Dear Mr. Kieling,

Attached please find the proposed well design for a replacement contingency well for the KAFB-106240 location as approved in the Work Plan for Data Gap Monitoring Well Installation, Bulk Fuels Facility, Solid Waste Management Unit (SWMU) ST-106/SS-111, Kirtland Air Force Base, New Mexico, dated December 2017. This work plan was approved on February 28, 2018 for two-well nests comprised of a water table well and a contingency well (to monitor higher water table elevations in the future). As notified to NMED on June 22, 2018, the contingency well was compromised during the grout emplacement in the final stage of well construction. The water table well was completed and functions as designed at this location. The compromised contingency well will be plugged in accordance with a New Mexico Office of the State Engineer approved Well Plugging Plan of Operations. A replacement contingency well, designated KAFB-106246 is planned approximately 30 feet west of the original KAFB-106240 location with a single well casing and screen that will overlap the top five feet of the new water table well screen at KAFB-106240.

If you have any questions or concerns, please contact Mr. Scott Clark at (505) 846-9017 or at scott.clark@us.af.mil; or Mr. Sheen Kottkamp at (505) 846-7674 or at sheen.kottkamp.1@us.af.mil

Sincerely,

[Signature]

RICHARD W. GIBBS, Colonel, USAF
Commander

Attachments:
Figure 1, Location of KAFB-106246 Replacement Contingency Well for KAFB-106240
Figure 2, Data Gap Groundwater Monitoring Well Construction KAFB-106246

cc:
NMED (Borrego) letter
NMED-OOTS (McQuillan), letter and CD
NMED GWQB (Hunter), letter and CD
EPA Region 6 (King, Ellinger), letter and CD
SAF-IEE (Lynnes), electronic only
AFCEC/CZ (Renaghan, Clark, Kottkamp, Segura), electronic only
USACE-ABQ District Office (Moayyad, Phaneuf, Dreeland, Sanchez, Salazar), electronic only
Public Info Repository, Administrative Record/Information Repository (AR/IR) and File
LOCATION OF KAFB-106246 REPLACEMENT CONTINGENCY WELL FOR KAFB-106240

DATA GAP MONITORING WELL INSTALLATION BULK FUELS FACILITY
SOLID WASTE MANAGEMENT UNIT ST-106/SS-111 KIRTLAND AIR FORCE BASE, NEW MEXICO

Figure 1

Notes:
Aerial Imagery from 04/22/2017 : Google Earth Pro, 2017
GWM = groundwater monitoring
REI = reference elevation interval

Legend
- New Monitoring Well (2018)
- Existing 4857 REI Groundwater Monitoring Well (screen submerged)
- Drinking Water Supply Well
- Former Aboveground Storage Tank
- Former Buried Fuel Transfer Line
- Former Aboveground Fuel Transfer Line
- Installation Boundary
- Source Area
**FIGURE 2 - DATA GAP GROUNDWATER MONITORING WELL CONSTRUCTION**

**KAFB-106246**

*NOT TO SCALE*

**BGS**=BELOW GROUND SURFACE

**FT**=FEET

**EXISTING GRADE**

**0 FT BGS**

1. **(1–30’ FT BGS) 955/5% CEMENT/BENTONITE GROUT**
   - TYPE OF SEAL

2. **(1–100’ FT BGS) 11 3/4 INCH BOREHOLE DIAMETER**
   - Hydrated Bentonite Grout
   - TYPE OF SEAL

3. **(100–460’ FT BGS) 9 5/8 INCH BOREHOLE DIAMETER**
   - TYPE OF RISER PIPE 3 IN SCH 80 PVC

4. **(396–428’ FT BGS) HYDRATED BENTONITE**
   - TYPE OF SEAL

5. **TOP OF FILTER PACK FT BGS 428**

6. **3” SCH 80 PVC SCREEN (0.010 SLOT)**

7. **10/20 COLORADO SAND**
   - SIZE OF FILTER PACK

8. **460 BOTTOM OF BOREHOLE**

9. **480 BOTTOM OF SCREEN FT BGS 453**

10. **TOP OF SCREEN FT BGS 428**

11. **25’**

12. **20’**

**NOTE:** ALL DEPTHS REFERENCE IN FEET BELOW GROUND SURFACE.

Water table 474 bgs June 2016. Top of screen KAFB-106240 is 449 bgs.