

New Mexico Environment Department

Kirtland Air Force Base Jet Fuel Spill Clean-Up Update Radioactive and Hazardous Waste Materials Committee Stephanie Stringer, Resource Protection Division Director November 4, 2019



NMED Guiding Principles

Our four guiding principles are the means by which we protect and restore the environment and foster a healthy and prosperous New Mexico for present and future generations.



 Science – Using the best available science and data to inform our decision-making in protecting public health and the environment.



2. <u>Innovation</u> – Employing creative engineering and technological solutions to address environmental problems.



3. <u>Collaboration</u> – Engaging communities and interested stakeholders in environmental decision-making.



4. <u>Compliance</u> – Ensuring meaningful compliance with state regulations and permits.



- NMED and the USAF are jointly working towards selecting a final remedy for the site in 2021.
 - Since 2003, under NMED oversight the USAF performed activities that are termed "interim measures" and focused on protecting communities.
 - Interim measures are not a longer term strategy to clean up groundwater to State standards.
 - Selecting and implementing the final remedy to clean up the entire site is NMED's number one priority.



- Continued Investigation of the source area to evaluate remedy options.
- Update the Conceptual Site Model.
- Conduct ongoing site monitoring and wellhead protection program.
- Continue to collaborate with the public and stakeholders





Groundwater

- Monitoring wells installed to fill data gaps caused by rising water table.
- Well installation work plan due from AF to NMED in early 2020.
- Soil Vapor
 - AF to monitor and evaluate risk of vapor intrusion.
 - Shallow soil vapor investigation work plan rejected, revisions due on November 8, 2019.





□ LNAPL

- AF conducted core drilling to evaluate for the presence of LNAPL.
- Coring report due from AF to NMED on November 1, 2019.
- Drinking Water
 - No detections of ethylene dibromide (EDB) in drinking water wells or sentinel wells.





- The Conceptual Site Model is a tool to predict the behavior of groundwater and the plume. A variety of factors, including geology and water table levels can affect this behavior.
- The AF updates the model based on new information to describe the subsurface and the known extent of contamination.
- The U.S. Environmental Protection Agency (EPA) updates their site groundwater model and source area groundwater model.



- Continue to extract EDB from the northern area of the plume by operating the groundwater pump-and-treat system.
- □ Continue in-situ groundwater EDB biodegradation pilot test.





Progress: North of Ridgecrest Dr.

- Target Capture Zone
 is groundwater
 north of Ridgecrest
 Dr. SE
 - EDB plume is mapped as groundwater concentrations greater than the Drinking Water Standard of 0.05 ug/L
 - Second quarter of 2015 was before startup of groundwater pumpand-treat system





- Public meetings (11/7/19)
- Stakeholder meetings (11/7/19)
- Technical working groups (TBD)





- NMED Public Involvement Plan coming soon
- Administrative record maintained online



- □ Ensure the AF is complying with their permit.
- Evaluating milestones for the final remedy.
- Tracking and monitoring progress, expediting wherever possible.
- Secure funding from the AF for NMED oversight.



12 Questions?

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