

POLREP 57  
NanoChemonics Site  
4 Magnox Drive  
Pulaski, Pulaski County, Virginia 24301

Lat: N 37.04718  
Long: W 80.79146

ATTN: RRC  
VADEM -Tolbert  
VADEQ - Lohman  
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I. SITUATION (as of October 17, 2013)

EVENT: Site Cleanup Operations/Lagoon Closure.

- 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 includes 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 to initiate final closure of the lagoons and drying bed began on September 25, 2013.

II. ACTIONS

- A. STNP contractor ARG re-mobilized to the Site to continue lagoon closure activities on October 14, 2013. The EPA START contractor also re-mobilized to the Site on October 14<sup>th</sup> to document Site activities.
- B. ARG installed a new pump in Lagoon 2 and continued pumping water and sludge from lagoon 2 to Lagoon 3. The new pump had limited effectiveness in pumping the thick sludge and ARG made arrangements to obtain a more powerful mud pump.
- C. On October 15, 2013, the lime from the former storage piles was spread in the drying bed with the backhoe/front end loader and excavator. After the lime was spread, ARG began loading dried sludge from Lagoons 1 and 2 and transporting it to the drying bed using a dump truck. Sludge loading and hauling continued through October 16, 2013. Approximately 23 truckloads of sludge were placed in the drying bed during this time. The truck could only be loaded approximately half full in order to allow transport across the drying bed.
- D. ARG used the backhoe to begin cleaning sludge out of the sump on lagoon side near the foot bridge. The remaining sludge will be cleaned out using a vacuum truck.

- E. On START inspected the two small green building located between Lagoons 1 and 2. Contents included two 50 pound bags of hydrated lime (calcium hydroxide) and nine glass bottles containing residual amounts of acids (hydrochloric, sulfuric, phosphoric, and nitric).
- F. 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.epaossc.org/nanochemonics](http://www.epaossc.org/nanochemonics).

### III. FUTURE ACTIONS

- A. Continue lagoon closure 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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