

**Contaminated Soil Area near Outfall 013 West of Little Bayou Creek  
Solid Waste Management Unit (SWMU) Assessment Report**

**SWMU/AOC NUMBER:** 567

**DATE OF SAR:** 12/23/09

**REGULATORY STATUS:** Area of Concern (AOC)

**LOCATION:** Soil Pile K013 are near outfall 013 west of Little Bayou Creek. See enclosed map.

**APPROXIMATE DIMENSION OR CAPACITY:** The K013 soil pile consists of 5 individual piles with the following approximate areas: 2,500 ft<sup>2</sup>; 6,300 ft<sup>2</sup>; 30,400 ft<sup>2</sup>; 31,800 ft<sup>2</sup>; and 3,800 ft<sup>2</sup>. The soil piles are approximately 3 ft high.

**FUNCTION:** No known use.

**BRIEF HISTORY:** This area was discovered between June 2008, when a sampling and analysis plan for other soil piles in the area was approved. The area contained soil piles that likely were generated as a result of past construction activities at Paducah Gaseous Diffusion Plant. This area was characterized with the other soil piles in the area in October 2008 during the Soil Pile Addendum 1-B investigation. The soil piles is not grouped with other soil piles because it is not in close proximity to another.

**PRESENT OPERATIONAL STATUS:** Inactive

**DATES OPERATED:** Unknown

**SITE/PROCESS DESCRIPTION:** Unknown

**WASTE DESCRIPTION:** Contaminated Soils

**WASTE QUANTITY:** Soil Pile K013 waste quantity is estimated to be 8,300 yd<sup>3</sup>.

**SUMMARY OF ENVIRONMENTAL SAMPLING DATA:** As a result of the December 2008 sampling event, risk screening determined the following chemicals of potential concern in the soil pile:

Soil Pile K013

COPC	Depth	Soil Pile	Maximum Value Detected
<i>Radionuclides (pCi/g)</i>			
Uranium-238	Subsurface	K013	1.72 pCi/g

**DESCRIPTION OF RELEASE AND MEDIA AFFECTED:**

<b>GROUNDWATER:</b>	None known
<b>SURFACE WATER:</b>	None known
<b>SOIL:</b>	See Above
<b>ECOLOGY AFFECTED</b> (i.e., threatened/endangered species):	None known

**DOCUMENTATION OF NO RELEASE:** No documentation identified.

**IMPACT ON OR BY OTHER SWMU/AOC:** There is no evidence that this AOC impacts or is being impacted by other SWMUs/AOCs.

**PRG COMPARISON:** Uranium-238 exceeded the preliminary remediation goals (no-action levels for screening criteria) in the subsurface soil sample from location K013303 at Soil Pile K013.

**RFI NECESSARY:** Yes, as identified in the Hazardous Waste Facility Permit (KY8-890-008-982).

**OPERABLE UNIT ASSIGNMENT:** Soils Operable Unit

**PHOTOGRAPH OF SOIL PILE AOC 567**



**AOC 567: December 17, 2009**



**AOC 567: December 17, 2009**

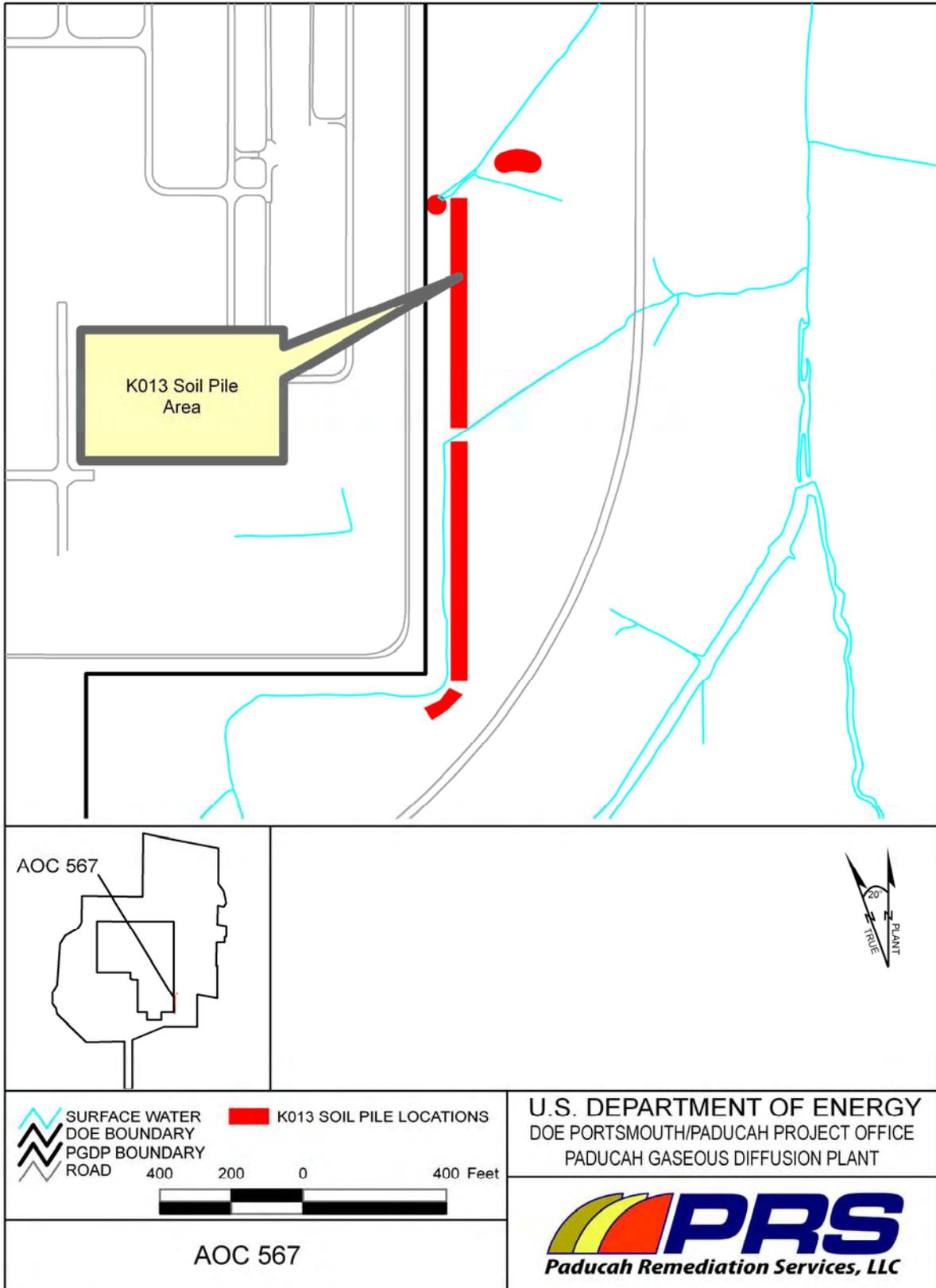


Figure No. SoilPiles/Addendum 1B/567\_SAR\_MAP.mxd  
 Date 12-09-2009