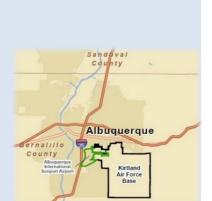




Discussion Topics



- Project Status
 - Groundwater Contaminant Plume
 - Pump and Treat System Status
- Shallow Soil Vapor
- Technical Working Groups
- Resource Conservation and Recovery Act (RCRA) Process
- Questions

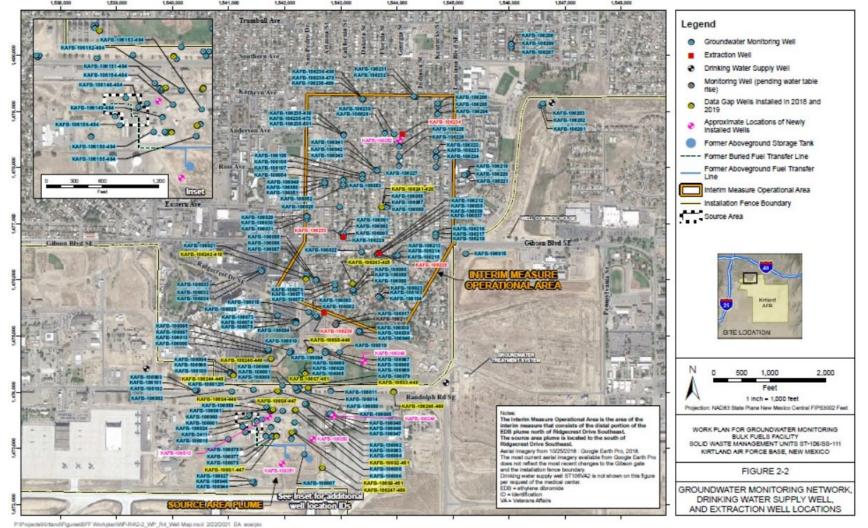






Groundwater Well Locations



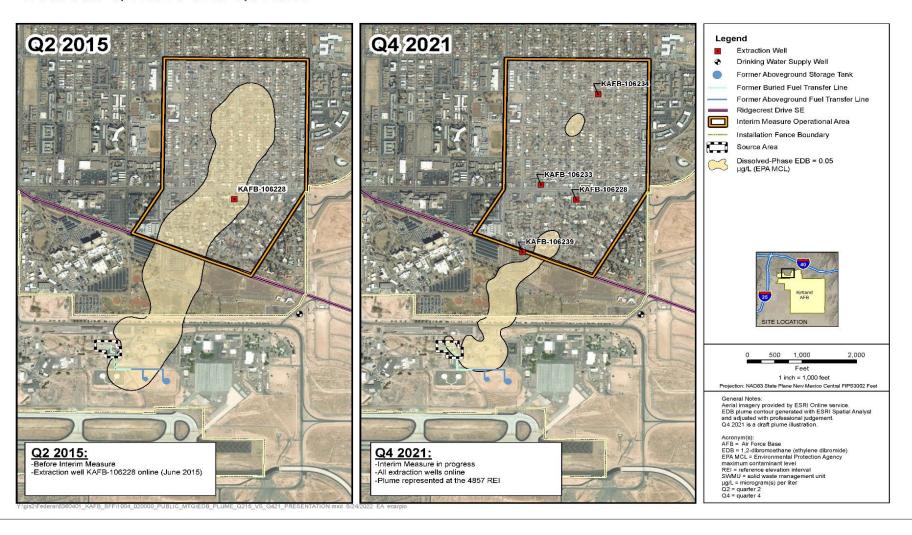


EDB Plume Footprint (over time)





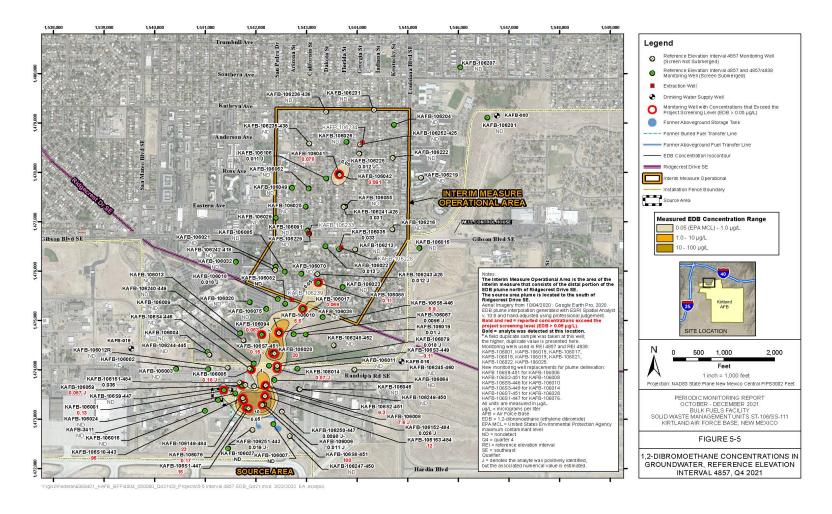
Comparison of Dissolved-Phase EDB Collapse in the Interim Measure Operational Area Between Q2 2015 and Q4 2021





GWM Network

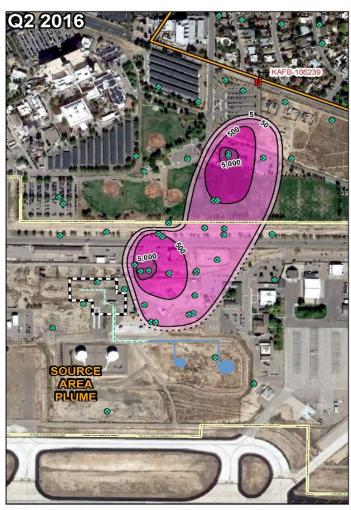




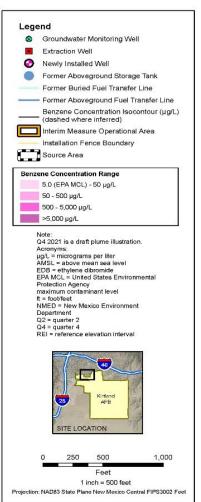
Benzene Plume Footprint (over time)









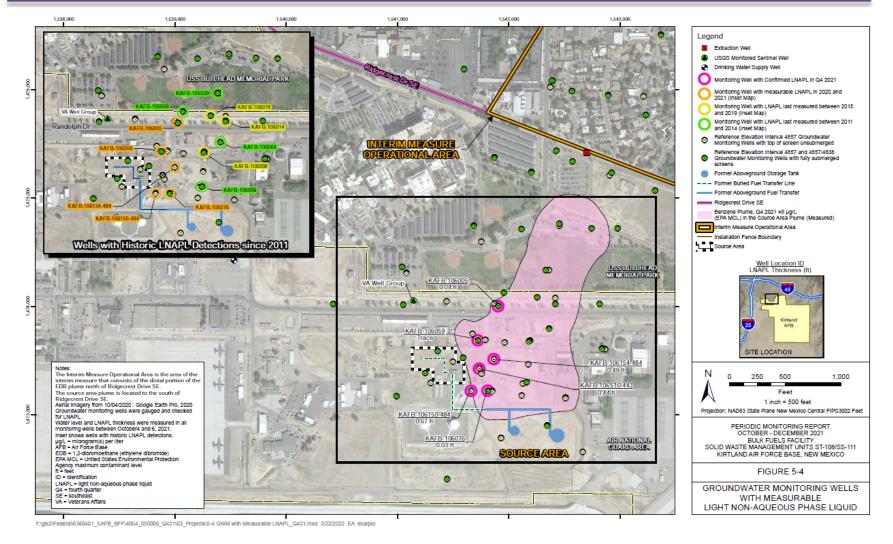


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Groundwater Monitoring Wells with measurable LNAPL

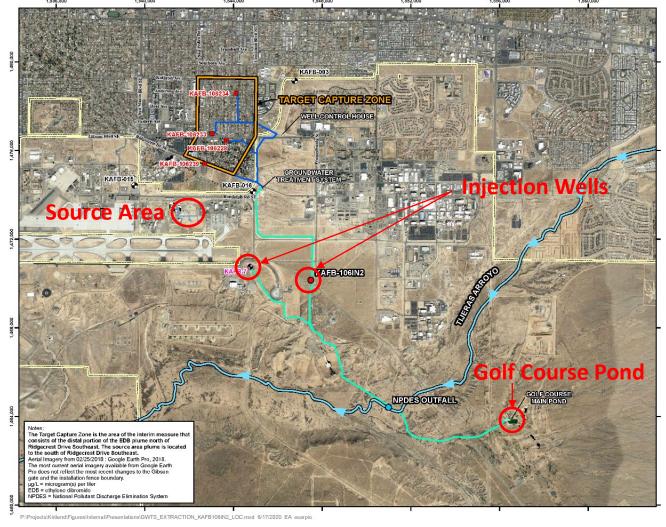






Groundwater Pump and Treat System Status







Groundwater Pump and Treat System Status (cont.)



- The pump and treat IM is operating, properly and successfully
- The goal of the IM is to eliminate the possibility of EDB impacting drinking water supply wells
- No drinking water wells have been impacted and a robust groundwater monitoring (GWM) program is in place
- EPA Maximum Concentration level (MCL) for EDB is 0.05 microgram per liter



Injection Well Activities Completed KAFB-106IN2





- As of 7/25/2022, 56,528,200 gallons of treated water have been injected into KAFB-106IN2
- Site restoration completed:
 - Site was graded and tilled
 - Site was reseeded
 - Gravel mulch placed to minimize wind and water erosion
 - Silt fence will remain until site achieves 70% growth



Shallow Soil Vapor Monitoring Well Installation and Sampling





- Eight soil vapor monitoring wells (SVMWs) were installed in February 2022
- Each SVMW has nested screens at 5, 10, and 15foot depths
- Winter sampling was completed in early March 2022
- Data will be evaluated after a winter and summer sampling events are completed
- Wells will be incorporated into routine monitoring with 59 other nested vapor wells

Document Path: N:\Kirtland\GIS\GIS Projects\G2 2021\Proposed Locations RasePerimeter\Figure 2-1 Proposed Wells & G2 FDR Results2 my



Shallow Soil Vapor Monitoring Well (SVMP) Installation and Sampling





 Eight SVMWs were placed at areas that are most likely to allow migration of soil vapor (utility corridors) or accumulate soil vapor (beneath pavement)

 Borehole information collected during drilling did not identify utility fill material that could potentially serve as a preferred migration pathway

- Drilling was completed safely given the proximity to underground utilities
- Data will be compared to residential soil vapor intrusion screening levels (VISLs)
- First round of shallow soil vapor sampling all concentrations were below the VISLs
- Second round of shallow soil vapor sampling (summer event) scheduled for the week of August 8th, 2022



Technical Working Groups



- Technical Working Group (TWG) held on October 21, 2021 to discuss the groundwater monitoring (GWM) program
- Stakeholder participation included:
 - Air Force
 - USGS
 - USACE
 - NMED
 - City of ABQ
 - Bernalillo county
 - ABCWUA
 - EPA
- Outcomes to evaluate recommendations during the development of an update to GWM Work Plan

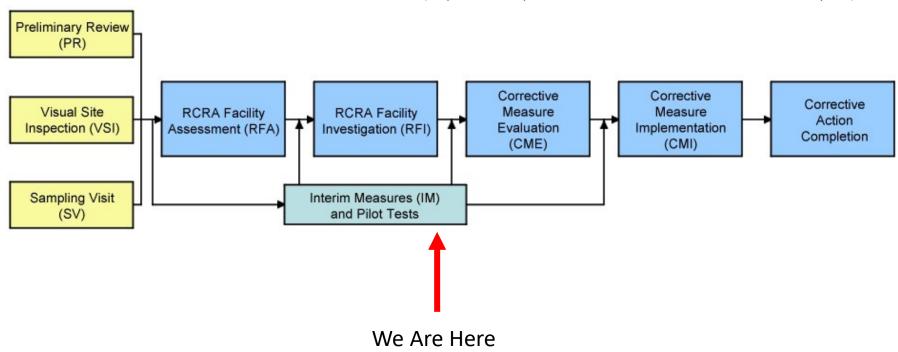
- Future TWG dependent on approval/review of the following documents:
 - Work Plan for GWM, April 19, 2021
 - Source Zone Characterization Report Rev. 1, April 26, 2021
 - Investigation Report for Data Gap Monitoring Well Installation KAFB-106248 to KAFB-106252, October 6, 2021
- Utility in TWG is dependent on if recommendations can be tied directly into regulatory documents
- Possible future TWG topics include:
 - Follow on to the GWM Program TWG
 - Phase II Resource Conservation and Recover Act (RCRA) Facility Investigation (RFI) Report



RCRA Corrective Action Process



*Image adapted from California Department of Toxic Substances Control (https://dtsc-topock.com/resource-conservation-and-recovery-act)





Pathway to RFI Phase II



- Air Force has defined nature and extent in all impacted media to the degree necessary to support the CME
- NMED currently reviewing Source Zone Characterization Report Rev. 1, April 26, 2021 and the Investigation Report for Data Gap Monitoring Well Installation KAFB-106248 to KAFB-106252, October 6, 2021
 - NMED's approval of these reports indicates that the Phase II RFI Report can be drafted
- Air Force has a requirement to submit a Phase II RFI Work
 Plan no later than March 3, 2023





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Online at https://www.kirtland.af.mil/Home/BFF/ and https://ar.afcec-cloud.af.mil/ or visit our New Information Station at the New Mexico Veterans Memorial at 1100 Louisiana Blvd SE, Albuquerque, NM