

**Cooper Road and Commerce Avenue
Water Quality Assurance Revolving Fund (WQARF) site
Community Advisory Board (CAB) Meeting**

Tuesday, August 20, 2019

6:00 p.m. – 8:00 p.m.

McQueen Park Activity Center

510 N. Horne St.

Gilbert, Arizona 85233

MINUTES

CAB Members Present: Pacer Udall (Co-Chair), Michael Evans (Co-Chair), Carrie Lewis, Anne Landers, Eric Braun

CAB Members Absent: Bruce Friedrich

ADEQ Staff Present: Barbara Boschert, Community Involvement Coordinator; Tara Thurman, Community Involvement Coordinator; Kyle Johnson, Project Manager.

Members of Public Present: Patty Jordan, Town of Gilbert; Karis Nelson, SRP

1. Call to Order/Introductions

Mr. Pacer Udall call the meeting to order at 6:10 p.m. and introductions were held.

2. Acceptance and/or Changes to October 10, 2018 Meeting Minutes

Ms. Carrie Lewis noted that her name in the October 10, 2018 minutes should be changed from Mr. to Ms. Ms. Lewis made a motion to accept the minutes with that change. Mr. Eric Braun seconded the motion and the CAB voted unanimously to approve the minutes.

3. Presentation by ADEQ of Cooper Road and Commerce Avenue WQARF Site Activities since last CAB Meeting, Proposed Remedial Action Plan (PRAP) and Future Site Activities (see attached presentation)

Mr. Kyle Johnson reviewed the groundwater monitoring data since the last meeting and the Proposed Remedial Action Plan for the CAB (see presentation). Mr. Johnson stated that there has been a concern for the presence of metal in the vadose zone, but not the groundwater. Mr. Johnson stated that the metal contaminants do not impact

the groundwater, nor the land use, but that the PRAP recommends up to five years of continuous soil vapor extraction (SVE) operation. The CAB requested information on whether funds would be available for the life of the proposed remediation. Mr. Johnson reminded the CAB that activities and data at the site are reviewed on a regular basis.

Mr. Johnson stated that the proposed remedy is monitored natural attenuation (MNA), and reviewed possible contingencies in the PRAP for the SVE system and groundwater remediation.

Ms. Lewis asked where groundwater and soil monitoring data obtained during remediation would be located for public review. Mr. Evans asked if there would be an annual report, and Mr. Johnson stated that there are five-year reviews. Ms. Boschert stated that although the CAB will be ending, public meetings could be held to review site activities.

Ms. Anne Landers asked if there are any concerns about construction in the area, Mr. Johnson replied that below 20 feet there might be an issue. A Designated Environmental Use Restriction (DEUR) could be drawn up to limit the kind of construction and future uses on the property.

Ms. Landers had questions about how it would be determined that the groundwater treatment system contingency might be necessary.

Mr. Johnson stated that the cost estimate provided for MNA included sampling 33 wells twice a year for the estimated remediation period. He stated that this was a conservative sampling schedule and could be reduced over the life of the project, depending on monitoring results. Mr. Johnson stated that sampling 10-12 wells may be more appropriate and the sampling schedule could be modified with respect to monitoring results. Mr. Udall asked which wells would be sampled, Mr. Johnson stated they would be periphery wells.

Mr. Johnson provided a brief overview of upcoming site/monitoring activities. A discussion was held about rebound testing.

4. Discussion of the ADEQ Presentation by the Board

Ms. Lewis stated that she would like to find a way to get information about future test results and site activities. Ms. Boschert stated that a comment on the PRAP could be a request for regular information flow from ADEQ to the CAB members or community.

Mr. Johnson and Ms. Boschert stated that community members can access site data from public files via the Records Center, or by contacting either of them. Mr. Udall proposed that one of the CAB comments on the PRAP be that all sampling event data be posted in the site repository on the ADEQ website. A discussion was also held on the construction of a comment about well monitoring frequency.

5. CAB Comment and Possible Vote on the PRAP

Mr. Evans made a motion to submit the following comments on the PRAP, which was seconded by Mr. Braun. The CAB voted unanimously to make the following official comments on the PRAP:

- a. The CAB would like analytical data and site updates to be posted in the repository of the site's My Community page.
- b. The CAB suggests that the number of wells to actually be sampled during the remediation phase be pared down, based on data results, in a cost-savings effort. This would be reevaluated after every sampling event.
- c. The CAB has requested regular public meetings to update the soon-to-be-former CAB members and the community on site activities, not to exceed an interval of every two years.

6. Public Comment on the PRAP

Ms. Patty Jordan of the Town of Gilbert requested that plume maps also be posted on the ADEQ website after sampling events.

7.*Call to the Public

There were no comments during the Call to the Public.

8. Final CAB Meeting Discussion and Scheduling

The CAB would like to hold their last meeting once the Record of Decision is signed. Mr. Johnson stated that the ROD might not be completed and available until after the first of the year.

9. Adjournment

The meeting was adjourned at 7:40 p.m.

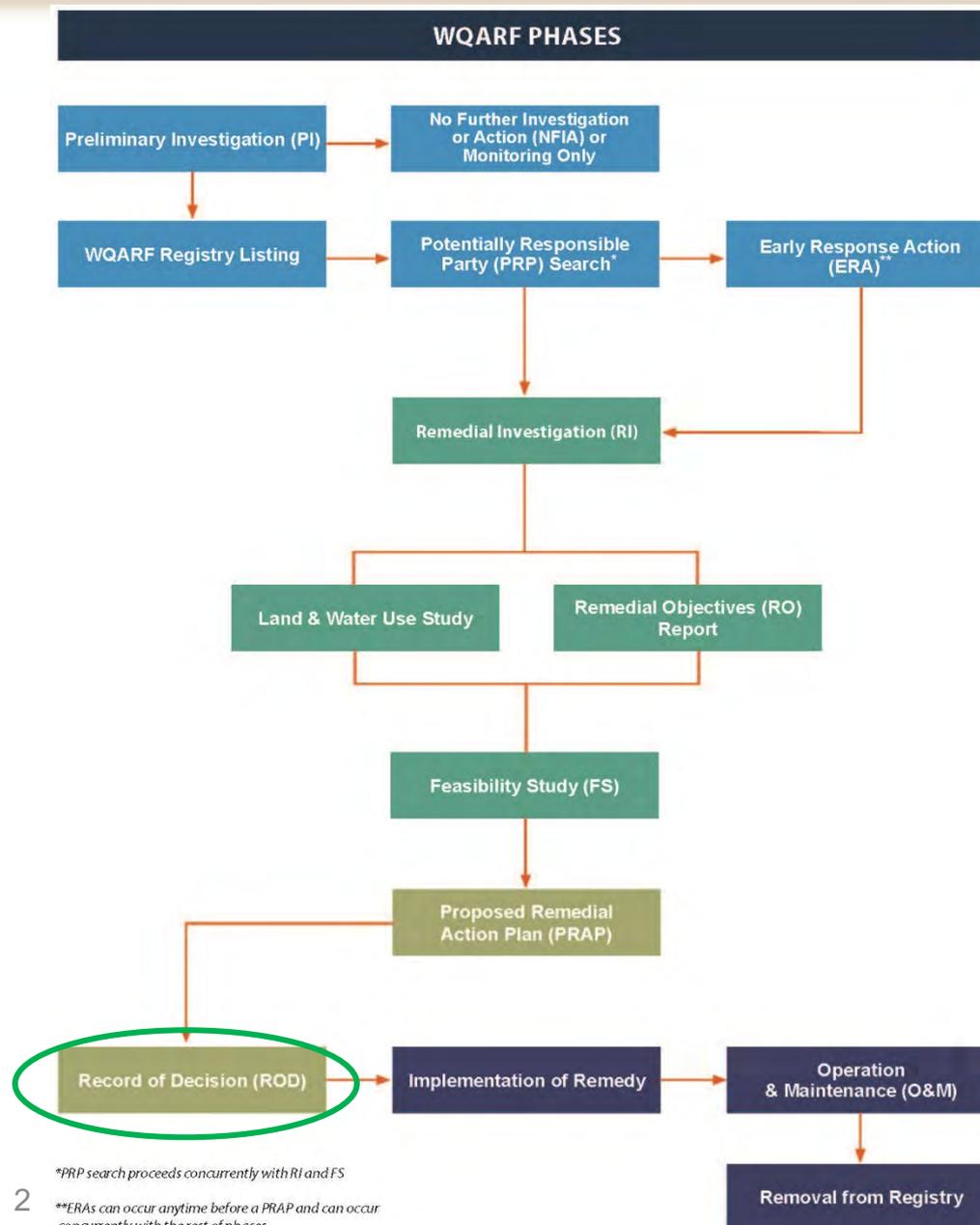


Cooper Road and Commerce Avenue
Water Quality Assurance
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Community Advisory Board (CAB) Meeting
20 August 2019

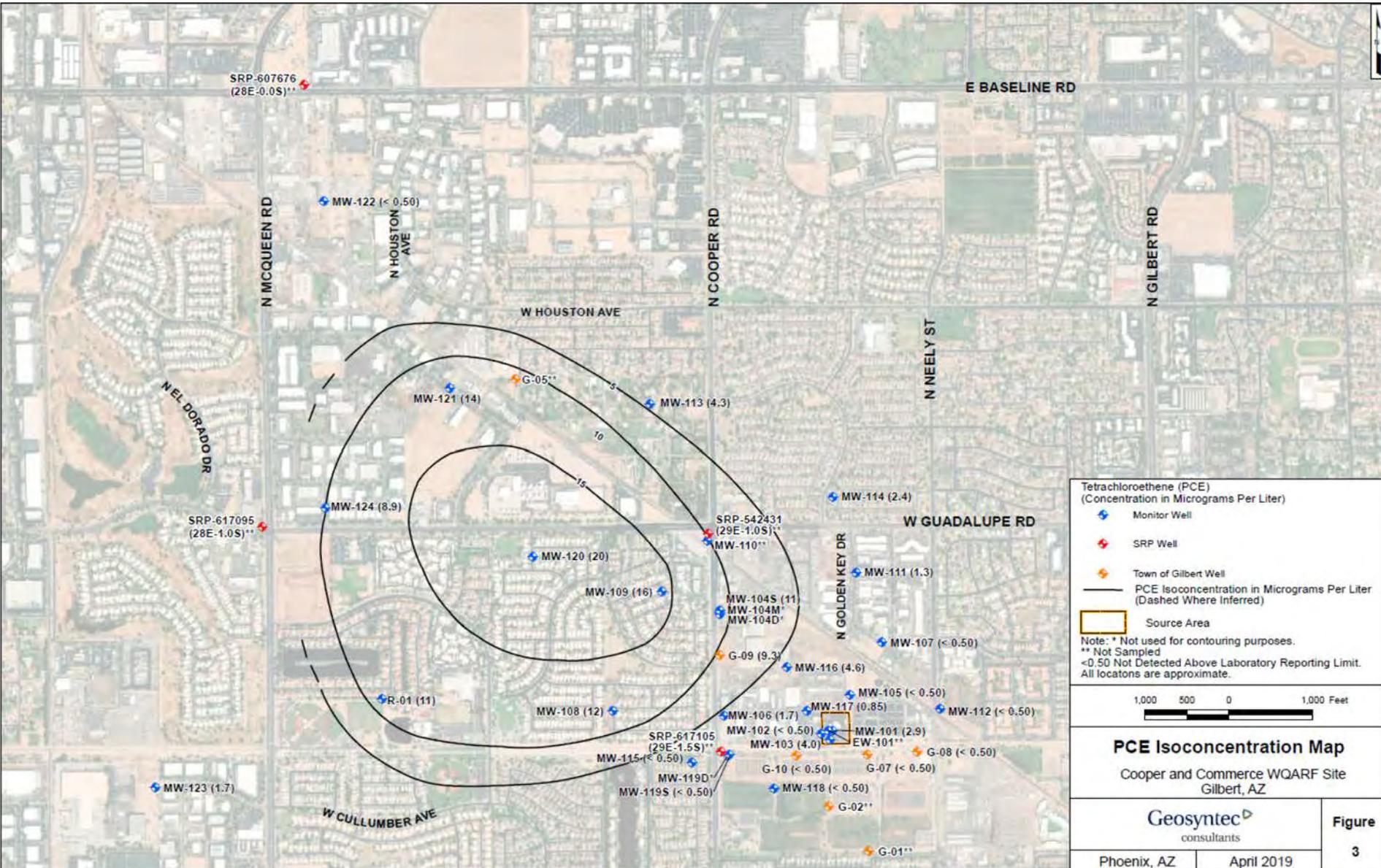


WQARF Process

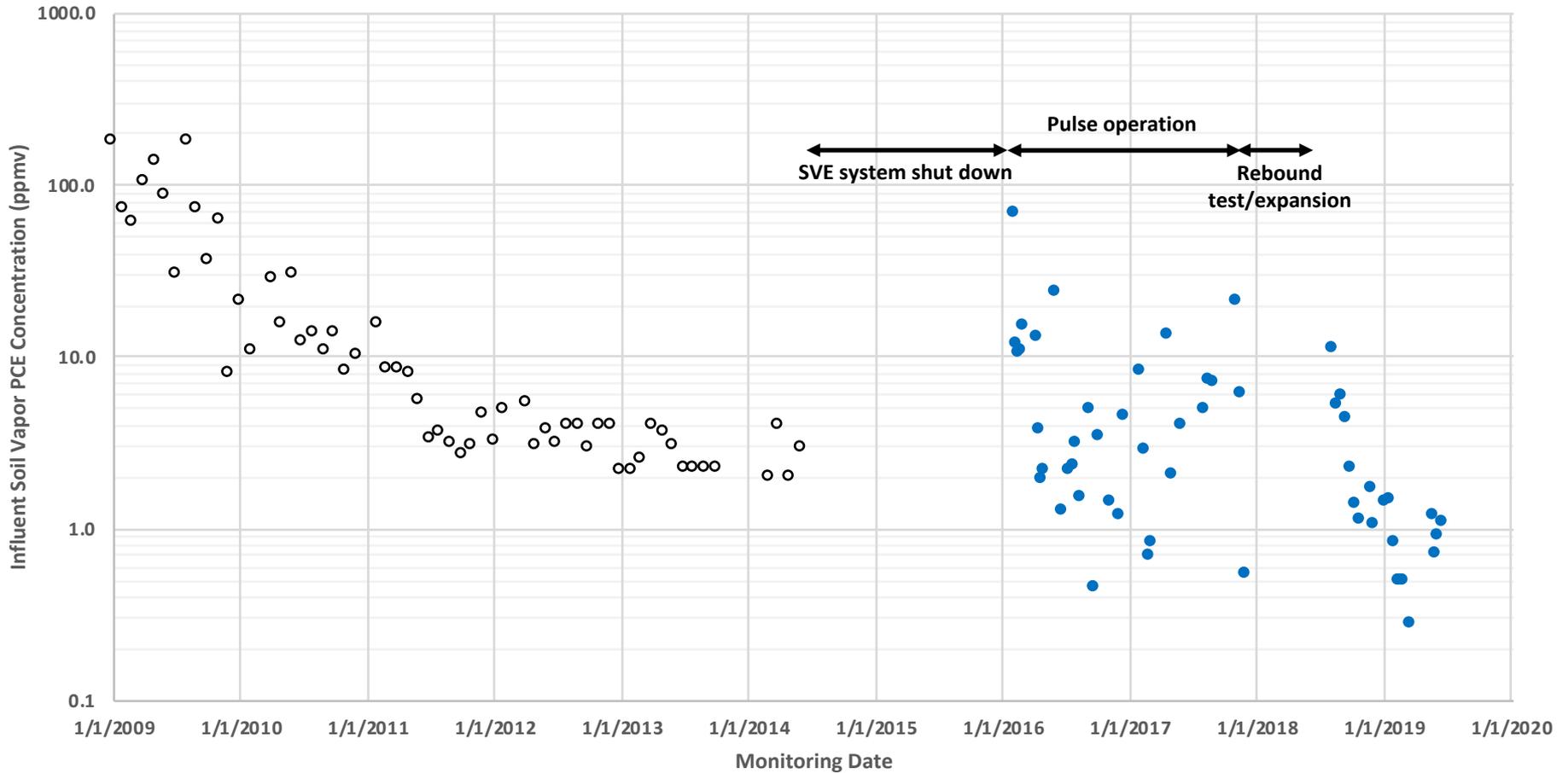


- **March 2019 Groundwater Monitoring Event**
 - Sampled 29 wells
 - Tetrachloroethene:
 - ❖ Non-Detect to 20 µg/L (MW-120)
 - Trichloroethene:
 - ❖ Below Aquifer Water Quality Standard of 5 µg/L
 - Groundwater flow to west northwest

March 2019 Groundwater Monitoring

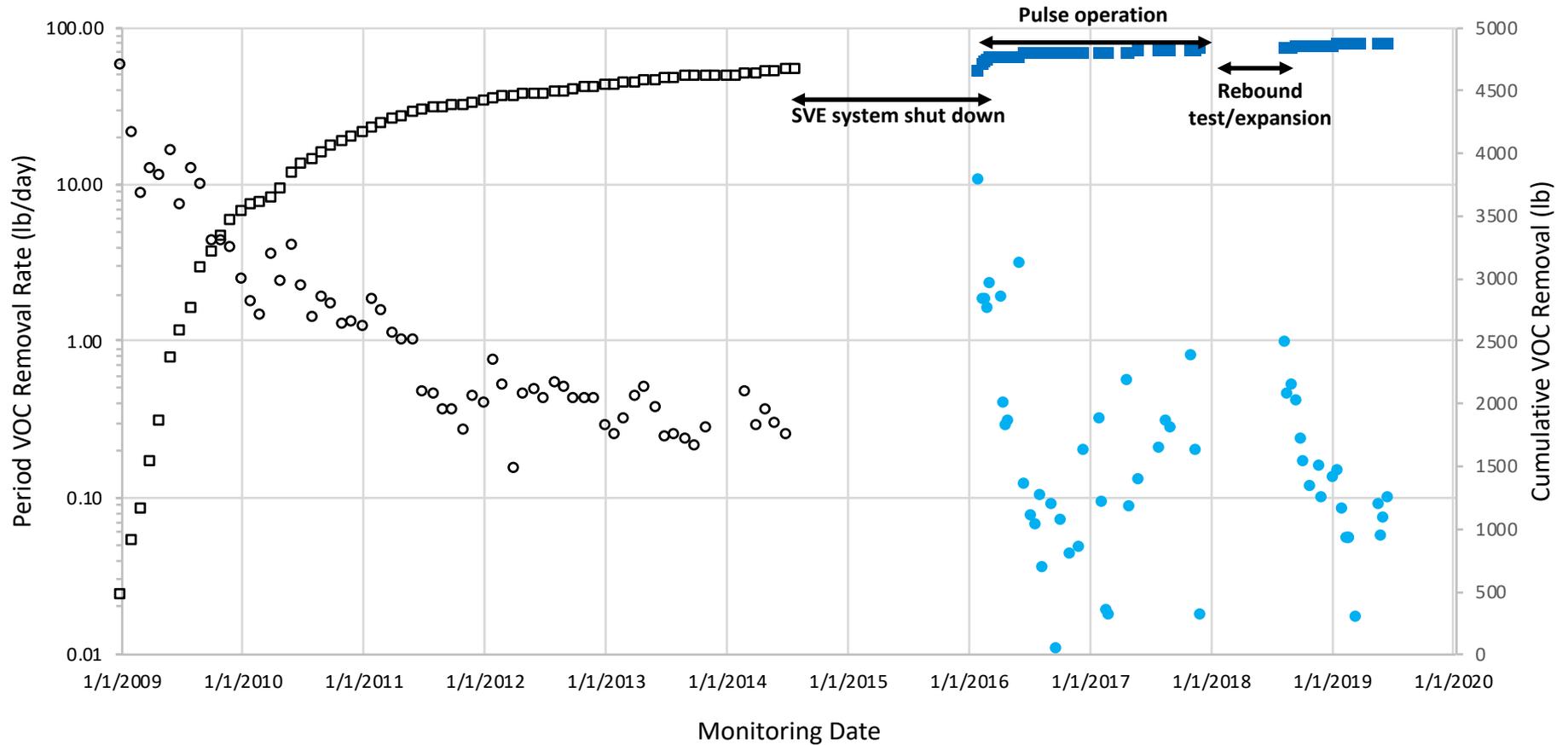


Influent Concentration Vs Time



SVE System Operation

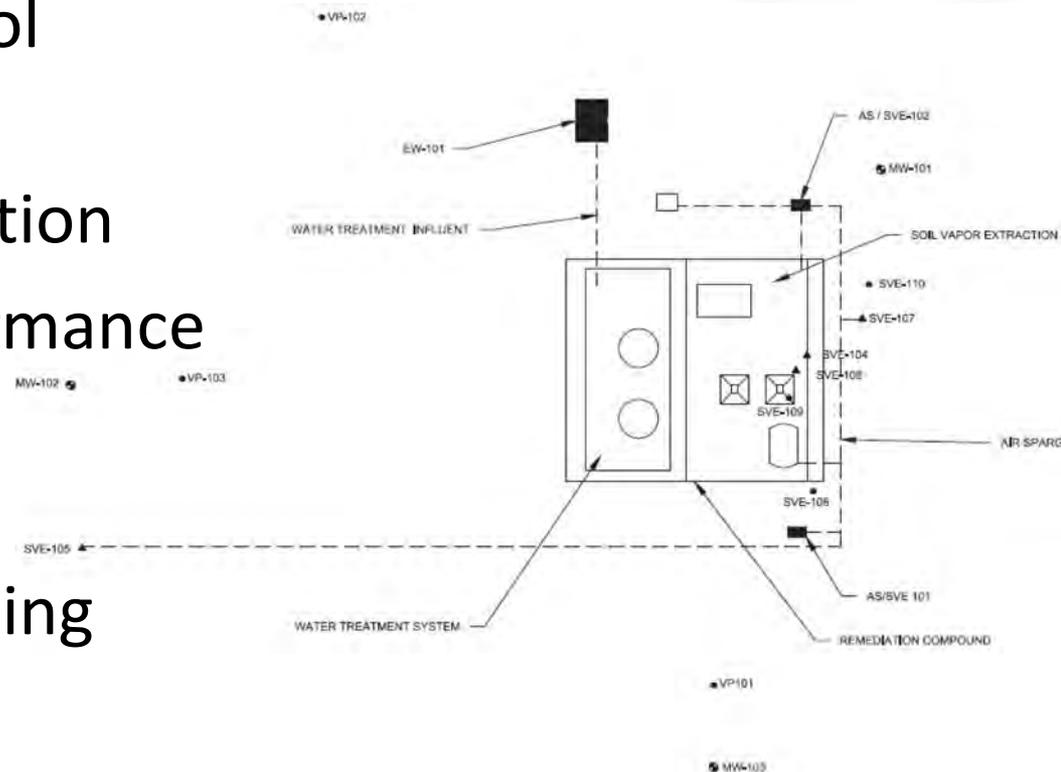
Mass Removal Vs Time



The purpose of the PRAP is to inform the public on the remedy selected from the alternatives evaluation performed during the feasibility study which addresses site-specific remedial objectives (ROs)

- Evaluation of arsenic (As) and copper (Cu) in soils
 - Goal: delineate and evaluate exposure routes of As and Cu
 - Field work completed in 2018
 - Findings:
 - Concentrations less than groundwater protection levels
 - ❖ No findings of historical groundwater exceedances
 - No exceedance of residential soil remediation levels above 20 feet below ground surface
 - Not impacting achievement of ROs, not considered contaminants of concern
 - \$0

- SVE Operation
 - Up to five years of run-time
 - Volatile organic compound (VOC) source control
 - Potential benefit to groundwater migration
 - Provision for performance optimization
 - Includes soil vapor confirmation sampling
 - \$980,000

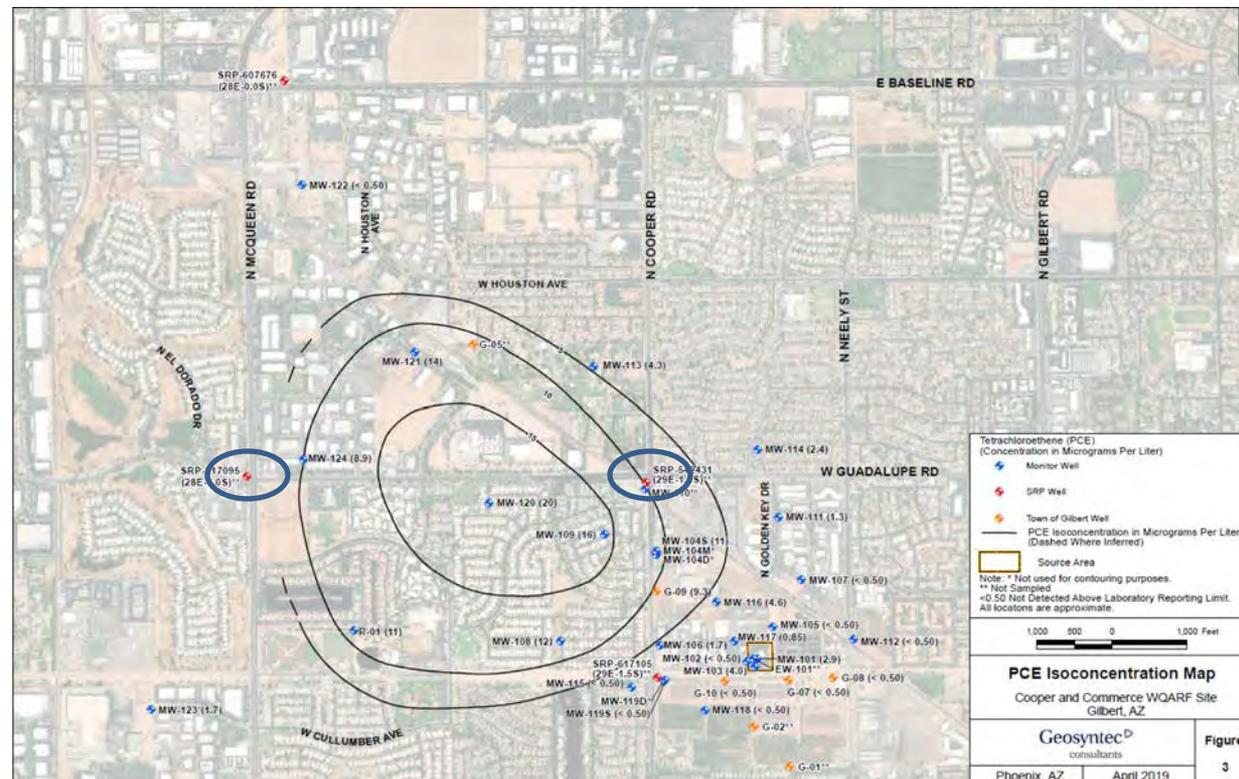


- Monitored Natural Attenuation (MNA)
 - Semiannual monitoring events
 - Up to 33 wells
 - Model estimate = 18 years
 - Provision for optimization as plume shrinks
 - \$2,600,000

- **Additional SVE/Risk Assessment or Rebound Test**
 - If soil vapor confirmation sampling shows VOCs in exceedance of standards
 - Additional five years SVE
 - ❖ \$2,600,000
 - Risk assessment
 - ❖ evaluate potential carcinogenic and non-carcinogenic health risks via exposure pathways
 - ❖ \$40,000
 - If soil vapor confirmation sampling shows VOCs in compliance with standards
 - Rebound test
 - \$20,000

Wellhead Treatment

- If COC concentrations exceed applicable drinking water standards at regulatory points of compliance due to Site groundwater impacts
 - SRP wells 28E-1.0S and 29E-1.0S
 - 30 years
 - \$33,000,000



■ Modified MNA

- If COC concentrations demonstrate steady decline and plume stability
 - Reduced monitoring network of 10 wells around plume periphery
 - 18 years
 - \$1,700,000
- If COC concentrations remain above standards
 - Additional 10 years MNA
 - \$1,700,000

PRAP – Cost Table

Table 3 - Summary of Estimated Costs for Proposed Remedy

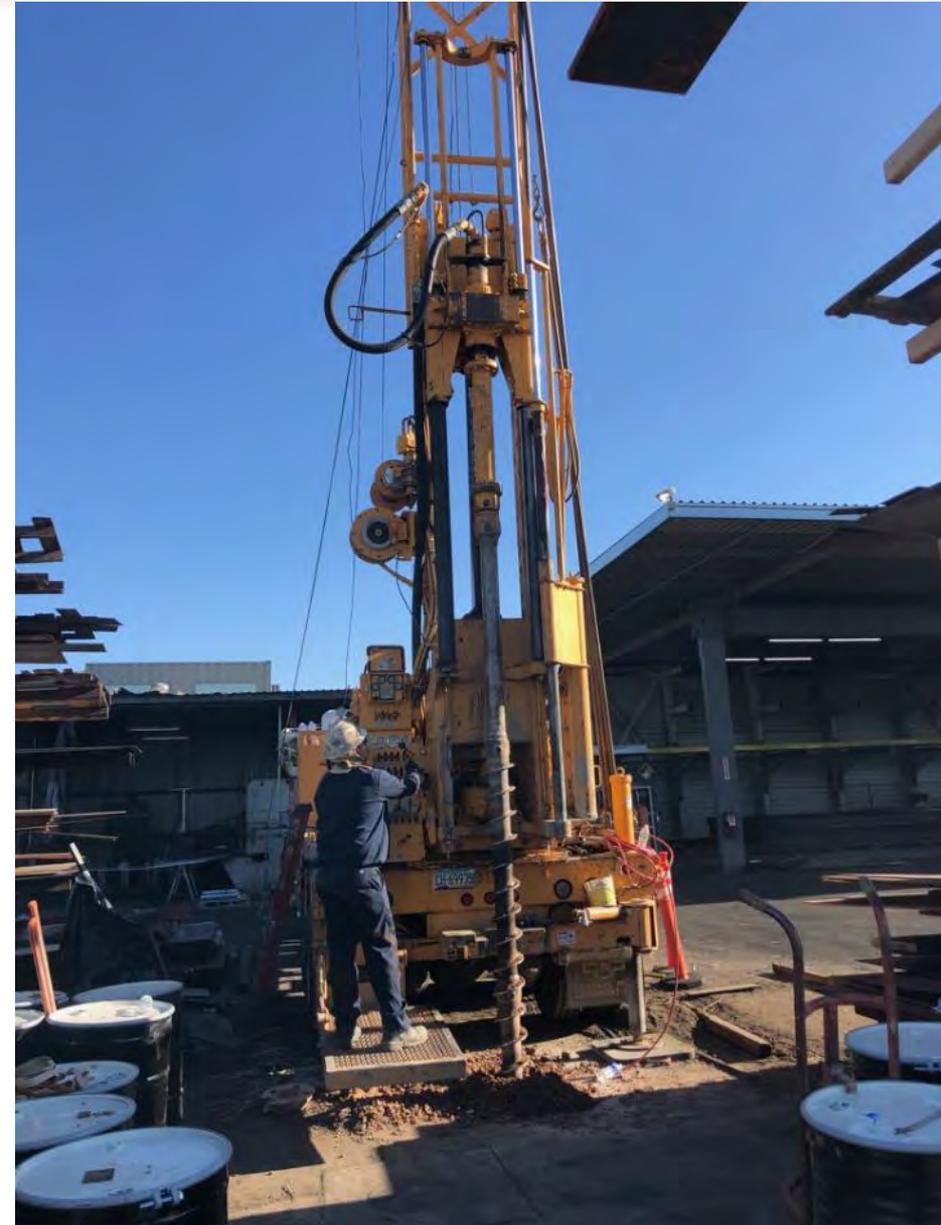
Remedial Technology	Cost
<i>Soil Vapor Extraction</i>	
Capital	\$180,000
Operation & Maintenance (up to 5 years)	\$630,000
20% Contingency	\$170,000
<u>Subtotal</u>	<u>\$980,000</u>
<i>MNA - Semiannual Groundwater Monitoring of Current Well Network</i>	
Capital	\$10,000
Annual Monitoring Costs (up to 18 years)	\$2,100,000
20% Contingency	\$430,000
<u>Subtotal</u>	<u>\$2,600,000</u>
<i>TOTAL</i>	<i>\$3,580,000</i>
Contingencies	
SVE OM&M (additional 5 years)	\$970,000
SVE Shutdown / Rebound Testing (1 year)	\$20,000
Vadose Zone VOC Risk Assessment	\$40,000
Wellhead Treatment for SRP Wells 28E-1.0S and 29E-1.0S (up to 30 years)	\$33,000,000
MNA - Annual Groundwater Monitoring of Reduced Well Network (18 years)	\$1,700,000
MNA - Semiannual Groundwater Monitoring of Current Well Network (additional 10 years)	\$1,700,000

Notes:

Cost assumes 3% annual inflation rate

Subtotals and contingencies rounded up to two significant figures

- Groundwater
 - Continued monitoring
- Soil
 - Soil vapor probes
 - Rebound test



- Questions?



Kyle Johnson, Project Manager

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