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MINUTES OF THE RESTORATION ADVISORY BOARD MEETING HELD ON 9 APRIL 2013  
AT RIDERWOOD VILLAGE NSWC WHITE OAK MD (PUBLIC DOCUMENT)  
04/09/2013  
DEPARTMENT OF THE NAVY



# **NAVAL SURFACE WARFARE CENTER – WHITE OAK**

## **Restoration Advisory Board (RAB) Meeting Minutes**

### **Riderwood Village, Calverton, MD**

#### **April 9, 2013**

#### **RAB Members Present at Meeting**

Armalia Berry-Washington – U.S. Navy, Naval Facilities Engineering Command (NAVFAC)  
Washington

Andrew Dempster – RAB Community Co-Chair, FDA

Linda Gustafson – Maryland Department of the Environment (MDE)

#### **Others Present at the Meeting**

Scott Nesbit – Tetra Tech

Sandy Brown – CH2MHill

Stacy Davenport – CH2MHill

Bob Ridgway - Community resident

Jay Collert – FDA ESEM

Matt Amann – FDA ESEM

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**WHITE OAK RAB AND PROGRAM-RELATED DOCUMENTS ARE AVAILABLE AT  
NAVFAC WASHINGTON**

## FINAL

### 1.0 Welcome/Introductions (Ms. Armalia Berry-Washington)

Ms. Berry-Washington opened the meeting at 6:10 P.M. and welcomed everyone. The attendees introduced themselves.

Mr. Dempster had a question about whether the Five-Year Review was finalized. It was verified the Five-Year Review was completed and an email was sent to the RAB members with the public website link to the final version of the document. Mr. Nesbit offered to verify whether Mr. Dempster was included on the distribution and will send the information if needed.

### 2.0 RAB Minutes Discussion/Approval

There were not enough RAB members present at the meeting to approve the 2012 RAB meeting minutes. Because of this, the Navy will request the 2012 RAB meeting minutes be approved via email.

### 3.0 Remedial Action Update (Sandy Brown, CH2M HILL)

Ms. Sandy Brown (CH2M HILL) presented a brief update of the status at the following sites:

#### Site 4 – Chemical Burial Area

- Enhanced *In-situ* bioremediation with soil vapor extraction (SVE)
- Remedial Action Phase I and II completed
  - Installed SVE and injection wells in 2007
  - SVE system turned on July 2007; operation suspended
  - Emulsified Oil Substrate (EOS) injection in three phases (to treat three areas of the plume); Phase I well installation completed September 2007; Phase II injection wells completed in November 2008; Phase III wells constructed October 2009.
- Phase I injection (100-series wells) September 2007; Phase II and Phase III (200- and 300-series wells) substrate injections completed in November 2009
- Significant reduction in contamination through reductive dechlorination since baseline sampling in 2007.
- Long-term monitoring is ongoing, the most recent sampling conducted in December 2012.

#### Site 7 - Ordnance Burn Area

- All remedial actions completed and in long-term monitoring phase (annual monitoring)
  - Injections were completed in 2005 and 2006.
  - The main contaminants of concern (VOCs) have achieved cleanup goals. RDX is the only contaminate of concern at Site 7.
  - Long-term monitoring is ongoing, the most recent sampling event was in January 2013.

#### Site 9 - Building 318

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- All remedial actions completed and in long-term monitoring phase (annual monitoring)
  - Primary source of VOCs was sump in Building 318
  - Enhanced in-situ bioremediation; initial injection of EOS in 2003; soil removal in 2005; re-injection in 2006
  - All VOC concentrations have achieved cleanup goals. RDX remains elevated at one location and Iron is elevated at one location.
  - Long-term monitoring is ongoing, the most recent sampling event was in January 2013.

Mr. Nesbit asked how the PRGs are determined and if the risk is calculated based on all of the COCs. Ms Brown confirmed that PRGs are determined based on all COCs. Mr. Nesbit noted that if the risk assessors were to run a calculation based on the one RDX slight exceedance than it would indicate no risk.

### **Site 13 – Former Oil Sludge Disposal Area**

- Treatment of groundwater contamination with chemical reduction [zero-valent iron (ZVI)]
  - An initial injection was completed in 2005
  - Offsite injections completed on Percontee property in June 2010
  - Significant contamination reduction has been observed since the initiation of the remedial action, however concentrations of VOCs, RDX, and Iron still remain above cleanup goals at some locations.
  - Long-term monitoring is ongoing, the most recent sampling event was in October 2012.

### **Site 49 – Groundwater Contamination 400 Area**

- Groundwater treatment completed – immediate reaction using in-situ chemical oxidation (ISCO)
  - Sodium permanganate injection completed September 10, 2007
  - The contamination is in fractured bedrock, which is very difficult to treat.
  - VOC and Iron concentrations continue to remain elevated.
  - Long-term monitoring is ongoing; the most recent sampling event was in July 2012.

Mr. Ridgway asked if Paint Branch runs through this site, Ms. Brown confirmed that it does.

### **SWMU 87 – Building 611 Storage Area**

- Enhanced *in-situ* bioremediation
  - Injection of EOS and pneumatic fracturing completed in June 2007
  - VOC concentrations continue to decrease, two locations have concentrations slightly above the cleanup goal.
  - Long-term monitoring is ongoing, the most recent sampling event was in January 2013.

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### **Site 11 – Industrial Wastewater Disposal 100 Area**

- Monitored natural attenuation except for VOC Plume 2 where EOS was injected
  - The monitoring well network is currently incomplete due to FDA construction. 13 of the 17 wells planned for the monitoring well network have been installed to date.
  - Long-term monitoring is ongoing, the most recent sampling event was in March 2013. Results have not yet been received.

Mr. Nesbit stated that the monitoring wells will be installed as the campus is complete. The monitoring well installation is being delayed so that it does not get in the way of the FDA construction.

### **Operable Unit 2 – Site 1 and Site 2 Landfills**

- Monitoring of closed landfills
  - Includes groundwater, surface water sampling, and cover inspection
  - Minimal groundwater contamination at this site, concentrations are slightly above MCLs.
  - No issues were identified with the condition of the cap during regular inspections
  - Long-term monitoring is ongoing, the most recent sampling event was in January 2013.

Mr. Ridgway noted that the landfill does not have a liner, only a cap.

#### **4.0 RAB/Public Discussion (All)**

Ms. Brown clarified that all sites are in long term monitoring and that there are no current plans for injections or further remediation. Mr. Nesbit noted that it is part of the Five-Year Review to evaluate the data and remedies in place every five years.

Mr. Amann mentioned some employees continue to be concerned with potential exposure to contamination on the Former White Oak facility, and that additional communication regarding the successful cleanup activities is necessary to mitigate that perception.

Mr. Ridgway asked if LTM data have been sent to Dr. Crannell. Ms. Berry-Washington stated that data has been sent to Dr. Crannell and Ms. Brown noted that once further data is finalized they will be sent to Dr. Crannell.

Mr. Dempster asked if Sites are being cleaned to residential standards. Mr. Nesbit affirmed the Navy intends to clean close the site, which includes achieving residential standards. Mr. Nesbit noted that industrial/commercial standards have been achieved for most sites.

Mr. Amann informs the RAB members that by next year the FDA personnel currently at NIH will be moved to FDA's White Oak campus.

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### 5.0 Closing and Wrap-Up

The meeting was adjourned at 6:45 p.m.

**Next RAB Meeting:** The next meeting will be planned for April 2014 likely at the same location (Riderwood Village).

#### **BRAC Clean-up Team Contacts are:**

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