

**PRELIMINARY ASSESSMENT/SITE INSPECTION REPORT
AND SWMU ASSESSMENT REPORT**

UNIT NUMBER: 516

UNIT NAME: C-340 Derby Preparation Area Sludge Collection System

DATE: 12/11/2001

REGULATORY STATUS: Solid Waste Management Unit (SWMU)

LOCATION: C-340 Metals Plant

APPROXIMATE DIMENSION: NA

FUNCTION: Collection of particulate matter from uranium metal cleaning and machining operations.

BRIEF HISTORY: The system began operation with the startup of the metals plant in 1957. It operated intermittently until the final shutdown of the metals facility in 1975.

OPERATIONAL STATUS: Inactive

DATES OPERATED: The facility was erected in 1957 with operations in the metals plant continuing until 1975. Final lockdown of the facility occurred in 1991. Decontamination and decommissioning (D&D) activities began in 1992.

SITE/PROCESS DESCRIPTION: This system collected sludge from a wet type dust collector in the derby roasting and cleaning area. The sludge was slag and uranium particles from a quench tank used for cooling derbies removed from the roasting furnace, from the ovens, and from the cleaning area. The sludge was collected in 55 gal drums for disposal.

This system is described in a C-340 operating document and by one of the individuals interviewed; however, the system could not be physically located. The attached photograph and map are of the location identified by the interviewee.

WASTE DESCRIPTION: The unit contained uranium metal and oxides, magnesium fluoride, slag, and other particulate material. The current conditions are unknown.

WASTE QUANTITY: Unknown

SUMMARY OF ENVIRONMENTAL SAMPLING DATA: Environmental sampling has been performed for Waste Area Grouping (WAG) 8) DOE/OR/07-1867&D1, *Site Evaluation Report for Waste Area Grouping 8 at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, June 2000. WAG 8 includes the C-340 Building. The sampling included surface and subsurface soils. In addition, groundwater wells have been installed for WAG 8. Sampling of these wells is an ongoing activity.

DESCRIPTION OF RELEASE AND MEDIA AFFECTED: No releases from this SWMU have been documented.

GROUNDWATER: No groundwater samples have been taken from the immediate vicinity of the SWMU.

SURFACE WATER: No surface water samples from the immediate vicinity of the SWMU have been taken.

SOIL: No soil samples from the immediate vicinity of the SWMU have been taken.

ECOLOGY AFFECTED (i.e., threatened/endangered species): No known impacts. No federal or state listed T&E plant or animal species have been identified. The federally endangered Indiana bat (*Myotis sodalis*) potentially occurs in the vicinity, but the C-340 complex does not provide a suitable habitat.

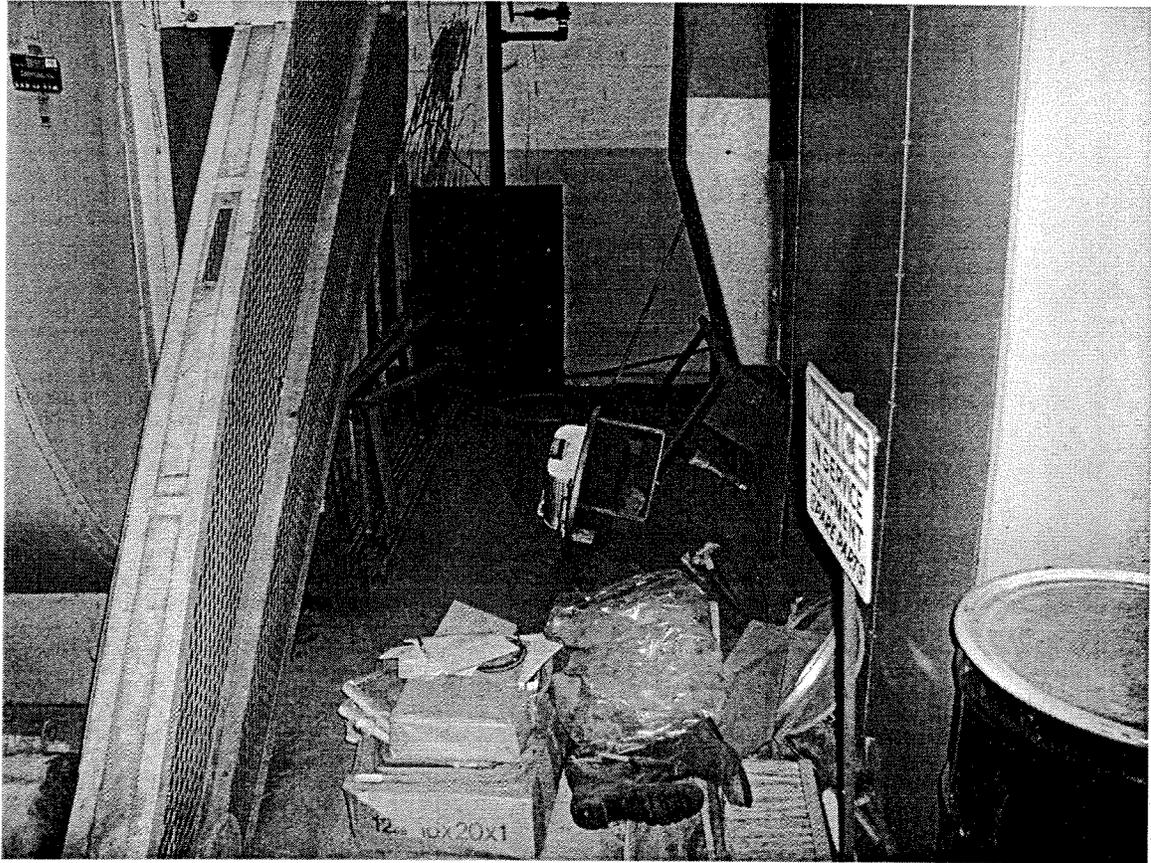
DOCUMENTATION OF NO RELEASE: There is no documentation.

IMPACT ON OR BY OTHER SWMU/AOC: SWMUs 56, 74, and 80 are located in the immediate vicinity of C-340. A hydraulic oil system, SWMU 101, is located inside C-340

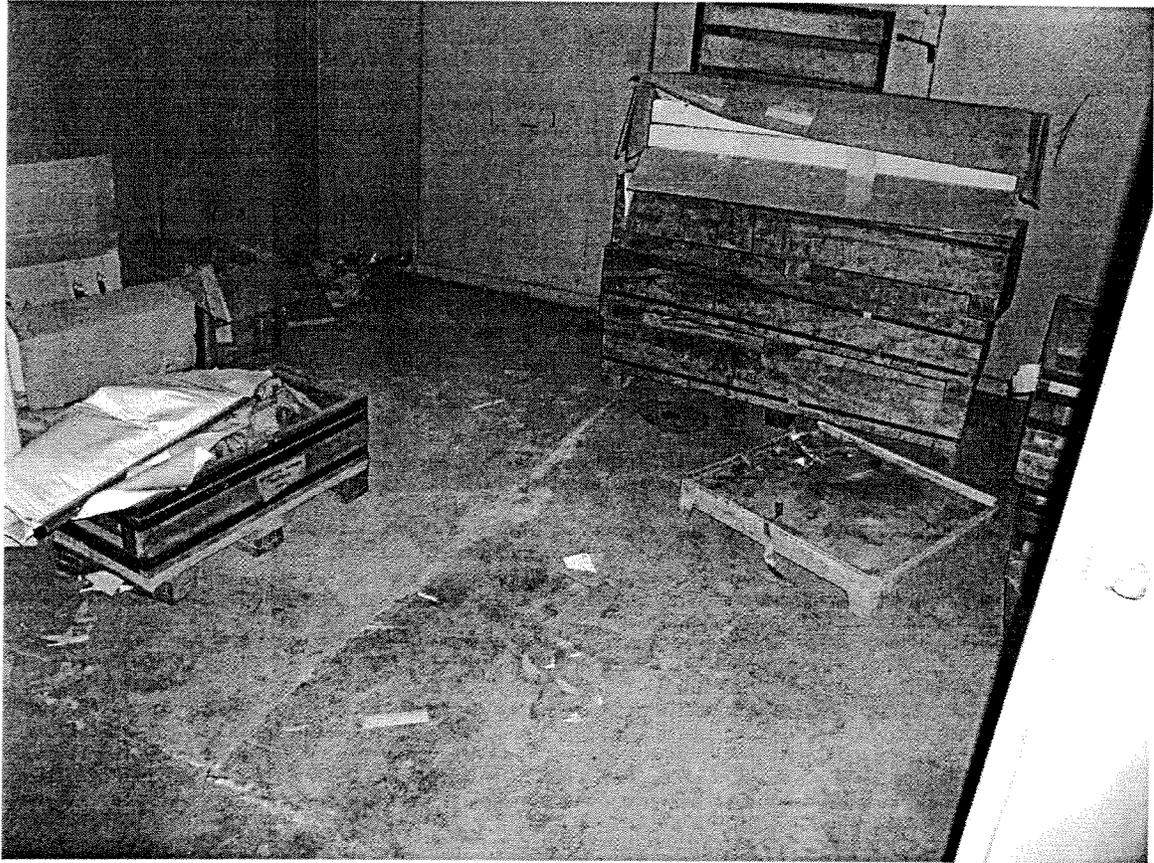
PRG COMPARISON: NA

RFI NECESSARY: This area is associated with an inactive facility that is included in the decontamination and decommissioning (D&D) program. Site evaluation work is underway at this time, along with planning associated with the infrastructure D&D phase. The need for a Remedial Investigation/Feasibility Study will be evaluated as part of the facility structure D&D phase.

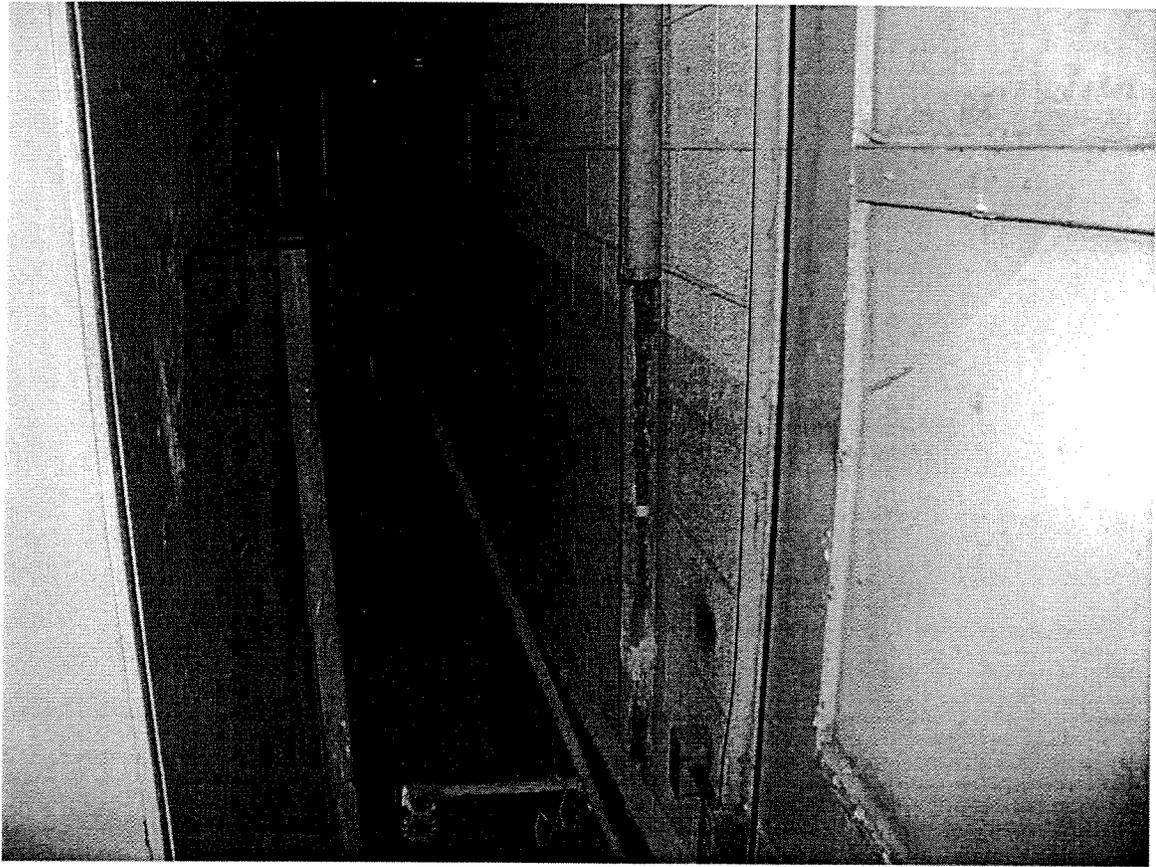
NOTE: Elements included in this outline shall be considered and incorporated, as appropriate, when developing the above referenced document.



SWMU 516



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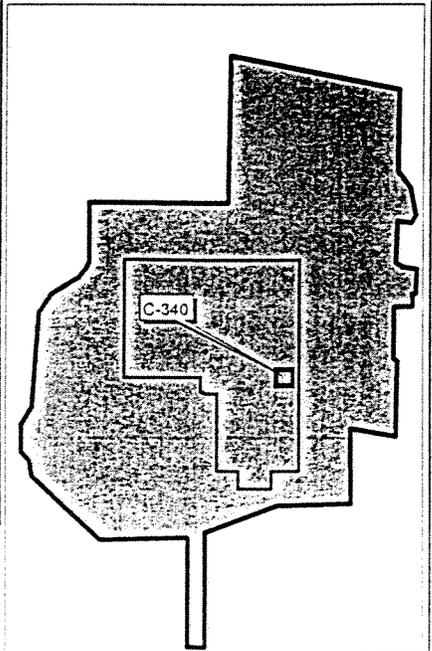


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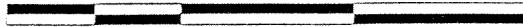
OKLAHOMA AVE

SWMU516

C-340-
A,B,C



50 0 50 100 Feet



U.S. DEPARTMENT OF ENERGY
DOE OAK RIDGE OPERATIONS
PADUCAH GASEOUS DIFFUSION PLANT



BECHTEL JACOBS COMPANY LLC
MANAGED FOR THE US DEPARTMENT OF ENERGY UNDER
US GOVERNMENT CONTRACT DE-AC-05-98OR21700
Oak Ridge, Tennessee • Paducah, Kentucky • Portsmouth, Ohio



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SWMU 516 at C-340

FIGURE No. c5ac90001sk215.apr
DATE 12-28-01