

POLREP 64  
NanoChemonics Site  
4 Magnox Drive  
Pulaski, Pulaski County, Virginia 24301

Lat: N 37.04718  
Long: W 80.79146

ATTN: RRC  
VADEM -Tolbert  
VADEQ - Lohman  
EPA - G. Heston

I. SITUATION (as of December 20, 2013)

EVENT: Site Cleanup Operations

- A. Refer to previous Polreps for site background information.
- B. STNP, the owner of the NanoChemonics property, is conducting a response action and cleanup of the Site under an EPA order. The Administrative Settlement and Order was signed on April 8, 2011, and response actions continue. In brief, the response action involves the removal of hazardous substances from the Site and included the removal of such substances found in the debris created during demolition of the buildings at the Site. The action also includes the management of wash waters and storm waters at the Site that migrate towards lagoons and then into nearby Peak Creek.
- C. The response actions related to the lagoons and drying bed began on September 25, 2013.

II. ACTIONS

- A. Activities relating to the lagoon systems are ongoing. STNP contractor ARG continued excavating sludge from Lagoon 3 and placing directly into the drying bed using the excavator. Accumulated water in Lagoon 3 was also pumped into Lagoon 4 and the drying bed to enable cleaning the remaining sludge residuals from the bottom of the lagoon. Only a small amount of residual material remained to be cleaned out of Lagoon 3 when the EPA START contractor departed the Site to demobe on December 20, 2013. ARG also continued pumping and excavating sludge from Lagoon 4 to the drying bed using a mud pump and excavator.
- B. MAA submitted analytical results for PCB congeners in storm water samples collected on November 26, 2013 from the MO pad and the creek side main sump and copperas area. Analytical results for the MO pad sample indicated a total PCB congener concentration at 476 nanograms per liter (ng/L). This result was lower than results for the previous storm water sampling event in February 2013, which had a concentration of 656 ng/L. PCB concentrations in the creek side main sump were 12.2 ng/L, down from 17.2 ng/L in the previous sampling event in January 2013.

- The copperas area sample had 30 ng/L PCBs, which was an increase from 18.4 ng/L in the previous sampling event.
- C. EPA has established a public repository of site documents at the local library in Pulaski. EPA will also provide public information updates for the site on the EPA site website at: [www.epaosc.org/nanochemonics](http://www.epaosc.org/nanochemonics).

### III. FUTURE ACTIONS

- A. Continue response actions in the lagoon area including removal of sludge from lagoons into the drying bed.
- B. Complete response activities identified on July 27, 2012 inspection list. The remaining item to be completed on the checklist is cleaning ferrous sulfate (aka copperas) from the above-ground storage tank (AST) remaining on the CAB tank containment pad.
- C. Complete cleaning of storm water conveyance trenches and piping. The trench between Lagoons 1 and 2 and the overflow pipe from Lagoon 4 to Lagoon 2 remain to be cleaned out.
- D. EPA will continue providing on-site oversight of remediation activities conducted by STNP and inspect the Site against the required schedule.

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