

DMSA C-400-01
Solid Waste Management Unit (SWMU) Assessment Report

SWMU/AOC NUMBER: 349

DATE OF ORIGINAL SAR: 12/01/00

DATE OF SAR REVISIONS: 06/14/10

REGULATORY STATUS: SWMU

LOCATION: West bay of the C-400 Chemical Operations Facility at the intercept of column lines B and four.

APPROXIMATE DIMENSION OR CAPACITY: 700 ft²

FUNCTION: Temporary storage of materials

BRIEF HISTORY: The area contains two separate fixed systems that are out of service: a degreaser system and a uranium recovery system (hereafter referred to as "dissolver"). The dissolver was used to recover uranium from contaminated alumina material and operated 1960s through the 1970s. The degreaser, which used trichloroethane to clean radiologically contaminated equipment and parts, operated in the 1970s and 1980s. The degreaser was taken out-of-service on July 1, 1993, cleaned, and closed on September 28, 1993. In addition to the two systems and their related components, there were numerous smaller items stored in this DMSA unrelated to the processes. On December 31, 1996, the area was declassified by the United States Enrichment Corporation to the U.S. Department of Energy (DOE) as a DOE Material Storage Area (DMSA).

From March through August 2002, DOE characterized materials in this DMSA in accordance with the DMSA Characterization/Remediation Plan, which was incorporated as Appendix E of the 2003 Agreed Order. The degreaser system [including a 3,000-gal dissolver tank (including piping and pumps), a 1,400-gal precoat tank (including piping and a flow meter), Durco pumps, a precoat filter, a 3,000-gal filtrate tank and its associated piping, Labour pumps, a vacuum pump, two vacuum receivers (including piping and a mist filter), a steel deck and stairs, a B-tank, and a degreaser] and dissolver were characterized and remain in place in the DMSA. The *Final Inventory and Characterization Report (FI/CR)* was submitted September 11, 2002, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on July 28, 2005. This area was used for the storage of characterized low-level waste from this DMSA until 2008.

Resource Conservation and Recovery Act (RCRA) closure was not required for this SWMU, since no hazardous wastes were stored in this unit, per the 2003 Agreed Order.

PRESENT OPERATIONAL STATUS: Inactive

DATES OPERATED: 1960s to 2008

SITE/PROCESS DESCRIPTION: An inside DOE storage area located in the west bay of the C-400 Chemical Operations Facility.

WASTE DESCRIPTION: The waste has been removed from the SWMU.

Newly generated RCRA hazardous/mixed waste formerly stored included two plastic bottles marked Penetone (a cleaning solution) and a five gal container of oil consolidated from several oil reservoirs in the dissolver. The container of oil also was characterized as Toxic Substances Control Act waste. The low-level waste formerly stored included miscellaneous wooden, plastic, and metal parts. A detailed description of the characterized waste formerly stored in the SWMU can be found in the FI/CR.

WASTE QUANTITY: Estimated 2,356 ft³ for decontamination and decommissioning; waste quantity removed 309 ft³

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

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: No documents were identified indicating a spill or release at this unit as a result of DMSA activities.

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 SWMU is inside an operational process building with a concrete floor. This unit is being proposed for no further action because 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. The degreaser and dissolver and their related components were characterized and remain in-place in the DMSA to be addressed as part of the decontamination and decommissioning of the gaseous diffusion plant.

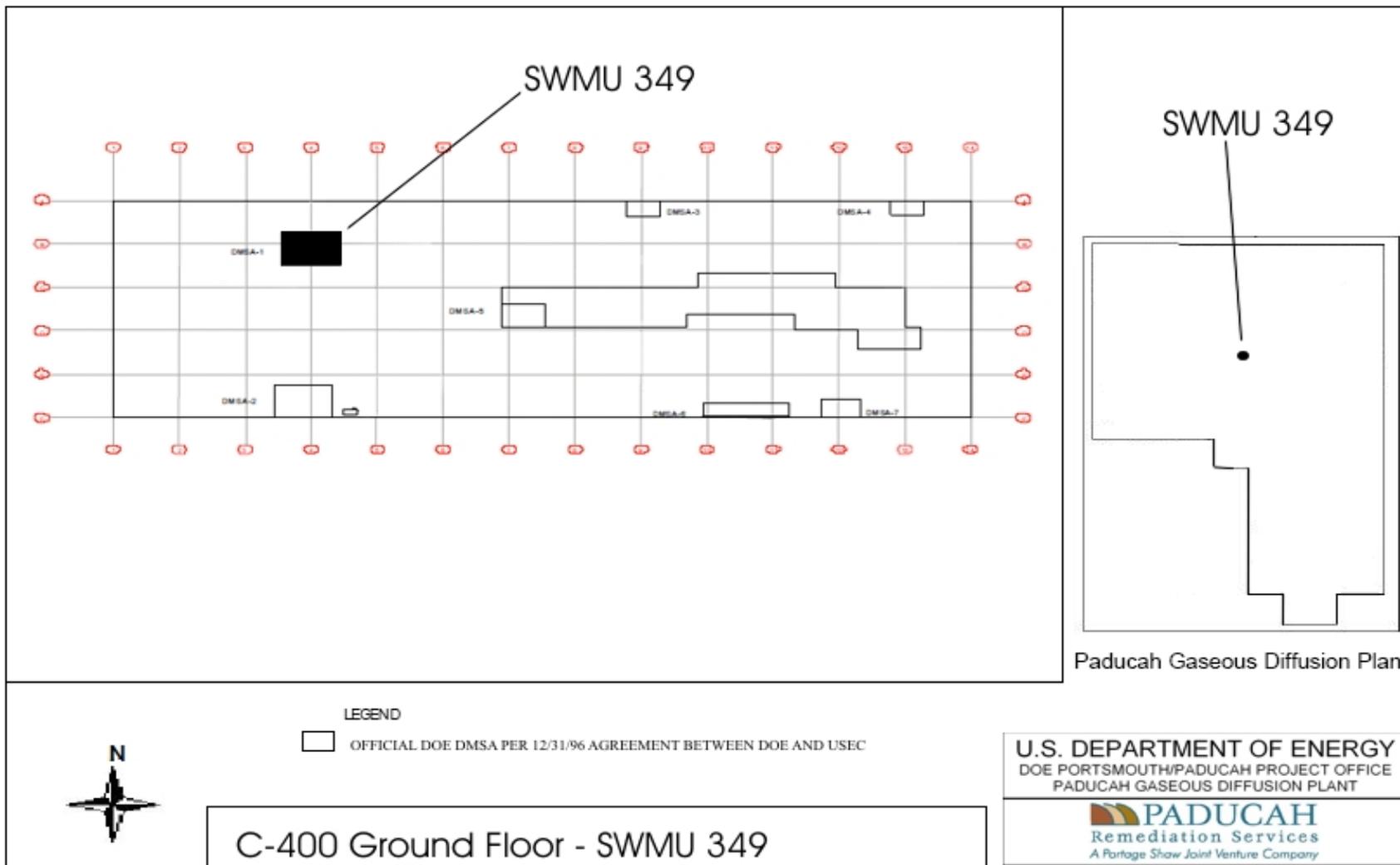
OPERABLE UNIT ASSIGNMENT: N/A



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

PADUCAH
Remediation Services
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