

**DMSA-331-18**  
**Solid Waste Management Unit (SWMU) Assessment Report**

**SWMU/AOC NUMBER:** 554

**DATE OF ORIGINAL SAR:** 12/02/05

**DATE OF SAR REVISION:** 03/15/09

**REGULATORY STATUS:** SWMU

**LOCATION:** Southeast side of the C-331 process building between columns AA/CC-33/34

**APPROXIMATE DIMENSION OR CAPACITY:** 350 ft<sup>2</sup>

**FUNCTION:** Temporary storage of materials

**BRIEF HISTORY:** In 1996, this area was released by the United States Enrichment Corporation to the U.S. Department of Energy (DOE) as a DOE Material Storage Area (DMSA). Eighty-eight (88) drums of UF<sub>4</sub> were stored in this area. In 2005, the drums of UF<sub>4</sub> were declared a waste and then shipped to Bear Creek in Oak Ridge, Tennessee, for processing before shipping the drums to Envirocare in Utah for disposal. As source material within the meaning of the Atomic Energy Act, UF<sub>4</sub> is not a solid waste; however, during the processing of the drums, solid waste (e.g., floor sweep) was discovered in two of the drums. The Final Inventory and Characterization Report (FI/CR) was submitted April 21, 2006, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on October 16, 2006. RCRA closure was not required for this SWMU, since no hazardous wastes were stored in this unit, per the 2003 Agreed Order.

**SITE/PROCESS DESCRIPTION:** An inside DOE material storage area located on the southeast side of the C-331 process building.

**PRESENT OPERATIONAL STATUS:** Inactive

**DATES OPERATED:** 1996 to July 2005

**WASTE DESCRIPTION:** The SWMU currently is empty. The low-level waste formerly stored consisted of 88 UF<sub>4</sub> drums, 2 drums containing combination of UF<sub>4</sub>, floor sweep, and miscellaneous solid debris (~800 pounds), and 2 test weights. Twenty-two metal pallets and an 85-gallon overpack were characterized as reusable material. A detailed description of the characterized waste formerly stored in the SWMU can be found in the FI/CR.

**WASTE QUANTITY:** Currently 0 ft<sup>3</sup>; waste quantity removed 1,012 ft<sup>3</sup>

**SUMMARY OF ENVIRONMENTAL SAMPLING DATA:** No sampling of environmental media has occurred.

**DESCRIPTION OF RELEASE AND MEDIA AFFECTED:**

<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:** No documents were identified indicating a spill or release at this unit.

**PRG COMPARISON:** N/A

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

**RFI NECESSARY:** No. The SWMU is inside an operational process building with a concrete floor. All wastes have been removed from this DMSA. 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.

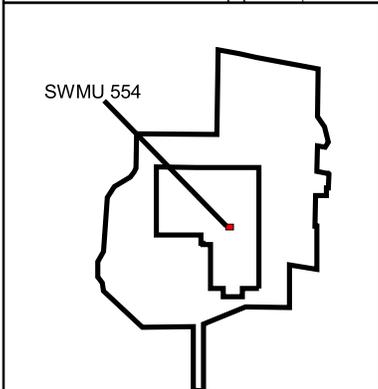
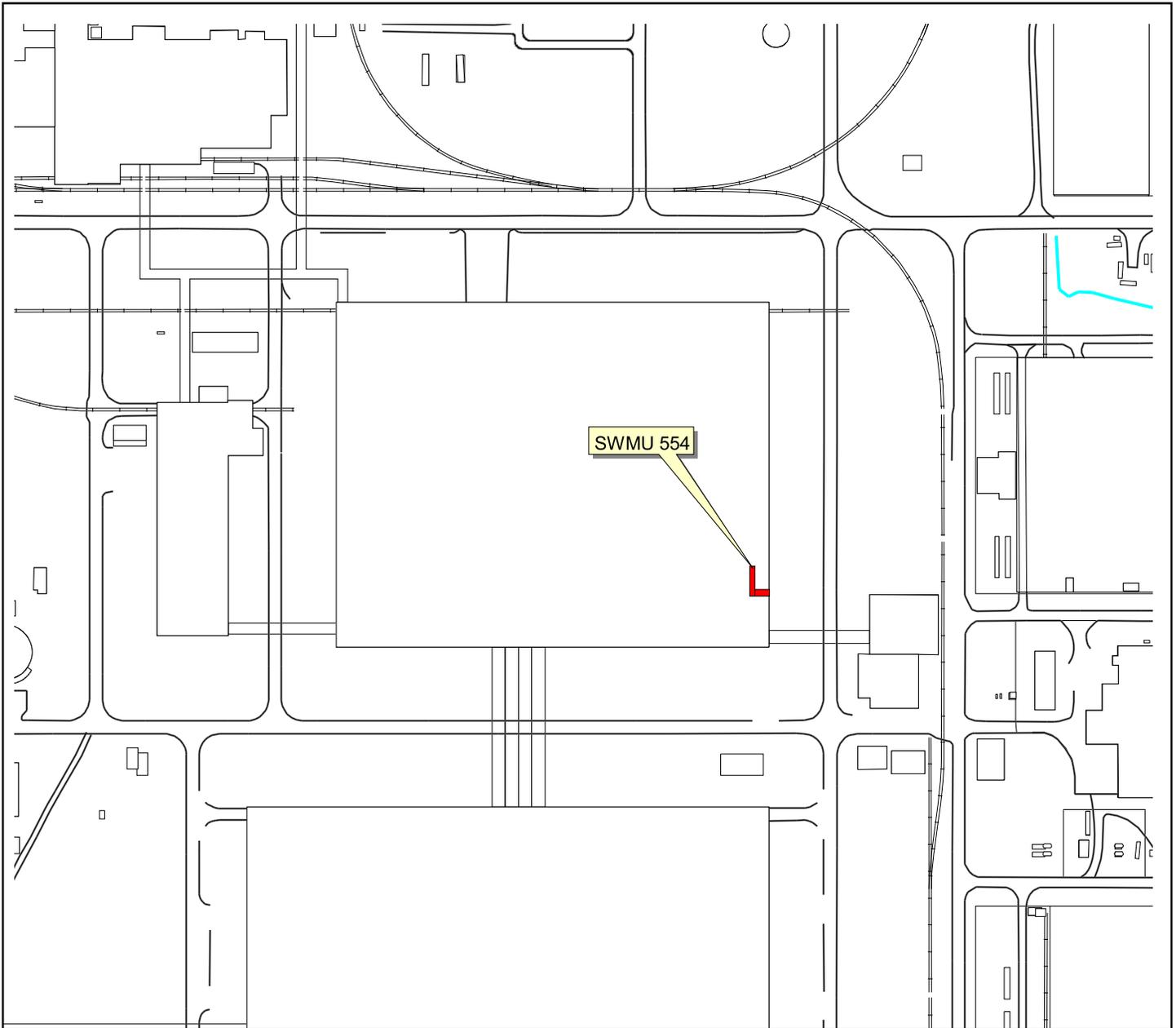
**OPERABLE UNIT ASSIGNMENT:** N/A



SWMU 554  
DMSA C-331-18  
View Looking North  
February 15, 2006



SWMU 554  
DMSA C-331-18  
View Looking South  
February 15, 2006



LEGEND:

-  SWMU 554 Area
-  Buildings

0 200 400 600 Feet



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



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