



J-8

16 February 2005

Mr. George P. Hollowell  
U.S. Army Corps of Engineers  
Baltimore District  
Environmental Remediation Resident Office  
P.O. Box 56  
Gunpowder Branch  
Aberdeen Proving Ground, MD 21010-0056

19-10306-01

Subject: Contract Number: DAAD05-97-D-7004, Delivery Order 0192  
Bush River Rad Yard  
DCN #11785.001.099 AAAY

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RECEIVED  
REGION 1

Dear George,

Enclosed is one copy of *Addendum 3 to the Site-Specific Work Plan*. Copies of the addendum are being sent under separate cover directly to Don Green, Frank Vavra, and Jim Schmidt. Once the document has been reviewed by OPSEC, a copy will be forwarded to Curtis DeTore.

Please call me at 410.612.5900 if you have any questions.

Very truly yours,  
WESTON SOLUTIONS, INC.

Corinne L. Murphy, P.E.  
Project Manager

cc: Don Green, DSHE (2 copies)  
Frank Vavra, EPA (1 copy)  
Curtis DeTore, MDE (1 copy)  
Jim Schmidt, NRC (1 copy)  
DCN File

Enclosure

**ADDENDUM 3  
To the  
SITE SPECIFIC WORK PLAN (SSWP)**

**BUSH RIVER STUDY AREA  
RADIOACTIVE WASTE MANAGEMENT FACILITY  
NON-TIME CRITICAL REMOVAL ACTION**

Edgewood Area, Aberdeen Proving Ground, MD  
Contract No. W91ZLK-04-D-0014  
Delivery Order 0005

**February 2005**



Prepared for

**DIRECTORATE OF SAFETY, HEALTH AND ENVIRONMENT**

U.S. Army Garrison  
Aberdeen Proving Ground, Maryland 21005-5001

Prepared by



**WESTON SOLUTIONS, INC.**  
1309 Continental Drive, Suite M  
Abingdon, Maryland 21009

WESTON W.O. No. 11785.001.099

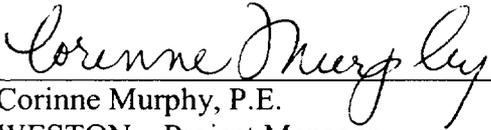
**BUSH RIVER STUDY AREA RADIOACTIVE WASTE MANAGEMENT  
FACILITY REMOVAL ACTION**

**ADDENDUM 3  
To the  
SITE SPECIFIC WORK PLAN**

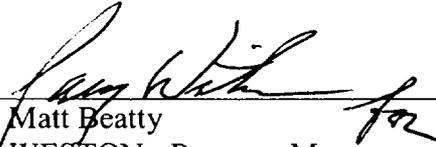
**APPROVALS**

By their specific signature, the undersigned certify that this Site Specific Work Plan is approved for utilization during field activities described herein. These activities are being performed in support of the Base Environmental Support (BEST) Contract located at the U.S. Army Garrison, Aberdeen Proving Ground, Maryland.

Signature, Name, Title

  
\_\_\_\_\_  
Corinne Murphy, P.E.  
WESTON - Project Manager

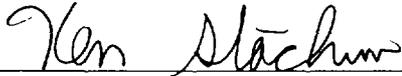
8 Feb 05  
Date

  
\_\_\_\_\_  
Matt Beatty  
WESTON - Program Manager

2-8-05  
Date

  
\_\_\_\_\_  
Don Green  
TCOR  
DSHE

14 Feb 05  
Date

  
\_\_\_\_\_  
Ken Stachiw  
Chief  
ECRD/DSHE

15 Feb 05  
Date

## **1. REMOVAL OF SUMPS AND PIPING**

Subsection 2.9.4.2 (Removal of Sumps and Piping) of the Site-Specific Work Plan for the Bush River Rad Yard states that the wastewater system, including concrete sumps, valve pits, tanks and sewer lines, be removed and loaded out for disposal. The purpose of this addendum is to present a plan to leave the sump (located just north of the Rad Yard) in-place while satisfying the NRC for site decommissioning.

This sump is located just north of the Rad Yard and bordering the 22<sup>nd</sup> Street Landfill. Several unknown mounds surround this sump and excavation of areas near the sump would involve potential hazards that are difficult to quantify due to the unknown conditions in the area. The ultimate goal is to get the Rad Yard site decommissioned, and the intent of this addendum is to describe activities that will remove known contamination, collect samples, and conduct in-situ measurements that will support decommissioning without disturbing the area immediately surrounding this sump.

The sediment inside the sump was recently sampled and analyzed via gamma spectroscopy for radioisotope concentrations. Results indicated low-levels of cesium-137 (6.88 pCi/g) just above the release limit of 5 pCi/g and no significant concentrations of other radionuclides. Portable instrument surveys around the sump did not indicate the presence of contamination in the surrounding soils. In addition, there were two inlet pipes observed in the sump. One was about 12 inches in diameter and came from the direction of the Chemical Agent Storage Yard (CASYS), and the other was about 4 inches in diameter and came from the direction of the Rad Yard. This indicates the sump may have been used for operations unrelated to the Rad Yard, and may even still be in use. Since the cesium concentration in the bottom of the sump is just above the cleanup criterion, the following plan will be implemented for the sump and corresponding underground wastewater pipeline:

- The sediment inside the sump will be cleaned out and added to the rad-contaminated soil stockpile to be disposed. Interior surfaces (walls and floor) of the sump will be surveyed according to the procedures used to monitor debris and other structures at the site. Decommissioning with the sump in-place is supported if the survey results

are all below the release limits. Further study and possible decontamination will be required if the release limits are exceeded.

- The 4-inch pipe that terminates in the sump is believed to be the wastewater pipeline from the Rad Yard. That line will be excavated up to the Rad Yard fence line as part of the on-going project. During the excavation and removal of that pipe, or any other pipe that may ultimately be identified as connecting with the sump, samples will be collected and analyzed and contamination measurements will be performed along the pipe and along the interior of the trench in accordance with the existing Work Plan.
- If sample results or radiation surveys detect levels below the applicable release criteria, wipe samples and instruments surveys will be performed at the pipeline openings, and the ends of the pipe (in the sump and at the Rad Yard fence line) will be capped and left in-place along with the sump.
- If sample results or radiation surveys detect levels above the applicable release criteria, further study and possible decontamination or excavation will be required to meet decommissioning requirements.