



**Technical
Customer Advisory Committee**

AGENDA

Members

Elias Archuleta
Mark Begay
Deborah Dixon
John Fleck
Paul van Gulick

Kerry J. Howe
Donald T. Lopez
Anjali Mulchandani
Jill Peterson

Attendance: Public participation for this meeting will be via WebEx video conference. To request login information for this meeting contact Jordan Salas at jsalas@abcwua.org or 505-289-3100. Requests for login information must be received before 2:00 PM on Thursday, September 5, 2024. Public comment must be submitted via email to Jordan Salas at jsalas@abcwua.org before 2:00 PM on Thursday, September 5, 2024.

Thursday, September 5, 2024

4:00 PM

**1441 Mission Ave NE
Conference Room 204**

1. Call to Order
2. Approval of Agenda
3. Approval of the Open Meetings Resolution
4. Approval of August 1, 2024, Action Summary
5. Public Comment
6. Water Report
7. Kirtland Air Force Base Update
8. Other Business
 - A. Acknowledge Service on the TCAC, Deborah Dixon and Paul van Gulick
9. Adjournment

NOTICE TO PERSONS WITH DISABILITIES: If you have a disability and require special assistance to participate in this meeting, please contact the Water Utility Authority Office, Suite 5012, Albuquerque/Bernalillo County Government Center, phone 289-3100, as soon as possible prior to the meeting date.

ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY TECHNICAL CUSTOMER ADVISORY COMMITTEE

RESOLUTION

DETERMINING REASONABLE NOTICE OF PUBLIC MEETINGS OF THE TECHNICAL CUSTOMER ADVISORY COMMITTEE

WHEREAS, the Albuquerque Bernalillo County Water Utility Authority's Technical Customer Advisory Committee (Committee) meets in regular session at Conference Room 204, 1441 Mission Ave NE, and other locations; and

WHEREAS, Section 10-15-1(B) of the Open Meetings Act (NMSA 1978, Sections 10-15-1 to Section 10-15-4) states that, except as otherwise provided in the constitution of New Mexico or the Open Meetings Act, all meetings of a quorum of members of any board, committee, administrative adjudicatory body or other policy making body of any state or local agency held for the purpose of formulating public policy, discussing public business or for the purpose of taking any action within the authority of or the delegated authority of such body, are declared to be public meetings open to the public at all times; and

WHEREAS, any meetings subject to the Open Meetings Act at which the discussion or adoption of any proposed ordinance, resolution, rule, regulation or formal action occurs shall be held only after reasonable notice to the public; and

WHEREAS, Section 10-15-1(D) of the Open Meetings Act requires the Committee to determine at least annually what constitutes reasonable notice of its public meetings.

BE IT RESOLVED BY THE COMMITTEE:

Section 1. Meetings of the Committee will normally be held in Conference Room 204 of 1441 Mission Ave NE, Albuquerque, New Mexico, and other locations as needed.

Section 2. Regular meetings will normally be held on the first Thursday of each month. The agenda will normally be available seventy-two (72) hours prior to the meeting on the Water Authority website and at the offices of the Water Authority.

Section 3. Special meetings may be called by the Chair of the Committee upon seventy-two (72) hours notice. Special Meetings shall be subject to the same notice and agenda availability requirements as noted for regular meetings in Section 2.

Section 4. Emergency meetings will be called only under circumstances when an unexpected occurrence or condition, or the state resulting there from, requires immediate consideration or action to protect the health, safety and property of citizens or to protect the public body from substantial financial loss. The Committee will avoid emergency meetings whenever possible. Emergency meetings may be called by the Chair of the Committee upon twenty-four (24) hours notice. The notice for all emergency meetings shall include an agenda for the meeting or information on how the public may obtain a copy of the agenda.

Section 5. For the purpose of regular and special meetings described in Sections 2 and 3 of this resolution, notice requirements are met if notice of the date, time and place are posted at least seventy-two (72) hours prior to the meeting on the Water Authority website and on the lobby bulletin board of the Albuquerque/Bernalillo County Government Center. The Secretary of the Committee shall also provide copies of the above information to those broadcast stations licensed by the Federal Communications Committee and newspapers of general circulation in Albuquerque, which entities have made a written request for notice of public meetings.

Section 6. For the purpose of emergency meetings described in Section 4 of this resolution, notice requirements shall be met by posting notice of the date, time, place and agenda on the Water Authority website and in the lobby of the Albuquerque/Bernalillo County Government Center. The Secretary of the Committee shall also provide copies of the above information to those broadcast stations licensed by the Federal Communications Committee and newspapers of general circulation in Albuquerque, which entities have made a written request for notice of public meetings.

Section 7. In addition to the information specified above, all notices shall include the following language, except the last sentence applies only to full Committee meetings:

“NOTICE TO PERSONS WITH DISABILITIES: If you have a disability and require special assistance to participate in this meeting, please contact the Water Utility Authority Office, Suite 5012, Albuquerque/Bernalillo County Government Center, phone 289-3100, as soon as possible prior to the meeting date.”

Section 8. Cancellations and different meeting times and places may be announced at prior meetings of the full Committee. Cancellations so announced shall also have notice given by the same methods and time frames as provided for regular meetings in Section 2. Weather, lack of quorum and other related issues may cause the cancellation of a meeting.

Section 9. Action summary minutes shall be made of all open meetings with the following minimal information:

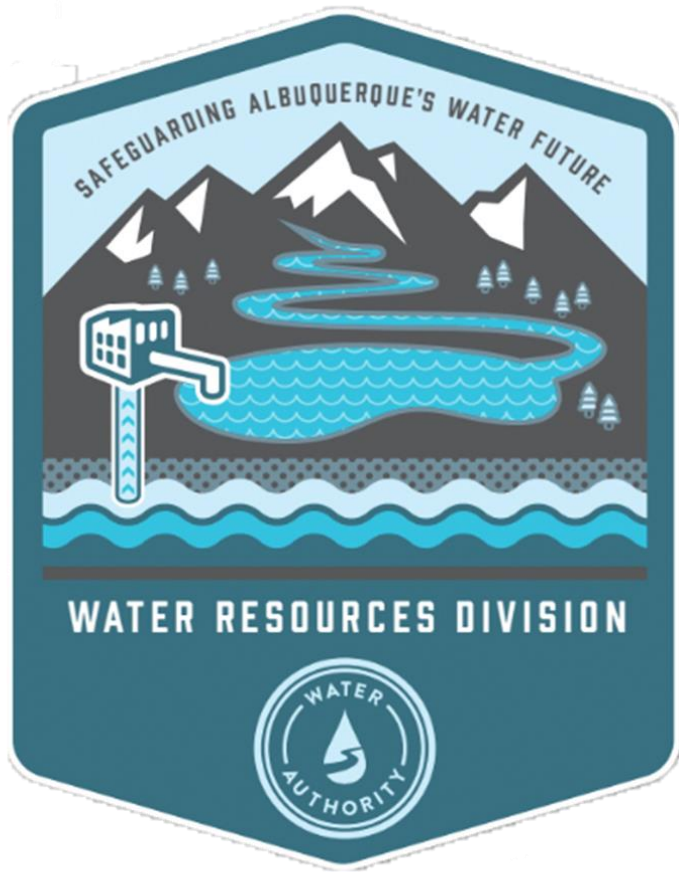
A. Date, time, and place of meeting

B. Names of staff in attendance and a list of members present

C. A general statement of each discussion topic and of how each member voted on any motion before the Committee. A draft copy of the minutes shall be available within ten (10) working days following each meeting. Minutes do not become official until approved by the Committee at a subsequent meeting.

Section 10. Closed meetings shall not be held except as provided in Open Meetings Act.

Section 11. All or any part of this resolution may be amended or modified by the Committee from time to time. At a minimum, the Committee shall review the resolution annually as required by the Open Meetings Act.



Water Resources Division

Water Report

Mark Kelly
Water Resources Manager

SUPPLY METRICS SNAPSHOT

August 2024
(July Demand Data)

100%

Drought
Conditions



D0



D1



D2



D3

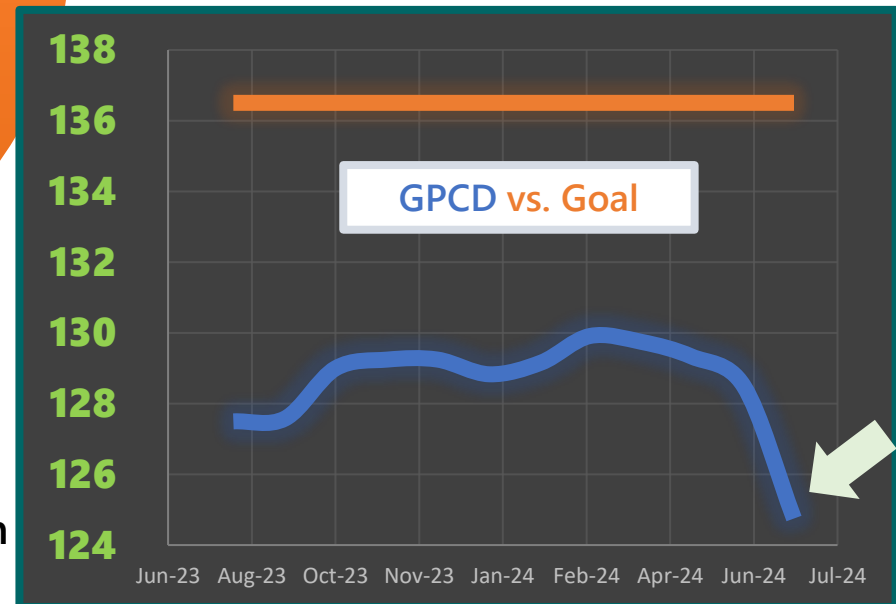
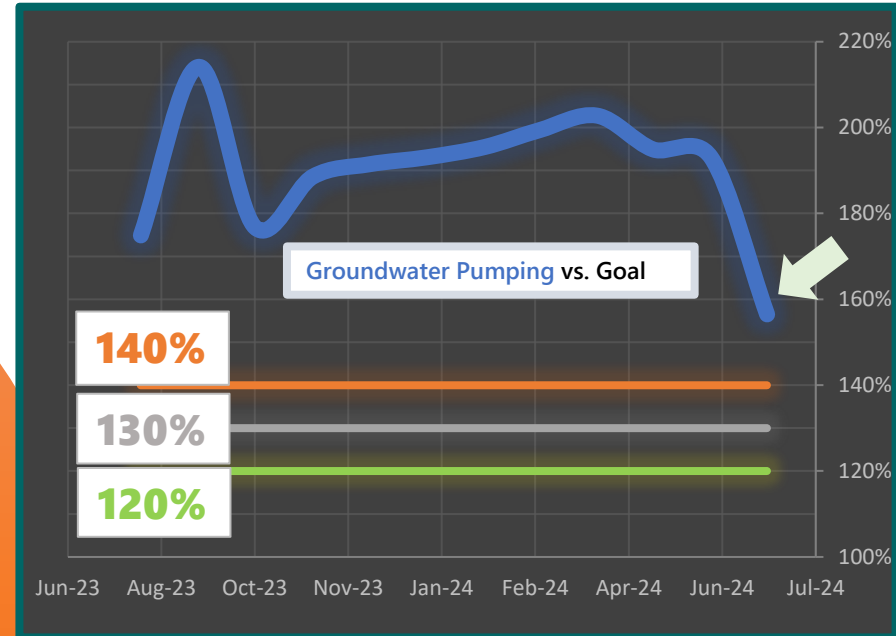


D4



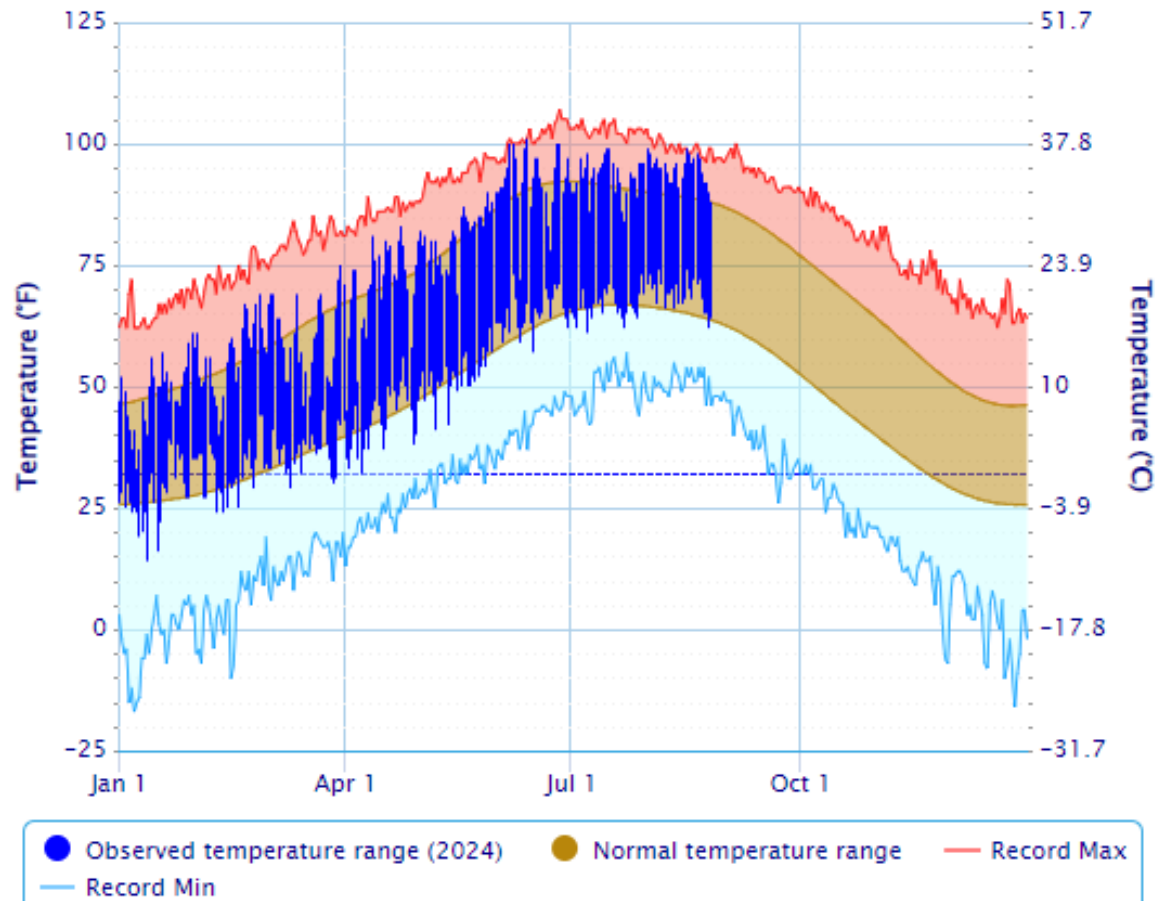
Groundwater Production

Surface Water Production



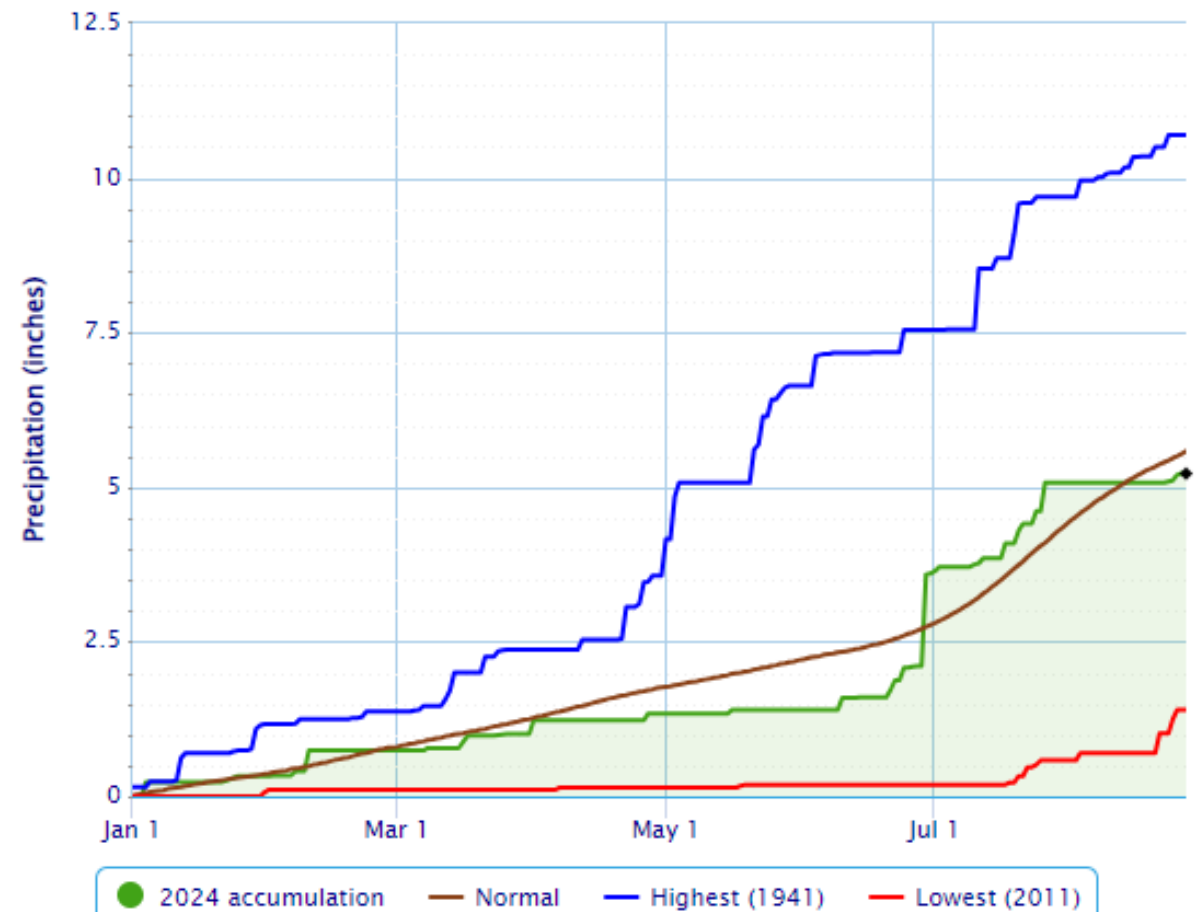
Temperature and Precipitation

Daily Temperature Data – Albuquerque Area, NM (ThreadEx)



Powered by ACIS

Accumulated Precipitation – Albuquerque Area, NM (ThreadEx)

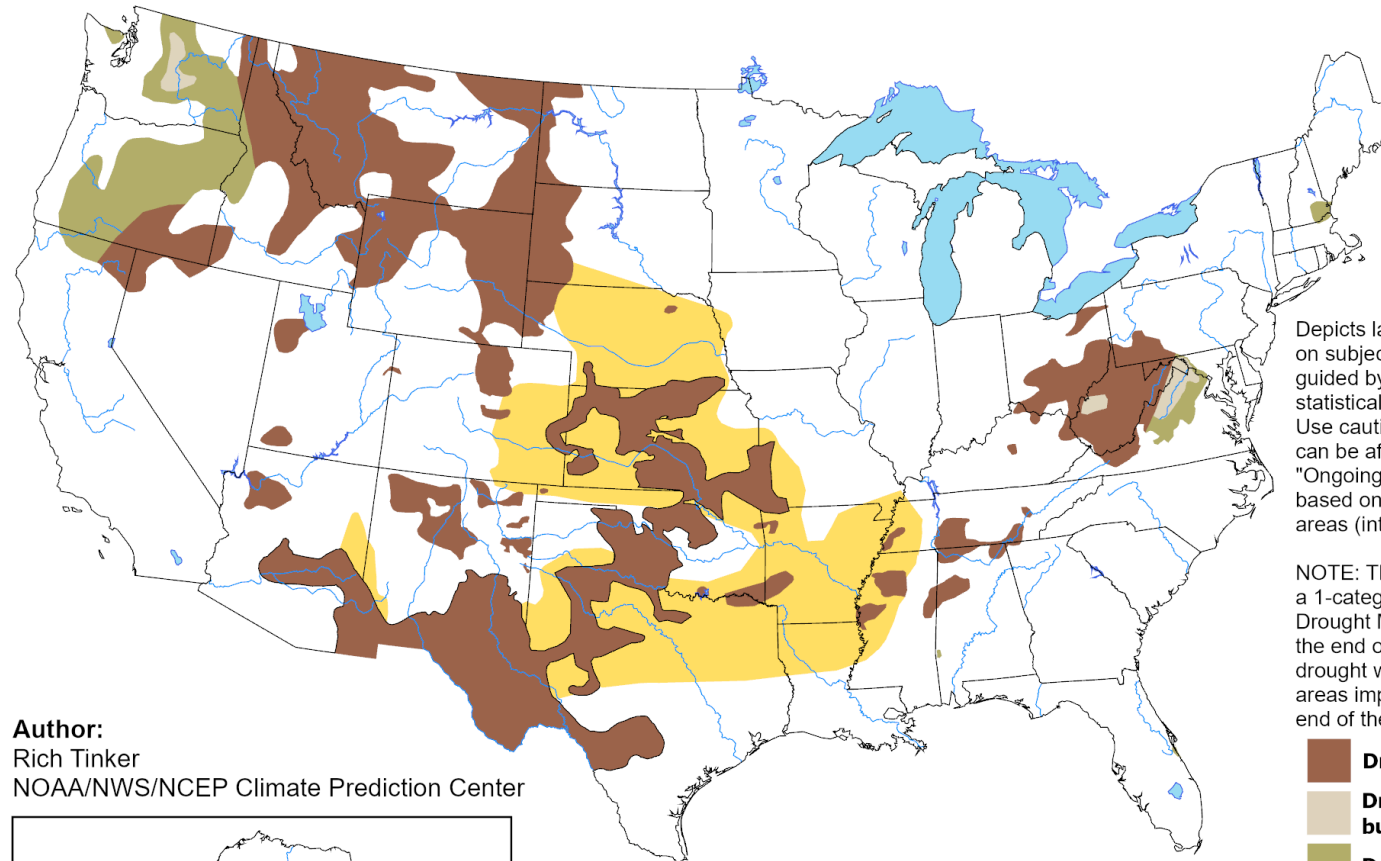


Powered by ACIS

Drought Outlook

U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

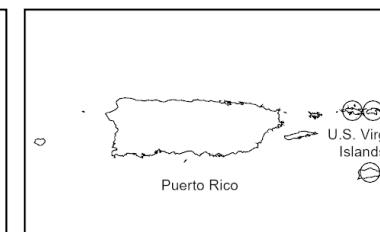
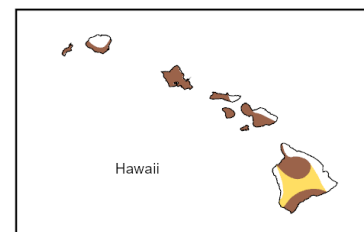
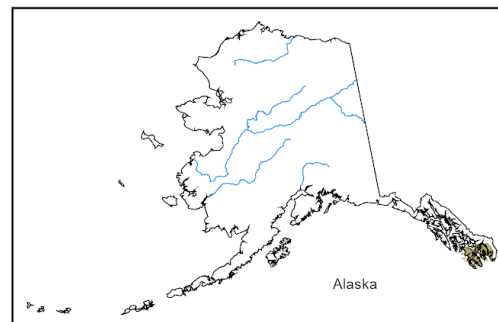
Valid for August 15 - November 30, 2024
Released August 15, 2024



Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
Rich Tinker
NOAA/NWS/NCEP Climate Prediction Center

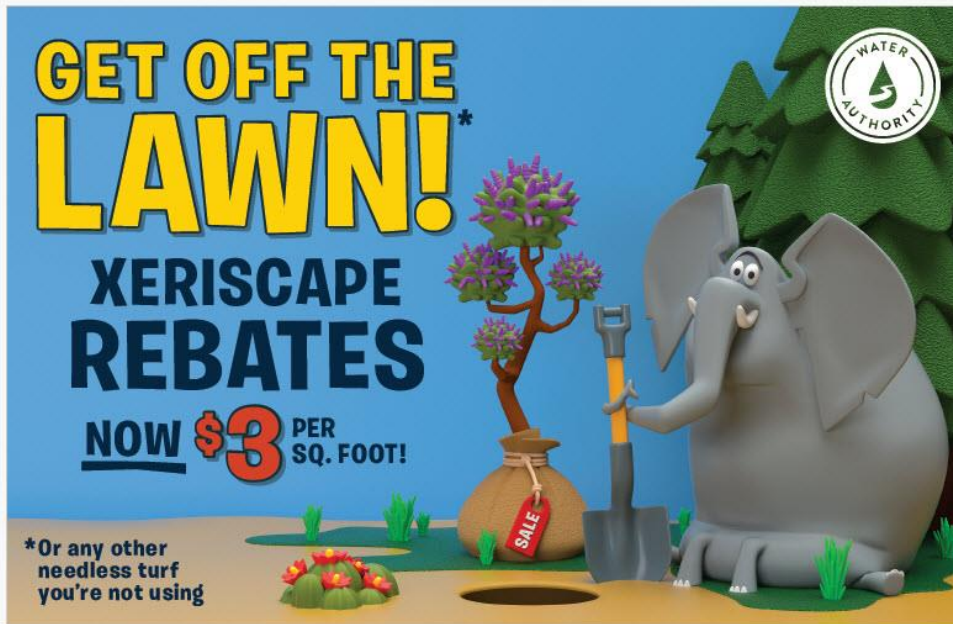


- Drought persists
- Drought remains, but improves
- Drought removal likely
- Drought development likely
- No drought



<https://go.usa.gov/3eZ73>

Public Communication



Dear Water Authority Customer:

A recent study of turf use in Albuquerque indicates your yard may have a LOT of grass. Nothing wrong with that—but chances are you've got some turf that's serving no useful purpose (other than looking pretty). Why not replace it with desert-friendly xeriscaping? The Water Authority is now offering rebates of \$3 for EVERY square foot of turf converted! Program participants save the community's water while saving themselves some money—and a lot of mowing! Conditions apply, so call or go online for more information today!

**CALL:
842-WATR**

and select
Option 4 for
details,
or scan this QR code
to be taken to our
landscaping website,
5050outside.com



Albuquerque Bernalillo County
Water Utility Authority
PO Box 568
Albuquerque, NM 87103

Presorted Standard
US POSTAGE
PAID
PERMIT#1029
Albuquerque, NM



AMI (Advanced Metering Infrastructure)

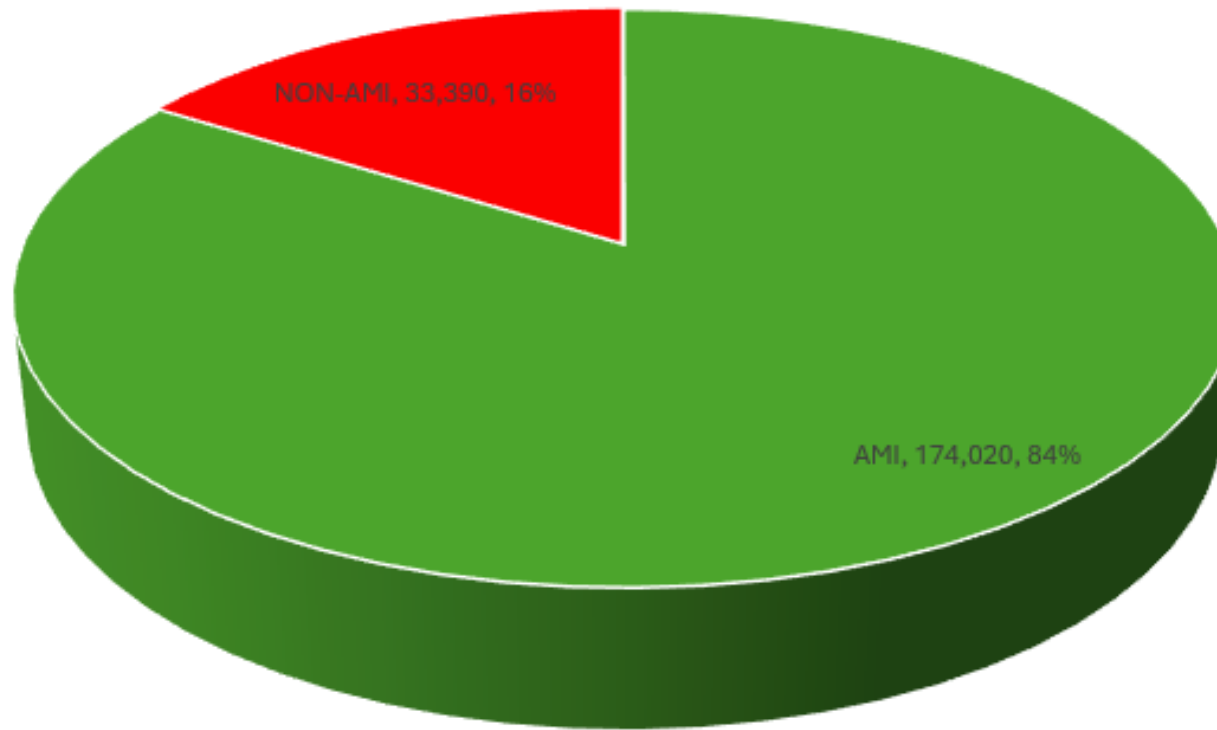
AMI – Advanced Metering Infrastructure, refers to the equipment used to collect, store and forward information from the meter.



WUA Accounts

(AMI Completion Goal of 2025-2026)

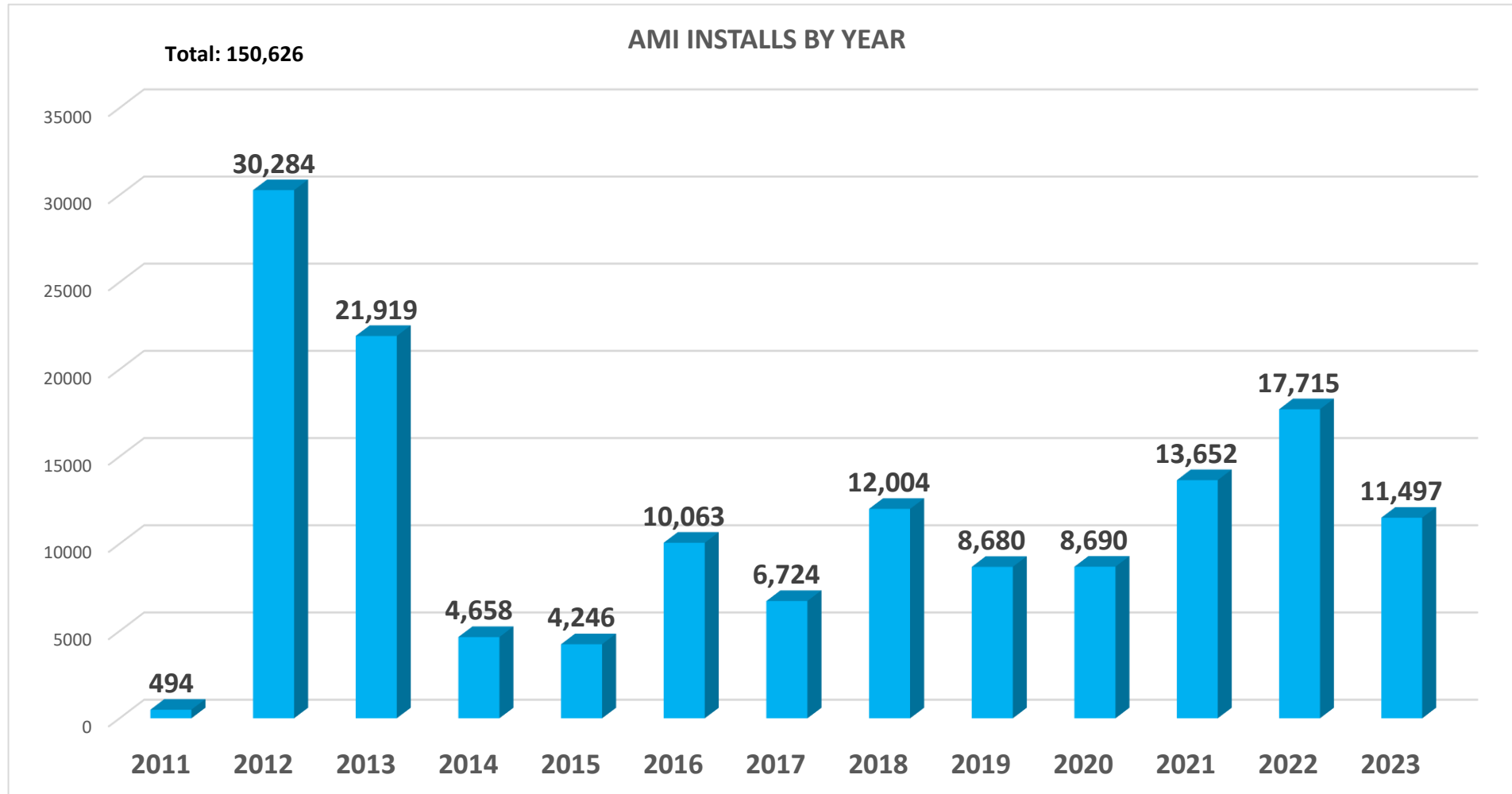
WUA Accounts AMI & NON-AMI



■ AMI ■ NON-AMI



WUA AMI Installs by Year



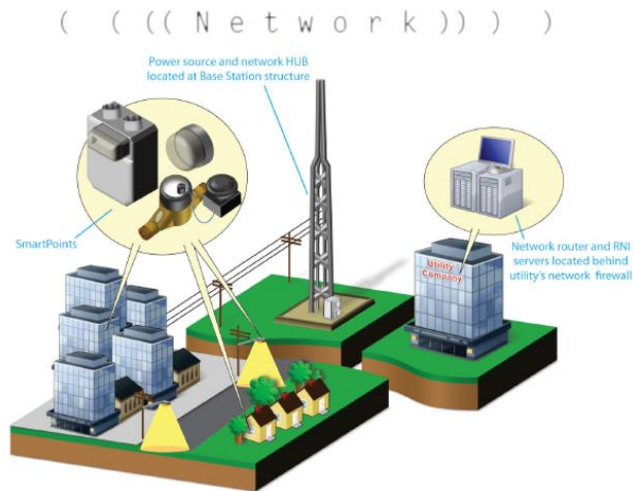
WUA AMI Invested

Single Port AMI Radios: \$10.4 million

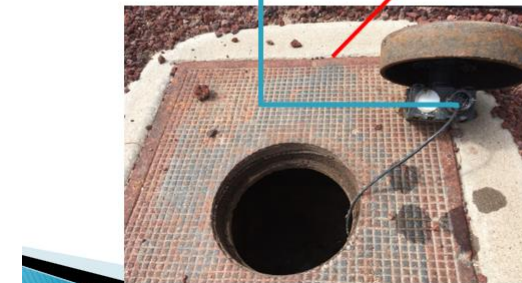
Dual Port AMI Radios: \$2.8 million

Towers and equipment: \$1.2 million

Total Investment: \$14.4 million

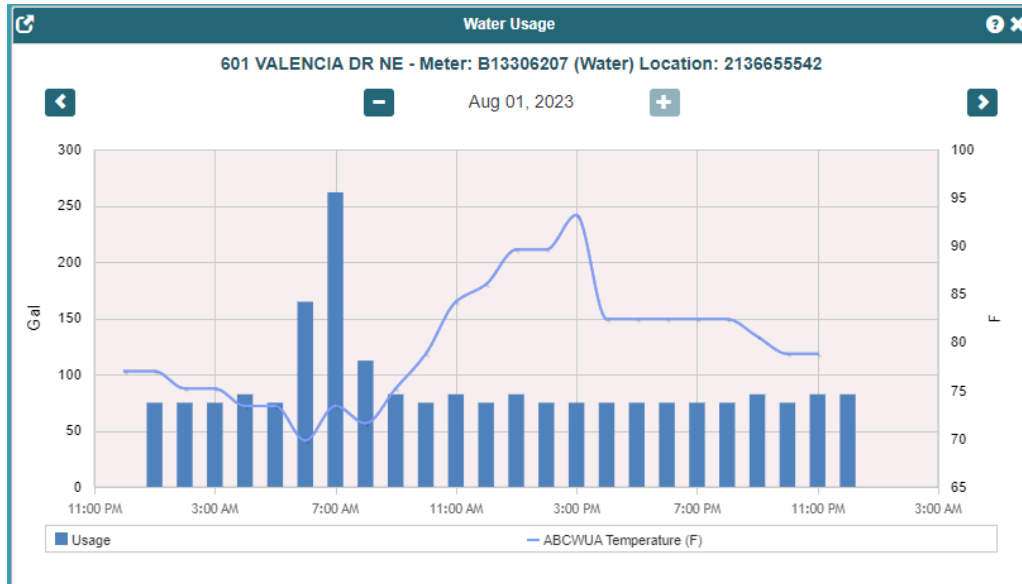


• Equipment



Account 48 hr. snapshot of issue resolved.

Viewing AMI Usage
Aug 1st, 2023



Viewing AMI Usage
Aug 2nd, 2023

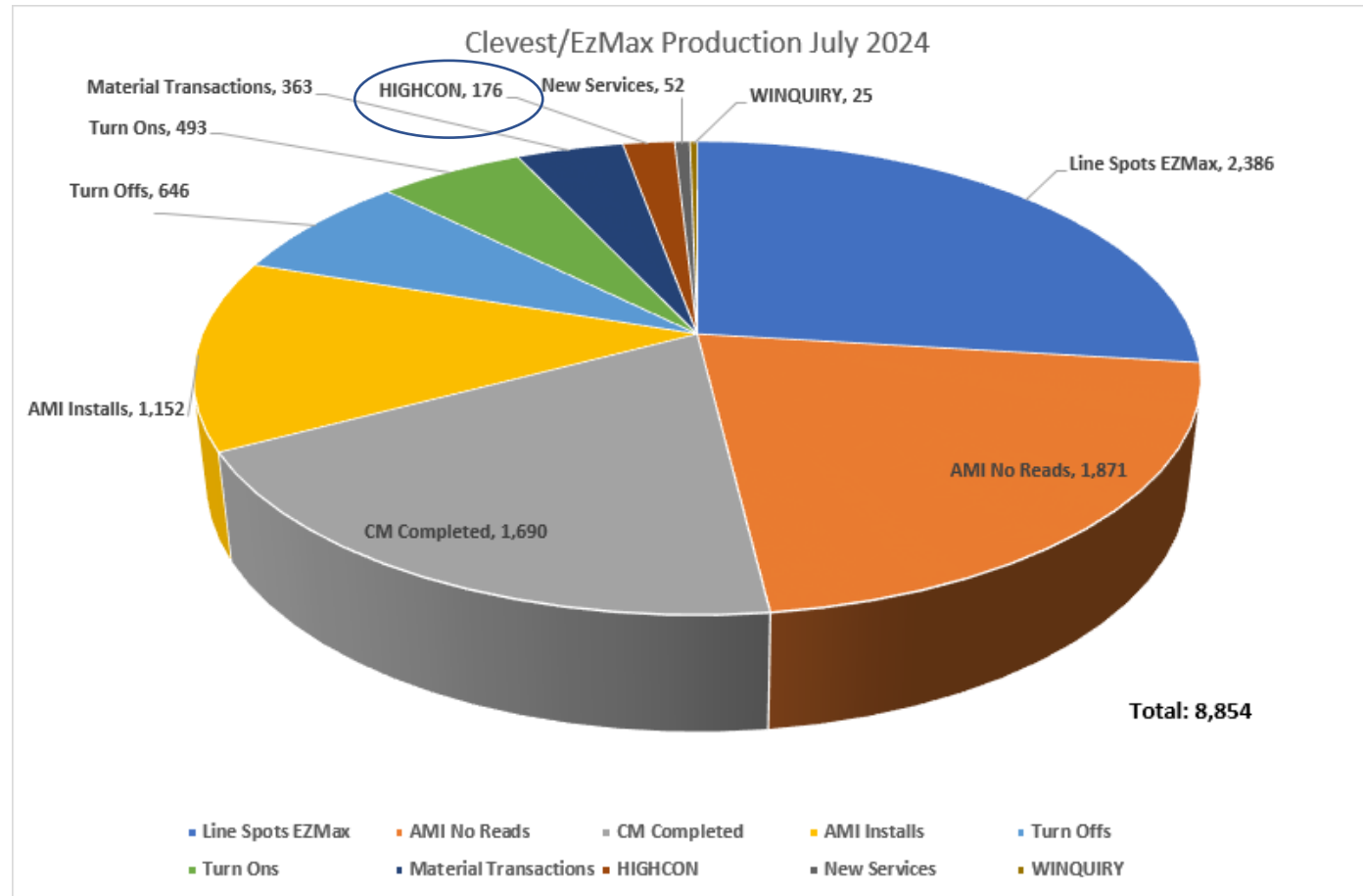


Current Uses

- Constant Usage Reports 1 cf/hr for 24 hrs
 - Residential
 - Commercial
 - Agency Partners
 - CABQ
 - Airport
 - Park and Rec
 - APS
- Vacant houses report
- Irrigation only meters running during re report
- Emails: If user is an agency partner or signed up through the portal



Current Uses



Future of AMI

- How to reach customers not in portal?
 - Outreach campaign
 - Other ideas?
- What does TCAC recommend?





Questions?



Bulk Fuels Facility Jet Fuel Leak Update

Kelsey Bicknell

Environmental Manager

TCAC – September 5, 2024

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

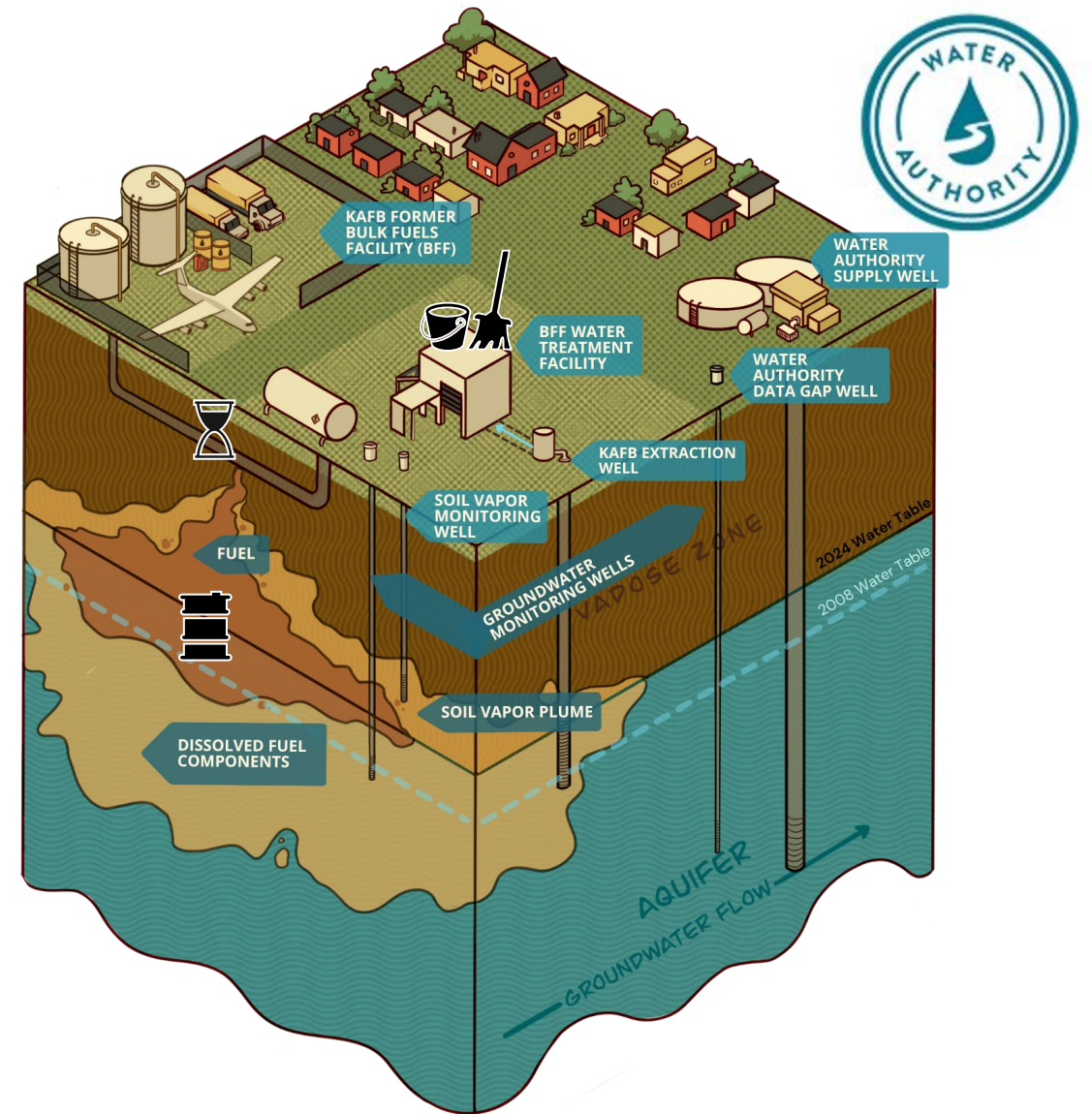


Cleanup follows RCRA Corrective Action process

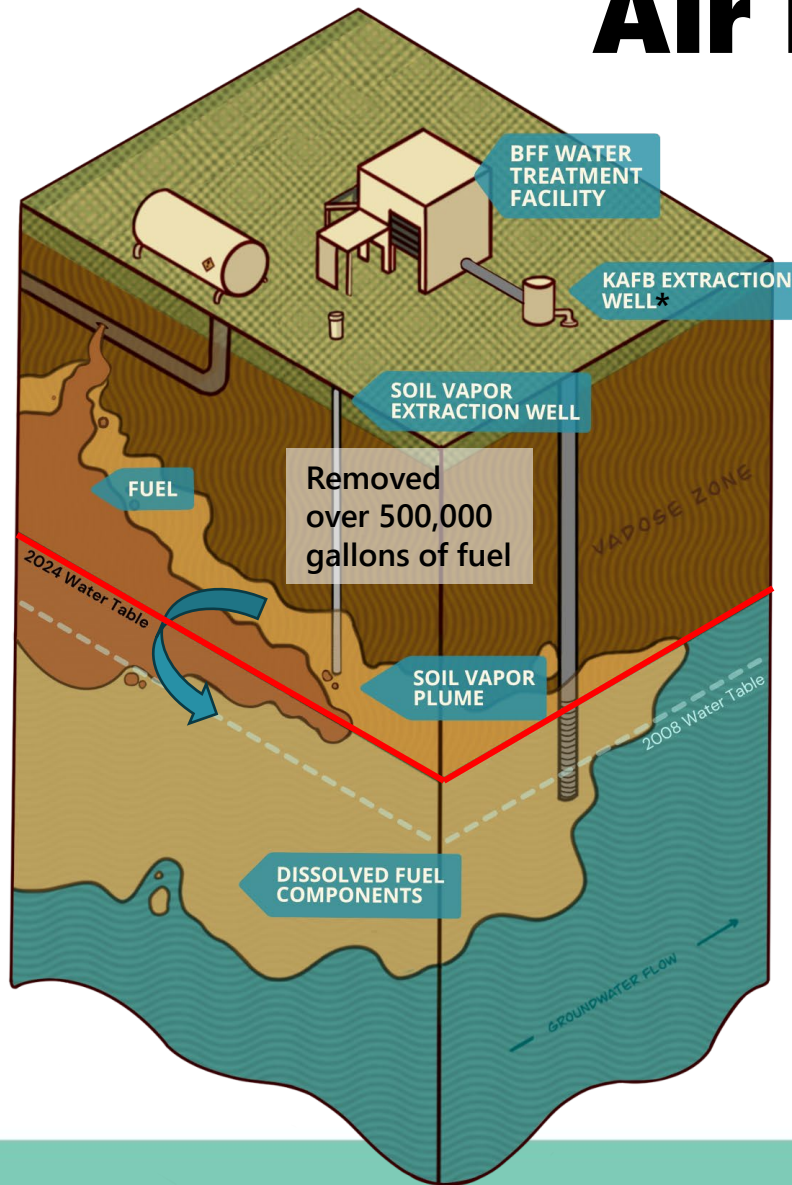
- Breaks cleanup into:

- 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)

Critical Points

- 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



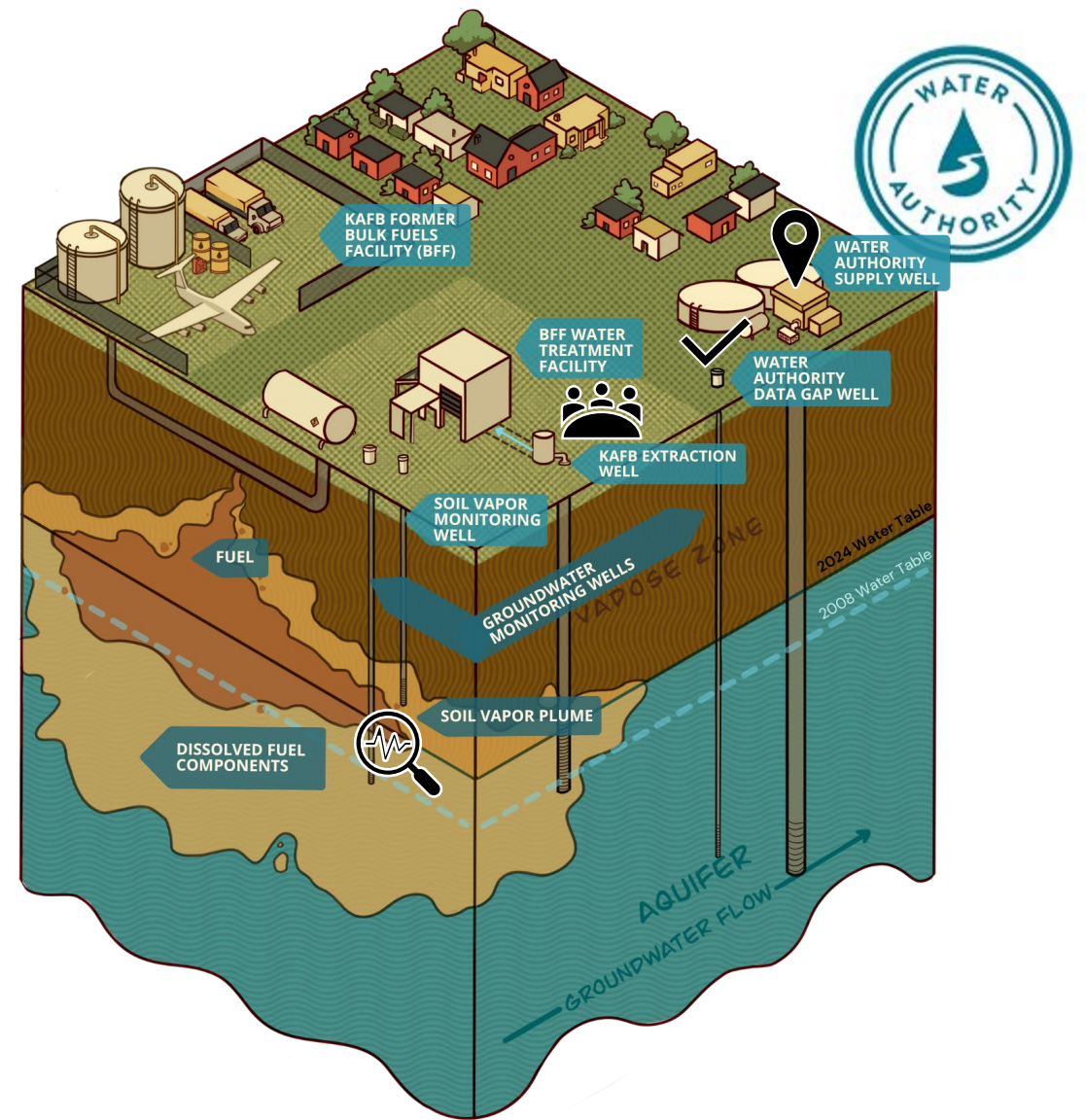
Consolidate and conduct technical analyses of site data



Installed and continue to sample the Data Gap Monitoring Well



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



Pump and Treat Modification

- On July 9th, 2024, the Air Force provided notice to NMED of its intent to turn off 2 out of the 4 interim measure extraction wells
 - Pumping will be increased at the remaining extraction wells
 - Shut-down wells will be “idled” to turn on when needed
- Little technical justification was provided
- A robust analysis of potential impacts to EDB migration was not completed
- Unclear what would trigger resuming operation of the two extraction wells taken offline

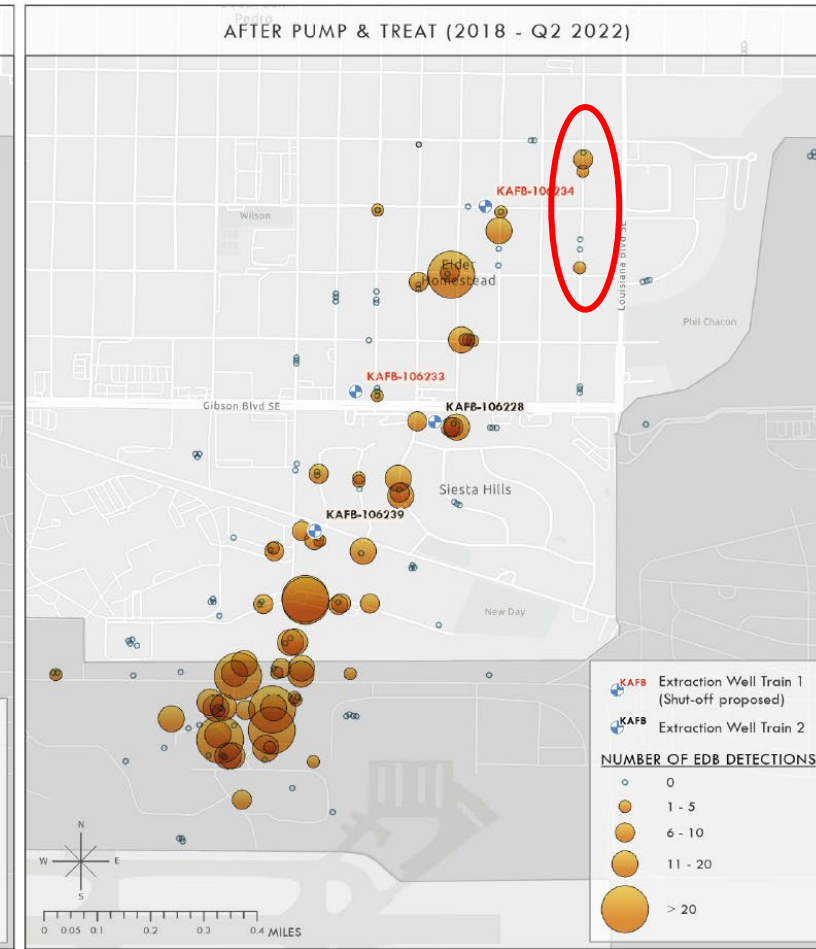
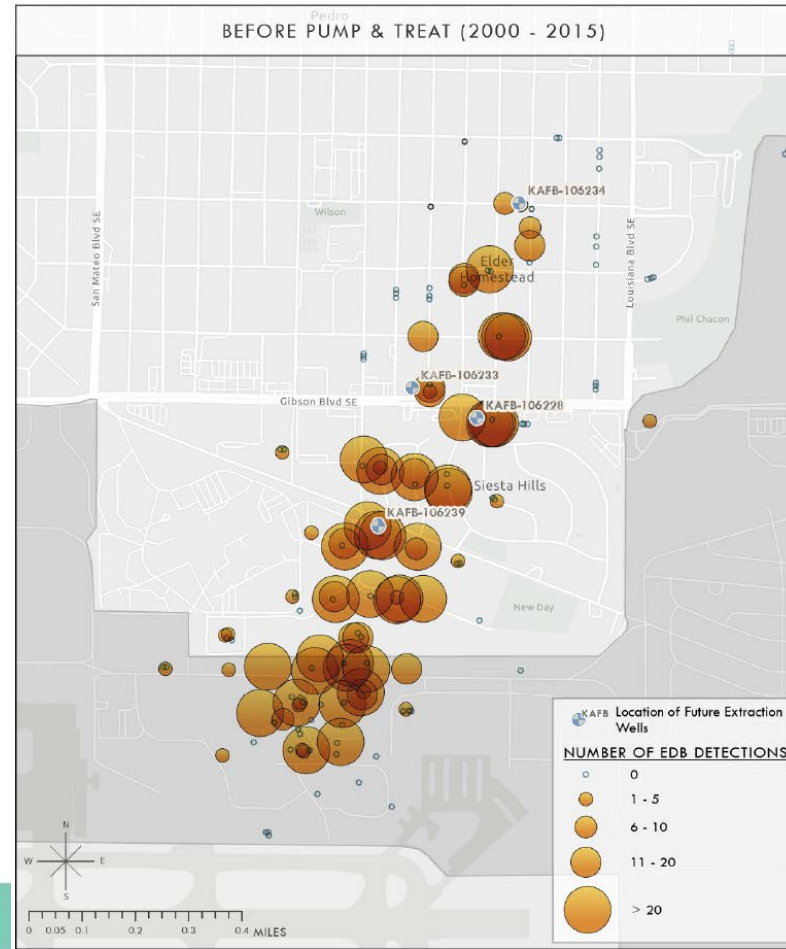


Water Authority Concerns



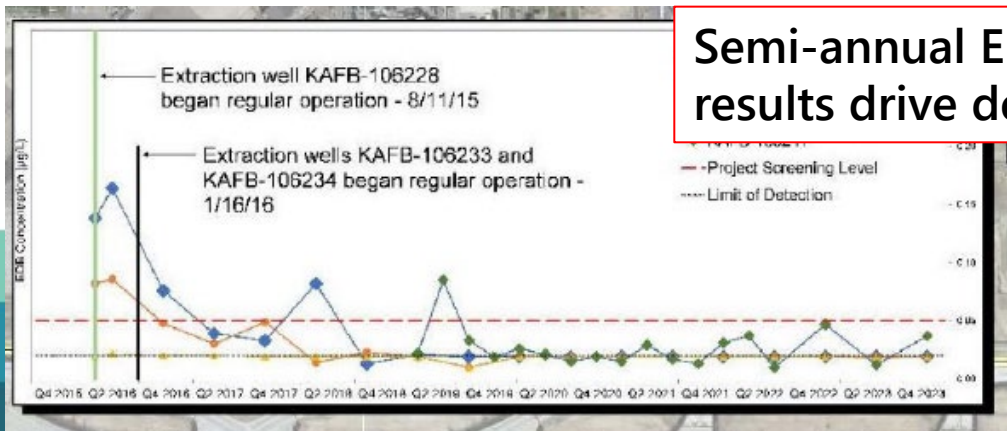
- ❖ Lack of forward-looking analysis of EDB impacts to source water AT ANY POINT in the future

- ❖ No trigger action plan detailing how the Air Force will monitor and respond to changing conditions

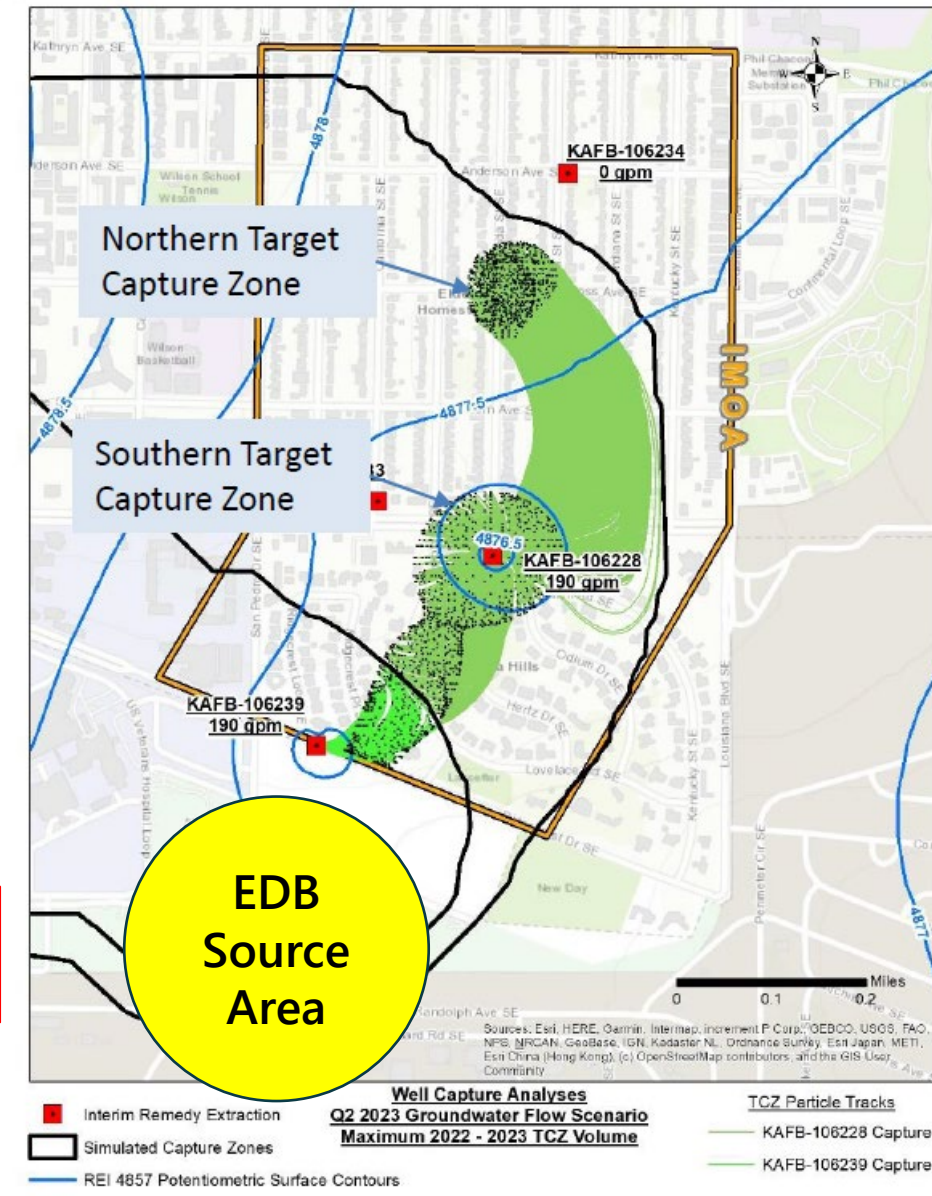


EDB Migration

- Air Force stated objective is "...provide protection to water supply wells by hydraulic capture of the dissolved-phase EDB utilizing well pumping."
- Air Force provided a minimal and incomplete capture analysis
 - Did not consider EDB south of Ridgecrest Drive
 - Does not include influence of regional supply well pumping
 - Only looks 10 years into the future



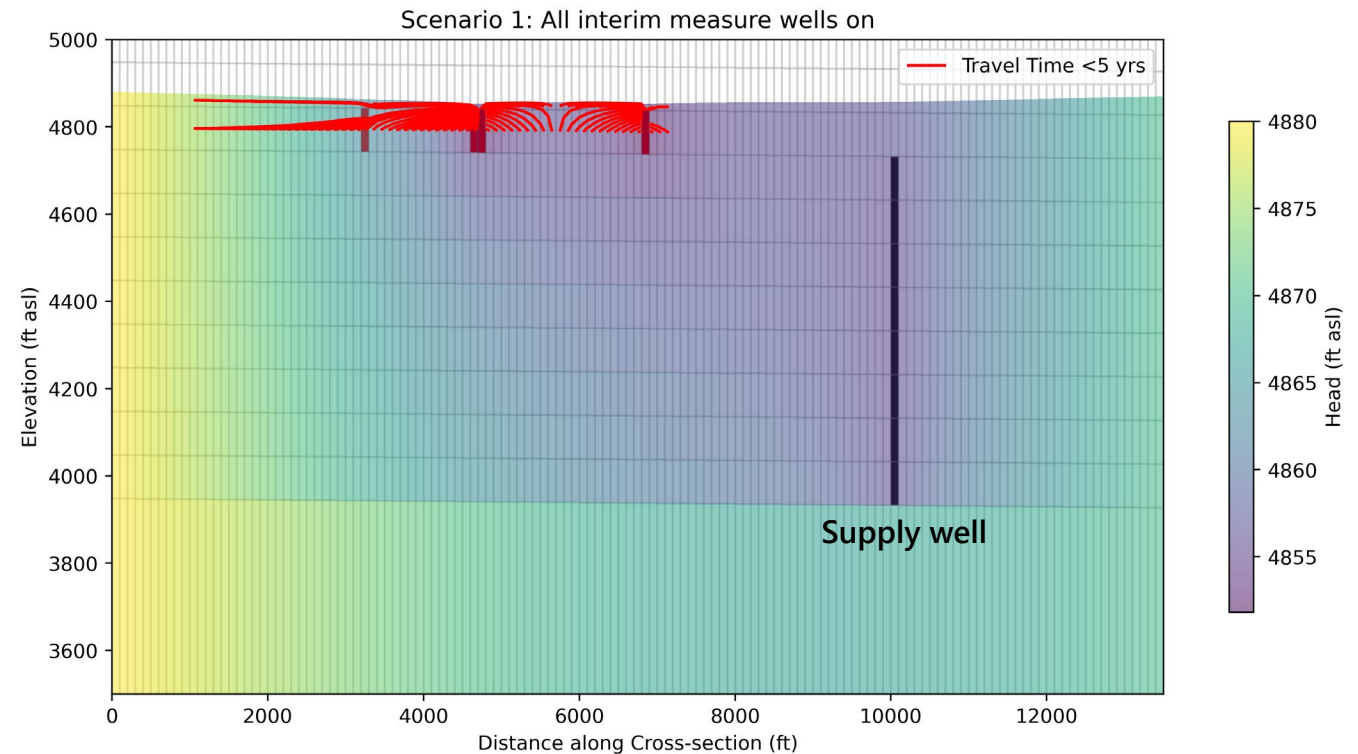
Semi-annual EDB results drive decisions



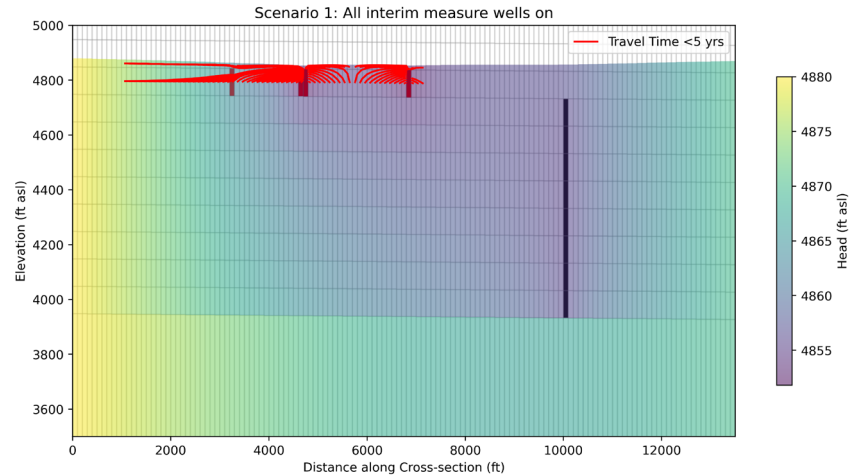
Water Authority Analysis



- Simple, 2-D cross section flow model
- Built in USGS MODFLOW 6 environment
- Model parameters assumed from calibrated USGS fate and transport model (Myers and Friesz, 2019)
- Particles representing EDB placed to represent extent of EDB as of 2022
- Pumping values for extraction well and downgradient supply well set based on past 5-year average
- Model ran until all particles were removed by extraction wells or supply well

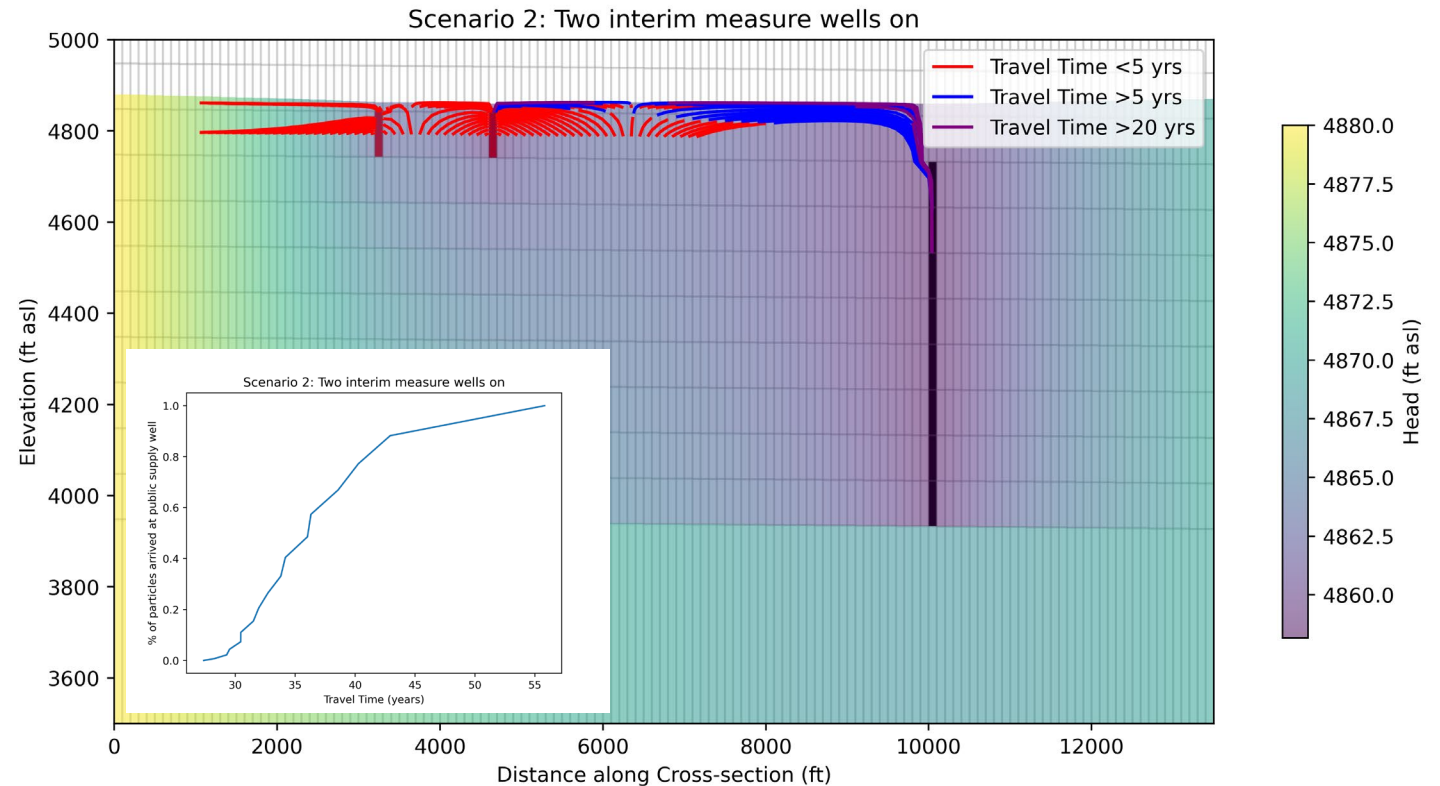


Water Authority Analysis



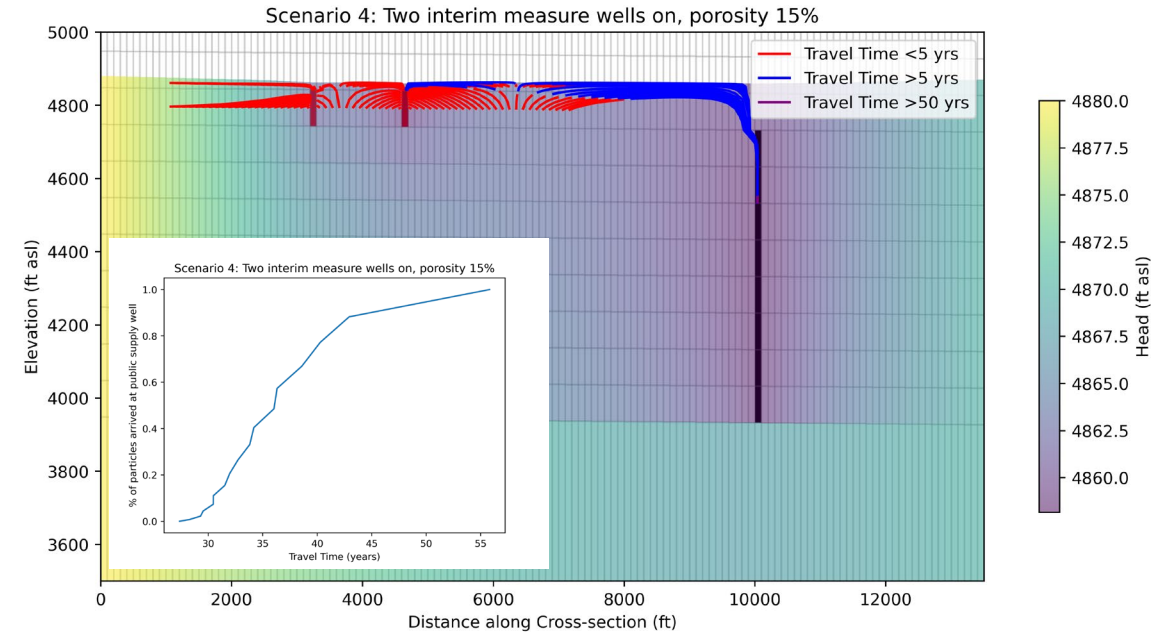
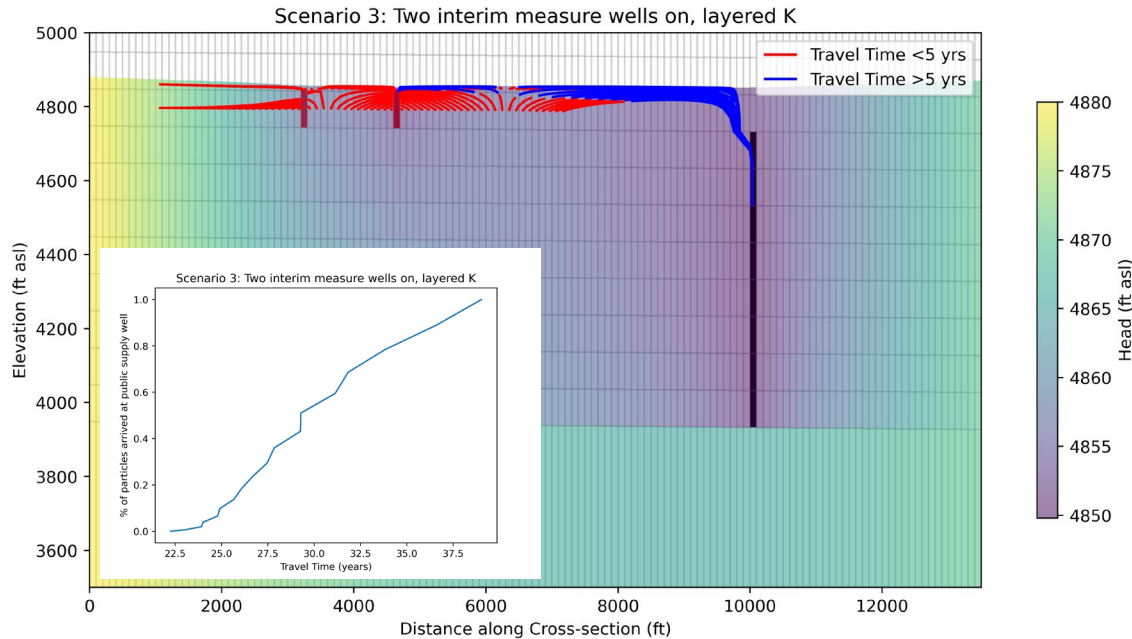
4 extraction wells on

➤ Breakthrough to supply well ranging from 20 - 35 years



2 extraction wells off, new pumping rate at remaining extraction wells

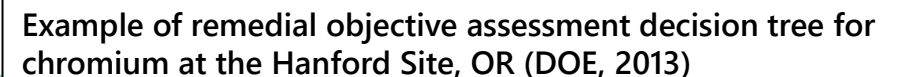
Water Authority Analysis



➤ Variations in model parameters speed up or slow down time to breakthrough, highlighting the importance of input parameters

- Air Force has selected 12 monitoring wells to assess contaminant rebound
 - Unclear why these wells were selected
 - No criteria for assessing rebound was provided
 - No discussion of trigger levels to resume extraction at the shutoff wells

- ❖ A clear definition the remedial objective(s) of the proposed operational change,
- ❖ Conditions to define the status of the objective(s),
- ❖ Definition of multiple lines of evidence (data) to assess the success of the new operation
 - Necessary monitoring frequencies
 - Description of how data from all monitoring wells at the site will be incorporated



What is needed?

- ❖ Unchanged operation of 4 extraction wells
 - ❖ Robust technical analysis of the effects of changes to the extraction well operation
- ❖ Development of a trigger action plan (regardless of changes to the extraction wells)
- ❖ Inclusion of Water Authority in project discussions and decision-making
- ❖ Active cleanup of remaining fuel

