DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 377TH AIR BASE WING (AFMC)

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NMED
Hazardous Waste Bureau

Colonel Tom D. Miller
377 ABW/CC
2000 Wyoming Blvd SE
Kirtland AFB NM 87117

Mr. Tom Blaine, Manager
Environmental Health Division Director
Environmental Health Division
New Mexico Environment Department (NMED)
1190 St. Francis Drive
Santa Fe, New Mexico 87502

Dear Mr. Blaine

Attached is the *KAFB-10612 Replacement Work Plan*, in response to NMED's letter received January 15, 2014 titled, "Requirement to Return Well 10612 to Service Bulk Fuels Facility Spill Waste Management Units ST-106 and SS-111, Kirtland Air Force Base, EPA ID# NM9570024423 HWB-KAFB-12-026".

If you have any questions or concerns about this letter or its attachment, please contact Mr. L. Wayne Bitner at (505) 853-3484 (ludie.bitner@us.af.mil) or Mrs. Victoria R. Branson at (505) 846-6362 (victoria.branson@us.af.mil).

Sincerely

TOM D. MILLER, Colonel USAF
Commander

Attachment:
KAFB-10612 Replacement Work Plan, dated March 21, 2014

cc:
NMED-HWB (Kieling, Cobrain, Moats, McDonald, Brandwein) w/attach
NMED-GWQB (Schoeppner) w/attch
NMED-PSTB (Reuter) w/attch
NMED-OGC (Kendall) w/o attch
EPA Region 6 (King) w/o attch
AFCEC-CZRX (Oyelowo) w/o attch
Public Info Repository, AR/IR, File w/attch

KAFB4133

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March 21, 2014

Subject: KAFB-10612 Replacement Work Plan

This KAFB-10612 Replacement Work Plan has been prepared by CB&I Federal Services LLC for the U.S. Army Corps of Engineers (USACE), Albuquerque District, under Contract W912DY-10-D-0014. This letter work plan outlines the activities and procedures to abandon existing groundwater monitoring well KAFB-10612; along with the installation of replacement groundwater monitoring well KAFB-10612R at Kirtland Air Force Base (KAFB) Bulk Fuels Facility (BFF) spill site, Solid Waste Management Units ST-106 and SS-111.

The abandonment and replacement of KAFB-10612 is being performed in response to the NMED letter received January 15, 2014 titled, "Requirement to Return Well 10612 to Service Bulk Fuels Facility Spill Waste Management Units ST-106 and SS-111 Kirtland Air Force Base, EPA ID# NM9570024423 HWB-KAFB-12-026". This letter noted the discontinued sampling at Well 10612 after the pump installed in the well malfunctioned, and required the Permittee to make the necessary repairs to well KAFB-10612 in order to resume monitoring and sampling of the well. The letter directed that recommencement of sampling of Well 10612 must coincide with the second quarter 2014 sampling event. KAFB has assessed KAFB-10612 and determined that repair of the well is not feasible. Well KAFB-10612 will be abandoned and replaced as outlined in this work plan.

Existing Well Information

Groundwater monitoring well KAFB-10612 is proposed for abandonment and replacement in this letter work plan. Figure 1 illustrates the location of KAFB-10612 and its proposed replacement, KAFB-10612R. KAFB-10612 is a groundwater monitoring well located on KAFB property north of Randolph Ave and south of Bullhead Park. This well was installed in September 2008 and is completed in the regional aquifer using 4 in schedule 80 PVC riser and 25 feet of 0.010 slot PVC screen. The bottom of the well is set at 520 ft bgs.

Well Abandonment

Based on the requirements established by the NMED HWB, the groundwater monitoring well KAFB-10612 will be abandoned in accordance with the procedures described in Section 4.2.3.2 of the *Groundwater Investigation Work Plan, Bulk Fuels Facility (BFF) Spill, Solid Waste Management Units ST-106 and SS-111* (USACE, 2011a), approved by NMED March 2011.

Well Installation

Figure 1 illustrates the proposed location of the new well KAFB-10612R, 50 feet west of the original well location. The drilling and installation of the replacement well will contain the same construction as the shallow groundwater monitoring wells installed as part of the SS-111 groundwater investigation, as described in Sections 4.2.3 and 4.2.4 of the Groundwater Investigation Work Plan (USACE, 2011a). To allow for the potential continuing rise of the groundwater table, the well construction will include a 30-foot screen length, with no more than 15 feet of screen situated below the water table as directed in the 13 April 2012 NMED letter, *Requirement For Characterization Plan Conditional Approval: Additional Groundwater Monitoring Wells, Addendum To Groundwater Investigation Work Plan March 2011.* Proposed construction details are shown on Figure 2.

In addition, a continuous core sample will be obtained from 490 ft bgs (approximately at the water table) to 510 ft bgs (approximately 20 ft below the water table) using split-spoon sampling techniques. The continuous split-spoon sample will provide material for bench scale testing to inform upcoming interim measures. No additional core samples will be collected in the vadose zone soil at this location.

Once installed and developed, well KAFB-10612R will be integrated into the monitoring well program and sampled on a quarterly basis in accordance with Section 5.2 of the Groundwater Investigation Work Plan (USACE, 2011a) and the project specific Quality Assurance Project Plan (QAPP; USACE, 2011b). A dedicated pump will be installed in the new well in accordance with the Groundwater Investigation Work Plan (USACE, 2011a).

References

USACE. 2011a. *Groundwater Investigation Work Plan, Bulk Fuels Facility (BFF) Spill, Solid Waste Management Units ST-106 and SS-111, Kirtland Air Force Base, Albuquerque, New Mexico.* Prepared by Shaw Environmental & Infrastructure, Inc. for the USACE Albuquerque District under USACE Contract No. W912DY-10-D-0014, Delivery Order 0002. March.

USACE. 2011b. *Quality Assurance Project Plan, Bulk Fuels Facility (BFF) Spill, Solid Waste Management Units ST-106 and SS-111, Kirtland Air Force Base, Albuquerque, New Mexico.* Prepared by Shaw Environmental & Infrastructure, Inc. for the USACE Albuquerque District under USACE Contract No. W912DY-10-D-0014, Delivery Order 0002. April.

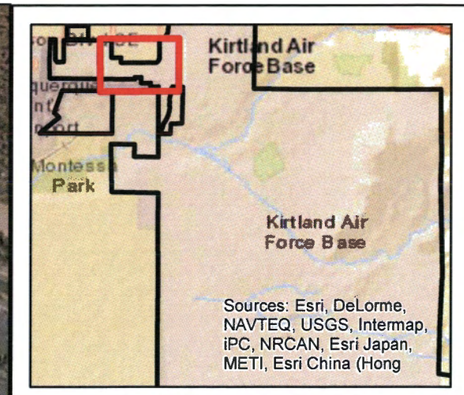
40 CFR 270.11
DOCUMENT CERTIFICATION
MARCH 2014

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

TOM D. MILLER, Colonel, USAF
Commander, 377th Air Base Wing

This document has been approved for public release.

KIRTLAND AIR FORCE BASE
377th Air Base Wing Public Affairs



Existing GWMW Location

Proposed GWMW Location

Installation Boundary

KAFB Kirtland Air Force Base

GWMW Groundwater Monitoring Well

Inset: City Areas

- Roads
- Runway
- Airport Area
- State Park
- City Area
- Bulk Fuels Facility

Source: Microsoft Virtual Earth

N

0 400 Feet

BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

FIGURE 1

PROPOSED GROUNDWATER MONITORING WELL LOCATION
KIRTLAND BULK FUELS FACILITY

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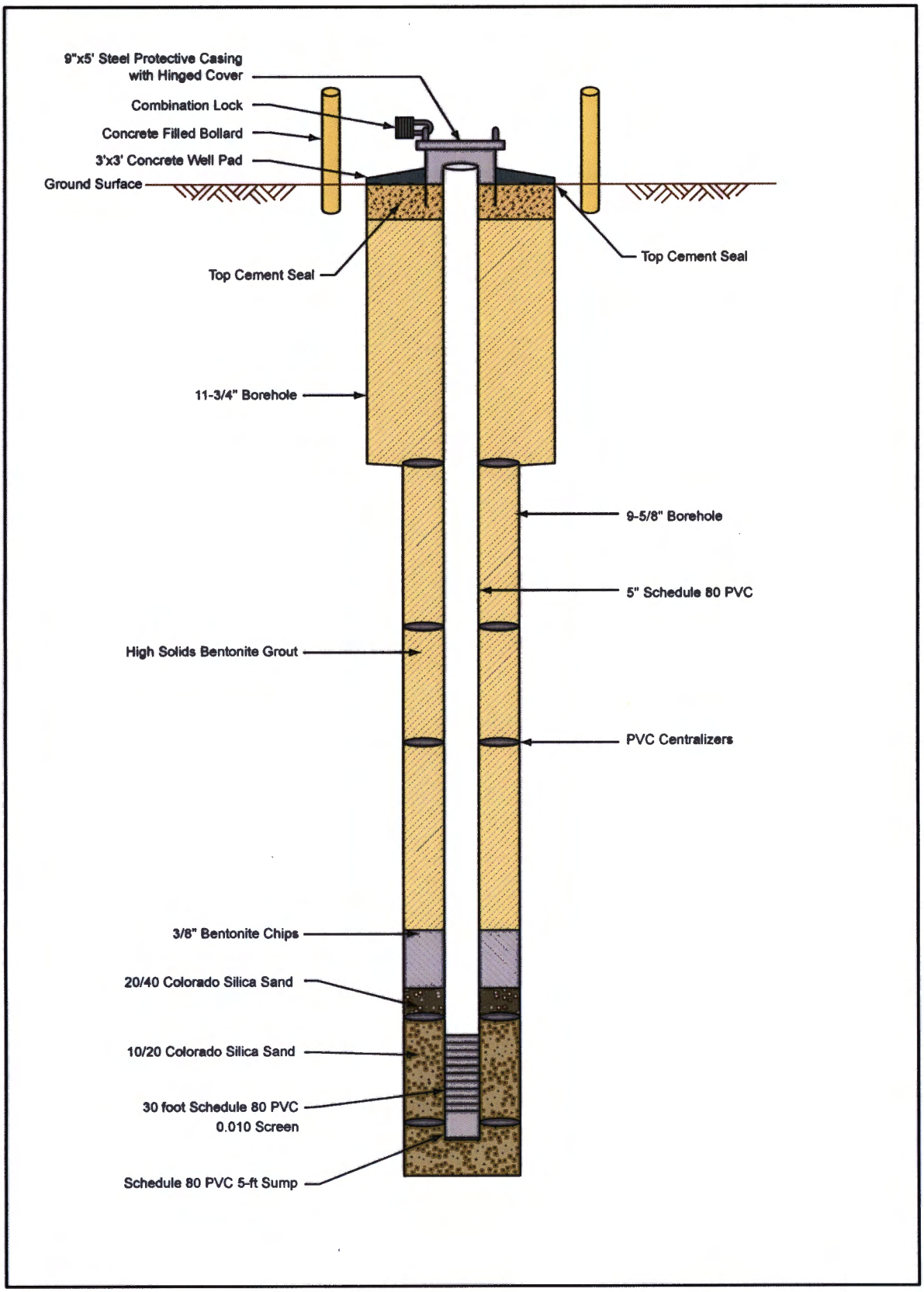
Figure 2
Well Construction Diagram KAFB-10612R



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