

**PRELIMINARY ASSESSMENT/SITE INSPECTION REPORT
AND SOLID WASTE MANAGEMENT UNIT (SWMU) ASSESSMENT REPORT**

- UNIT NUMBER:** 9
- UNIT NAME:** C-746-S Residential Landfill
- DATE:** September 17, 1999
- REGULATORY STATUS:** Subtitle D Sanitary Landfill (SWMU)
- LOCATION:** Approximately ¼ mile north of plant, immediately north of KY-358
- APPROXIMATE DIMENSION:** Permitted area is 20.2 acres per the permit application submitted on January 15, 1981. As part of the closure requirements, the area was surveyed and is 16.60 acres as specified by Dummer Surveying Company, July 21, 1995.
- FUNCTION:** Utilized for the disposal of uncontaminated trash as stated in previous SWMU Assessment Report.
- BRIEF HISTORY:** Based upon the July 1993 Solid Waste Landfill Permit Modification request (KY/E-171), preliminary design for the construction of C-746-S Landfill first began in the late 1970's. On January 15, 1981, a permit application was submitted to the Kentucky Division of Waste Management (KDWM) for the development of a residential landfill. The construction permit was issued on April 6, 1981. Per the approved permit application from 1981, wastestreams approved for disposal included industrial operational refuse, debris, and garbage. The landfill stopped receiving waste in 1995 and underwent closure per the regulations and design drawings approved by KDWM as stated in a letter by the Department of Energy dated December 20, 1995. Based upon personnel interviews and internal documentation, this area was used as a discard area for scrap and waste materials prior to the construction and permitting of the C-746-S Landfill, which is associated with SWMU 145.
- OPERATIONAL STATUS:** Post-closure maintenance. Unit is capped and not receiving wastes. Groundwater, surface water, methane, and leachate are routinely monitored.
- DATES OPERATED:** 1981 to 1995 as a permitted unit.
- SITE/PROCESS DESCRIPTION:** Per the previous SWMU Assessment Report, this area was organized into six cells. Each cell was initially lined with 12 inches of clay covered with compacted soil. Trash was compacted and daily covered with soil. When the cell was filled, it was capped with clay and covered with soil. Based on interviews with plant personnel and internal documentation, only three cells were utilized.
- WASTE DESCRIPTION:** Per the permit application from 1981, refuse to be received was industrial operational refuse, debris, and garbage comprising both combustible and noncombustible fractions.

WASTE QUANTITY: A rough estimate is 94,000 cubic yards per calculations from the landfill manager. Engineering drawings are available which may be used calculate to more accurate estimates.

SUMMARY OF ENVIRONMENTAL SAMPLING DATA: Sampling of surface water and groundwater is conducted quarterly in accordance with Kentucky closure regulations and the landfill permit.

DESCRIPTION OF RELEASE AND MEDIA AFFECTED:

GROUNDWATER: Quarterly groundwater monitoring is conducted in accordance with the Kentucky closure regulations and the landfill permit. See the quarterly groundwater monitoring reports for analytical results.

SURFACE WATER: Quarterly surface water monitoring is conducted in accordance with the Kentucky closure regulations and the landfill permit. See the quarterly surface water monitoring reports for analytical results.

- **SOIL:** NA

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

DOCUMENTATION OF NO RELEASE: NA

IMPACT ON OR BY OTHER SWMU/AOC: SWMU 10 is north of this unit, SWMU 208 is north of this unit, and SWMU 145 surrounds and is under this unit. SWMU 58, the North-South Diversion ditch outside the plant security fence, is west of this unit.

PRG COMPARISON: NA

RFI NECESSARY: No. Unit was permitted and closed with clay cap and vegetative cover. Therefore, a RFI is unnecessary.

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

