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26 SEP 1994


377 ABW/EM  
2000 Wyoming Blvd SE  
Kirtland AFB NM 87117-5659

Ms. Nancy Morlock, Environmental Engineer  
RCRA Permits Branch  
U.S. EPA Region 6  
1445 Ross Ave, Ste 1200  
Dallas TX 75202-2733

Dear Ms. Morlock

Enclosed is the SWMU Assessment Report (SAR) for Landfill <sup>Appex II</sup> LF-56, at the  
Manzano Weapons Storage Area. Please contact Mr. Stephen Lee or me, (505) 846-  
2773/0053, if you have any questions.

Sincerely

  
CHRISTOPHER B. DeWITT, R.P.G.  
Acting Chief, Restoration Branch  
Environmental Management Division

Attachment:  
SAR, LF-56

KAFB1507



**Landfill D**  
**Solid Waste Management Unit (SWMU)**  
**Assessment Report**

**A. LOCATION**

Landfill D (LF-56) is located on Lovelace Road in the southeast part of Kirtland Air Force Base in Albuquerque, New Mexico. The site is situated north of the Coyote Arroyo, adjacent to the southwest corner of the Manzano Weapons Storage Area (MWSA) (Figure 1). The closest existing Air Force SWMU is SWMU 10-21, Building 37504, Septic Tank and leach field, located 400 feet east of the site in the (MWSA).

**B. FUNCTION OF UNIT**

Drawings examined for this assessment indicate the landfill functioned as a burn and disposal area for grounds maintenance waste from the MWSA. The site was discovered during the trench excavation for a fiber optic cable installation. The route for the fiber optic cable was diverted around the site to the west along Lovelace Road.

**C. DESCRIPTION OF UNIT**

The site covers approximately 4 acres; it is bounded on the west by Lovelace Road, on the south by the Coyote Arroyo, and on the north and east by the MWSA (Figure 2). The site geology, as exposed during the trenching operation, consists of a thin alluvial sequence of sand and gravel overlying a hard, well-cemented breccia/conglomerate bedrock. The bedrock is exposed at the ground surface over much of the site. It appears the alluvial overburden was removed from above the bedrock and used to construct a berm around the site, as well as cover disposed material. There is a prominent mound of covered refuse material in the center of the bermed area. The landfill is unlined, but generally protected from storm water runoff by the berms.

## D. PERIOD OF OPERATION

The exact period of operation of the landfill is not known. A drawing dated December, 1965 identified the site as a burning and disposal area for grounds maintenance waste for the MWSA. The site was probably active from the 1950s to the 1970s.

## E. WASTES

Materials exposed during the fiber optic cable excavation include wood debris, railroad ties, abundant metal debris, cans and other storage containers, and general construction debris. Large quantities of waste asphalt from road construction activities were disposed of at the site. Approximately 10 cubic yards of sewage sludge was dumped in the eastern part of the site. Other debris noted during a site inspection includes concrete rubble, fencing, cable, various empty 1- to 5-gallon metal containers, telephone poles, and miscellaneous metallic debris. No sampling was accomplished at the site for the purposes of this assessment.

## F. RECOMMENDATIONS

A RCRA Facility Investigation (RFI) will be conducted at this site during 1995. The RFI's objective is to characterize the nature and extent of any releases of hazardous constituents to the environment at the site. The following work will be accomplished during the RFI:

- Obtain aerial photographs of the site and analyze to determine patterns of waste disposal and period of operation for the landfill.
- Conduct a soil gas survey in the disposal areas to assess possible releases of Volatile Organic Compounds to soils beneath disposal areas. Results from the soil gas survey will be used to select soil sampling locations.
- Take soil samples from disposal piles and underlying soils using direct push methods at approximately 20 locations. Soils will be sampled on 5-foot intervals beneath disposal piles until field screening indicates no contamination or bedrock is reached. Analyze samples for SW 8240 Volatile Organics, SW 8270 Semivolatile Organics, and RCRA Metals SW 7000 series.
- Obtain a sample of sewage sludge and analyze by EPA method 1311, TCLP, to determine proper disposition of the sludge.

DRAFT

Mr. Christopher DeWitt, R.P.G., Acting Chief  
Restoration Branch  
Environmental Management Division  
377 ABW/EM  
2000 Wyoming Boulevard SE  
Kirtland Air Force Base, NM 87117-5659

Dear Mr. DeWitt:

The Environmental Protection Agency (EPA) hereby approves your September 26, 1994 SWMU Assessment Report for Landfill D, LF-56, at the Manzano Weapons Storage Area.

The investigation at Landfill D will include the following items, as detailed in your report:

1. Analyze aerial photographs to determine patterns of waste disposal;
2. Conduct a soil gas survey and use results of survey to locate soil sampling locations;
3. Collect soil samples at 5-foot intervals until field screening indicates no contamination (or until bedrock is reached) from a minimum of 20 sampling locations throughout the landfill;
4. Analyze all samples for volatile organics (EPA Method 8240), semivolatile organics (EPA Method 8270), and metals (SW 7000 series); and
5. Excavate and dispose of the sewage sludge pile (approximately 10 cubic yards) and collect two confirmatory surface samples and analyze for total metals.

Please note that the EPA is not requiring a separate RCRA Facility Investigation Work Plan for this site. Rather, the investigation will be conducted in accordance with the Health and Safety Plan, Project Management Plan, and Data Collection Quality Assurance Plan approved on April 7, 1994 for the investigation of the Appendix III SWMUs.

Landfill D shall be added to Appendix V of Kirtland's RCRA/HSWA permit. The draft RFI Report shall be submitted to the EPA by December 31, 1995.

DRAFT

As a reminder, permit condition D.2 of your RCRA/HSWA permit requires that "...notifications, and other submissions to the Administrative Authority required in this Module are signed and certified in accordance with 40 CFR 270.11." The SWMU Assessment Report for Landfill D did not contain the required certification statement. Please revise the cover page to the SWMU Assessment Report to include the required certification statement and forward a copy to our office.

Please contact Nancy Morlock of my staff at (214) 665-6650 if you have any questions.

Sincerely yours,

David W. Neleigh, Chief  
New Mexico and Federal Facilities  
Section

cc: Mr. Benito Garcia, Chief  
Hazardous and Radioactive Materials Bureau  
New Mexico Environment Department