

POLREP 59
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 November 1, 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. STNP contractor ARG continued pumping of sludge and water from Lagoon 3 into the drying bed using a mud pump and a diaphragm pump. ARG also continued excavating sludge from Lagoons 1, 2, and 3 using the excavator and hauling it to the drying bed. ARG used a bulldozer to push the remaining sludge in Lagoon 1 to the corner of the lagoon where it was dug out with the excavator. Only a small amount of residual sludge remained in Lagoon 1. Much of the remaining sludge was also removed from Lagoon 2 using the bulldozer and excavator. ARG also cleaned and disposed of nine small bottles containing residual amounts of acids that were stored in one of the small storage buildings between Lagoons 1 and 2. Two 50-lb. bags of hydrated lime were also removed from the other small storage building and transported off site to be used for agricultural purposes.
- B. On October 29, 2013, STNP contractors MAA and ARG collected a composite sample of sludge from Lagoon 4. This sampling was required under the EPA Order before the sludge could be moved to the drying bed. The EPA START contractor collected a split sample of the sludge. The samples were submitted for laboratory

analysis for SVOCs, PCBs (aroclor)s, total metals, and TCLP metals. MAA submitted their sample to a contracted laboratory for analysis. The EPA samples were submitted to be analyzed under the CLP program.

- C. On October 30, 2013, VADEQ officials and a group from Virginia Tech came to tour the Site and meet with the EPA OSC. VADEQ officials included representatives from Solid Waste and the Regional TMDL Coordinator. The group from Virginia Tech is assisting the VADEQ in the TMDL study for the Peak Creek watershed. The OSC took the group on a tour of the former NanoChemonics facility. The OSC described storm water drainage at the Site, analytical results for previous storm water sampling, Site cleanup activities that have been completed, and remaining cleanup actions remaining to be completed, including lagoon closure.
- D. 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.

III. FUTURE ACTIONS

- A. Continue lagoon response activities/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. Remove and dispose of hazardous substances found during inspection of the 5,000-square ft. building and the two small building located on the lagoon side of the Site.
- D. Collect additional storm water samples from the MO side of the Site to assist in evaluating completion of the response action involving the former facility buildings.
- E. Transfer remaining water stored in Tanks 9, 10, 327, and 404 to Lagoon 4.
- F. Complete cleaning Tanks 9, 10, 327, and 404 by removing residual water and sludges.
- G. 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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