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Lieutenant Governor

NEW MEXICO **ENTERED**
ENVIRONMENT DEPARTMENT

AR Doc #3746
L.W.B.
8-25-2014



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CERTIFIED MAIL - RETURN RECEIPT REQUESTED

August 20, 2014

Colonel Tom D. Miller
Base Commander
377 ABW/CC
2000 Wyoming Blvd. SE
Kirtland AFB, NM 87117-5606

John Pike
Director, Environmental Management Services
377 MSG
2050 Wyoming Blvd. SE, Suite 116
Kirtland AFB, NM 87117-5270

RE: INTERIM GROUNDWATER EXTRACTION AND ADDITIONAL CHARACTERIZATION, BULK FUELS FACILITY SPILL SOLID WASTE MANAGEMENT UNITS ST-106 AND SS-111 KIRTLAND AIR FORCE BASE EPA ID# NM9570024423, HWB-KAFB-14-MISC

Dear Colonel Miller and Mr. Pike:

The New Mexico Environment Department (NMED) has evaluated your August 1, 2014 work plan for groundwater extraction and additional characterization. Your proposal is to:

- install at least one new groundwater monitoring well near the existing well cluster consisting of wells Kirtland Air Force Base (KAFB)-106035, KAFB-106036, and KAFB-106037 to locate the approximate maximum depth of EDB contamination plume that exceeds the drinking water standard of 0.05 µg/L;
- after the depth of EDB contamination has been defined, install a new extraction well at that location that will be designed to capture EDB contamination at multiple depths;
- install a conveyance pipeline and treatment and disposal system for the extracted groundwater; and
- install 15 additional groundwater monitoring wells at locations identified in Figure 1 of your proposal.

This interim measure would demonstrate the feasibility of capturing and containing EDB contamination in the area between the source area and water supply wells utilized by the Albuquerque Bernalillo County Water Utility Authority. NMED strongly supports your efforts to move forward with this interim measure.



Your proposed work plan is hereby approved with the following conditions:

1. NMED, the Permittee, the Permittee's contractors, the Albuquerque Bernalillo County Water Utility Authority, and the City of Albuquerque shall have a coordination meeting prior to the commencement of drilling operations.
2. For each of the additional 5 monitoring well nests the Permittee shall provide a written work plan describing the anticipated depth to groundwater, lithology and contamination conditions based on the results obtained from well KAFB-106212 and other wells in the area. These drilling work plans shall become part of the work plan approved by this letter.
3. For each of the additional 15 monitoring wells the Permittee shall provide a lithologic log and proposed screened interval to NMED for approval. NMED will provide a list of staff who will be available to receive, review and approve this information during drilling operations.
4. The monitoring well drilling and installation shall be overseen by a person with extensive experience in supervising drilling activities, interpreting and cataloging drill cuttings and core samples, and in preparing lithologic well logs. This person also shall record all relevant information obtained during drilling including drillers comments on the earth material encountered in the boring, description of core hammer and type of coring device used, blow counts during coring, and amount of material recovered during drilling and coring.
5. NMED staff shall make unannounced site visits and inspections of field notes, drill cuttings and core samples, and shall abide by all reasonable site health and safety requirements imposed by the Permittee or the Permittee's contractors.
6. The Permittee shall provide weekly email updates on drilling progress by close of business on Friday during each week of drilling.

NMED reserves the right to require the installation of additional wells if necessary to accomplish plume definition and hydraulic containment of the EDB contamination.

NMED technical staff will assist you and your contractor in any way possible to achieve these interim measures.

During NMED's presentation to the ABCWUA Board meeting on August 21, 2013, KAFB agreed to Task 3 which stated; "TASK 3, Design and Implement Interim Treatment of Dissolved Phase (EDB), 4th Quarter 2014." KAFB is expected to meet this deadline with the design and implementation for EDB interim measures by December 31, 2014.

Col. Miller and Mr. Pike
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If you have any questions, please contact me at 505-827-2855.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Blaine". The signature is written in a cursive style with a long, sweeping underline.

Tom Blaine, P.E.
Director
Environmental Health Division

TB/DM

cc: Col. T. Haught, KAFB
D. Wilson, KAFB
B. Gallegos, AEHD
F. Shean, ABCWUA
L. King, EPA-Region 6 (6PD-N)

File: KAFB 2014 Bulk Fuels Facility Spill and Reading