

**DMSA OS-09**  
**Solid Waste Management Unit (SWMU) Assessment Report**

**SWMU/AOC NUMBER:** 220

**DATE OF ORIGINAL SAR:** 12/01/00

**DATE OF SAR REVISIONS:** 7/02/02, 03/01/05, 01/15/11

**REGULATORY STATUS:** SWMU

**LOCATION:** South of the C-409 Facility.

**APPROXIMATE DIMENSION OR CAPACITY:** 10,500 ft<sup>2</sup>

**FUNCTION:** Temporary storage of materials.

**BRIEF HISTORY:** This area was created when the United States Enrichment Corporation (USEC) was formed (1993) to store vehicles and equipment that remained the responsibility of the U.S. Department of Energy (DOE).

This area was deleased by USEC to DOE as a DOE Material Storage Area (DMSA) on December 31, 1996. From May 2001 to October 2001, DOE characterized the materials in this DMSA in accordance with the DMSA Characterization/Remediation Plan, which was incorporated as Appendix E of the 2003 Agreed Order. The *Final Inventory and Characterization Report* (FI/CR) was submitted August 26, 2002, to the Kentucky Division of Waste Management (KDWM). In 2004, the antifreeze removed from the DMSA during characterization was sampled and reclassified as Resource Conservation and Recovery Act (RCRA) waste. As a result, the FI/CR was revised and submitted to KDWM on December 22, 2004. KDWM approved the revised FI/CR on July 28, 2005.

RCRA closure activities were performed as set forth in the *Closure Plan, Post-Closure, and Financial Requirements for SWMU 220 (DMSA OS-09), Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, BJC/PAD-389/R2, submitted on January 5, 2005, and approved on April 14, 2006. The Final Closure Certification was submitted to KDWM on October 18, 2006, and approved on February 13, 2007.

**PRESENT OPERATIONAL STATUS:** Inactive

**DATES OPERATED:** 1993 to 2007

**SITE/PROCESS DESCRIPTION:** An outside DOE storage area located within the Paducah Gaseous Diffusion Plant fenced security area.

**WASTE DESCRIPTION:** The SWMU currently is empty. Newly discovered RCRA/mixed waste formerly stored included a fluorescent light starter, fuses, a metal marker, a battery post connector, vehicle bulbs, collection drums of antifreeze, and various light bulbs. Newly generated RCRA hazardous/mixed waste formerly stored included two wheel weights, several vehicle batteries, bulbs, fuses, and vehicle fluids (e.g., gasoline, oil, and transmission fluid).

Three asbestos brake pads were identified as asbestos containing material/low-level waste (LLW). Reusable materials identified in this DMSA included several vehicle batteries, a waste dumpster, and a front-end loader. Low-level waste formerly stored included motor vehicles (e.g., passenger vehicles, Cushmans, golf carts, a tow motor) and wood/plastic debris. . A detailed description of the characterized waste formerly stored can be found in the FI/CR and revised FI/CR.

**WASTE QUANTITY:** Currently 0 ft<sup>3</sup>; waste quantity removed 9,182 ft<sup>3</sup>

**SUMMARY OF ENVIRONMENTAL SAMPLING DATA:** As included in the FI/CR, radiological surveys were conducted on the concrete pad in 2002, which indicated the presence of fixed contamination. The highest alpha reading was 8,585 disintegrations per minute (dpm)/100 cm<sup>2</sup> and the highest beta/gamma reading was 92,075 dpm/100 cm<sup>2</sup>.

**DESCRIPTION OF RELEASE AND MEDIA AFFECTED:** None known

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

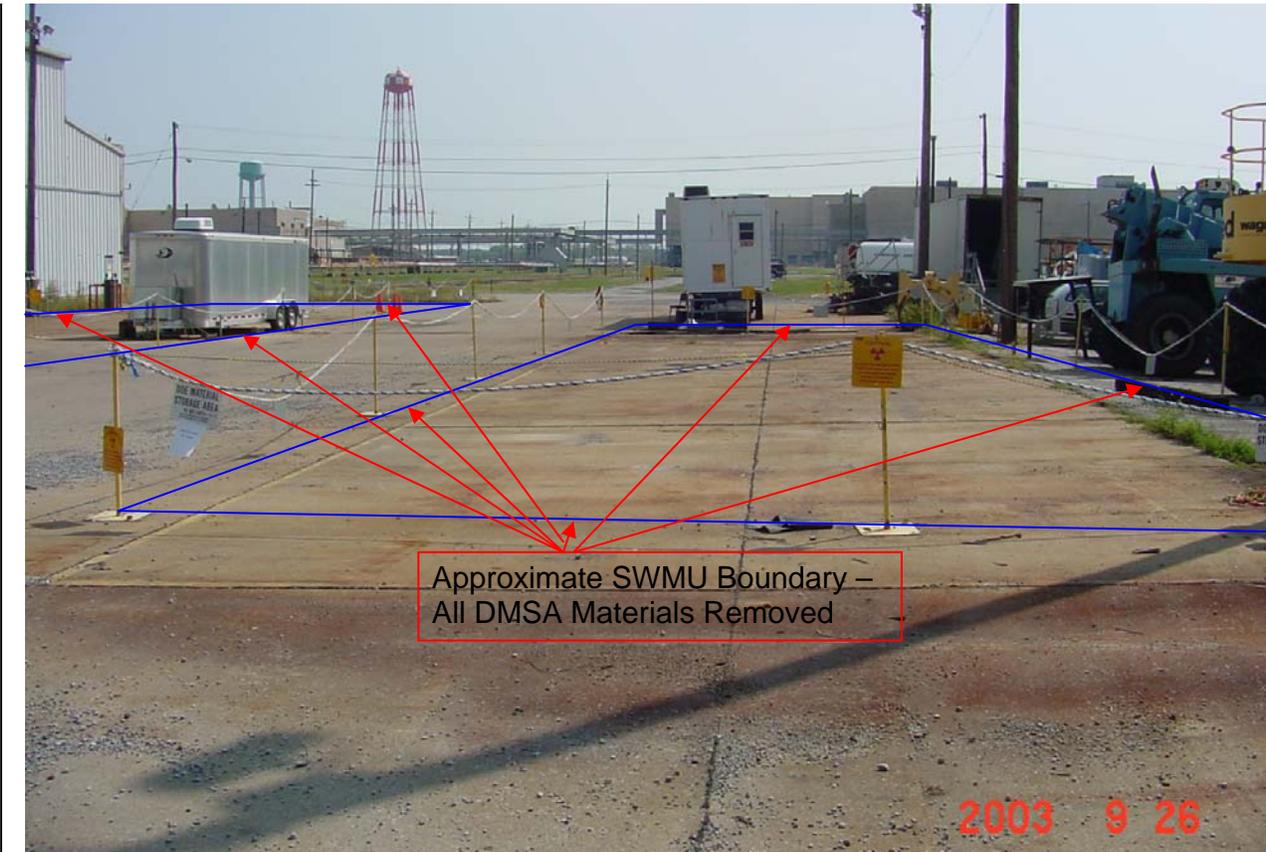
**DOCUMENTATION OF NO RELEASE:** The *Closure Plan, Post-Closure, and Financial Requirements for SWMU 220 (DMSA OS-09), Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, BJC/PAD-389/R2, submitted on January 5, 2005, approved by KDWM on April 14, 2006, and the Final Closure Certification for DMSA OS-09 submitted on October 18, 2006, approved by KDWM on February 13, 2007, document that no signs of spill or release were found. There have been no known spills or releases of materials from this SWMU to the environment.

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

**PRG COMPARISON:** N/A

**RFI NECESSARY:** No. This unit is being proposed for no further action under RCRA because it is no longer active, has no evidence of releases of RCRA hazardous constituents to the environment, and is not believed to pose a risk to human health or the environment.

**OPERABLE UNIT ASSIGNMENT:** N/A



**SWMU 220 (Looking East)  
DMSA OS-09  
September 26, 2003**

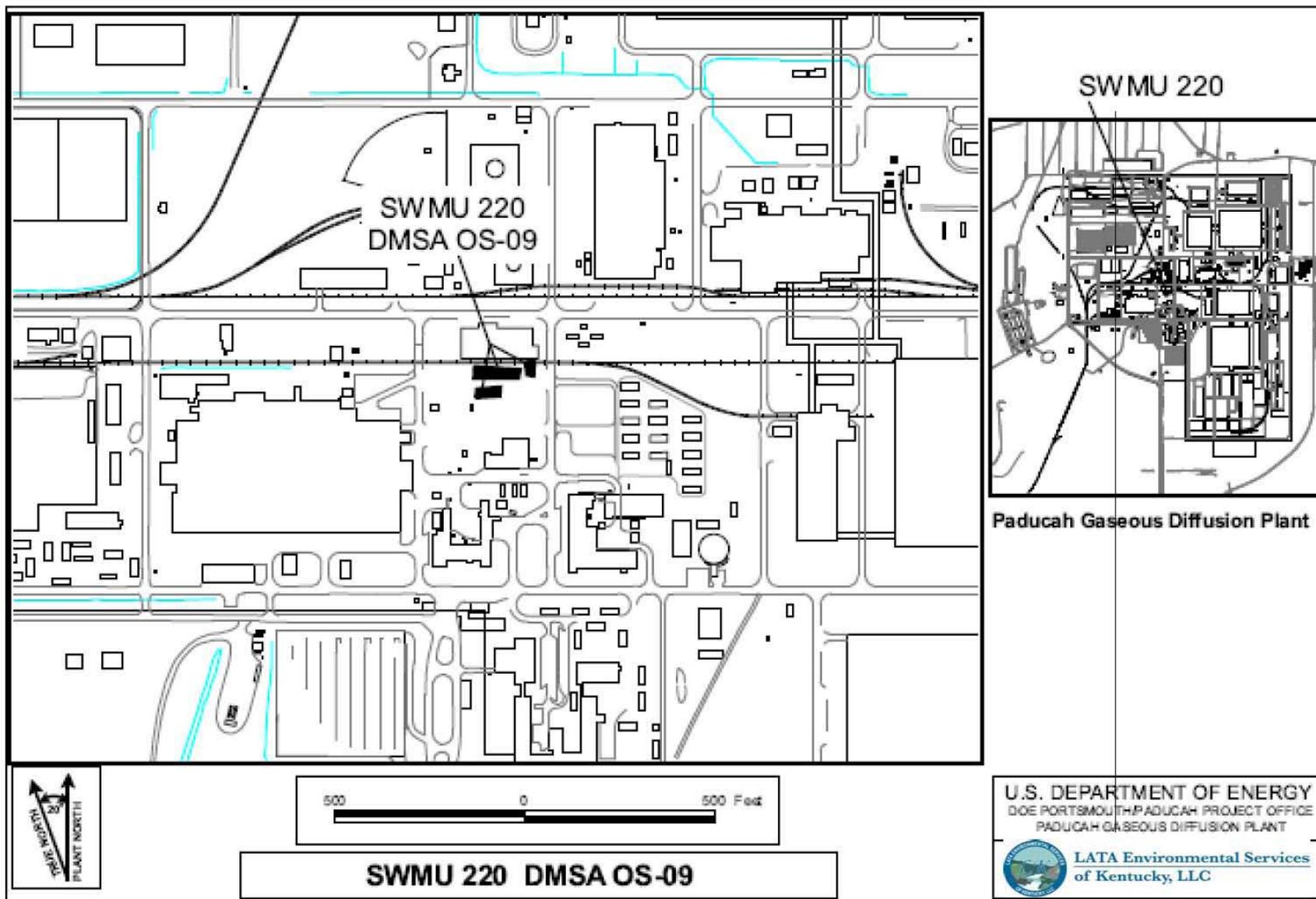


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DATE: 1/25/2011