

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

UNIT NUMBER: 464

UNIT NAME: C-746-A West End Smelter

DATE: 01/19/01
Revised 10/08/02

REGULATORY STATUS: SWMU

LOCATION: This SWMU is the west end of C-746-A and is located north of C-746-B.

APPROXIMATE DIMENSION: 70 ft x 126 ft x 20 ft

FUNCTION: This site is an abandoned warehouse used for storage of two out of service aluminum smelter furnaces, associated equipment and various other equipment and supplies.

BRIEF HISTORY There are two smelters located in the west end of C-746-A. One of the smelters was used mostly for smelting non-radiologically contaminated aluminum while the other smelter was used for smelting radiologically contaminated aluminum. Smelting of lead and steel also occurred on a small campaign basis. The West End Smelter Area was also used for the disassembly of weapons components for metals recovery and a storage and receiving area for photographic film and ash for silver recovery. After the units were shut down, the area was used for storage of materials and equipment. On January 18, 2002, DOE received a Notice of Violation (NOV) from the Kentucky Division of Waste Management (KDWM) for improper storage of incandescent light bulbs. These items were removed from the SWMU, labeled as hazardous waste, and were transferred into permitted storage. Following the discovery of the light bulbs a walk through of the area was completed. RCRA suspect materials were sampled for characteristics of hazardous waste. The slag located beneath one smelter was characteristically hazardous for lead. The accessible portion of the contaminated slag was removed and placed in drums. At that time a composite sample of the slag was sampled

to confirm hazardous characteristics with a more representative sample (results pending). This SWMU will undergo a RCRA closure.

OPERATIONAL STATUS: Inactive

DATES OPERATED: The start-up date for the processes was approximately 1965. The Smelting furnaces were not used after the late 1980s.

SITE/PROCESS DESCRIPTION: Previously this facility was used as a receiving area, an area to disassemble weapons, and to smelt lead, steel, and aluminum. However, now the area is utilized for storage of equipment and it houses the decaying remnants of two out of service smelting furnaces.

WASTE DESCRIPTION: Smelting furnaces, emergency diesel generator, scrap hose, scrap metal, activated alumina, empty compressed gas cylinders, and other miscellaneous scrap. The following RCRA items have been removed from the West End Smelter: incandescent light bulbs and approximately 3 cubic feet of slag exhibiting the RCRA characteristic for lead.

WASTE QUANTITY: The total volume of this section of the building is approximately 176,400 ft³. Approximately 20% of this space is solid waste.

SUMMARY OF ENVIRONMENTAL SAMPLING DATA:

Remedial investigations were conducted in this area as part of Waste Area Grouping (WAG) 15 (underground tanks) and WAG 27 (C-746-A Septic Systems). Slight radiological contamination was present on the ground surface outside of this SWMU.

DESCRIPTION OF RELEASE AND MEDIA AFFECTED:

Normal operations of these smelters resulted in air emissions to the atmosphere. No spills or other releases to the environment from this unit are known. Waste materials generated from this facility were buried in C-746-F.

GROUNDWATER: N/A

SURFACE WATER: N/A

SOIL: N/A

ECOLOGY AFFECTED (i.e., endangered/threatened species) None

DOCUMENTATION OF NO RELEASE:

There have been no known spills or releases of materials from this facility to the environment that are documented.

IMPACT ON OR BY OTHER SWMU/AOC:
are

SWMUs 144, 139, 196A, 39

located in the area. There was no evidence of any impact on or by any other SWMU.

PRG COMPARISON: N/A

RFI NECESSARY:

No. This area is located inside the C-746-A building. Operations of the smelter resulted in air emissions as part of the normal process. No spills or other releases to the environment from this unit are known. Waste materials generated from this facility were buried in C-746-F.

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

