

**Detrex Vapor Degreaser System
DMSA C-400-02 and C-400-08
Solid Waste Management Unit (SWMU) Assessment Report**

SWMU/AOC NUMBER: 54

DATE OF ORIGINAL SAR: 08/24/87

DATE OF SAR REVISIONS: 06/14/10

REGULATORY STATUS: SWMU

LOCATION: C-400 Chemical Operations facility near the southeast wall.

APPROXIMATE DIMENSION OR CAPACITY: 6,048 gal

FUNCTION: Temporary storage of materials

BRIEF HISTORY: The Detrex vapor degreaser system used trichloroethene (TCE) to remove grease and oily residue from equipment. The used TCE was routed to a still for recovery of the TCE. This system operated from 1952 until the early 1990s. The TCE product tank (DMSA C-400-02), degreaser, still, and associated ancillary piping (DMSA C-400-08) were taken out-of-service on July 1, 1993, and were drained and cleaned on September 28, 1993. These activities occurred within 90 days of ceasing operations.

The Detrex vapor degreaser system was released by the United States Enrichment Corporation to the U.S. Department of Energy (DOE) as a DOE Material Storage Area (DMSA) on December 31, 1996. From January 2007 to August 2007, DOE characterized the materials in these DMSAs in accordance with the DMSA Characterization/Remediation Plan, which was incorporated as Appendix E of the 2003 Agreed Order. The Detrex vapor degreaser system (including the handrails, work platform, support steel, still, product tank, and associated piping) were characterized and remain in-place in the DMSA. The *Final Inventory and Characterization Report* (FI/CR) for DMSA C-400-08 was submitted on April 2, 2007, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on June 5, 2007. The *Final Inventory and Characterization Report* (FI/CR) from DMSA C-400-02 was submitted on October 2, 2007, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on November 30, 2008.

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: 1952 to 2007

SITE/PROCESS DESCRIPTION: An inside DOE storage area located in the basement of the C-400 Chemical Operations facility near the southeast wall.

WASTE DESCRIPTION: This SWMU currently is empty except for the decontamination and decommissioning (D&D) items which include the Detrex vapor degreaser system, work platform, supports, and associated equipment. A detailed description can be found in the FI/CRs.

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

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 located in 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 Detrex vapor de-greaser system was characterized and remains 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



**SWMU 54
DMSA C-400-08
TCE Product Tank
March 20, 2003**



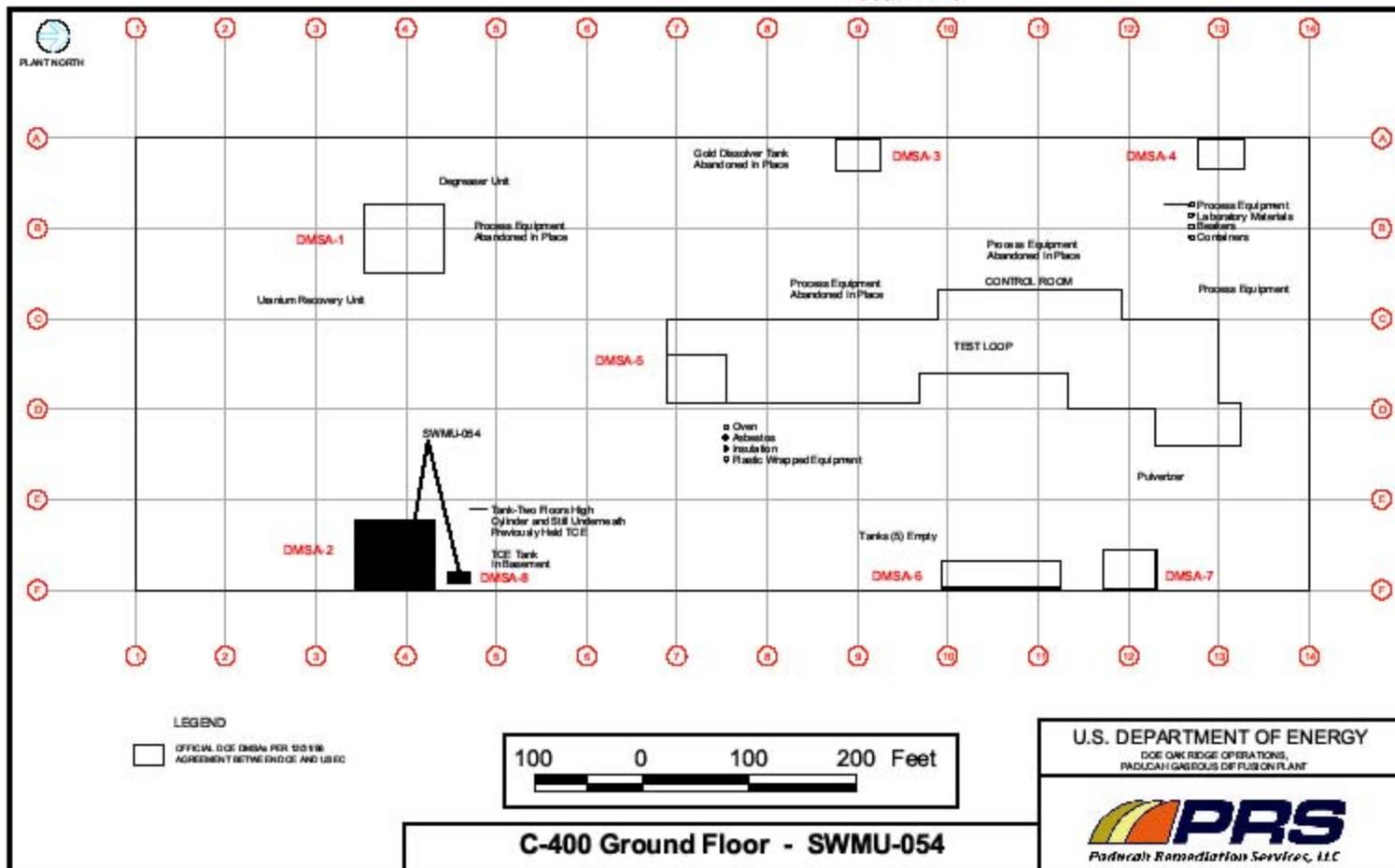
Detrex Vapor Degreaser

Solvent Recovery Still



**SWMU 54
DMSA C-400-02
Degreaser Tank and Still
2007**

DOCUMENT No.



C-400 Ground Floor - SWMU-054

U.S. DEPARTMENT OF ENERGY
DOE OAK RIDGE OPERATIONS,
FUEL CYCLE FACILITY (FCF) / GASOLINE DE FUSION PLANT



PRS
Padraig Remediation Services, LLC

FIGURE No. C-400-054-02_and_08.apr
DATE 02-04-10