

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

UNIT NUMBER: 524

UNIT NAME: C-340 Pickling System Sump

DATE: 12/11/2001

REGULATORY STATUS: Solid Waste Management Unit (SWMU)

LOCATION: C-340 Metals Plant

APPROXIMATE DIMENSION: Approximately 5 ft² x .5 ft deep.

FUNCTION: Collection of pickling liquid (nitric acid) in system spray booth.

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: The pickling system consisted of a spray booth in which uranium metal ingots were sprayed with a nitric acid solution. The sump collected the liquid for disposal. The sump was not equipped with a direct connection to any drain. The disposal method for the spent pickling liquid is not known.

WASTE DESCRIPTION: The unit may contain uranium metal and oxides, magnesium fluoride, slag, 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.

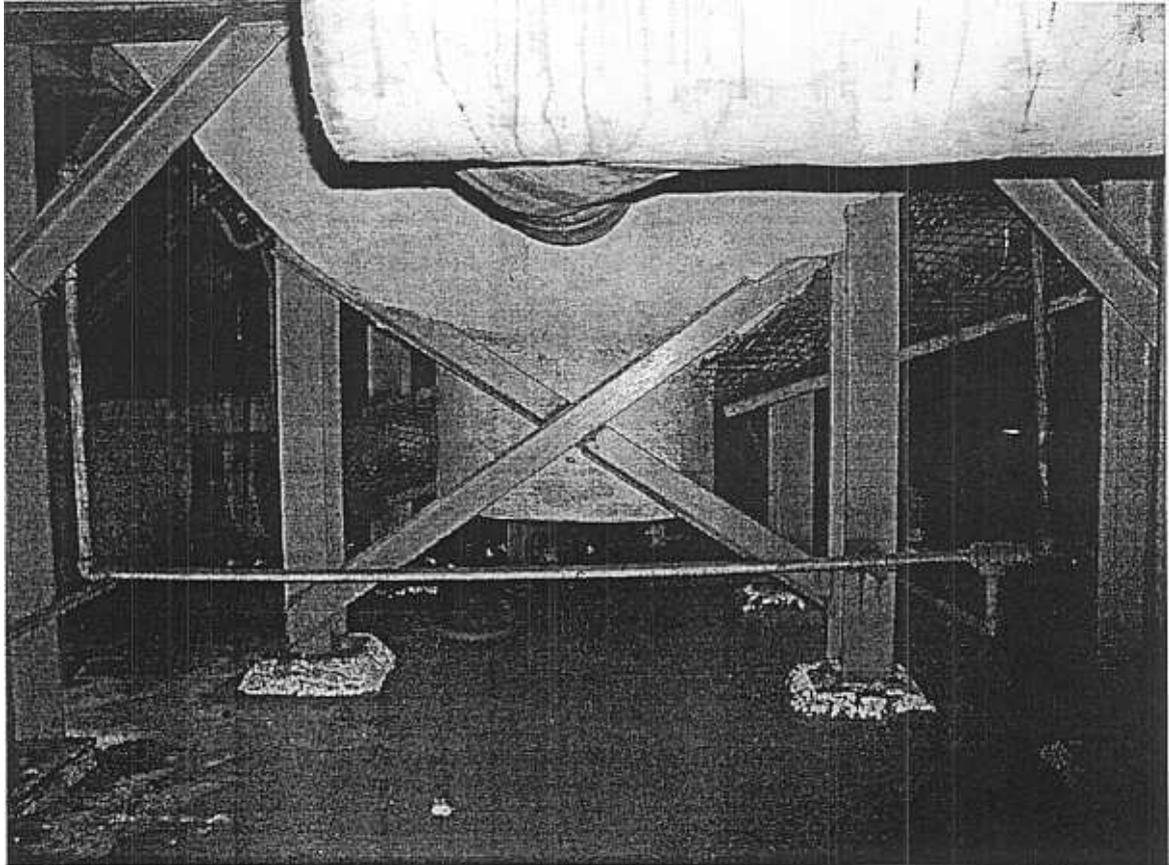
DOCUMENTATION OF NO RELEASE: There is no documentation available.

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

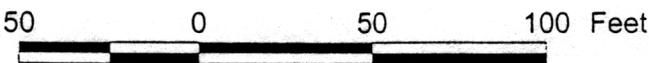
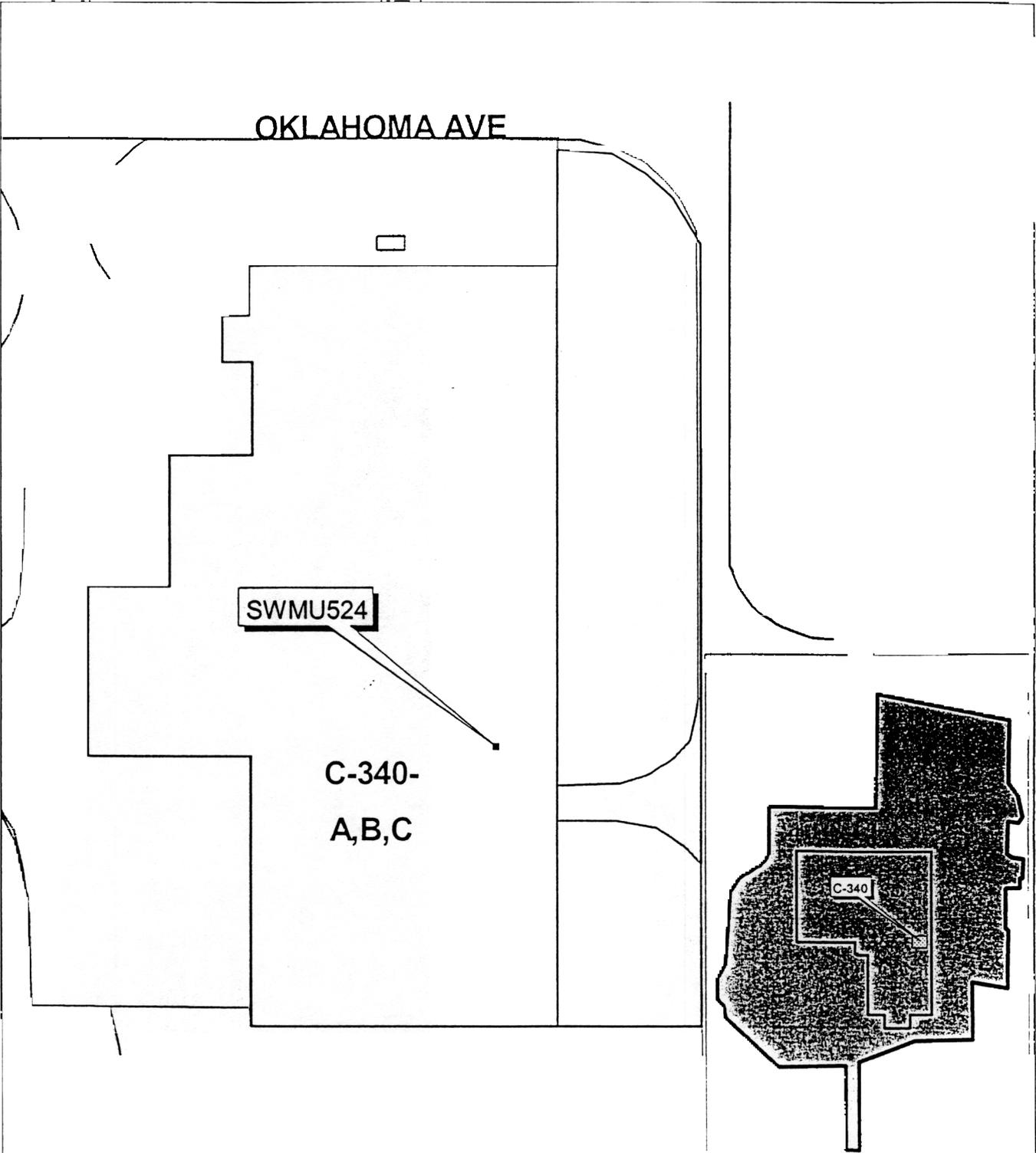
PRG COMPARISON: NA

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 524



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



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

SWMU 524 at C-340