

PUBLIC FACT SHEET

PRS 277/278: Hillside Disposal Area and Catch Basin

This Fact Sheet satisfies the Public Notification requirement set forth in the Contingent Action Memorandum¹.

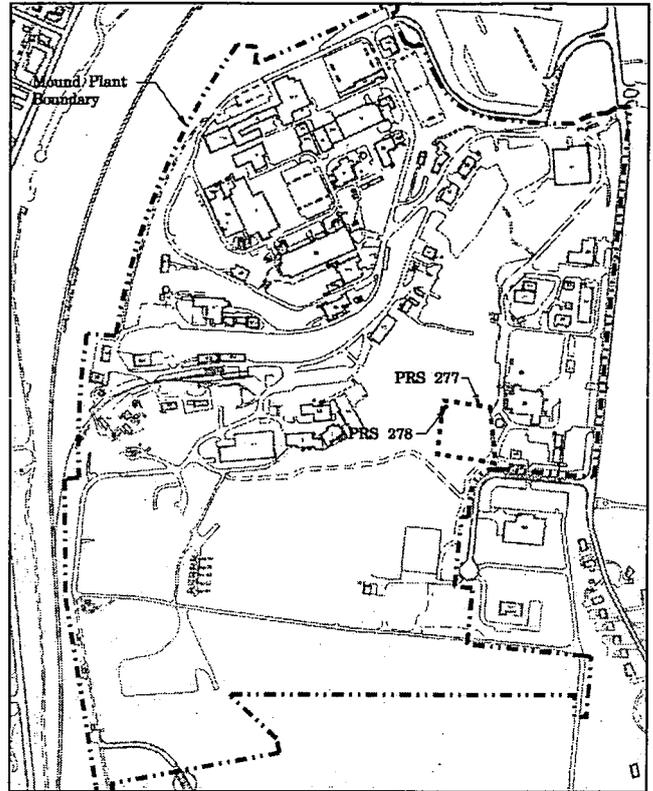
Background. Potential Release Sites (PRSs) 277/278, also known as the hillside disposal area & catch basin, are located on the west slope of the Mound Plant SM/PP Hill. Process history of the PRSs indicated the potential for the presence of construction/building debris, paints, thinners, chemical contaminants, asbestos, thorium, & plutonium-238.

Further Assessment (FA) sampling was performed during the later months of 2000 & during 2001 per the Core Team-approved Sampling & Analysis Plan (SAP). Contaminants of concern (COCs) included lead-210, radium-226, actinium-227, thorium-228, thorium-230, thorium-232, and plutonium-238. Volatile & semivolatile organic compounds (VOCs & SVOCs) were anticipated due to potential disposition of demolition debris. During the FA sampling, a plutonium-238 hot spot was identified & removed. The excavated area was verified to be below screening levels.

Of the eight targeted samples analyzed for SVOCs, one contained a result above cleanup objective (benzo(a)pyrene at 5,100 ug/kg, with a cleanup objective of 4,100 ug/kg). This compound is commonly found in asphalt and other petroleum products & may represent asphalt type debris that was found at various locations within the PRS. No evidence of staining or release of a source material (e.g. creosote) was found during the FA effort. Detected VOC (trichloroethylene (TCE), acetone, and 2-butanone) results were below soil screening levels but evaluated & found not to have the potential for leaching into the groundwater at levels of concern.

Of the 242 samples, eight test pits contained rad (Pu-238, Th-230, Th-232, & Ac-227) results above cleanup objective.

Based on the above results, the Core Team recommended a **Removal Action (RA)** per the Contingent Action Memo¹. RA COCs are Pu-238, Th-230, Th-232+daughter isotopes, & Ac-227.



The **Work Plan** for Contingent Removal Actions², supplemented by the Unique Work Package, includes procedures, instructions, and applicable permits and notifications required to safely conduct the work. Erosion and runoff controls will be managed per the SWP³.

The RA will consist of excavation up to 20 feet deep at 8 locations. Post-excavation sampling will be performed within the excavations per the Core Team-approved **Verification Sampling & Analysis Plan**.

Schedule. This Fact Sheet will be in public review for 30 days, ending 26 September 2002. The RA may be ongoing during the review time. A summary of the RA & the verification data will be included in the On-Scene Coordinator (OSC) Report. The OSC Report will be placed in the reading room in early 2003.

Excavation & verification are expected to cost \$200,000.

Additional information can be found in the public reading room, or by contacting Jane Greenwalt at 865-3116.

1: Action Memorandum/Engineering Evaluation/Cost Analysis, Contingent Removal Action for Contaminated Soil, June 2002, Final
2: Standard Work Package for Contingent Removal Actions, November 2001, Final
3: Storm Water Pollution Prevention Plan