



DEPARTMENT OF THE AIR FORCE
377th Civil Engineer Squadron (AFMC)

Federal Express

KAFB 06

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MEMORANDUM FOR MR. JAMES P. BEARZI, BUREAU CHIEF
NEW MEXICO ENVIRONMENT DEPARTMENT (NMED)
HAZARDOUS WASTE BUREAU (HWB)
2905 RODEO PARK DRIVE EAST, BUILDING 1
SANTA FE, NM 87505-6303

FROM: 377 MSG/CEVR
2050 Wyoming Blvd SE, Suite 118
Kirtland AFB, NM 87117-5270

SUBJECT: Request for Review of Eleven Septic Systems Sites by the NMED to for determination of Suitability for Administrative Removal of from the Kirtland AFB Resource Conservation and Recovery Act (RCRA) Permit, EPA ID# NM9570024423

1. The Environmental Management (EM) Branch at Kirtland AFB is submitting the following information for review by the New Mexico Environment Department (NMED) to determine the suitability of these sites for Administrative Removal from Table A of the Kirtland AFB RCRA Permit.

- a. SWMU 10-21A, Building 525 Septic System (ST-287)
- b. SWMU 10-21B, Building 619 Septic System (ST-290)
- c. SWMU 10-21D, Building 707 Septic System (ST-297)
- d. SWMU 10-21G, Building 20599 Septic System (ST-302)
- e. SWMU 10-21H, Building 20749 Septic System (ST-303)
- f. SWMU 10-21J, Building 28054 Septic System (ST-305) & Building 28050 Septic System (ST-306) (CO-LOCATED AT THE GOLF COURSE)
- g. SWMU 10-21X, Building 29042 Septic System (ST-323)
- h. SWMU 10-21Y, Building 29051 Septic System (ST-324)
- i. SWMU 10-21AA, Building 66029 Septic System (ST-342)
- j. SWMU 10-21AA, Building 66006 Septic System (ST-345)

2. The attached presents a summary of information for each site compiled from research (historical, analytical) and site visits.

3. These 11 sites have met the New Mexico Environment Department (NMED) No Further Action Criterion 2:

The SWMU has never been used for the management (that is, generation, treatment, storage, or disposal) of Resource Conservation and Recovery Act (RCRA) solid or hazardous wastes and/or constituents or other Comprehensive Environmental Response, Conservation and Liability Act (CERCLA) hazardous substances.

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4. If you have any questions, please do not hesitate to contact me at (505) 853-6534 or Wayne Bitner at (505) 853-3484.



CARL J. LANZ, P.G., GS-13
Chief, Restoration Section

Attachments:

1. Site Research Package

cc:

NMED HWB-Chief, Mr. Bearzi, wo Atchs

NMED HWB-KAFB, Mr. McDonald, w Atchs

USEPA-Region 6 (6PD-N), Ms. King, wo Atchs

TLI Solutions, Mr. Tow, wo Atchs

USACE (Albuquerque), Ms. Monique Osterman, wo Atchs

HQ AFMC/A7CVP, Mr. Fort, wo Atchs

Admin Record, Central New Mexico Community College, Montoya Campus, w Atchs

Administrative Record/Information Repository, w Atchs

File

1. SWMU 10-21A, Building 525 Septic System (ST-287)

Location and Current Land Use

Septic tank ST-287 is located approximately 10 ft south of Building 525, a restroom facility adjacent to a softball field in the northwest portion of Kirtland Air Force Base (Kirtland AFB). The land use near ST-287 is considered urban/industrial. Based on engineering drawings and observed site conditions, inflow and outflow line lengths are approximately 10 ft and 15 ft, respectively. This 500-gallon tank discharges to a leach field to the south with a drainage area approximately 50 ft x 20 ft. The doors on the restroom facility are locked at times when the softball facility is not in use. Figure 1.1 shows the site location and configuration.

Projected Future Land Use

There are no proposed changes for the land use at ST-287.

Site History

There is no historical information available for Building 525. There is no historical evidence to suggest the facility was used as a laboratory, maintenance shop, or for chemical storage, and there are no floor drains. This building was constructed solely as a restroom facility for the softball field and used only for domestic type waste disposal. Hazardous materials were never managed, stored, or disposed of at the site.

Geology and Hydrogeology

The ST-287 area is underlain by unconsolidated alluvial sediment that is predominantly very fine grained to fine-grained sand with some gravel. Groundwater beneath this area is found within the Upper Santa Fe sediments and is generally thought to be unconfined in the upper portion of the aquifer. Depth to groundwater is estimated to be about 350 ft below grade; however, shallower perched water zones may occur. Hydrogeologic characterization in this portion of Kirtland AFB is complicated by the presence of numerous production wells. Local cones of depression associated with groundwater withdrawal have altered the groundwater flow direction in the vicinity of the well fields. Two production wells are located near this septic tank and leach field area: KAFB-14, 2,000 ft southwest, and KAFB-12, 3,500 ft west-northwest.

1995 Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Field Investigation

On February 9, 1995, four boreholes were drilled and sampled using a Geoprobe. One borehole was drilled north of the leach field area to collect background data for the site. Three boreholes were drilled in the leach field area. Based on engineering drawings and observed field conditions, the leach field lines were determined to be 3 ft below grade. The sample interval at each borehole extended from the depth of the leach field line to 5 ft below the leach field line. From this interval, two samples were collected: one at a depth equal to the base of the leach field line, the other from 3 ft below the base of the leach field line. Each 2-ft sample interval was field-screened for possible contamination using a beta-gamma meter and a flame ionization detector. No elevated readings were detected with these instruments. No other investigations have been performed at this site.

Analytical Results

Four soil samples were analyzed for Volatile Organic Compound (VOC)s, Semivolatile Organic Compound (SVOC)s, Total Petroleum Hydrocarbon (TPH) as Gas Range Organics (GRO) and Diesel Range Organics (DRO), metals, mercury, soil pH, and soil moisture. Methylene chloride (0.006 to 0.007