



Project Update: Bulk Fuels Facility Jet Fuel Leak

Kelsey Bicknell
Environmental Manager
Radioactive and Hazardous Materials Committee
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Kirtland AFB BFF Jet Fuel Leak - Stakeholders

May be adversely affected by decisions; conventionally defines "stakeholder"

Water Authority, VA Hospital, residents

Soil and groundwater impacted by leaked jet fuel and aviation gas

Contractors

May be favorably affected by a decision, typically economic gain

U.S. Air Force

Those who create and own the risk

Those responsible for preventing or minimizing the risk; typically federal, state, and local regulators

New Mexico Environment Department, EPA




The Water Authority At-a-Glance

- ~ 670,000 people served
- Over 200,000 customer accounts
- ~ 650 employees
- Serving ~ 30 billion gallons of drinking water
- Treating ~ 18.5 billion gallons of wastewater
- Groundwater and Surface Water sources




Site Overview and Background

 Decades long jet fuel leak discovered 25 years ago

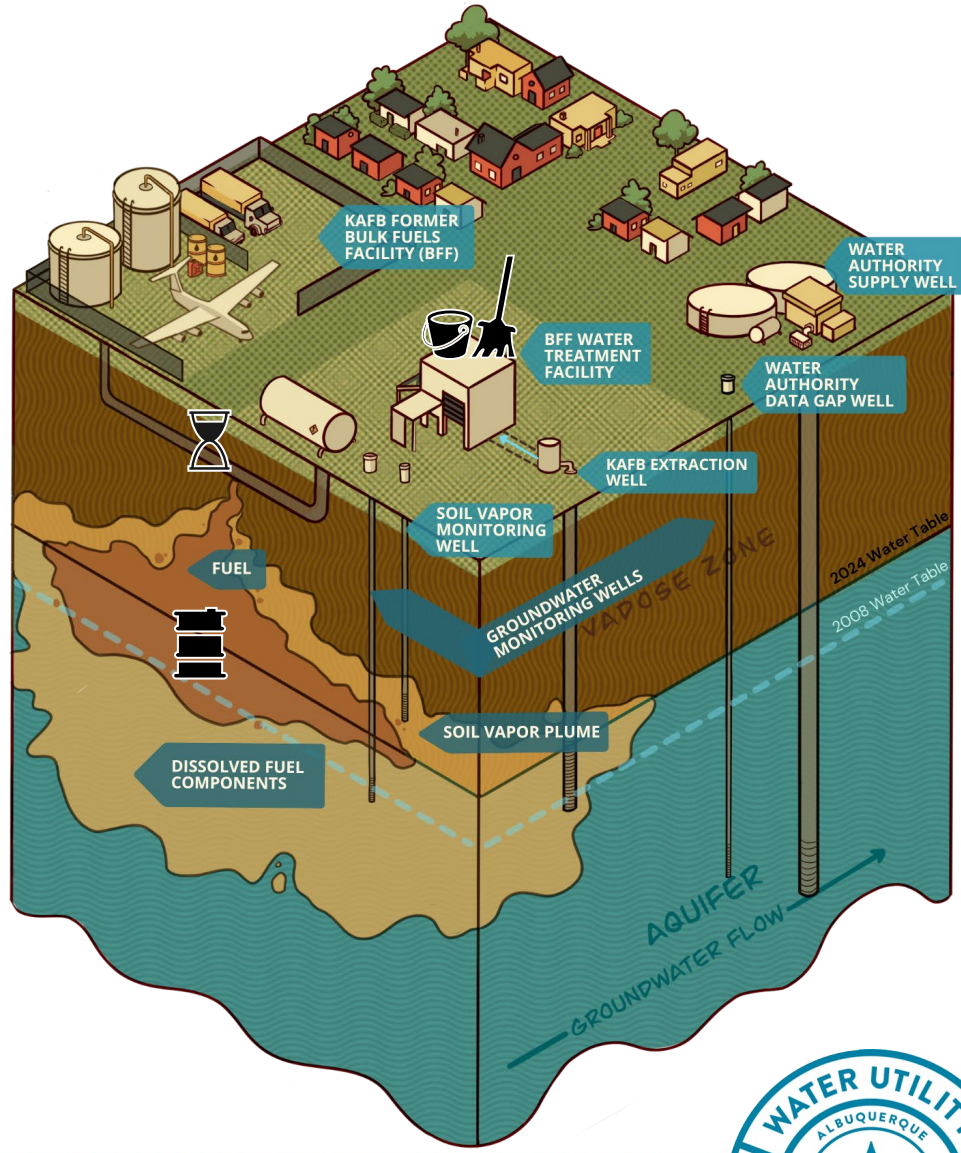
 Both soil (vadose zone) and aquifer are impacted
Fuel component, ethylene dibromide (EDB), spread to within a 1/2 mile of drinking water supply wells

 Cleanup follows RCRA Corrective Action process

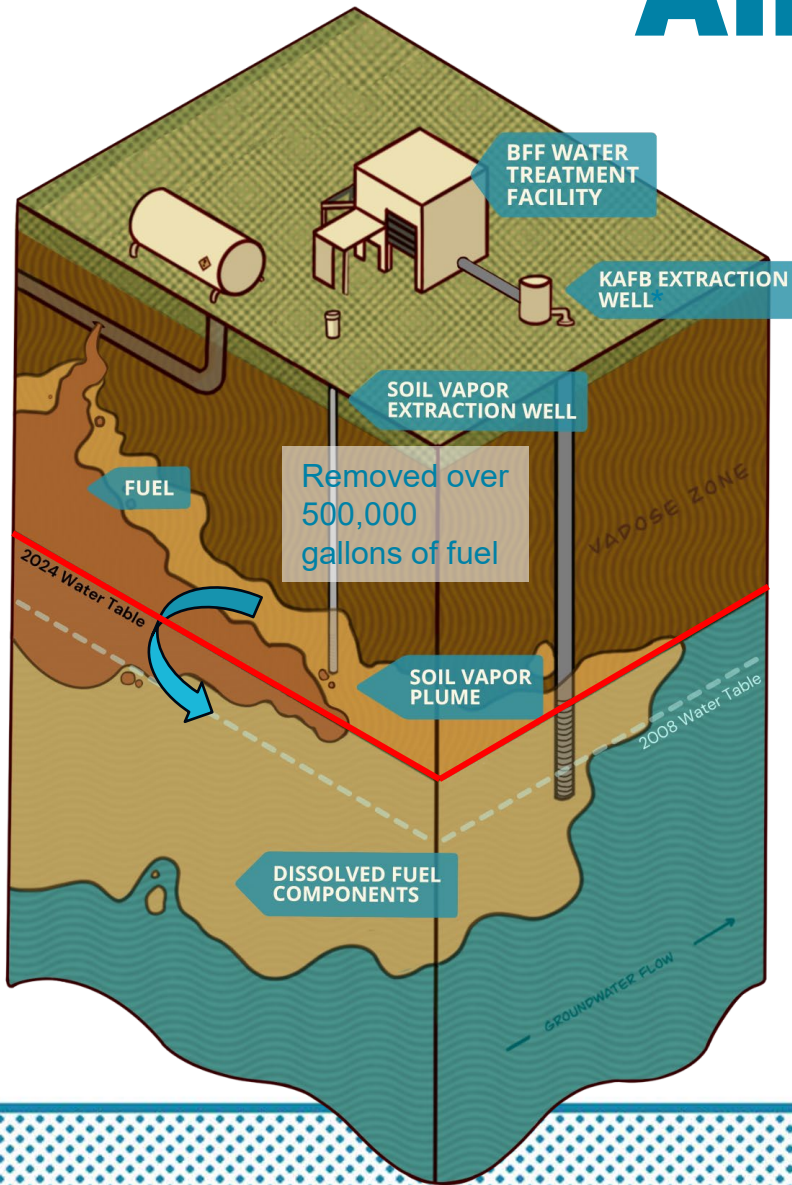
Breaks cleanup into:

-  1) Investigation
- 2) Cleanup Method Selection
- 3) Final Cleanup

 Interim Measures



Air Force Proactive Actions – Interim Measures



*Collaboration between Water Authority and Air Force

PAST: Soil Vapor Extraction with multiple SVE units (2006 – 2015)

CURRENT: Groundwater "Pump & Treat" with 4 extraction wells (est. 2015)

Source Water Impacts

- Currently no active fuel treatment, allowing groundwater contamination to persist
- Without active treatment of the remaining fuel in the ground, cleanup is estimated to take over 800 years



Water Authority Proactive Actions



Voluntarily sample all nearby supply wells for fuel components



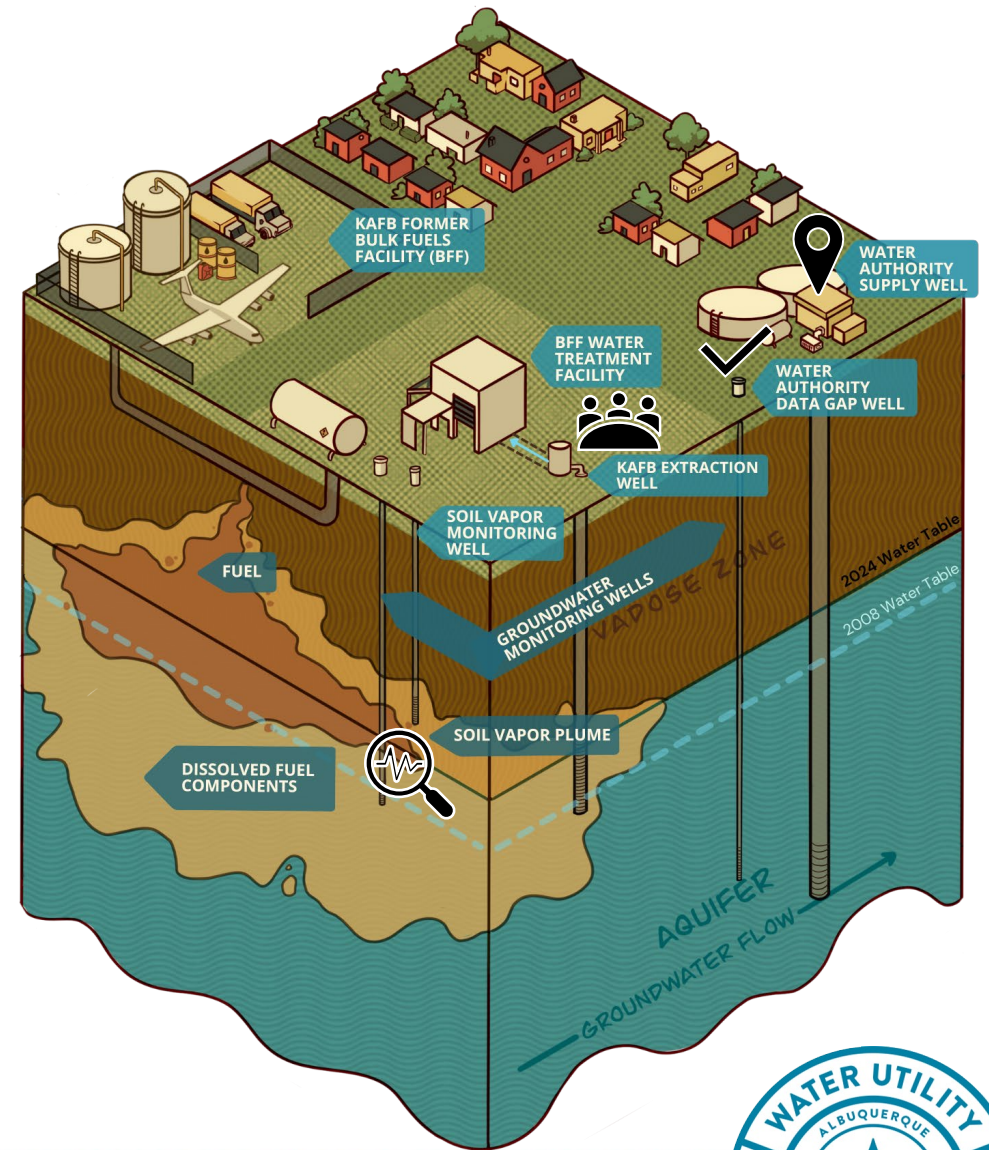
Consolidate and conduct technical analyses of site data



Installed and continue to sample the Data Gap Monitoring Well



Coordinate with local, state, and federal representatives to ensure effective site cleanup



Water Authority Update

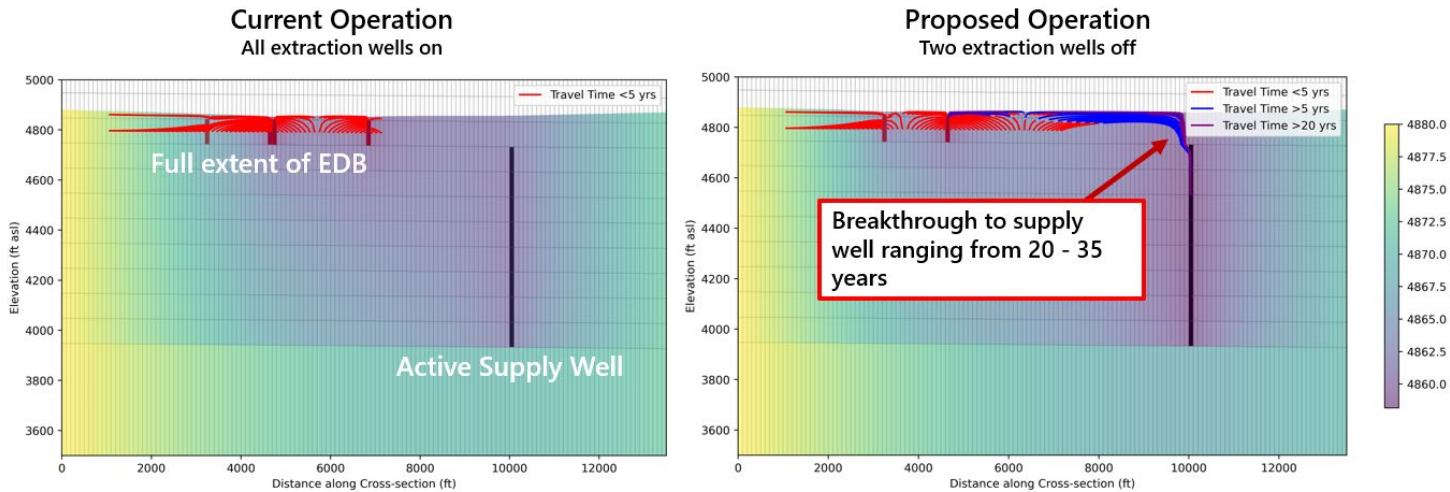
- Water Authority has concerns regarding the nature and extent of contamination presented in the RCRA Facility Phase II Investigation Report
 - NMED shares concerns and intends to issue a Request for Information to the Air Force to resolve Phase II RFI gaps
- Water Protection Advisory Board recently advised the Water Authority to establish contingency measures to protect drinking water supply
 - Water Authority is seeking to extend a Contingency Plan Agreement from 2014 with the Air Force
 - Coordinating with NM Federal Delegation



Contingency Plan

Groundwater Interim Measure is the only barrier to contamination reaching supply wells

- ❖ Variability creates risk of breakthrough
- ❖ Insufficient characterization of contamination
- ❖ Changes to interim measure operation
- ❖ Persistent fuel in the ground



Contingency plan assures replacement if supply well is ever impacted



Questions?

