side of the former PSB. The item was unsealed and did not contain a liquid or solid substance. No odors or stained soils were observed. Headspace analysis of the item and soil below the item were negative for agent. The glass neck with cork is on the table at the federal compound.
- Conducted PSB concrete demolition of the 2 piers that supported a bridge to the former PSB from the parking lot and removal of the sidewalk and patio area on the slope above the former PSB the week of July 22. Transported the concrete to Machado Construction in Halethorpe, MD for disposal.
- Completed cutting and capping of the AU water line on August 5.

b. Current Schedule

- Scheduled to begin excavation of soil on the slope above the former PSB foundation the week of August 26 – after AU student move-in week.
- Current schedule projects that PSB demolition and excavation work will take 6 to 8 weeks in August, September, and October, followed by site restoration.

c. PSB Planned Tasks

- Update Erosion & Sediment (E&S) controls plan and drawings – needs DOEE approval.
- Complete E&S controls installation at the top of PSB slope. This work was delayed because the team needed to remove the concrete before installing the E&S controls.
- Excavate and bench the soil on the slope above the former PSB to allow for safe excavation of soil below the former PSB concrete foundation.
- Conduct magnetometer and visual inspection of slope soil and investigate metal or potential AU Experiment Station (AUES) items at 1-foot intervals/lifts. Collect soil analytical samples of slope soil for chemical warfare agent (CWA), agent breakdown products (ABPs), metals, explosives, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and Cyanide (CN) to characterize the soil for use as backfill.
- Load and move slope soil to federal compound for temporary storage – soil to be reused to backfill the former PSB location.
- Cut and remove gas line and water line as the excavation proceeds. The gas line will not be replaced but the water line will be replaced after the excavation is completed.
- Begin PSB block wall, concrete slab, and footer removal; breaking up of the concrete and transport to King and Queen Landfill for disposal.

d. Field Variance Form (SV-FVF-001)

Preparing Field Variance Form (SV-FVF-001) to document updated handling of MD and broken/open glass items with no indication of CWA as part of the Low Probability Contingency Plan. No need to stop work, cover the area, and wait for headspace analysis prior to continuing work.

Moving forward, if unsealed glass items are found which do not contain liquid or solid substances and no soil staining or odors are observed in the area where the item is found, then work can resume at that location without waiting on headspace results or direction from USACE Baltimore. The items will still be labeled, bagged, and transferred to ECBC for headspace analysis. These items can be grouped on a daily basis for a single headspace analysis.

3. Spaulding Rankin

The Draft Final Soil Remediation Property Report for the Spaulding-Rankin property was submitted to EPA Region III and DOEE on May 25.

In response to Weston Solutions' question on the review status, EPA Region III and DOEE confirmed that EPA Region III and DOEE are currently reviewing the Draft Final Soil Remediation Property Report for the Spaulding-Rankin property and will submit comments soon.

Weston Solutions noted that while the review is not time-sensitive, the regulators' comments help inform and adjust the next reports.

B. 4825 Glenbrook Road

The goal of this segment of the meeting was to review the status of 4825 Glenbrook Road.

Parsons provided a brief update on 4825 Glenbrook Road.

1. Recent Activities

- Completed all (As) grids to the extent practical.
- No As hotspots above 20mg/kg except for Area 4 and the north wall of Grid -10, 90.
- The As in Area 4 is included in the site risk assessment with other metals.
- The north wall of Grid -10, 90 would need to be addressed on the fall/winter timeframe.

2. Recent Find

- On July 22 the team was over-excavating the north wall of Grid -10, 90.
- At 1350 the team found an item, believed to be an intact AUES bottle. At the time the bottle was discovered, the team reported a new odor similar to the odor associated with encountering chemical agent contaminated media (CACM).
- The team was instructed to immediately suspend all intrusive activities, take pictures, and begin mitigation of the excavation area and roll-off box.
- By 1420 mitigation was complete and the team processed through the Emergency Personnel Decontamination Station (EPDS). Personnel had no symptoms at the time and the Site Safety Officer (SSO) continued to monitor the personnel. No symptoms such as diarrhea, headaches, respiratory issues, or blisters were reported.
- At the time of the find the team was filling a roll-off box and the box is ~half full of soil. The roll-off is stored at the federal compound.
- After personnel processed through the EPDS, the personal protective equipment and decontamination water were collected and drummed for disposal.
- When the team found the bottle there appeared to be a black substance at the bottom of the bottle.
- The hole was covered with plastic and secured with sandbags.
- No odors were present when the hole and roll-off were covered.

3. Recent Find Analytical Results

- On July 22 ECBC collected the bottle and 3 soil samples (1 from the roll-off, the location of the item, and where the item fell in the hole).
- On closer inspection, there was no substance to sample.

- The headspace analysis of the bottle is pending.
- The soil samples tested negative for low level agent and ABP.
- Hazardous and toxic waste (HTW) lab results pending.
- The hole has been backfilled completely over the plastic mitigation.

In response to a question from DOEE, Parsons confirmed that if the Project Delivery Team (PDT) and the Partners ask the team to continue working, work will continue. Work would be planned in the fall and winter, likely in Level B PPE. ECBC may conduct the work in Level C. Excavations would be conducted in open air as part of the low probability protocols.

4. Near and Mid-Term Schedule

Parsons met with the risk assessors on August 12 and calculated the 95% upper confidence level (UCL) for the compounds that exceeded the risk-based screening criteria; either the background or EPA risk-based criteria (RBCs).

The thallium (Tl) level was the only issue. Parsons calculated the UCL and then ran the risk numbers for Tl. The Tl has a hazard quotient of greater than 1, however the UCL is lower than the background at 2.2. The risk assessors believe that since the UCL is below the background range there is no potential risk and hotspots will not be excavated.

Parsons plans to present the data and risk analysis to the PDT by PowerPoint. If the PDT concurs with the approach, the approach will be documented formally for review by the Partners. The current plan is to calculate the UCL, run that number through risk analysis to determine if the level presents a hazard, and then if the level presents a hazard, determine how much fill material would be covering the hotspots.

In response to a question from Parsons, USACE Baltimore explained that USACE Baltimore is awaiting confirmation of the Final AU Glenbrook Road Properties Restoration Plan from AU.

In response to a question from USACE Baltimore, Parsons confirmed that the validation of the data and risk analysis is expected by the next Partners meeting, if not sooner. Parsons noted that the document would not be a full risk assessment but a summary of the data and proposed approach.

5. Tentative Long-Term Schedule

- Summer - Final HTW removal.
- Fall/Winter - Address remaining Area 4 and Grid -10, 90 soil in roll-off. Possibly address Area 4 and Grid -10, 90. Start of site restoration for Glenbrook Road sites - 4801, 4825, and 4835.

In response to questions from DOEE, Parsons and USACE Baltimore explained that excavations along the shared property line with 4835 Glenbrook Road have been completed, and soil was added back into the area to prevent water pooling up against the foundation. Prior to the last Partner meeting, CACM, low levels of agent, and ABPs were found in some locations along the foundation, but as the work went past where the incident occurred in August, the source material dissipated. Since the last Partner meeting, the team did not encounter CACM, ABPs, or agent-positive soil. Since the work in Area 2 was postponed and the potential source material has been removed, USACE Baltimore directed ECBC to install the sub-slab soil gas samplers in the basement of 4835 Glenbrook Road. The installation is expected the week of August 19, and the samplers must be in place for 3 weeks. Analysis of the results takes ~6 weeks.

C. Groundwater Feasibility Study (FS)

The goal of this segment of the meeting was to review the status of the Groundwater Feasibility Study.

The U.S. Geological Survey (USGS) has completed the redevelopment of the sampling wells near Kreeger Hall and along Glenbrook Road. The wells will be allowed to settle after the redevelopment and will be sampled after the Labor Day break. If the wells are sampled in early September, the results are expected in

October after the standard 30-day turnaround at the lab. The development of the wells went well, all the wells were in good shape and no difficulties were encountered by USGS.

D. Open Issues and New Data

Restoration Advisory Board (RAB)/Technical Assistance for Public Participation (TAPP) Consultant:

Last week R. Yahiel sent introductory materials of potential small 8a firms in the DC area that might serve as TAPP advisor to members of the RAB. Out of the initial list of 18 firms across Maryland (MD), DC, and Virginia (VA), only 2 candidates met requirements. USACE Baltimore asked the firms to provide introductory materials about the firms' background and project experience. Since the mailing will likely be discussed at the next RAB meeting, USACE Baltimore recommended EPA Region III and DOEE read the mailing before the RAB meeting.

The initial 18 firms were identified through database searches. Once more information was found about the kind of work each firm performed, only 4 firms had the experience necessary to be an advisor. Of the 4 firms, 1 firm just graduated from the 8a program and was no longer eligible, and 1 firm was too busy to submit a candidate. The last 2 firms indicated interest and sent in the materials.

In response to a question from DOEE, USACE Baltimore explained that 1 firm is based in DC and the other firm is based in MD. The MD-based firm, ATI, is a satellite office in Columbia, MD with their main office based in Atlanta, Georgia. The firm in DC has not performed USACE work and is therefore independent and neutral. The ATI firm has performed USACE work in the past and currently has a contract to perform construction support for USACE Baltimore. ATI does not hold an environmental work contract with USACE Baltimore and appears to have better experience in a broader range of environmental projects.

In response to a question from DOEE, USACE Baltimore explained that ATI proposed to find an expert to submit as a candidate. The first candidate ATI suggested is a professor at the University of Wyoming (UW). USACE Baltimore expressed concern to the firms that extensive travel for the advisor to attend monthly Partner/RAB meetings would impact the \$25K budget and the amount the advisor is paid for their time. ATI could find someone local if necessary but recommended the professor at UW that had excellent qualifications and expressed willingness to travel. The professor at UW has been a RAB advisor in the past. Only ATI suggested a candidate, while the other firm only gave information about the company.

E. Future Agenda Items

1. Groundwater
2. 4825 Glenbrook Road/4835 Glenbrook Road
3. Site-Wide RA

F. Agenda Building

The next meeting was scheduled for Thursday, October 17, 2019.

G. Adjourn

The meeting was adjourned at 10:24.