

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

UNIT NUMBER: 531

UNIT NAME: Aluminum Slag Reacting Area (C-746-H4) near the C-746-A Facility

DATE: 5/10/02

REGULATORY STATUS: SWMU

LOCATION: SWMU 531 is a concrete pad located adjacent to the south side of C-746-A, Hazardous and Mixed Waste Storage Facility. See enclosed map for a detailed location of SWMU 531.

APPROXIMATE DIMENSION: 30' x 300'

FUNCTION: Treatment of stored aluminum slag from the aluminum smelter.

BRIEF HISTORY: Aluminum slag was brought from a sweat furnace in the west end of C-746-B smelter.

OPERATIONAL STATUS: Not active.

DATES OPERATED: Unknown.

SITE/PROCESS DESCRIPTION: The Aluminum Slag Reacting Area is the concrete pad adjacent to the south side of C-746-A. Water was slowly added to dumpsters and possibly drums to react with the aluminum slag. Slag was allowed to react with no agitation for several days. Hydrogen that was produced from the reaction escaped to the atmosphere. The slag was dewatered, and the resulting waste was placed in the C-746-F classified landfill.

WASTE DESCRIPTION: Drummed aluminum slag from the smelting of aluminum from the C-746-B smelter building.

WASTE QUANTITY: Unknown.

SUMMARY OF ENVIRONMENTAL SAMPLING DATA: From analyses of samples collected from SWMUs 139 and 196A, some elevated concentrations of metals (Al, Ca, Fe, Mg) in soils were noted. No elevated concentrations were observed in groundwater samples.

DESCRIPTION OF RELEASE AND MEDIA AFFECTED:

No release recorded.

GROUNDWATER:

Review of environmental data from SWMUs 139 and 196A showed no contamination from aluminum slag reacting operations.

SURFACE WATER:

Review of environmental data from SWMUs 139 and 196A showed no contamination from aluminum slag reacting operations.

SOIL:

Review of environmental data from SWMUs 139 and 196A showed elevated concentrations of several metals including aluminum.

ECOLOGY AFFECTED (i.e., endangered/threatened species):

None.

DOCUMENTATION OF NO RELEASE:

None.

IMPACT ON OR BY OTHER SWMU/AOC:

SWMUs located near SWMU 531 are 139 and 196A.

PRG COMPARISON:

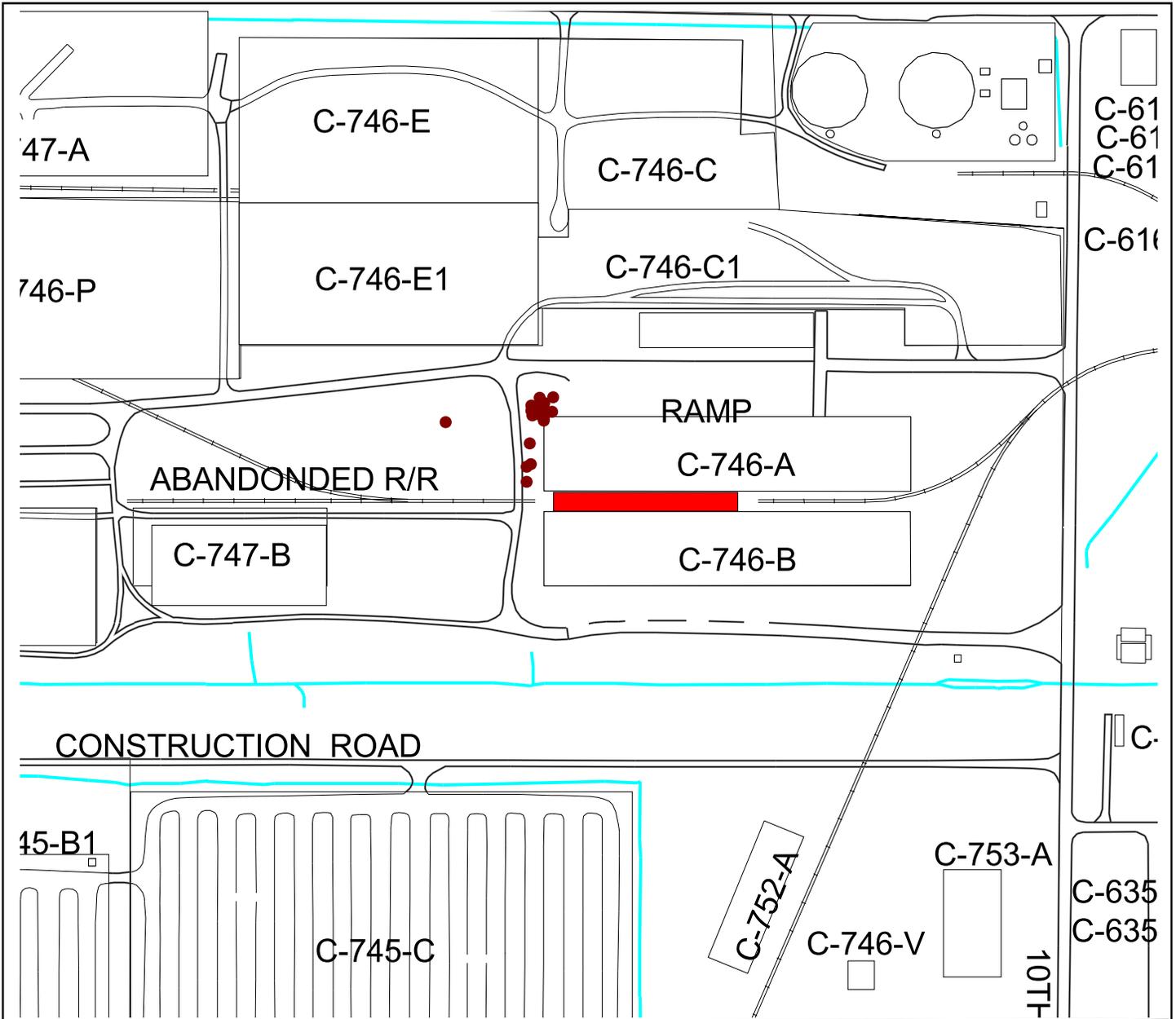
None.

RFI NECESSARY:

Yes. SWMU 531 will be included in the Surface Soils Operable Unit.



SWMU 531 Aluminum Slag Reacting Area (C-746-H4) near the C-746-A Facility



- LEGEND:**
- Sampling Locations
 - SWMU 528 Area
 - Buildings



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

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SWMU 531 Aluminum Slag Reacting Area near the C-746-A Facility