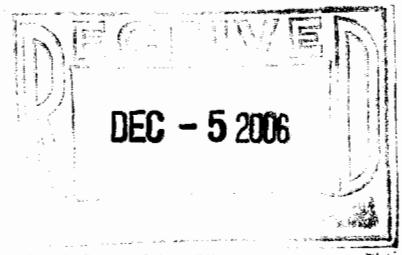


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DEPARTMENT OF THE AIR FORCE
377th Civil Engineer Division (AFMC)
FEDERAL EXPRESS



4 Dec 06

MEMORANDUM FOR MR. WILLIAM C. OLSON, CHIEF
GROUNDWATER QUALITY BUREAU (GWQB)
NEW MEXICO ENVIRONMENT DEPARTMENT (NMED)
PO BOX 26
SANTA FE, NM 87502


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

SUBJECT: Stage 2 Abatement Plan Addendum, Work Plan and Sampling and Analysis Plan,
Installation of Monitoring Well KAFB-1065, Bulk Fuels Facility (ST-106), Kirtland AFB, NM

1. The Environmental Management (EM) Branch at Kirtland AFB (KAFB) is submitting the subject Work Plan including one electronic version of the document. The Work Plan describes plans for installation of one groundwater monitor well associated with the subject Bulk Fuels Facility (BFF) site.
2. Groundwater monitor well KAFB-1065 is being installed to monitor for possible downgradient migration of groundwater containing fuel related hydrocarbon constituents in the northeastern direction from the BFF site. The existing groundwater monitor well network does not include a downgradient groundwater monitor well located to the northeast of the site.
3. Installation of KAFB-1065 is scheduled to be completed in January 2007. A groundwater sample will be collected from the newly installed monitor well as part of the January 2007 quarterly sampling event. Analytical results will be included in the quarterly monitoring report that will be submitted to NMED in May 2007.
4. The type and content of Work Plan was discussed with Mr. Baird Swanson of your staff in a meeting held at KAFB on 16 Aug 06.

KAFB3058

5. Please contact me at 505-853-6534, if you have any questions or comments on this matter.



CARL J. LANZ, P.G.
Chief, Restoration Section

Attachments:

1. Stage 2 Abatement Plan Addendum, Letter Workplan and SAP for Installation of KAFB-1065
2. Electronic Version of the Stage 2 Abatement Plan Addendum, Letter Workplan and SAP for Installation of KAFB-1065

cc:

NMED GWQB, Mr. Swanson w Atchs
NMED HWB, Mr. Kieling w Atchs
NMED HWB, Mr. McDonald, w Atchs
377 MSG/CEVC, Mr. Montano w Atchs
USEPA-Region 6 (6PD-N), Ms. King, wo Atchs
HQ AFMC/A7CVQ, Mr. Fort, wo Atchs
AFCEE, Mr. Urrutia, wo Atchs
CH2M, Mr. Minchak, wo Atchs
Admin. Record, CNM, Montoya Campus w Atch 2 only
AR/IR w Atch 2 only
File

ATTACHMENT

Stage 2 Abatement Plan Addendum, Work Plan and Sampling and Analysis Plan, Installation of Monitoring Well KAFB-1065, Bulk Fuels Facility (ST-106), Kirtland Air Force Base (AFB), New Mexico

1. This Work Plan summarizes the activities that will be completed during the installation of one groundwater monitoring well in support of the continuing investigation of site ST-106, Former Offloading Rack, Bulk Fuels Facility, Kirtland Air Force Base (AFB). This well will be installed according to the procedures outlined in this *Stage 2 Abatement Plan Addendum*, procedures described in the October 2005 *Stage 2 Abatement Plan*¹ for the installation of monitoring well KAFB-1064, and procedures outlined in the Kirtland Air Force Base (AFB) Base-Wide Plans for the Environmental Restoration Program, 2004 Update². This document is considered an addendum to the Stage 2 Abatement Plan Work Plan and Sampling and Analysis Plan¹ for the installation of monitoring well KAFB-1064.
2. In November 1999, three known discharges occurred from underground pipelines that transferred fuel from the JP-8 offloading rack to the pump house at the facility. Due to the failure of the underground fuel pipelines, the JP-8 offloading rack was decommissioned.

Five groundwater monitoring wells, KAFB-1061, KAFB-1062, KAFB-1063, KAFB-1064, and KAFB-3411, are currently used to monitor groundwater on and adjacent to the Former Fuel Offloading Rack at the Bulk Fuels Facility. Local groundwater flows north-northeast.

Petroleum hydrocarbon compounds and other fuel-related volatile organic compounds (VOCs) have been detected during quarterly groundwater sampling events at one or more of the five groundwater monitoring wells associated with site ST-106.

Based on a review of groundwater elevation data and calculated groundwater flow gradient and direction the data indicate that there appears to be a component of groundwater flow to the northeast from the release area at the Former Offloading Rack. Currently, there is not a monitoring point from which aquifer data can be collected northeast of the former rack. Therefore, a new groundwater monitoring well will be installed to ascertain the extent of potential groundwater impacts to the north-northeast of the Bulk Fuels Facility. The well will be named KAFB-1065, following Kirtland AFB monitoring well nomenclature conventions. Monitoring well KAFB-1065 will be installed northeast of KAFB-1061, on the north side of Randolph Ave., west of Fuels Dr., and along the same east-west transect as monitoring wells KAFB-1062 and KAFB-1063 (Figure 1).

3. Anticipated well installation procedures for proposed well KAFB-1065 are described in the following sections.

Monitoring Well Permit

The New Mexico OSE promulgated updated Rules and Regulations Governing Well Driller Licensing; Construction, Repair, and Plugging of Wells (19.27.4 New Mexico Administrative

¹ USAF, 2005. *Stage 2 Abatement Plan Work Plan and Sampling and Analysis Plan, Installation of Monitoring Well KAFB-1064, Bulk Fuels Facility (ST-106)*. United States Air Force, Kirtland Air Force Base, New Mexico. October.

² USAF, 2004. *Base-Wide Plans for the Environmental Restoration Program, 2004 Update*. United States Air Force, Kirtland Air Force Base, New Mexico. April.