

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

UNIT NUMBER: 515

UNIT NAME: C-340 "Dirty" Dust Collection System

DATE: 12/11/2001

REGULATORY STATUS: Solid Waste Management Unit (SWMU)

LOCATION: C-340 Metals Plant and C-340 Powder Plant

APPROXIMATE DIMENSION: Enclosure approximately 7 ft high, 6 ft wide, and 6 ft deep.

FUNCTION: A vacuum system for the collection of dust and particulate matter from various areas of C-340 for disposal.

BRIEF HISTORY: The 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. Dust and other material in the system was dumped, but it was not cleaned.

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 vacuum system consisted of a centralized vacuum station with piping to various locations throughout the building. Materials such as spilled magnesium fluoride and uranium tetrafluoride which were contaminated with foreign material or were otherwise deemed unsuitable for reuse or re-processing, were vacuumed and collected in filter bags on the ground floor of the building. The bags were emptied into drums for disposal.

WASTE DESCRIPTION: The unit may contain uranium, magnesium fluoride, dust, and other

particulate material.

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: 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.

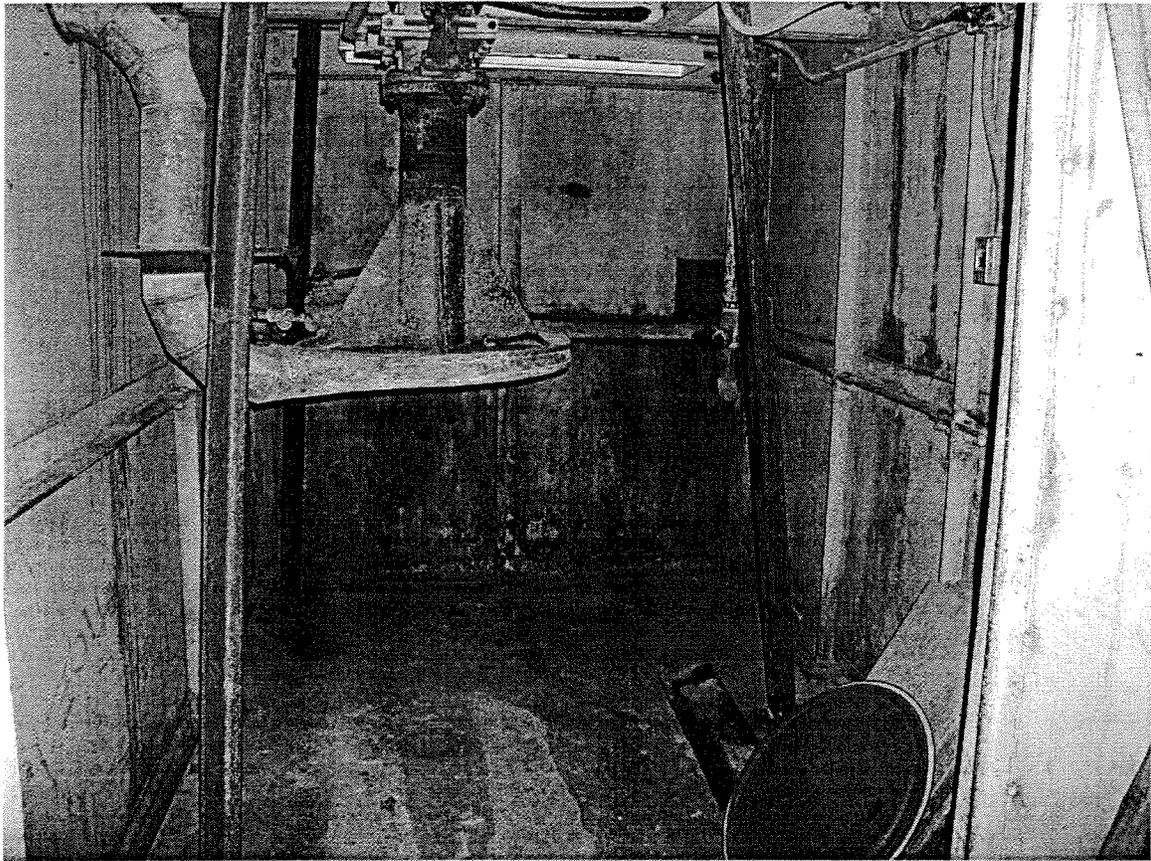
DOCUMENTATION OF NO RELEASE: There is no documentation.

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

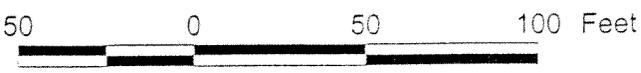
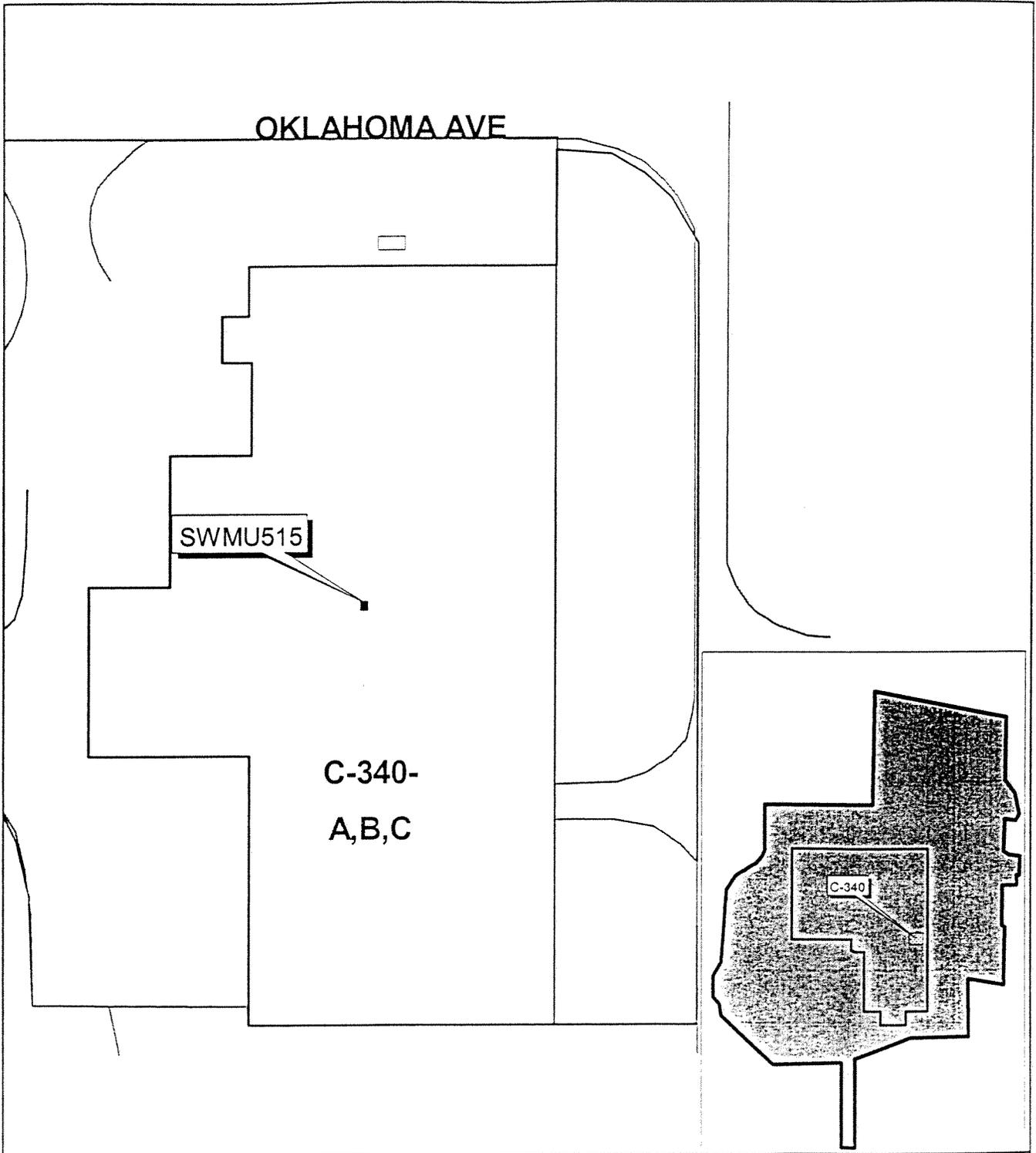
PRG COMPARISON: NA

RFI NECESSARY: This area is associated with an inactive facility that is included in the 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.



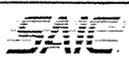
SWMU 515



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-05-38OR22700
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SWMU 515 at C-340