







Cesar Chavez Community Center 7505 Kathryn Avenue SE Albuquerque, New Mexico 87108

> April 17, 2012 6:00 – 8:00 p.m.



Agenda



- Introductory Remarks
 - Mr. Wayne Bitner
- Natural Resources Program
 - Mr. Dustin Akins
- EOD Range Closure
 - Mr. Cole Crosgrove
- Bulk Fuels Facility Update (Site SS-111)
 - Colonel Don Conley



Kirtland Air Force Base Natural Resources Program



Dustin Akins Conservation Specialist









Natural Resource Program

Established to...

- Protect and conserve Kirtland's wildlife
- Mitigate construction and demolition activities affecting wildlife
- Make sure mission requirements are not adversely affected by wildlife of special interest





Species of Interest

- Western Burrowing Owl
- Loggerhead Shrike
- Bats
- Rattlesnakes
- Gray Vireo







Projects in Process and Completed

- 1. Loggerhead Shrike
- 2. Burrowing Owl Productivity
- 3. Mountain Lion Monitoring
- 4. Desert Massasauga
- 5. Pinyon Jay Productivity
- 6. Bat Productivity
- 7. Gray Vireo
- 8. Wetland Restoration
- 9. Amphibian and Reptile (Rare)
- 10. Burrowing Owl Predator
- 11. Song Bird Monitoring Station







Animals Found on Base







Natural Resource Program

- Protect and conserve Kirtland's wildlife
- Mitigate construction and demolition activities affecting wildlife
- Make sure mission requirements are not adversely affected by wildlife of special interest

QUESTIONS?



EOD Range Closure



Cole Crosgrove

Project Manager



EOD Range Closure



- Open Burn (OB) and Open Detonation (OD) historical background and current status.
- Anticipated closure activities
- Questions



BACKGROUND

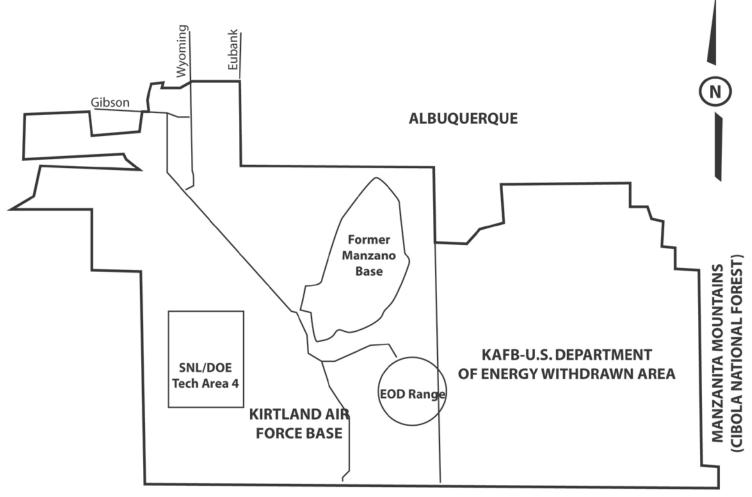


- Open Detonation/Open Burn units permitted as hazardous waste treatment units under RCRA
- OD/OB units treated excess or expired munitions and explosive materials.
- Open Detonation unit permitted on 20 December 1994 as permit # NM9570024423-OD.
 - Notified NMED of intent to close Open Detonation Unit on 13 August 2010 (not used since August 2010)
- Open Burn unit permitted on 26 July 1995 as permit #NM9570024423-OB
 - Previously submitted intent to close Open Burn Unit under agreement with the NMED 30 October 2009 (not utilized since May 2008).



EOD Range





Approximate Scale

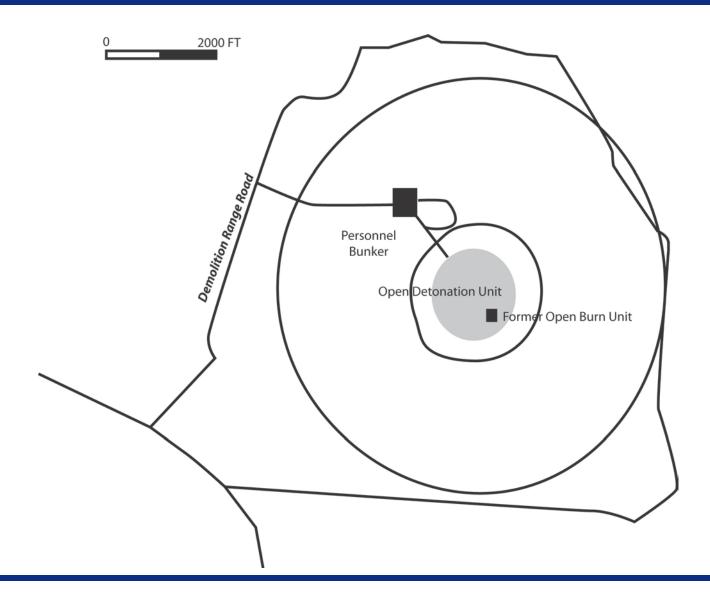
2 miles

ISLETA INDIAN RESERVATION



EOD Range







Current OB/OD Status



- Performance Based Contract (PBC) awarded to CH2MHILL October 2011
- Work Plan to Support Closure of the Open Burn (OB) and Open Detonation (OD) Units delivered to New Mexico Environmental Department Hazardous Waste Bureau 18 January 2012.



Proposed Work Plan



- Four wells (three downgradient and one upgradient) will be installed for groundwater monitoring for both the Open Burn unit and the Open Detonation units.
 - Wells will be sampled for eight quarters.
- Surface removal of Munitions and Explosives of Concerns (MEC) from the EOD range
- Digital Geophysical Mapping (DGM) of the OD unit (includes OB unit).
 - Results will help determine if excavation of certain areas of the OD unit are required
- Surface sampling of the entire OD unit (includes OB unit), to be screened against NMED residential Soil Screening Levels (SSL's)
- Sampling and demolition of the OB unit, sampling of soil beneath OB unit once demolition activities complete.



OB/OD Closure Status



Questions?



Bulk Fuels Facility Overview



Colonel Donald Conley

377 Mission Support Group



Acronyms

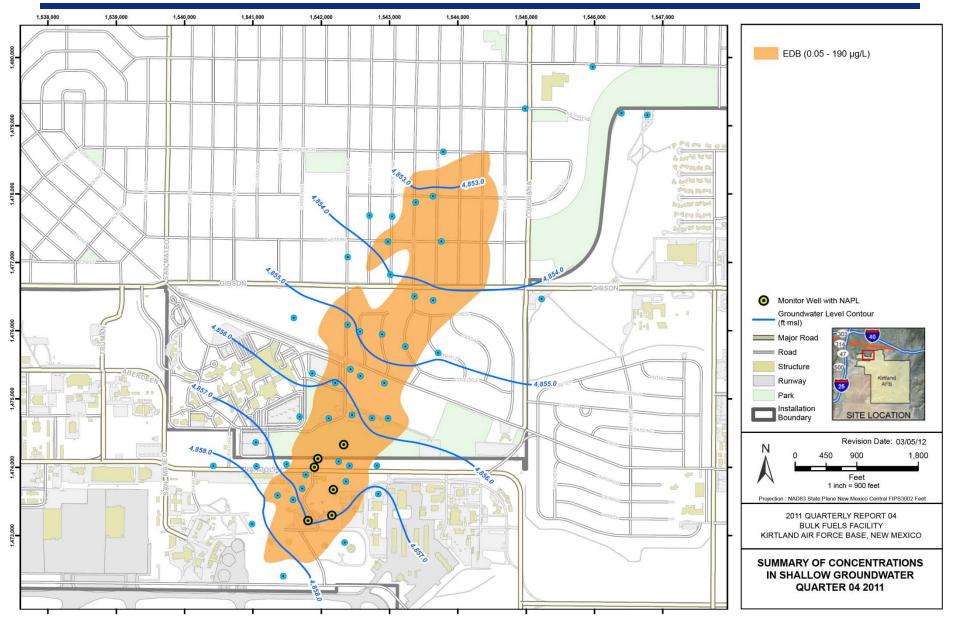


- BTEX Benzene, toluene, ethylbenzene, xylene
- EDB Ethylene dibromide
- FFOR Former Fuel Offloading Rack
- ICE Internal combustion engine
- DPT Direct Push Technology
- IM Interim Measure
- LNAPL Light Non-Aqueous Phase Liquid
- PBC Performance Based Contract
- ROI Radius of influence
- SWMU Solid Waste Management Unit
- SVE Soil vapor extraction

- Completed installation of 78 groundwater monitoring wells (shallow, intermediate, and deep)
 - Approved Groundwater Investigation Work Plan (March 2011)
- Results of Fourth Quarter 2011 groundwater monitoring provides most complete picture to date of COC plume extents
- Biodegradation apparent for BTEX compounds
- Data Gap exists in downgradient EDB plume characterization
- Received NMED letter on 13 April 2012 directing the installation of 11 groundwater clusters (shallow/intermediate/deep)

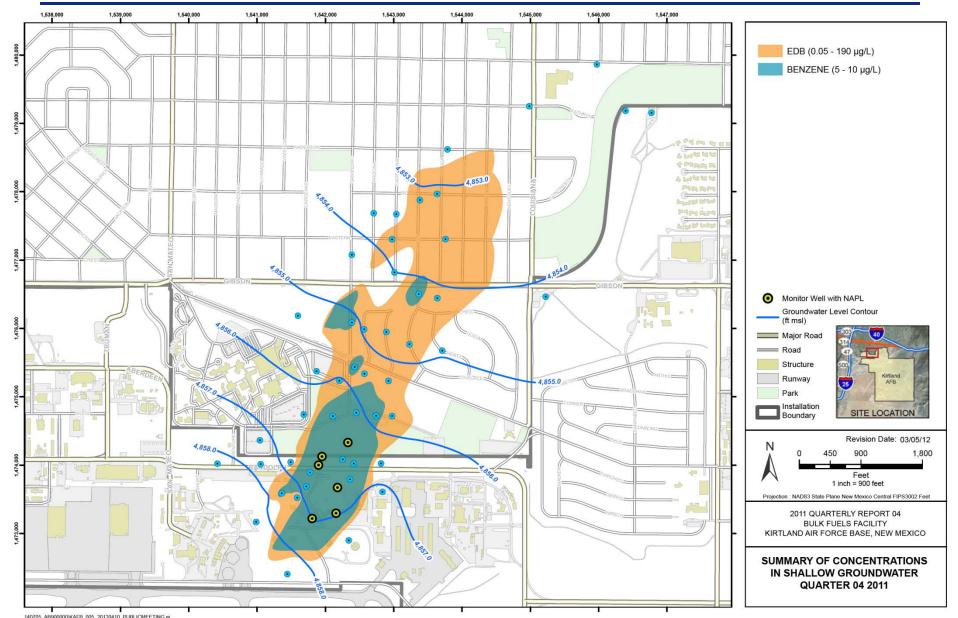






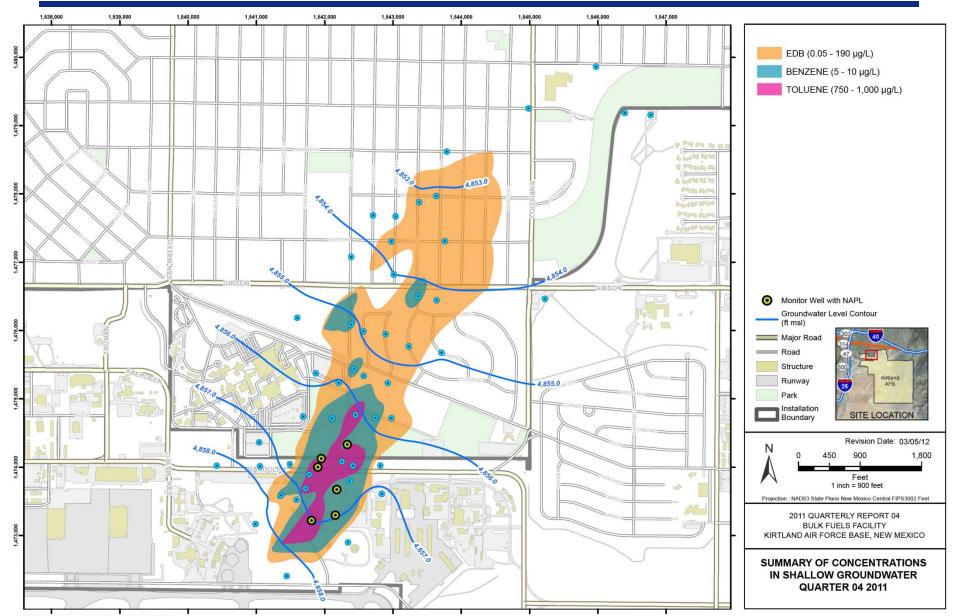






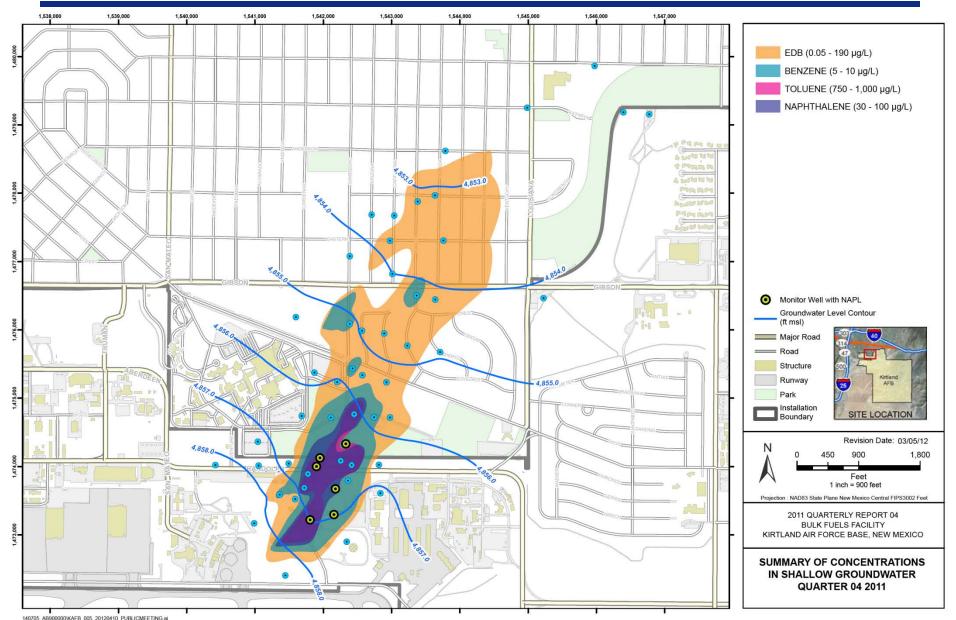






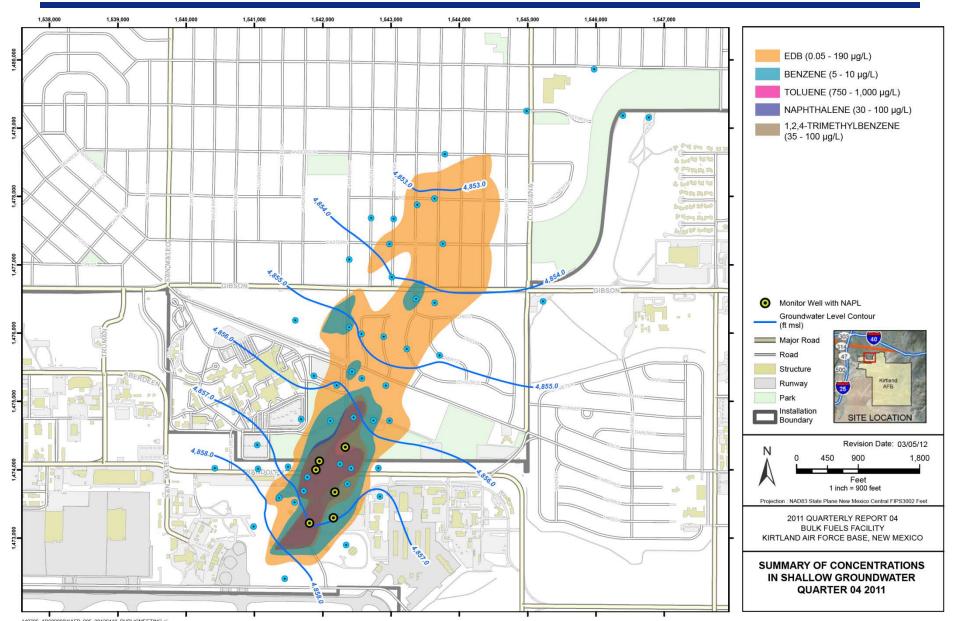






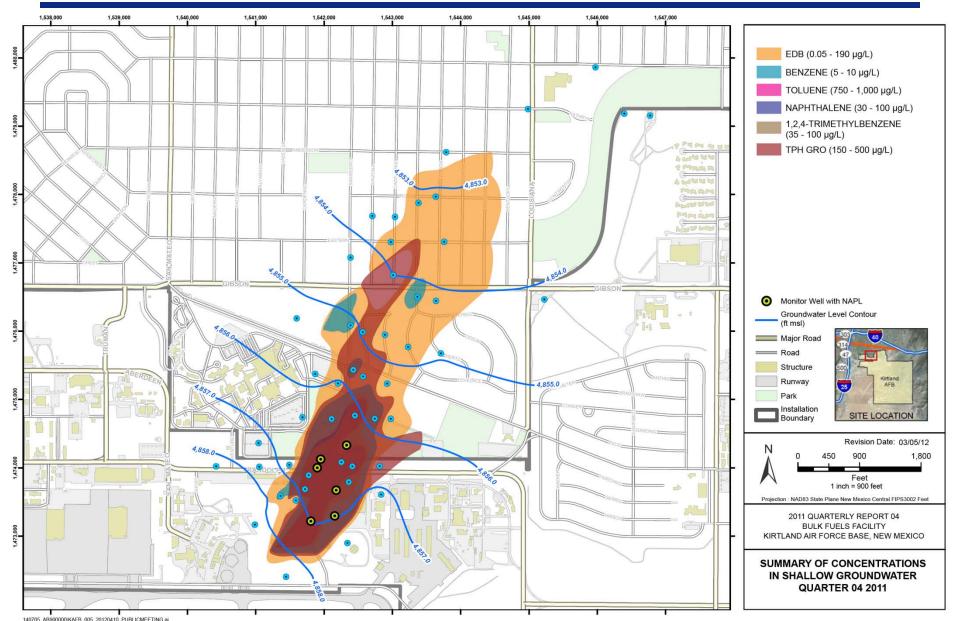






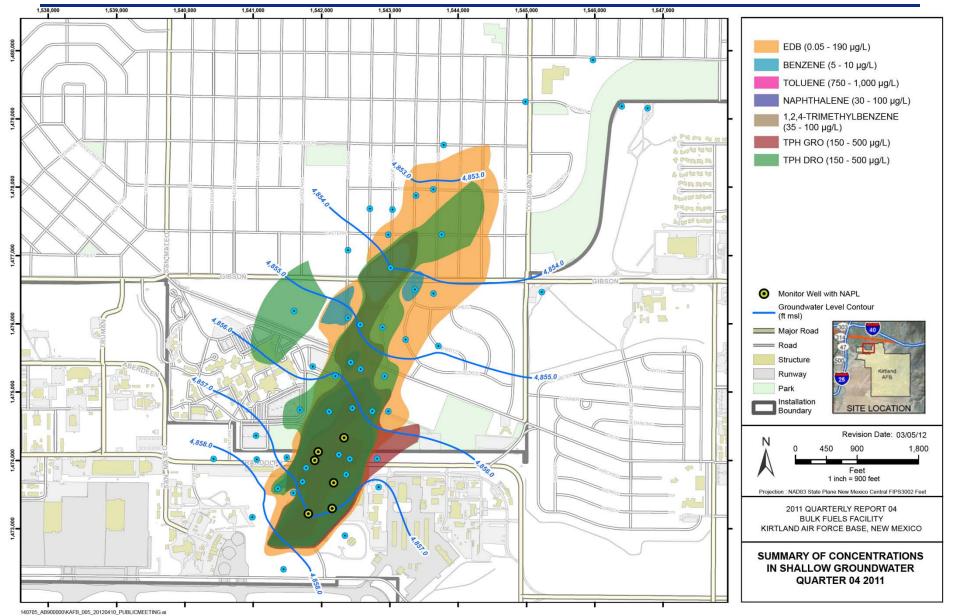








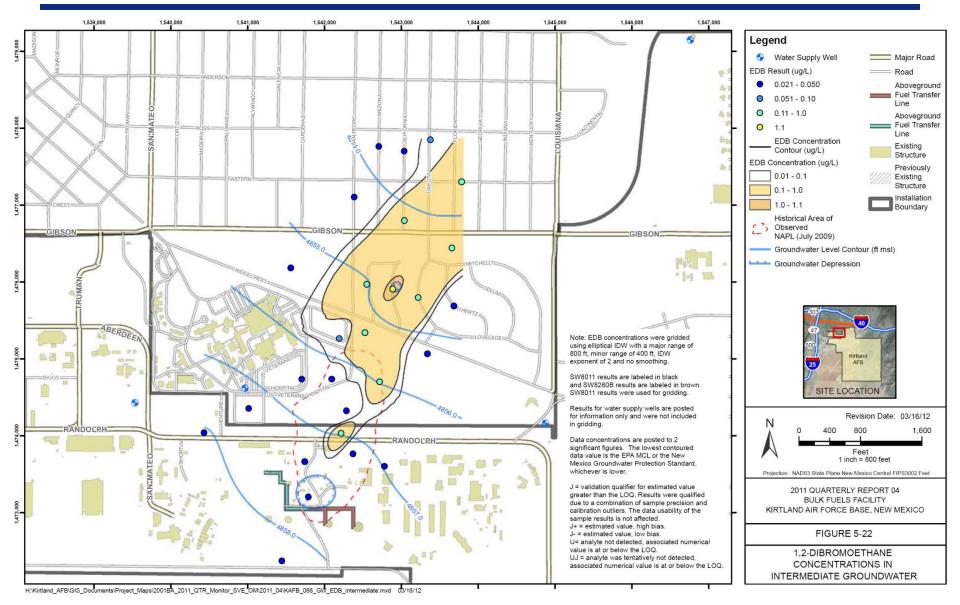






Intermediate Wells October-December 2011

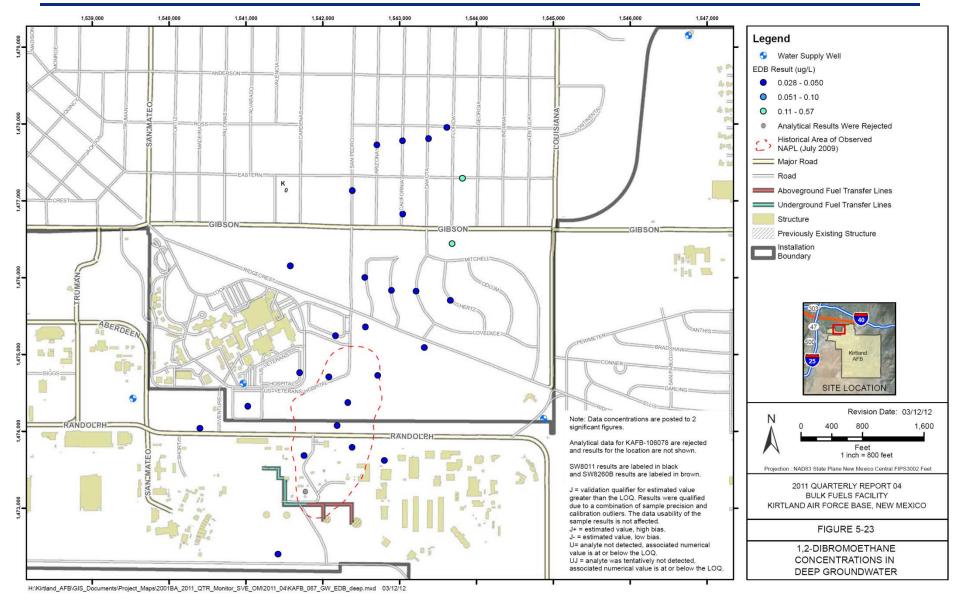






Deep Wells October-December 2011



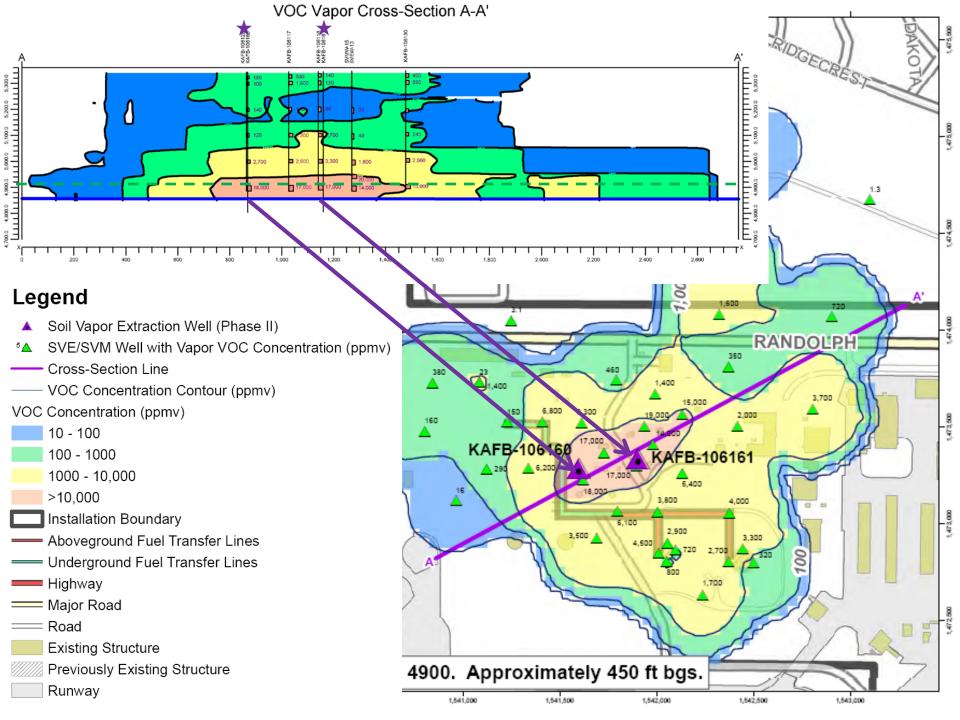




Phase II Interim Measure



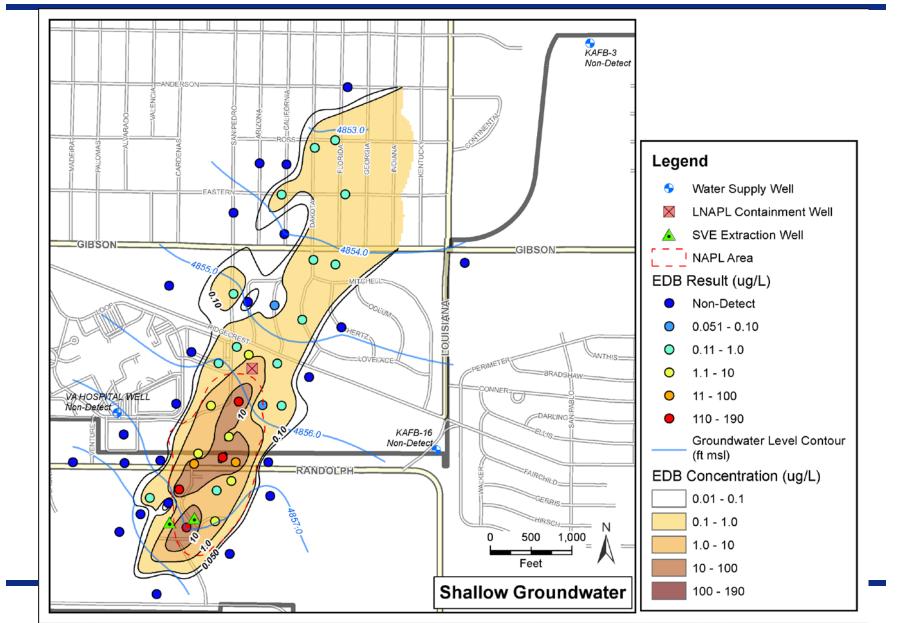
- Installed two SVE wells to address vadose zone source area
- Working with NMED to obtain approval of partial system design to expedite ordering of long lead time components
- Successfully used a fast-track approach using letter work plan addendums to previously approved work plans
- Will continue collecting and evaluating data to determine need/location of additional SVE systems
- Iterative approach





Phase II Interim Measure







Overview of Progress December 2011 – April 2012



- Held 3 Tiger Team work groups
- Submitted letter addendum for additional monitoring wells (Groundwater Investigation RFI)
- Drilled and installed the LNAPL containment well (LNAPL Containment Interim Measure)
- Completed Radius of Influence testing (Phase I Interim Measures)
- Completed characterization sample and first round of step out sampling along former pipeline (*Phase I Interim Measures*)
- Drilled and installed 2 SVE wells (Phase II Interim Measure)
- Submitted work plan and received approval to conduct Indoor Air sampling



Path Forward



CHARACTERIZATION

EVALUATION

RCRA Facility Investigation

- ✓ Installation of 78 Groundwater Wells
- ✓ Installation of 35 Soil Vapor Wells
- **✓ DPT Soil Samples at FFOR**
- Installation of 9 Pneulog Wells
- Additional Groundwater Wells for EDB

Corrective Measures Evaluations

- ✓ Baildown Testing
- **✓** ROI Testing
- Quarterly Monitoring
- Pneulog Well Testing
- Slug Testing
- Use Phase II IM to Conduct Extended ROI Testing
- Continue to Evaluate Early Treatment

Interim Measures

- ICE Unit Operation Pre-Remedy O&M
- LNAPL Containment
- · Soil Removal at FFOR Phase I Interim Measures
- SVE Treatment System Phase II Interim Measures
- Move ICE Units to New SVE Wells
- Continue Design of Centralized SVE Treatment System

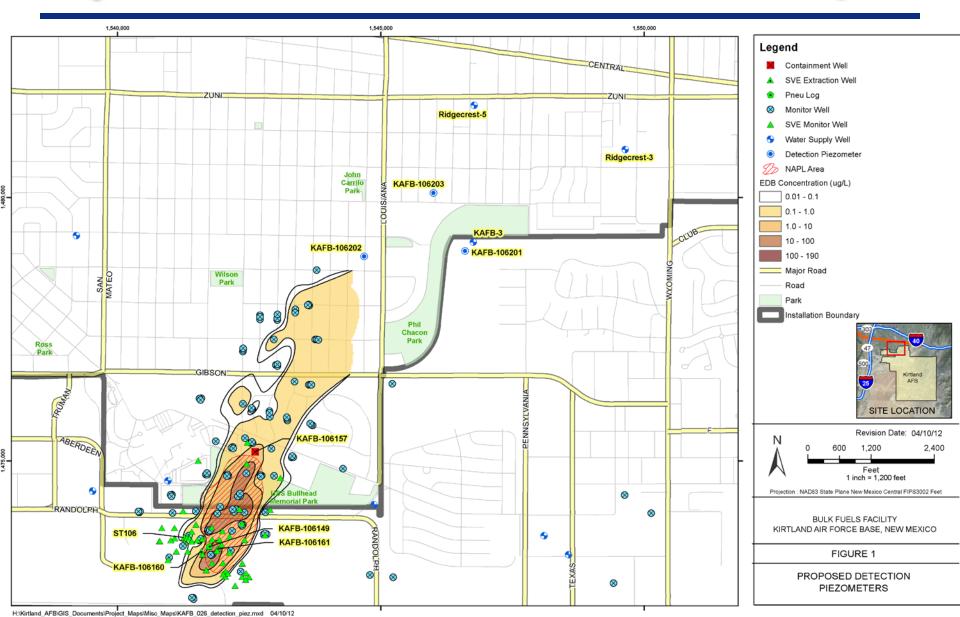
EARLY/INITIAL TREATMENT





Path Forward







Path Forward



	Estimated/Actual Start Date	Notes on Schedule
Installation of Additional Monitoring Wells	18 June 2012	
Resume SVE ICE Unit Operations at Optimized Locations	23 April 2012	
SVE Unit Installation	Early Fall 2012	Design is in progress; pending approval partial and final design plans and part availbility
Soil Excavation at FFOR	Summer 2012	Pending completion of sampling





Questions?



POINTS OF CONTACT



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Citizens may review Air Force Environmental Restoration Program (ERP) documents at the Kirtland AFB Information Repository (IR) located at the Central New Mexico (CNM) Community College-Montoya Campus Library, 4700 Morris NE, (505) 224-5721

or

by visiting the Kirtland AFB website at http://www.kirtland.af.mil in the Environmental Issues section for Public Records.