



BILL RICHARDSON
GOVERNOR

State of New Mexico
ENVIRONMENT DEPARTMENT

Ground Water Quality Bureau
Harold Runnels Building
1190 St. Francis Drive, P.O. Box 26110
Santa Fe, New Mexico 87502-6110
Telephone (505) 827-2918
Fax (505) 827-2965
Fed Ex (87505)



RON CURRY
SECRETARY

DERRITH WATCHMAN MOORE
DEPUTY SECRETARY

June 15, 2005

Mr. Mark Holmes
US Air Force
377 ABW/EMR
2050 Wyoming Blvd. SE
Kirtland AFB
Albuquerque, New Mexico 87117-5270

RE: Approval of Stage 1 Abatement Plan for East side (Area 2) of the Bulk Fuels Facility (ST-106), Kirtland Air Force Base (KAFB), Bernalillo County, Albuquerque, New Mexico.

Dear Mr. Holmes:

The purpose of this letter is for the New Mexico Environment Department (NMED) to approve the Stage 1 Abatement Plan (AP) for the East Side (Area 2) of the Bulk Fuels Facility (ST-106) at Kirtland Air Force Base (KAFB). Pursuant to the New Mexico Water Quality Control Commission (WQCC) Regulation, Section 20.6.2.4109.A, the Stage 1 AP for Area 2 dated March 8, 2005, is hereby approved subject to the conditions listed below. In approving this abatement plan, the Ground Water Quality Bureau (GWQB) of the NMED has determined that the requirements of WQCC Section 20.6.2.4106.C NMAC have been met.

This facility, originally installed in 1953 on KAFB property, is the primary military aviation bulk fuel facility. Past discharges of aviation fuels, including aviation gas, JP-4 and JP-8 have resulted in a soil contamination plume, which covers approximately 6.5 acres, and extends to a depth of approximately 310 feet below ground surface. Depth to ground water at the facility is approximately 500 feet.

The KAFB report, dated August 13, 2004, documents the results of further investigation and outlines the discovery of a separate area of primarily diesel range hydrocarbon contamination in the vadose-zone. This area is located east of, and separated from, the main body of fuel

KAFB3572



contamination beneath the offloading rack that is being remediated with a soil vapor extraction system (SVES) under an NMED approved Stage 2 AP.

The Area 2 Stage 1 AP proposal sets forth a phased investigation approach for potential source areas for the eastern side of the ST106 site. Contamination may be associated with past discharges related to one or more of the following possible sources:

- 1) A potential fuel truck wash facility abandoned drain field.
- 2) A pump house with a commingle tank for recovered liquid fuel, connected to a dry well drain system for the isolation of pump-house spills or releases.
- 3) Three Above-Ground Fuel Storage Tanks and two tank bottom-water containment vessels housed within their bermed areas, which may have overflowed.
- 4) Other possible discharges related to pipelines and valves in the area connecting fueling tanks to pump house 1033 and the fuel loading rack.

The plan outlines both soil borings for soil sampling and soil gas investigation in these areas to determine their potential for contribution to the deep contamination identified in the soil vapor monitoring well SVMV-06 on the east side of the ST-106 Facility.

GENERAL ABATEMENT PLAN REQUIREMENTS

In addition to any other requirements provided by law, approval of this abatement plan is subject to the general requirements specified in WQCC Section 20.6.2.4107 NMAC. This regulation provides for:

- 1) NMED entry, inspection and sampling at the site and on property under the owner's control;
- 2) Notification to NMED of sampling and well plugging, abandonment or destruction; and
- 3) Requirements for well-plugging, abandonment or destruction.

MODIFICATIONS

KAFB shall notify NMED, pursuant to WQCC Regulation Section 20.6.2.4111.A NMAC, of any proposed modifications to this approved plan and shall obtain NMED's written approval for such modifications. WQCC Regulation Section 20.6.2.4111.B NMAC also provides for possible future amendment of the abatement plan by NMED.

Mr. Mark Holmes
June 15, 2005
Page 3

KAFB's continued cooperation in this matter is greatly appreciated. Should you have any questions about this letter, please contact Baird Swanson, Project Manager at (505) 222-9520 or Christine Bynum, Program Manager at (505) 827-2754.

Sincerely,



William C. Olson, Chief
Ground Water Quality Bureau

cc: ROS reading file
~~Baird Swanson, NMED District 1 Office~~