

DMSA OS-11
Solid Waste Management Unit (SWMU) Assessment Report

SWMU/AOC NUMBER: 222

DATE OF ORIGINAL SAR: 12/01/00

DATE OF SAR REVISIONS: 07/02/02, 03/01/05, and 03/15/09

REGULATORY STATUS: SWMU

LOCATION: East of the C-410 Facility and west of the C-651 Pump House and Cooling Tower. SWMU 222 is at the north end of DMSA OS-11 (the south end of DMSA OS-11 is designated as SWMU 76).

APPROXIMATE DIMENSION OR CAPACITY: 1,738 ft²

FUNCTION: Temporary storage of materials.

BRIEF HISTORY: This storage area was created in 1993 and was used by the United States Enrichment Corporation (USEC) as a place to store miscellaneous materials. This area was released by USEC to the U.S. Department of Energy (DOE) as a DOE Material Storage Area (DMSA) on December 31, 1996. The majority of these materials were radiologically surveyed and sent to the on-site scrap yards around 1998.

From October 2001 to April 2002, DOE characterized the remaining 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 September 16, 2002, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on April 14, 2004.

During the characterization program, antifreeze drained from a gasoline generator was classified as low-level waste (LLW). In July 2004, a sample of antifreeze from heavy equipment in DMSA-OS-17 was characterized and classified as hazardous waste. This prompted the decision to reevaluate the antifreeze from this DMSA in September 2004. This recharacterization revealed that the antifreeze exceeded the Resource Conservation and Recovery Act (RCRA) regulated limit for selenium. 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 222 (North End of DMSA-OS-11), Paducah Gaseous Diffusion Plant, Paducah, Kentucky, BJC/PAD-390/R2*, submitted on January 5, 2005, and approved on April 14, 2006. The Final Closure Certification Report was submitted to the KDWM on September 28, 2006, and was approved by KDWM on February 13, 2007.

PRESENT OPERATIONAL STATUS: Inactive

DATES OPERATED: 1993 – 2006

SITE/PROCESS DESCRIPTION: An outside DOE storage area located within the security fence area.

WASTE DESCRIPTION: The SWMU currently is empty. Newly discovered RCRA-regulated hazardous/mixed waste formerly stored included the antifreeze drained from a gasoline generator and a light bulb base. Newly generated RCRA-regulated hazardous/mixed waste formerly stored consisted of gasoline drained from a pump, two lead battery cables, and waste oils removed from equipment. The Toxic Substances Control Act (TSCA)-regulated polychlorinated biphenyl/LLW formerly stored included a hydraulic ram bender and the oil/water mixture drained from the hydraulic ram bender in this DMSA. The TSCA-regulated asbestos-containing materials/LLW formerly stored included asbestos cloth and cloth tape. All of the material (other than the light bulb base, battery cables, and gasoline) in this DMSA was classified as LLW, including the water pumped from the dike and solid waste items (e.g., ladders, wooden pallets, wooden railroad ties/pieces, miscellaneous rubber hoses, and a ST-90 box containing small items). A detailed description of the characterized waste can be found in the FI/CR.

WASTE QUANTITY: Currently 0 ft³; waste quantity removed 654 ft³

SUMMARY OF ENVIRONMENTAL SAMPLING DATA: No evidence of environmental sampling was found.

DESCRIPTION OF RELEASE AND MEDIA AFFECTED: None known

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

DOCUMENTATION OF NO RELEASE: The *Closure Plan, Post-Closure, and Financial Requirements for SWMU 222 (North End of DMSA-OS-11), Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, BJC/PAD-390/R2, approved by KDWM on April 14, 2006, and the Closure Certification Report for DMSA OS-11 submitted on September 28, 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

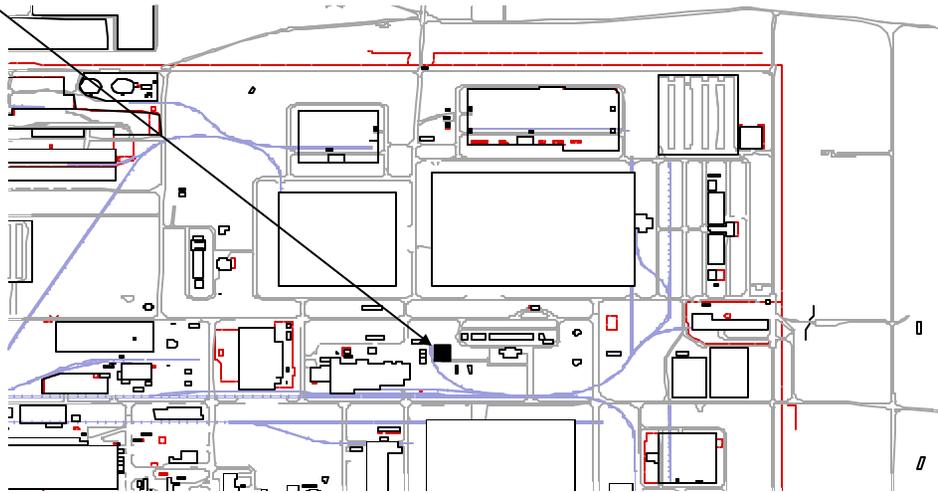
RFI NECESSARY: No. This unit is being proposed for no further action since it no longer is active, has no evidence of releases to the environment, and is not believed to pose a risk to human health or the environment.

OPERABLE UNIT ASSIGNMENT: Soils Operational Unit

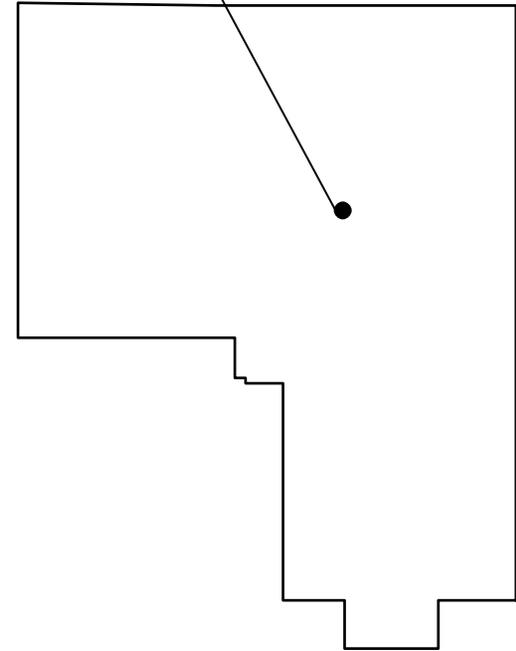


**SWMU 222
DMSA OS-11
August 26, 2008**

SWMU 222
Outside
DMSA-11



SWMU 222



Paducah Gaseous Diffusion Plant

Outside Areas - SWMU 222

U.S. DEPARTMENT OF ENERGY
DOE PORTSMOUTH/PADUCAH PROJECT OFFICE
PADUCAH GASEOUS DIFFUSION PLANT



Figure No. OS-11-222
Date 11-10-08