



**Update for Environmental Committee
BNAS Environmental Cleanup
May 14, 2009**

Summary: The Navy has been reviewing and analyzing data from their fall 2008 fieldwork. Several completed draft reports are due out in June 2009; in the meantime, here are some preliminary conclusions.

High Priority Sites:

Site 17 – Former Building 95

- The field work done last fall included completion of 45 borings and installation of four monitoring wells. The data is currently being evaluated and a draft report is due in June.
- Initial findings indicate that pesticide concentrations exceeded the screening criteria at three borings. In addition, arsenic exceeded the EPA guideline of 0.39 parts per million (ppm) in most samples but only exceeded the DEP guideline of 10 ppm in two samples.
- The Navy is trying to obtain funding to clean up this site in 2009. They would still like to have a Record of Decision (ROD) completed for Sites 17 and 7 in parallel, by end of 2009.

Site 9 – Neptune Drive Disposal Area

- The Navy undertook more direct push work to define remaining cleanup areas north and south of Site 9 excavation and completed this work in fall 2008. Twenty-one soil samples were collected for lab analysis of VOCs, SVOCs and metals. Ash was visible in 80% of the samples, ranging in thickness from 1 to 10 inches. Polyaromatic hydrocarbons (PAH) associated with the ash from Site 9 were detected above screening criteria in some of the samples.
- The next step is to collect chemical data and conduct a risk assessment to decide how much more remediation needs to be done.

Petroleum Oil & Lubricants (POL) 2 – Naval Exchange Service Station

- The Navy's contractor carried out fieldwork for pre-design sampling in fall 2008. The soil removal/cleanup will take place in summer 2009; tanks will also be removed at this time.

Site 7 – Old Acid Caustic Pit

- The direct push soil program field work to determine if any additional soil removals are required was rescheduled from fall 2008 to this spring.
- Elevated metals (e.g. cadmium) previously detected in groundwater monitoring wells and source of metals may still be present in soils.
- Record of Decision clearly states that soil removal is needed if the use change, so we need to look at that again and be sure that is being followed. The Navy is seeking funding for source removal.

POL 1 – Old Navy Fuel Farm

- Sampling of soils/groundwater planned for May 2009. The final work plan for this site is planned for 2009.

Eastern Plume/1,4 Dioxane & Bedrock Groundwater Assessment

- Various activities have taken place as part of 1,4-D investigation: monitoring well installation, groundwater sampling, hydraulic conductivity testing, bedrock investigation. A report is being prepared and will be completed in summer 2009.
- The Navy has assembled a group of experts called the “Tiger Team” to look at the GWETS and whether there are “in-situ” (on site, using and simulating the natural processes in the soil) remedial techniques for the Eastern Plume.
- Pilot Test at GWETS/Eastern Plume to determine best treatment for 1,4-Dioxane – Summer 2009.

Other Investigations:

Munitions of Concern (MC)/Munitions of Explosive Contamination (MEC) Investigations

- Initial fieldwork investigation for three MEC sites has been completed: Site 12 (Explosives Ordnance Disposal – EOD); the Former Munitions Bunker West; and the Quarry. At all three sites, an Unexploded Ordnance (UXO) sweep was conducted. Once the areas were deemed safe, a geophysical survey was conducted.
- Site 12: The team found smoke grenades and a rocket motor during the UXO sweep. The geophysical survey found numerous anomalies, consistent with the history of this site. There were 161 anomalies detected, extending out further than they believed they would.
- The Former Munitions Bunker West site (grassy/wooded area, about 29 acres): No surface metal was found during UXO sweep; numerous low-intensity anomalies were detected, which could be naturally occurring magnetic minerals. No large problems anticipated for this area.
- Quarry: This site is complicated because there was also waste dumping in this area. The team is still researching whether or not EOD type operations were conducted here. The UXO sweep found a rocket motor, which was unexpected. Numerous anomalies were found, which may be indicative of trash or MEC.

- Based on the results of the MEC investigations, further investigation/removal of the surface and subsurface for MEC is recommended for the three areas. MEC activities will be conducted at all three areas before MC activities begin.
- MC fieldwork planned for Spring 2009

Historical Radiological Assessment (HRA)

- HRA is Navy documentation of radiological history of site to identify potential, likely or known sources of radioactive material and contamination. Recommendations are then made for future radiological actions.
- It will include comprehensive research of historical archives, including national archives, site walkovers and interviews.
- The Navy awarded a contract and plans to complete the work by March 2010.