



NAVAL SURFACE WARFARE CENTER – WHITE OAK

Restoration Advisory Board (RAB) Meeting Minutes

Riderwood Village, Calverton, MD

April 12, 2011

RAB Members Present at Meeting

Armalia Berry-Washington – U.S. Navy, Naval Facilities Engineering Command (NAVFAC) Washington
Andrew Dempster - Community Co-Chair, FDA
Richard Price – RAB Co-Chair
Kurt Scarbro – Maryland Department of the Environment (MDE)

Others Present at the Meeting

Betsy Bretz, community resident, and Labquest Partnership
Sandy Brown – CH2MHill
Ken Clare – Prince George’s County Health Department
Dr. Hall Crannell, community resident
Stacy Davenport – CH2MHill
Paula Gilbertson, NAVFAC Washington
Scott Nesbit – Tetra Tech
Rosemarie Neuner – NTEU @ FDA
Steven Richard – General Services Administration
Bob Ridgway – community resident
Mimi Secunda, FDA
Dalton Shaughnessy – NAVFAC Washington
Amy Stattel – Tetra Tech

**WHITE OAK RAB AND PROGRAM-RELATED DOCUMENTS ARE AVAILABLE AT
THE WASHINGTON NAVY YARD, WASHINGTON, DC**

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

Ms. Berry-Washington opened the meeting and welcomed everyone. The attendees introduced themselves.

2.0 RAB Minutes Discussion/Approval

The Board Community Co-Chair Mr. Dempster moved to approve the April 13, 2010 RAB meeting minutes and this was seconded by Betsy Bretz. Mr. Dempster asked about Dr. Crannel's question from last year's meeting, and whether he had received a response. Scott Nesbit said during the remedial action updates, they would provide a follow-up to Dr. Crannel's question from the last RAB meeting.

3.0 Remedial Action Update (Sandy Brown, CH2MHill, and Scott Nesbit, Tetra Tech)

Ms. Sandy Brown (CH2MHill) 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)
- Record of Decision (ROD) signed in 2004
- Remedial Action Completed
 - Installed SVE and injection wells spring 2007
 - SVE system turned on July 2007
 - Emulsified Oil Substrate (EOS) injection in two areas Phase I completed September 2007; Phase II injections in November 2009
- Installation of Phase II injection wells in January 2009; substrate injections (3 phases) completed in November 2009.
- Post-injection quarterly monitoring is ongoing for the first year following the injections.

Ms. Bretz asked whether this remedial method is the best, state of the art technology. Sandy responded that it's widely used and has been pretty successful. Mr. Clare asked whether trichloroethene (TCE) breaks down to cis-1,2-dichloroethene (cis-1,2-DCE), and whether cis-1,2-DCE is breaking down. Sandy responded yes, and the cis-1,2-DCE concentrations have increased. Ms. Bretz asked whether this remedial method would still be the method of choice if they had to do it over again today. Scott responded that yes, it provides the right environment for the microorganisms that are already present in the aquifer to metabolize the contaminants. Also, during the Five-Year review process they are mandated to evaluate the remedy and look whether there may be improved approaches.

Site 7 - Ordnance Burn Area

- All remedial actions completed and in Long-term monitoring phase (annual monitoring)
 - Chlorinated volatile organic compounds (VOCs) and explosive compound RDX in groundwater
 - EOS injections in 2005 and 2006

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- Site contaminants have all been reduced below cleanup goals
- In the near future, this site will likely undergo closeout, whereby the remedial monitoring will be discontinued because the goals have been met. They will have to collect a full set of groundwater samples from the site to comprehensively evaluate site conditions prior to closeout.

Ms. Bretz provided a history of the cleanup and public involvement process of the base, for those who were new to the RAB meetings.

Site 9 - Building 318

- All remedial actions completed and in Long-term monitoring phase (annual monitoring)
 - Site origin was leaching wells in the 300-area of the property
 - Site contaminants are VOCs
 - Primary source of VOCs was sump in Building 318
 - Initial injection of EOS in 2003; re-injection in 2006
 - Remedy has been very successful in meeting remedial objectives, and they will evaluate closeout of this site in a couple years.

Mr. Clare asked whether there has been any rebound of RDX, or whether perchlorate has been detected at Sites 7/9. Sandy said no.

Site 49 – Groundwater Contamination 400 Area

- Chemical Oxidation
- Remedial Action Completed
 - Sodium permanganate injection completed September 10, 2007
 - Fractured bedrock – monitoring will likely last longer than it typically does
 - Annual monitoring is ongoing; they have seen some reduction in contaminant levels since injection (about half of the wells have reached goals)
 - No future injections are planned at this time; Sandy said they may evaluate other remedial technologies for this site in the future, if needed.

Site 13 – Former Oil Sludge Disposal Area

- Chemical reduction (zero-valent iron) injection – 2005
- Remedial Action complete
- Contaminant concentrations were successfully decreased on the Navy property
- Offsite injections completed on Percontee Quarry property in June 2010
- Quarterly monitoring planned for one year after offsite injections, and annual thereafter
- Long-term monitoring underway

Mr. Dempster asked whether they are monitoring the plume off site. Sandy said yes, they installed three new monitoring wells on the quarry property last summer.

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Mr. Scott Nesbit (Tetra Tech) presented a brief update of the status at the following sites:

SWMU 87 – Building 611 Storage Area

- Enhanced *in-situ* bioremediation
- Remedial Action Completed
 - Injection of emulsified soybean oil mixture and pneumatic fracturing completed by June 2007
 - Long-term monitoring ongoing (next sampling event in September 2011)
 - Remedial action has worked very effectively

During the last meeting Dr. Crannell suggested that the graphical plot presented for well #201 did not accurately represent the data. Scott indicated that the issue with the graph has been addressed.

Site 11 – Industrial Wastewater Disposal 100 Area

- Monitored natural attenuation except for VOC Plume 2 where EOS was injected
- Monitoring being coordinated with FDA construction
- Last sampling event was in October 2009
- Wells in the monitoring network are going to be replaced in the near future, and in the fall of 2011 they plan to install another 10 wells.

Ms. Bretz indicated that they are starting construction on the extension of the Central Utility Plant. Scott said they don't have plans for any wells there. Mr. Dempster said they will be running utilities in from this area along the roadway. Scott said they have been coordinating the locations of the proposed wells with GSA. Mimi said the White Oak Green Team is planning to construct a garden. They are looking at somewhere near the proposed daycare facility to site the garden. Mimi mentioned that GSA has a new contact, a facility safety officer, who should also be contacted concerning the well installations.

Operable Unit 2 – Site 1 and Site 2 Landfills

- Monitoring of closed landfills
 - Includes groundwater, surface water sampling, and cover inspection
 - Sampling conducted every 15 months (next event in December 2011)

Scott said the Navy is responsible for the monitoring and GSA is responsible for the mowing.

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4.0 RAB/Public Discussion (All)

Ms. Bretz asked what will be happening in the future. Scott said they are following long-term monitoring plans until the remediation goals are met. Each long-term monitoring plan has an exit strategy that spells out what needs to be done to show that the cleanup goals have been met. The line of evidence to demonstrate they have met the goals or it may take a couple of years (with one sampling event per year, currently).

Mimi asked whether there is any monitoring of the wildlife. Ms. Bretz said that GSA is monitoring the wildlife.

5.0 Closing and Wrap-Up

The meeting was adjourned at 8:10 p.m.

Next RAB Meeting: Scott said the next meeting was planned in April 2012. The meeting would likely be held at Riderwood Village, unless there was a desire to have it at the FDA campus.

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