

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

UNIT NUMBER: 503

UNIT NAME: C-410/420 Complex – Sump at Column G-1.

DATE: 12/20/01

REGULATORY STATUS: Solid Waste Management Unit (SWMU)

LOCATION: Sump located outside the C-410/420 Complex at column G-1.

APPROXIMATE DIMENSION: 3 ft diameter

FUNCTION: Served as a moisture collection system outside C-410.

BRIEF HISTORY: Facility engineering drawings indicate this location provides manhole access to drain piping system; presence of open drain piping at base of manhole suggests no accumulation of liquids. Discharge destination is unknown.

OPERATIONAL STATUS: Inactive

DATES OPERATED: July 1953 to July 1964 and July 1968 to May 1977

SITE/PROCESS DESCRIPTION: Sump served as a draining point with no accumulation of liquid. Building engineering drawings indicate that the drain system in the manhole runs east-west. There are no indications of connection to any sumps or process systems in C-410/420 complex indicated. It is likely that this manhole provides access to the storm drain system.

WASTE DESCRIPTION: Waste probably consisted of water.

WASTE QUANTITY: NA

SUMMARY OF ENVIRONMENTAL SAMPLING DATA: NA

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

GROUNDWATER: There are no known groundwater impacts from this SWMU.

SURFACE WATER: There are no known surface water impacts from this SWMU.

SOIL: There is no known impact on surface soils from this SWMU.

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-410 complex does not provide a suitable habitat.

DOCUMENTATION OF NO RELEASE: NA

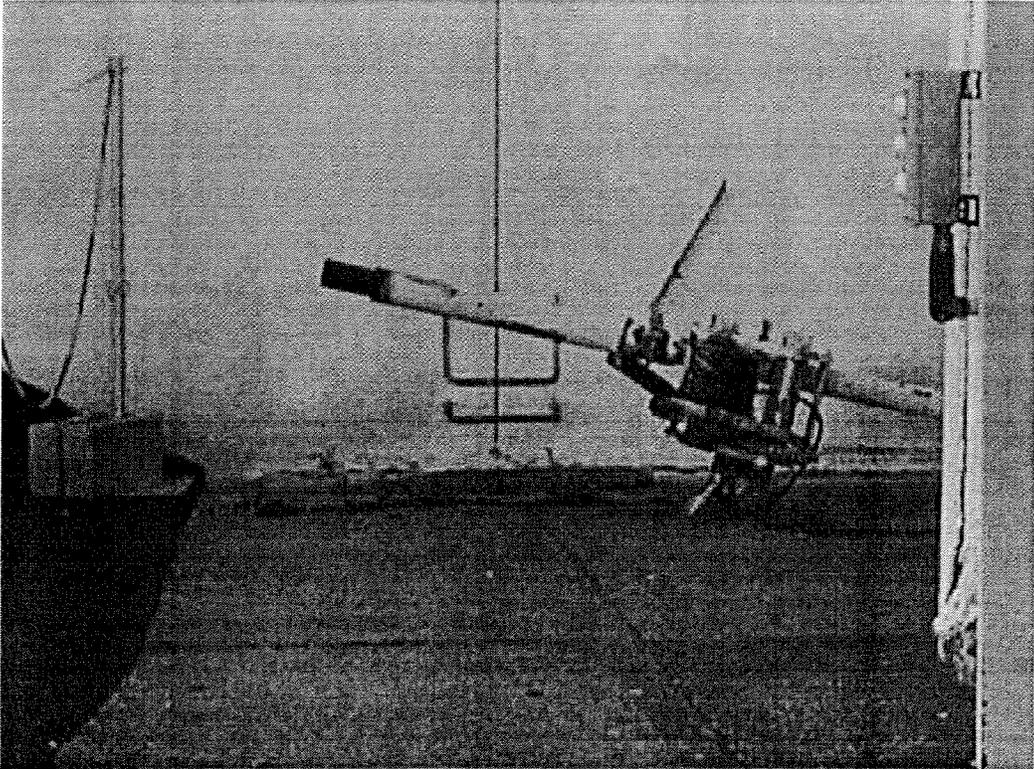
IMPACT ON OR BY OTHER SWMU/AOC: The following SWMUs are in the vicinity of the C-410/420 complex:

SWMU 11	SWMU 19	SWMU 20	SWMU 26
SWMU 40	SWMU 41	SWMU 47	SWMU 78
SWMU 169	SWMU 198	SWMU 203	

PRG COMPARISON: NA

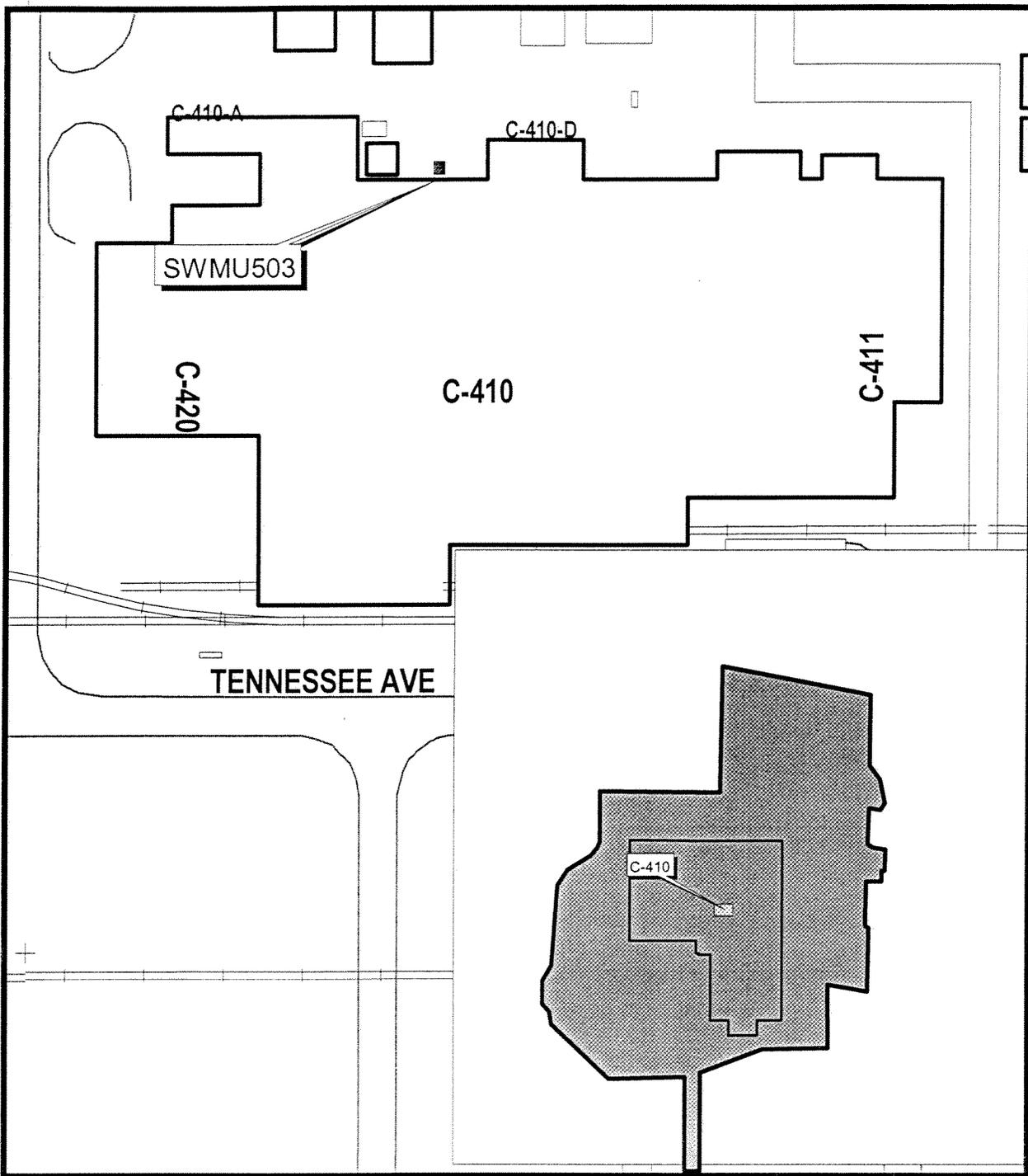
RFI NECESSARY: This area is associated with an inactive facility that is included in the decontamination and decommissioning (D&D) program. Site evaluation work is underway at this time, along with planning associated with the infrastructure D&D phase. The need for a Remedial Investigation/Feasibility 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 503

4000



-2000

2000

-4000

90 0 90 180 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-05-98OR22700
Oak Ridge, Tennessee • Paducah, Kentucky • Portsmouth, Ohio



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

SWMU 503 at C410.

FIGURE No. c5ac90001sk229.apr
DATE 01-04-02