

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

UNIT NUMBER: 522

UNIT NAME: Work Pit at Ground Floor Level

DATE: 12/20/01

REGULATORY STATUS: Solid Waste Management Unit (SWMU)

LOCATION: The work pit located in the C-340 Metals Plant on the ground floor level between columns B-7 and B-9 side of the plant.

APPROXIMATE DIMENSION: The pit is approximately 50 ft x 3.5 ft x 2 ft.

FUNCTION: The pit served as work area around the rams that unloaded the remelt furnaces in the reduction area. The rams were located in the pit and extended to a platform on the second level of the work area. The rams lowered uranium ingots to the ground floor from the second level.

BRIEF HISTORY: The metals plant began operation in 1957 and operated intermittently until 1975. The pit was a work area around the rams that transferred remelted uranium ingots from the second floor to the ground floor. This facility and operation is no longer in service. During the physical inspection of the building, the pit area had accumulated water from a roof leak. No samples of this water have been taken.

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 area was used as a work pit around the remelt furnace rams.

WASTE DESCRIPTION: Potentially contaminated water.

WASTE QUANTITY: There is an estimated 14 inches or 27.43 gal of water being stored in the containment pit.

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 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 from the immediate vicinity of the SWMU have been taken.

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

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.

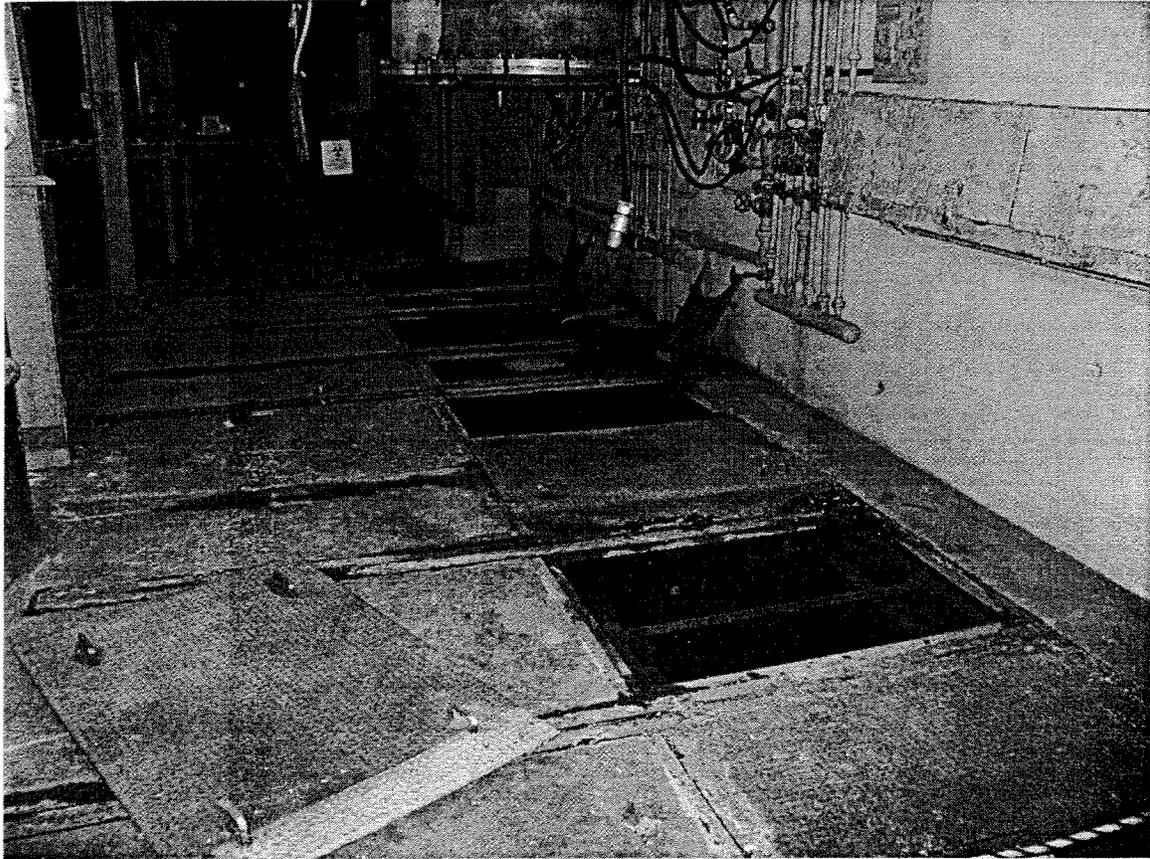
DOCUMENTATION OF NO RELEASE: None

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

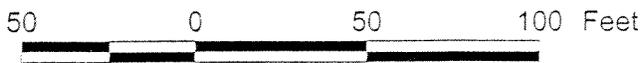
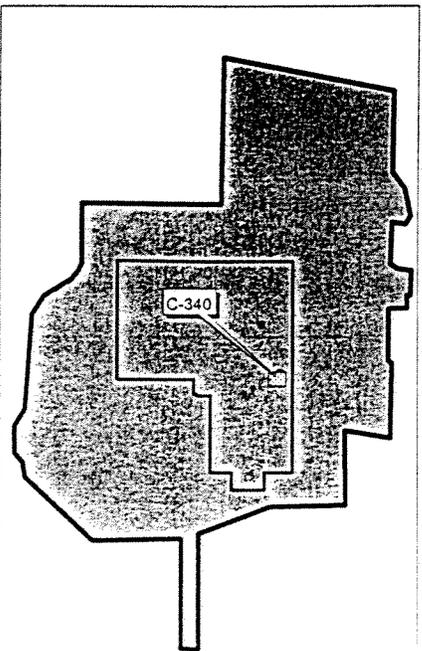
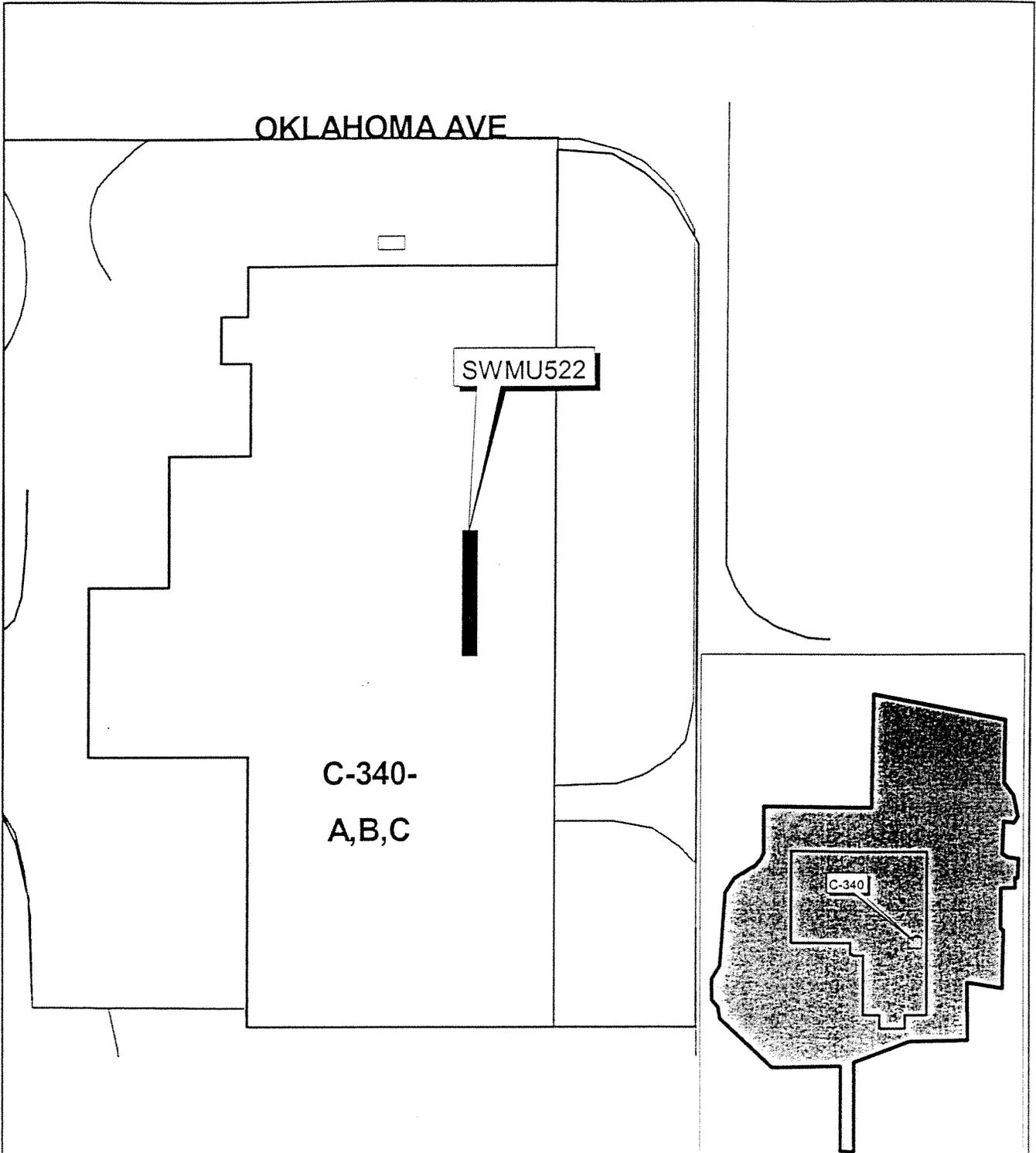
PRG COMPARISON: NA

RFI NECESSARY: Yes. 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 a 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 522



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

BECHTEL JACOBS
BECHTEL JACOBS COMPANY LLC
MANAGED FOR THE US DEPARTMENT OF ENERGY UNDER
US GOVERNMENT CONTRACT DE-AC-05-96OR21793
Oak Ridge, Tennessee • Paducah, Kentucky • Portsmouth, Ohio

SAIC
Science Applications
International Corporation
P.O. Box 2502
Oak Ridge, Tennessee 37831

SWMU 522 at C-340