

# 7th Street and Arizona Ave WQARF Site CAB Update

26 March 2024

Joshua Campbell, Project Manager



Clean Air, Safe Water,  
Healthy Land for Everyone

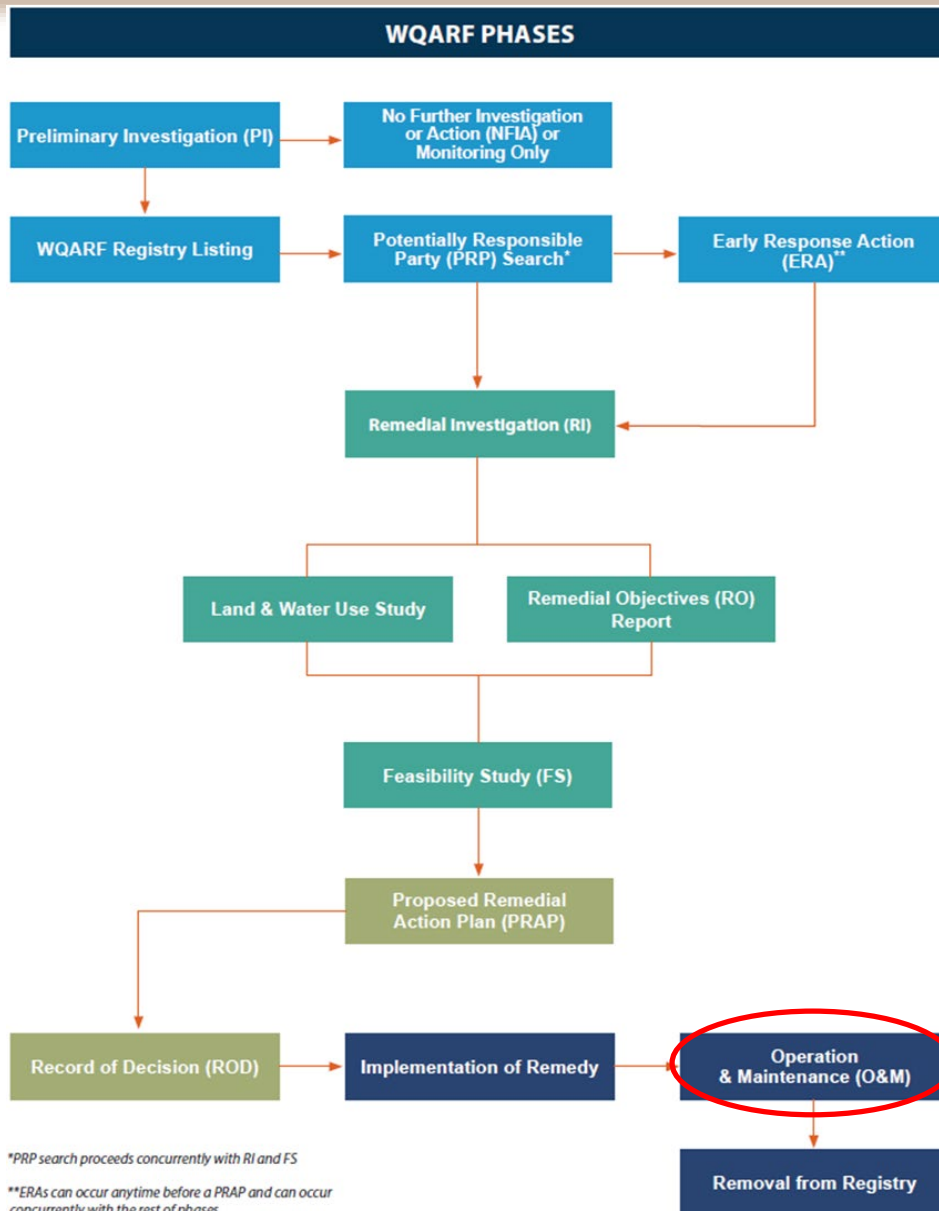


# 7th Street and Arizona Avenue Source Areas



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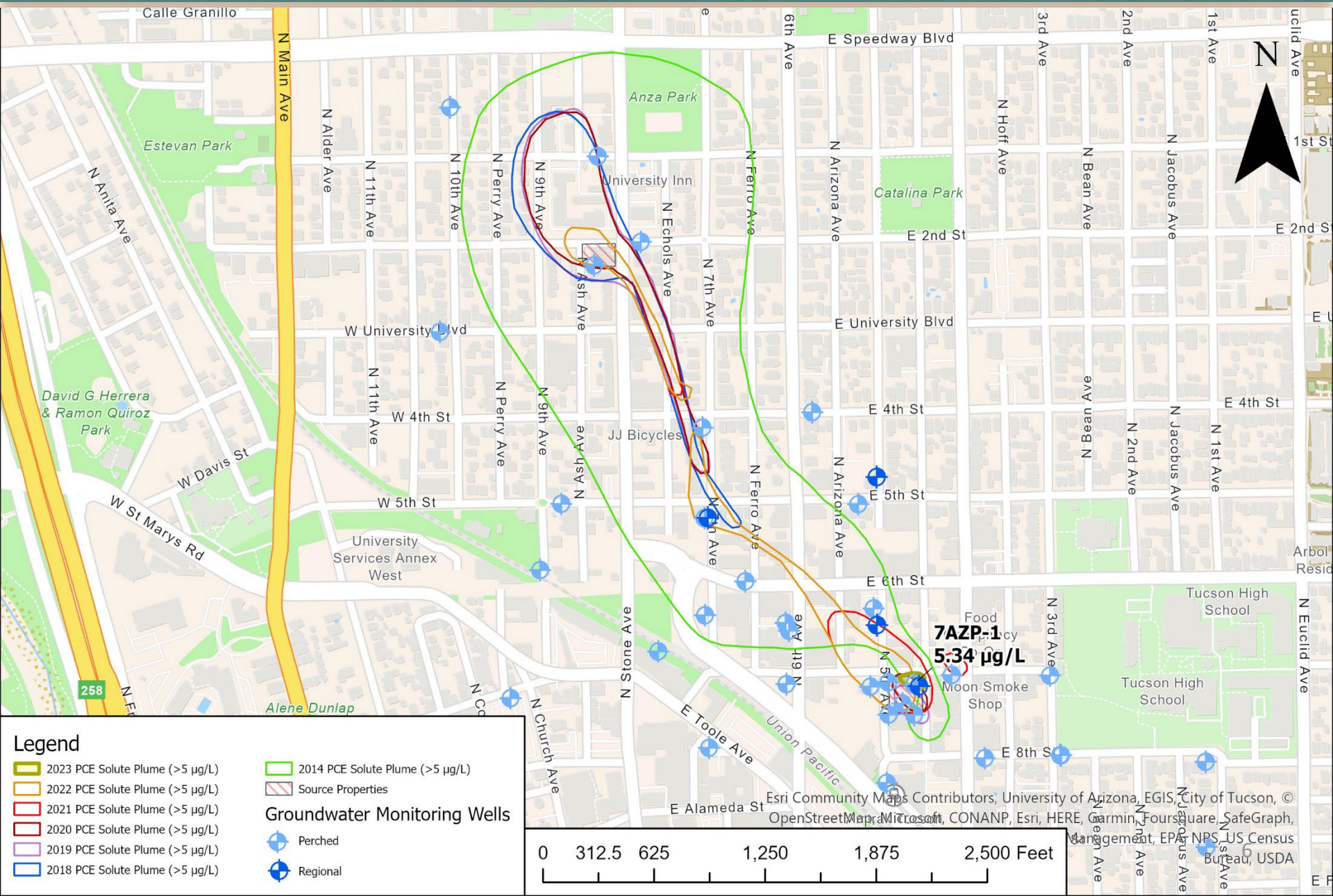
# WQARF Phase



- Created as a WQARF Site in 2000 based on contamination from former Oliver's Cleaners
  - Perchloroethene (PCE) as primary contaminant
- Additional source discovered at N Stone property in 2013
- Record of Decision (ROD) signed in 2021
  - Reduce PCE vapor in soils
  - Natural attenuation of PCE in groundwater
- Soil vapor extraction (SVE) has been used at both source properties

- Latest groundwater samples collected in November 2023
- Only one well had PCE concentrations above the Aquifer Water Quality Standard

# Changes to PCE Plume over time



- SVE still operating at Stone Ave. property
  - Operated off-and-on since 2017
  - Removed ~2270 pounds of PCE to date



# PCE in Soil Vapor Probes at Stone Ave. Source

## Tetrachloroethene in Soil Vapor Probes North Stone Source Area



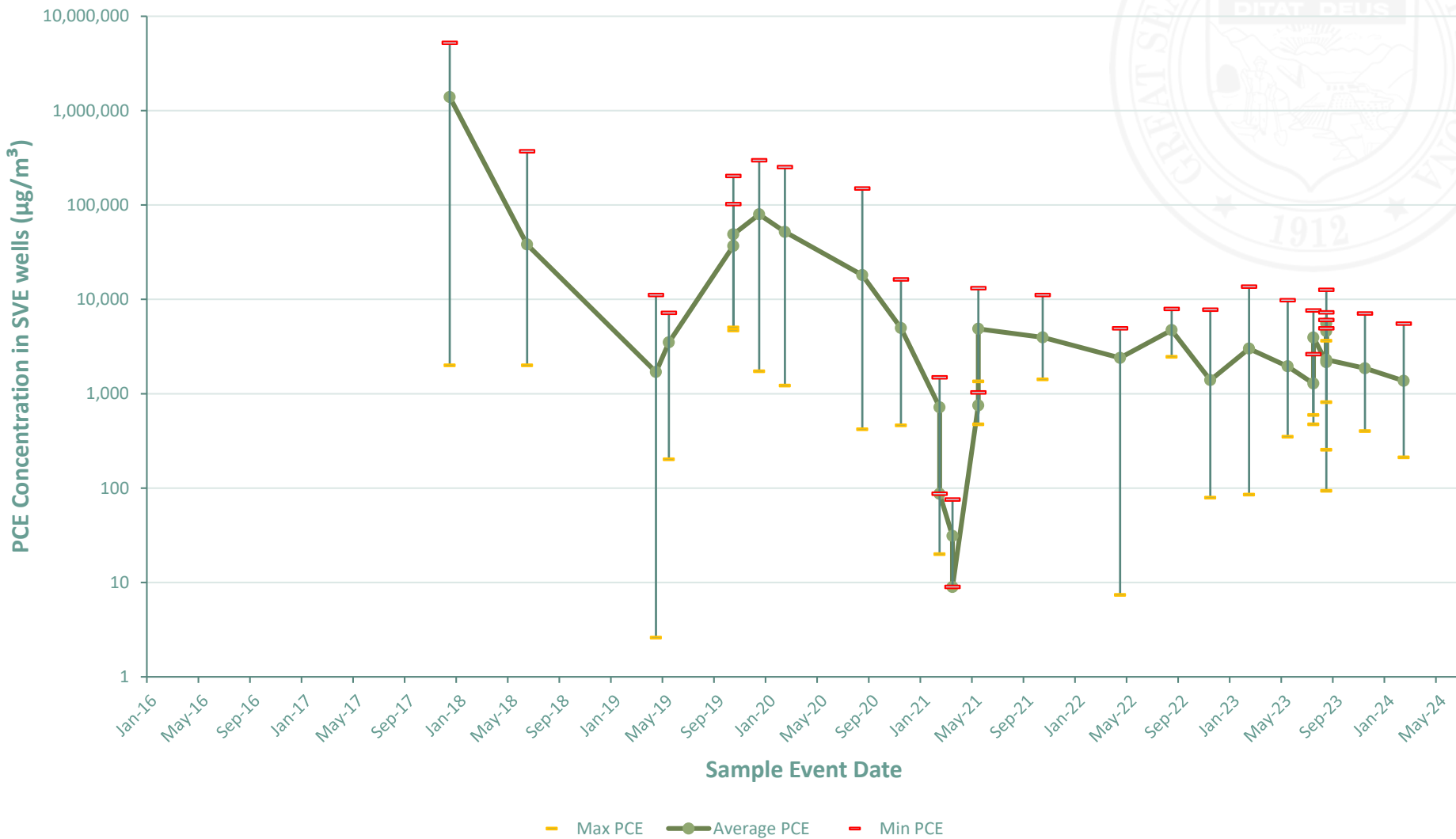
PCE: perchloroethene

$\mu\text{g}/\text{m}^3$  : micrograms of PCE per cubic meter of soil vapor



# PCE in Soil Vapor Wells at Stone Ave. Source

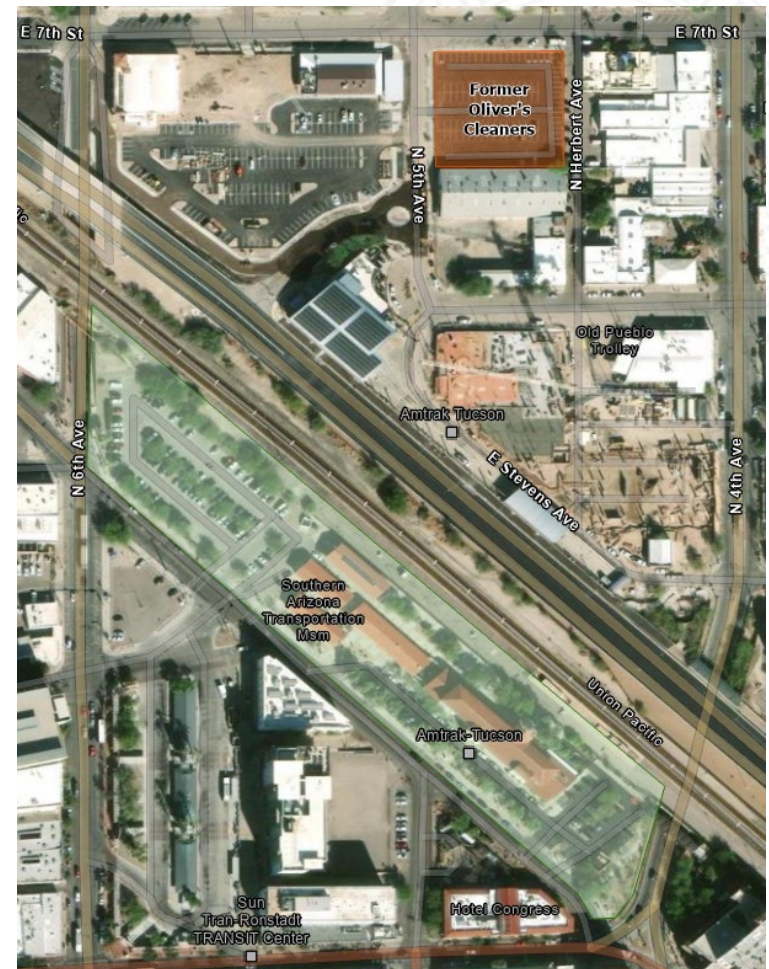
## Perchloroethene in Soil Vapor Extraction Wells North Stone Source Area



PCE: perchloroethene      µg/m³ : micrograms of PCE per cubic meter of soil vapor

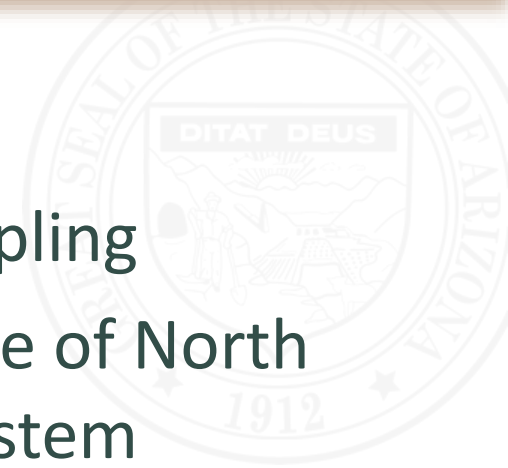
# Union Pacific Railroad Passenger Terminal

- Various remedial systems operated on Site from 1993-2021
  - Removed 149,000 gallons of liquid fuel and 94,000 gallon-equivalents of vapor-phase removal and biodegradations
- Site closed based on risk assessments in May 2022
  - No exceedances of Aquifer Water quality Standards in 2019 or 2021 sampling events
  - No nearby groundwater production wells
  - No identified risks for vapor intrusion into buildings
- Additional questions can be directed to ADEQ's Underground Storage Tank Section:
  - Joey Kiker
  - [kiker.joey@azdeq.gov](mailto:kiker.joey@azdeq.gov)



## ■ Site Work for Fiscal Year 2024

- Annual groundwater monitoring/sampling
- Operation, sampling, and maintenance of North Stone Avenue soil vapor extraction system
- Soil vapor sampling at both source properties



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