

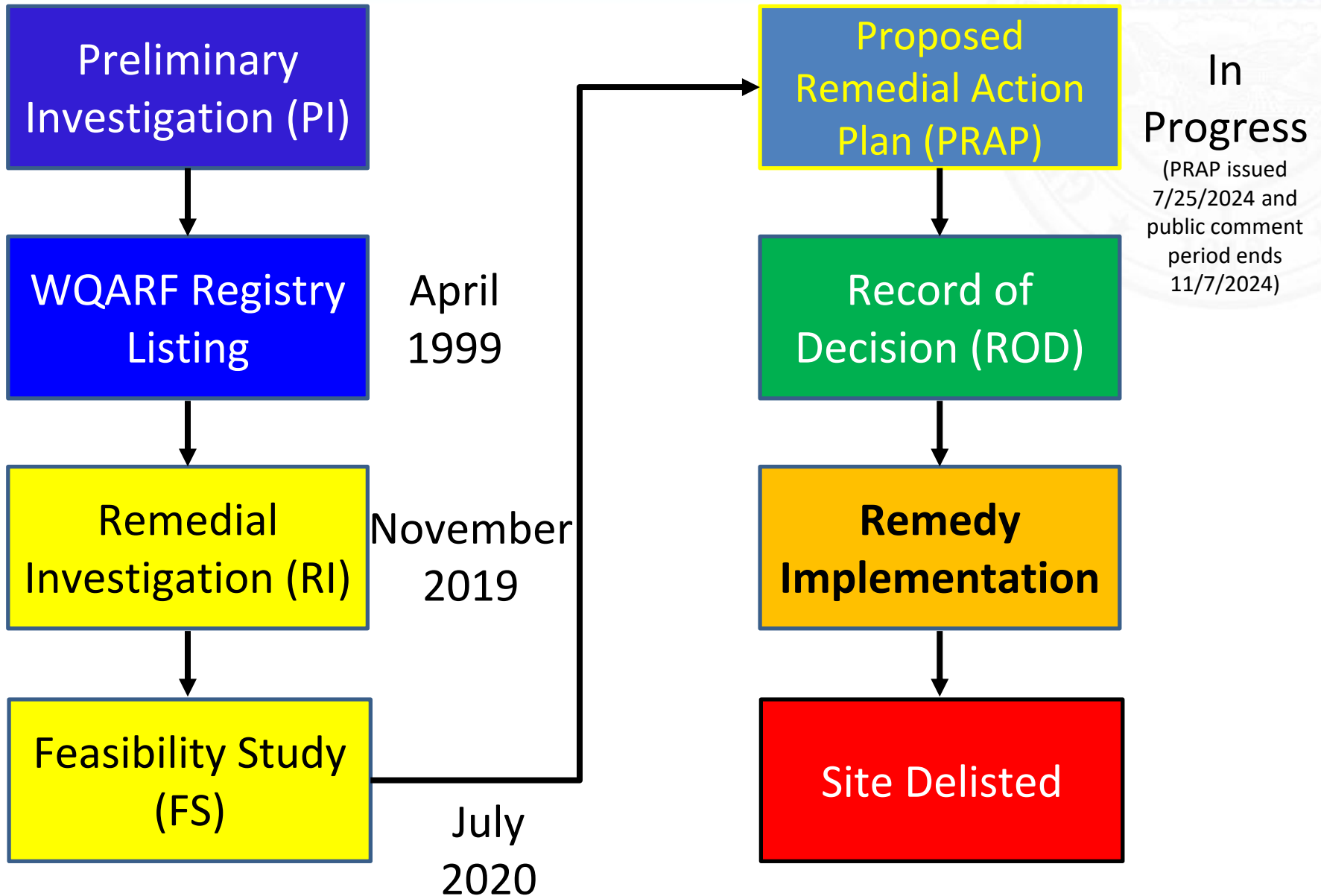
# East Central Phoenix – 48<sup>th</sup> Street and Indian School Road Phoenix, AZ

Date: October 24, 2024

Project Manager: Adam Nagle

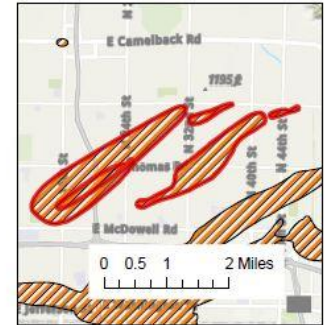
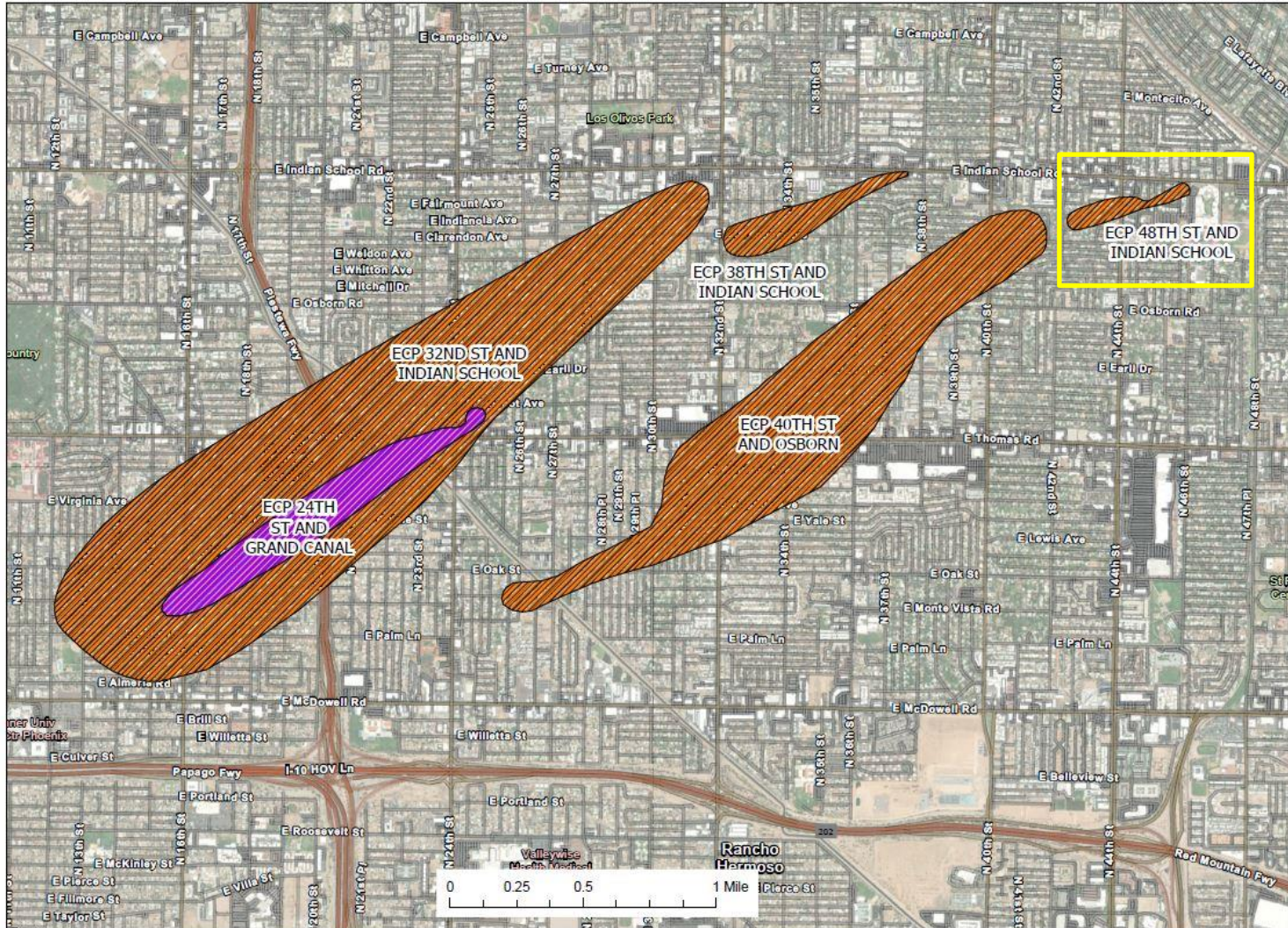


# WQARF Process





## East Central Phoenix WQARF Sites



- 24th St Grand Canal Estimated Plume Boundary
- ECP Estimated Plume Boundary
- Counties

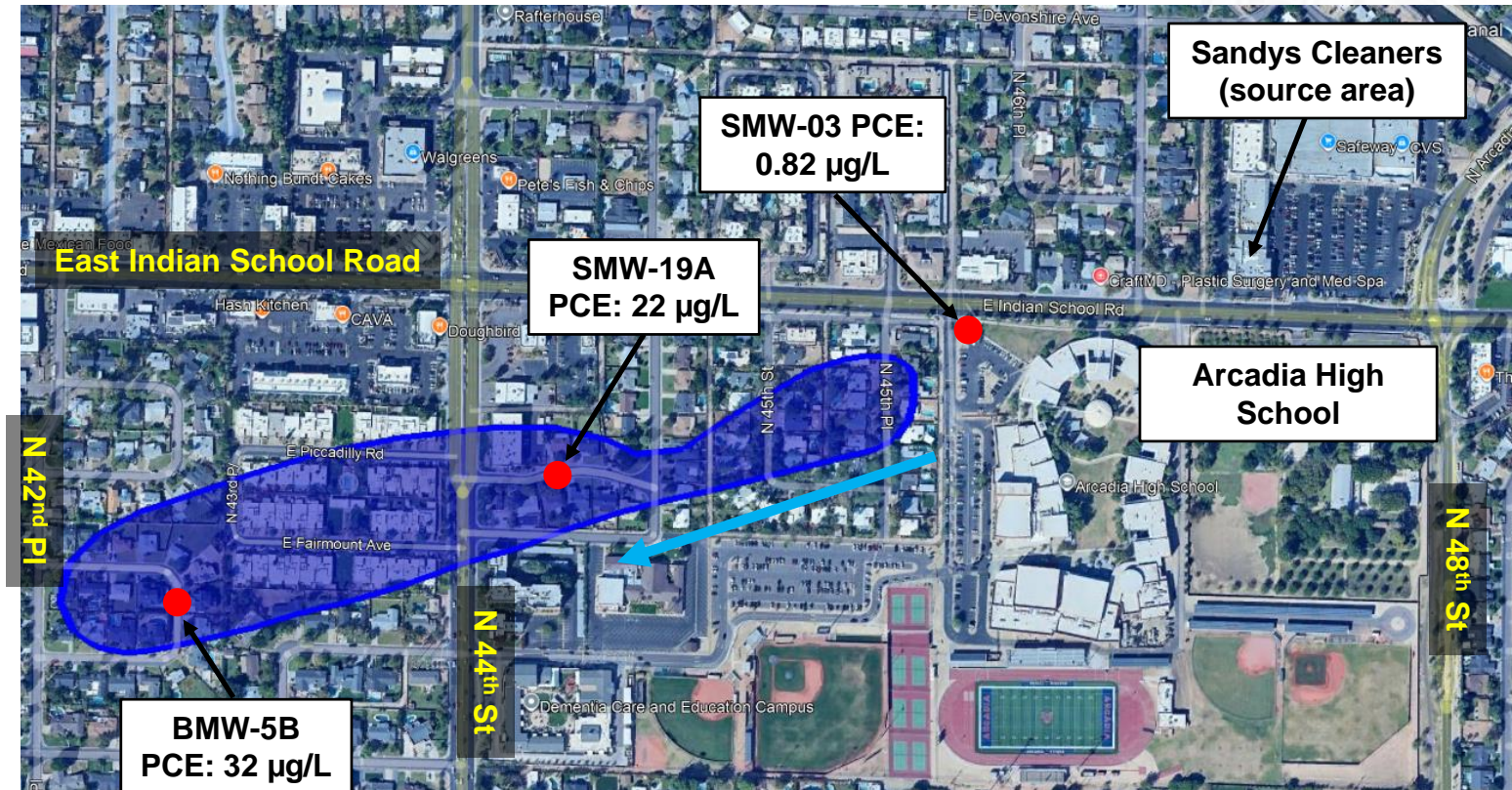
Plume boundaries depicted on the site map represent ADEQ's interpretation of data available at the time the map was constructed. The map is intended to provide the public with basic information as to the estimated geographic extent of known contamination as of the date of map production. The actual extent of contamination may be different. Therefore, the plume for this site may change in the future as new information becomes available.

- Contaminants of Concern = Tetrachloroethene (PCE)
- Source of Contamination = Former One Hour Martinizing (1966 to 1987) and Sandy's Cleaners (1987 to present)
- Current Impacted Media = Groundwater (soil contamination remediated by soil vapor extraction system and soil vapor testing indicated no substantial risk)
- No Potential Receptors



- Currently performing semi-annual groundwater monitoring
- Diffuse plume
- PCE Concentrations above Arizona Aquifer Water Quality Standard (AWQS) of 5 micrograms per Liter ( $\mu\text{g}/\text{L}$ ) in March 2024 ranged from 14 to 32  $\mu\text{g}/\text{L}$
- PCE concentrations are increasing in downgradient monitoring wells as the plume migrates

# Groundwater Plume Map

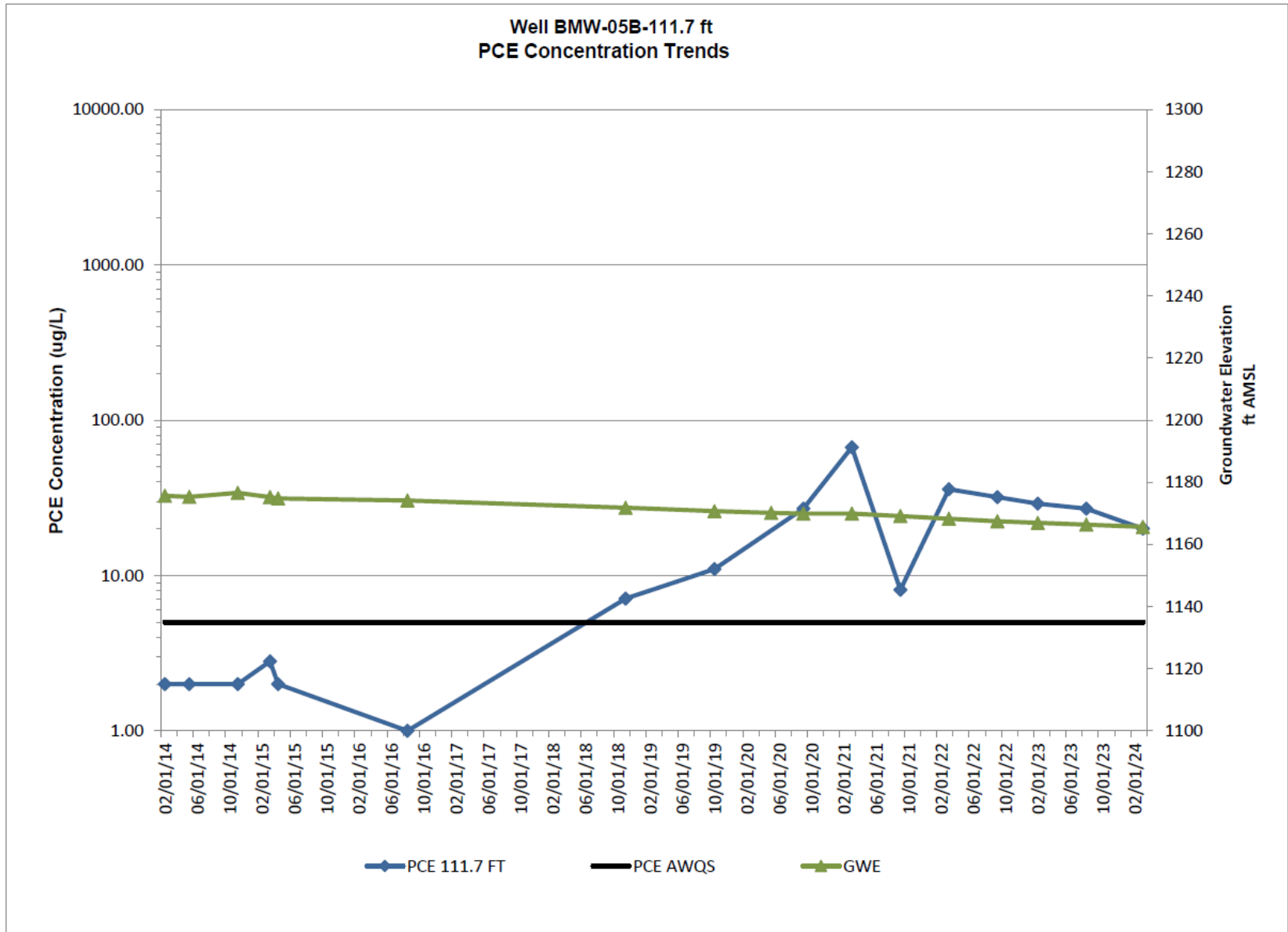


— 48<sup>th</sup> and Indian School – 5µg/L PCE Isopleth (2023 Monitoring)

● Monitoring Well

← Approximate Groundwater Flow Direction  
Groundwater Depth approximately 45 feet

# Groundwater Concentration Trend

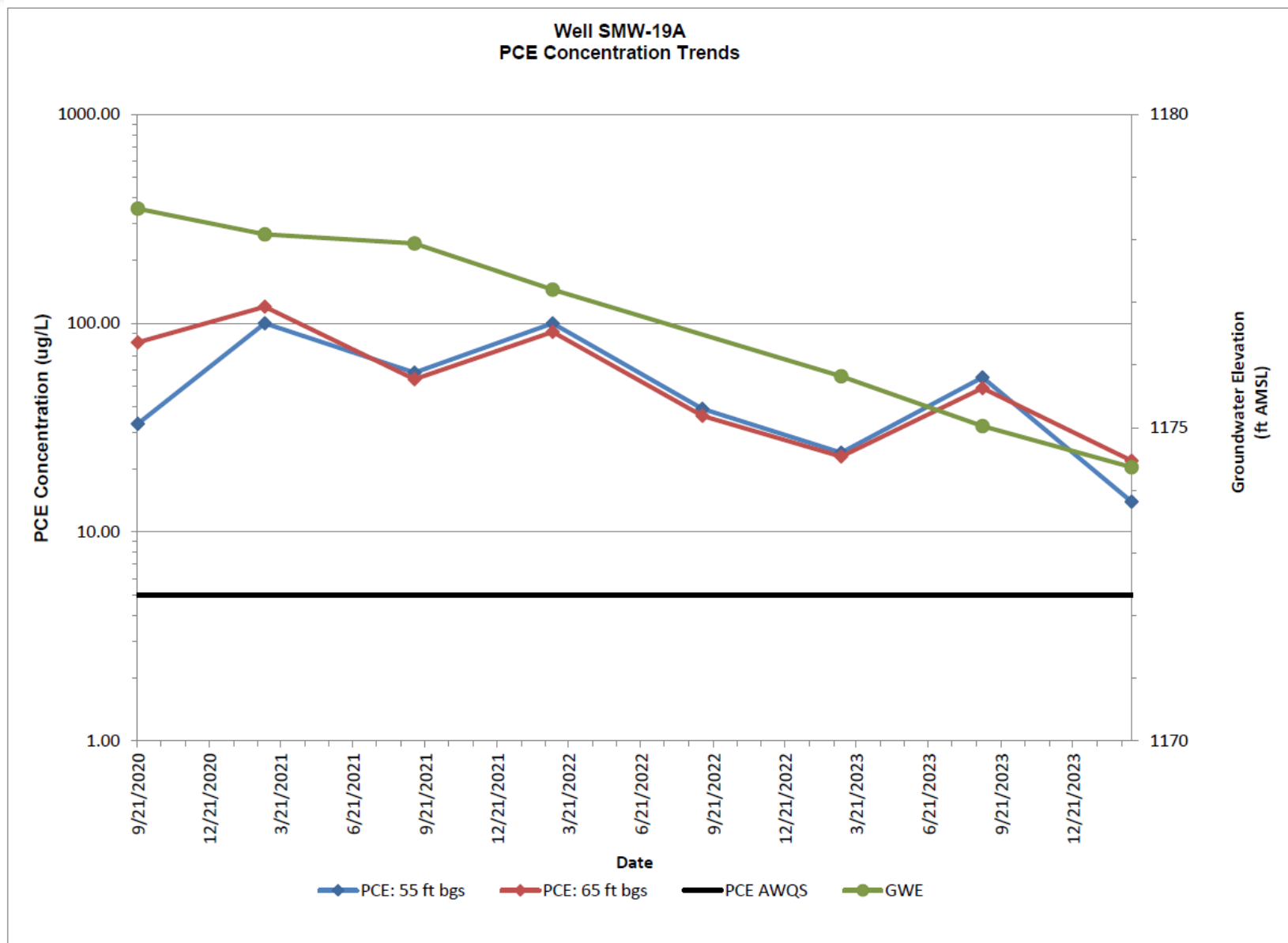


Sample collected at 111.7 feet

GWE = Groundwater Elevation

AMSLS = Above Mean Sea Level

# Groundwater Concentration Trend





- Proposed Remedial Action Plan (PRAP) published in June 2024.
- Proposed Remedy includes:
  - Downgradient monitoring well installation
  - Groundwater monitoring and sampling
  - Data used to evaluate plume migration, plume stability, & natural attenuation of plume
  - Data used to trigger proposed contingency action of additional monitoring time

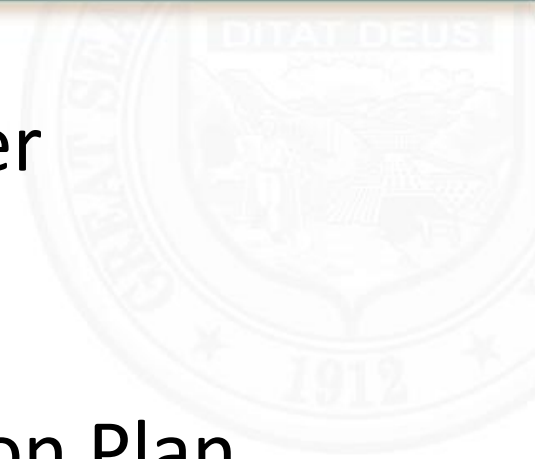
# Proposed Remedial Technologies

Summary of Costs for Proposed Remedy	
Remedial Technology	Cost
Groundwater Sampling (up to 15 years)	\$1,125,000
MNA Parameter Sampling (years 1, 2, 5, 10, 15)	\$265,000
Periodic Site Reviews (every 3 years)	\$165,000
Site Closure	\$138,000
<b>SUB-TOTAL</b>	<b>\$1,693,000</b>
Well Installation (Contingency)	\$200,000
Additional 3 Years Sampling (Contingency)	\$258,000
<b>CONTINGENCY-TOTAL</b>	<b>\$458,000</b>
<b>SUB-TOTAL WITH CONTINGENCY</b>	<b>\$2,151,000</b>
<b>TOTAL WITH 3% YEARLY INFLATION</b>	<b>\$2,766,000</b>

- Proposed Remedy:
  - Meets remedial objectives
  - Consistent with current & future land & water use
  - Protects public health & the environment
  - Provides control, management, & cleanup of contamination to allow maximum beneficial use of the waters of the state
  - Is reasonable, necessary, cost-effective, & technically feasible



- Continue semi-annual groundwater monitoring
- Install two downgradient wells
- Conclude Proposed Remedial Action Plan public comment period on November 7, 2024
- Begin Record Of Decision



## **ADEQ Community Involvement Coordinator**

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Questions?

