

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

**UNIT NUMBER:** 523

**UNIT NAME:** C-340 Metals Plant Pit Ground Floor at F-6 to F-11

**DATE:** 12/20/01

**REGULATORY STATUS:** Solid Waste Management Unit (SWMU)

**LOCATION:** Pit located in the C-340 Metals Plant on the ground floor between columns F-6 and F-11.

**APPROXIMATE DIMENSION:** 110 ft x 2.5 ft x 2.5 ft.

**FUNCTION:** Served as a containment area for a conveyor belt that moved bombshells for refilling.

**BRIEF HISTORY:** The conveyor system began operation with the startup of the powder plant in 1957. It operated intermittently until the final shutdown of the powder facility in 1977.

**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:** The conveyor belt moved the bombshells from the southern end of the reduction to the northern area to be refilled. The containment area was the lower area of the belt and mechanics of the conveyor belt system.

**WASTE DESCRIPTION:** No waste were identified during the physical inspection

**WASTE QUANTITY:** NA

**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:** There are no groundwater wells in the immediate vicinity of the C-340 Building.

**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.

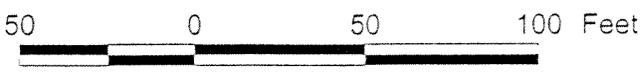
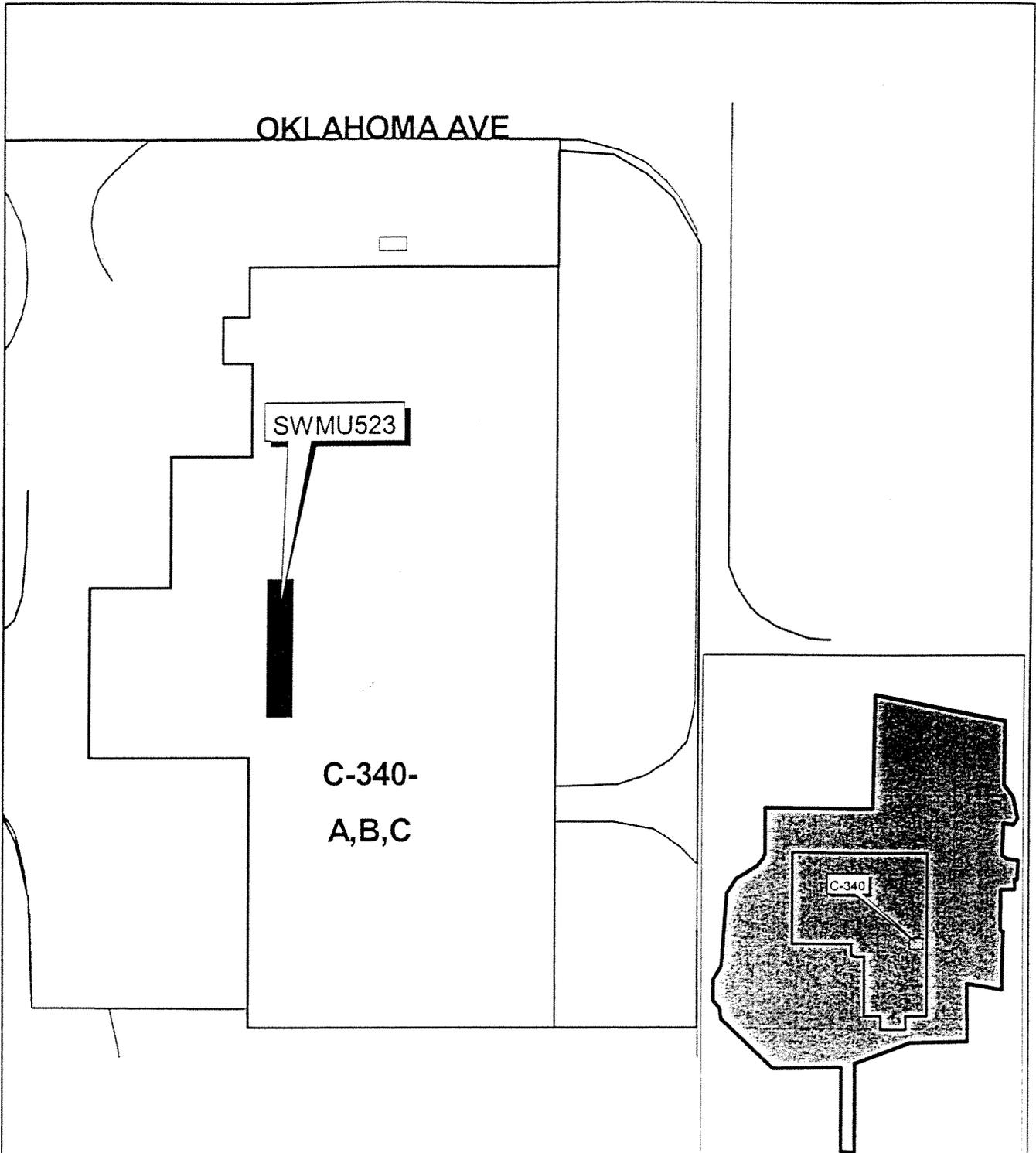
**PRG COMPARISON:** NA

**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. The unit was identified erroneously based upon the interpretation of a SWMU by D&D crew members.

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



SWMU 523



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-05-98OR22700  
Oak Ridge, Tennessee • Paducah, Kentucky • Portsmouth, Ohio

SWMU 523 at C-340



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FIGURE No. c5ac90001sk217.apr  
DATE 12-28-01