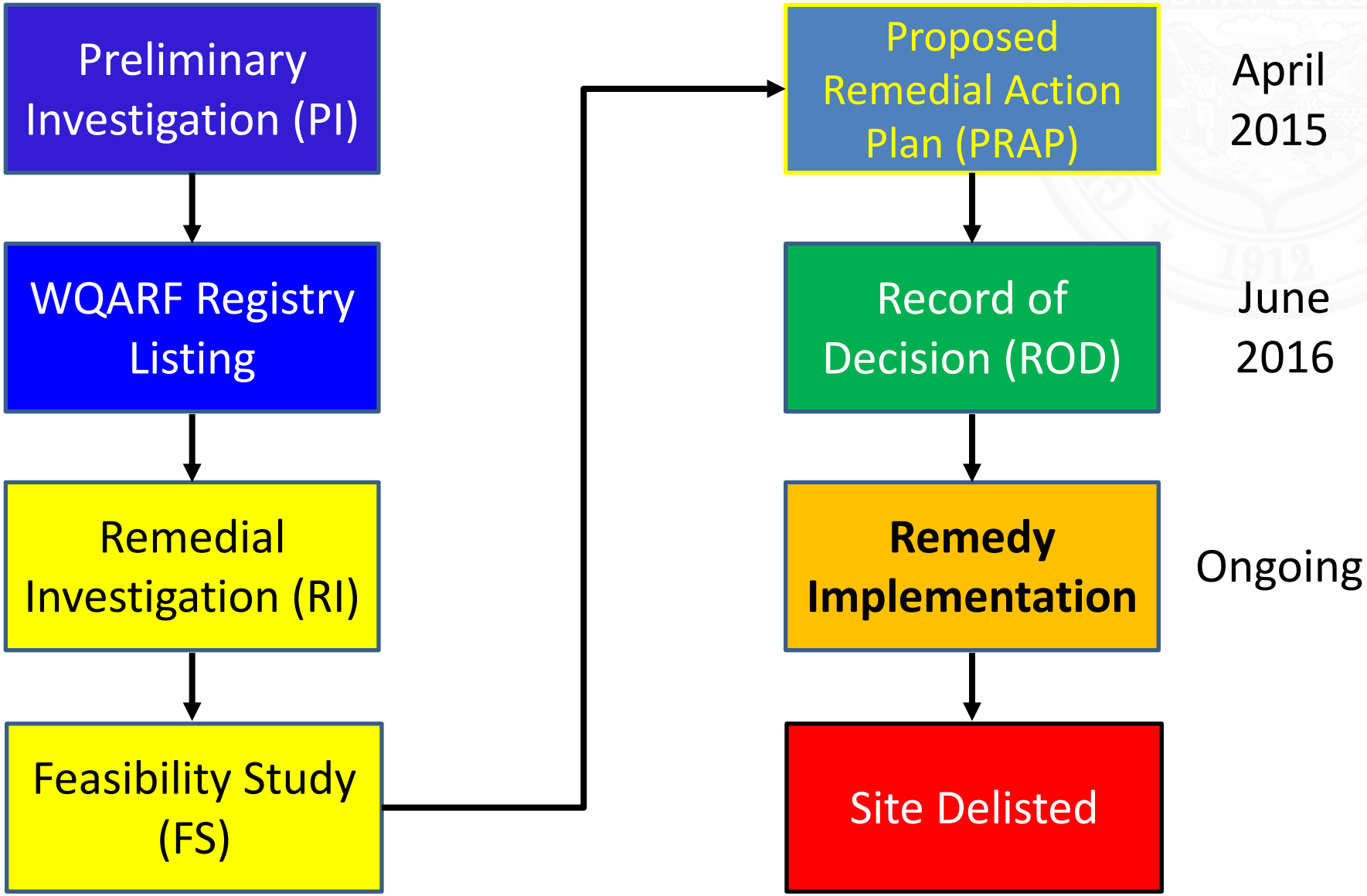
# 7th Avenue & Bethany Home Road WQARF Site Community Advisory Board Meeting March 21, 2018

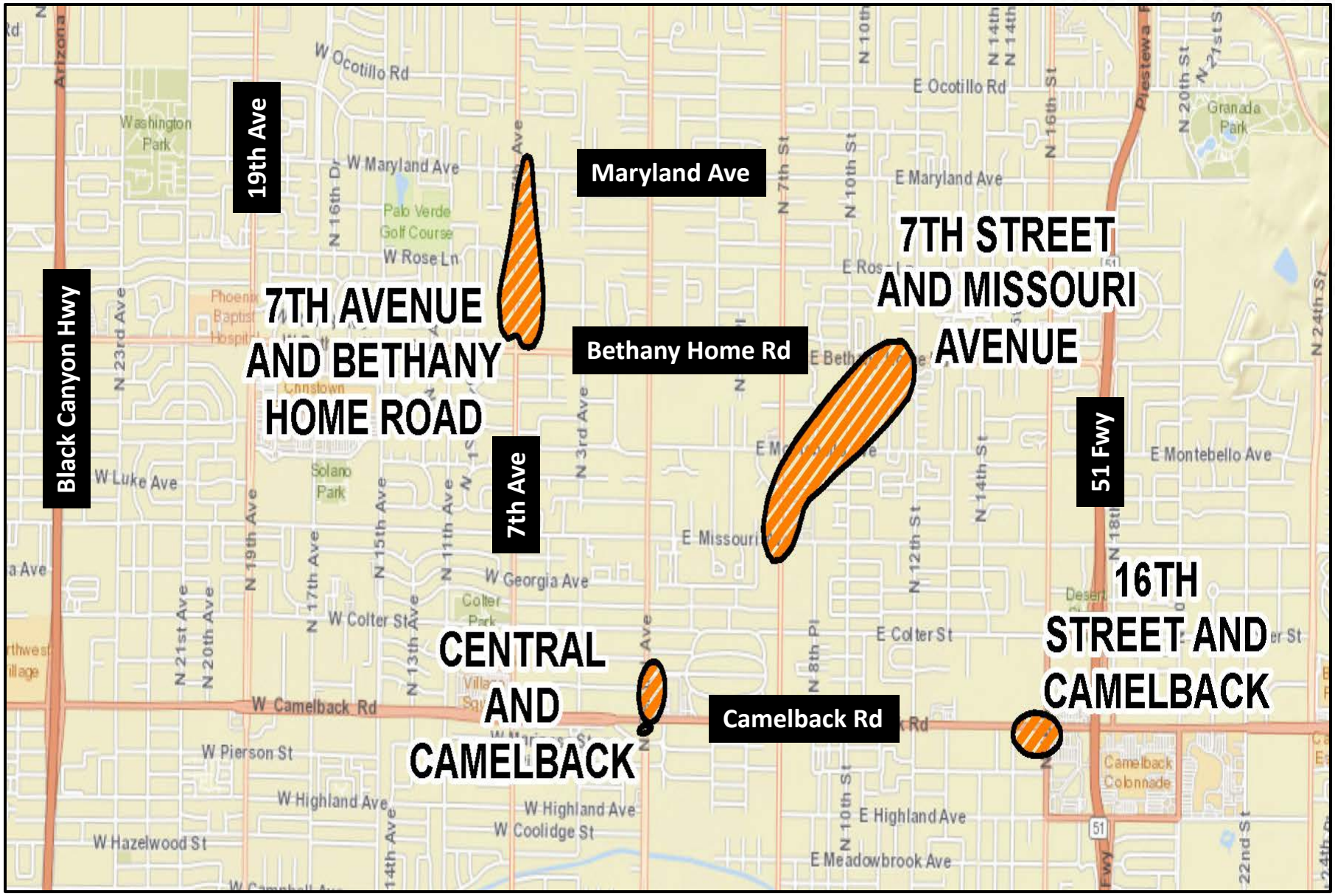
Project Update

ADEQ
Arizona Department of Environmental Quality

# WQARF Process



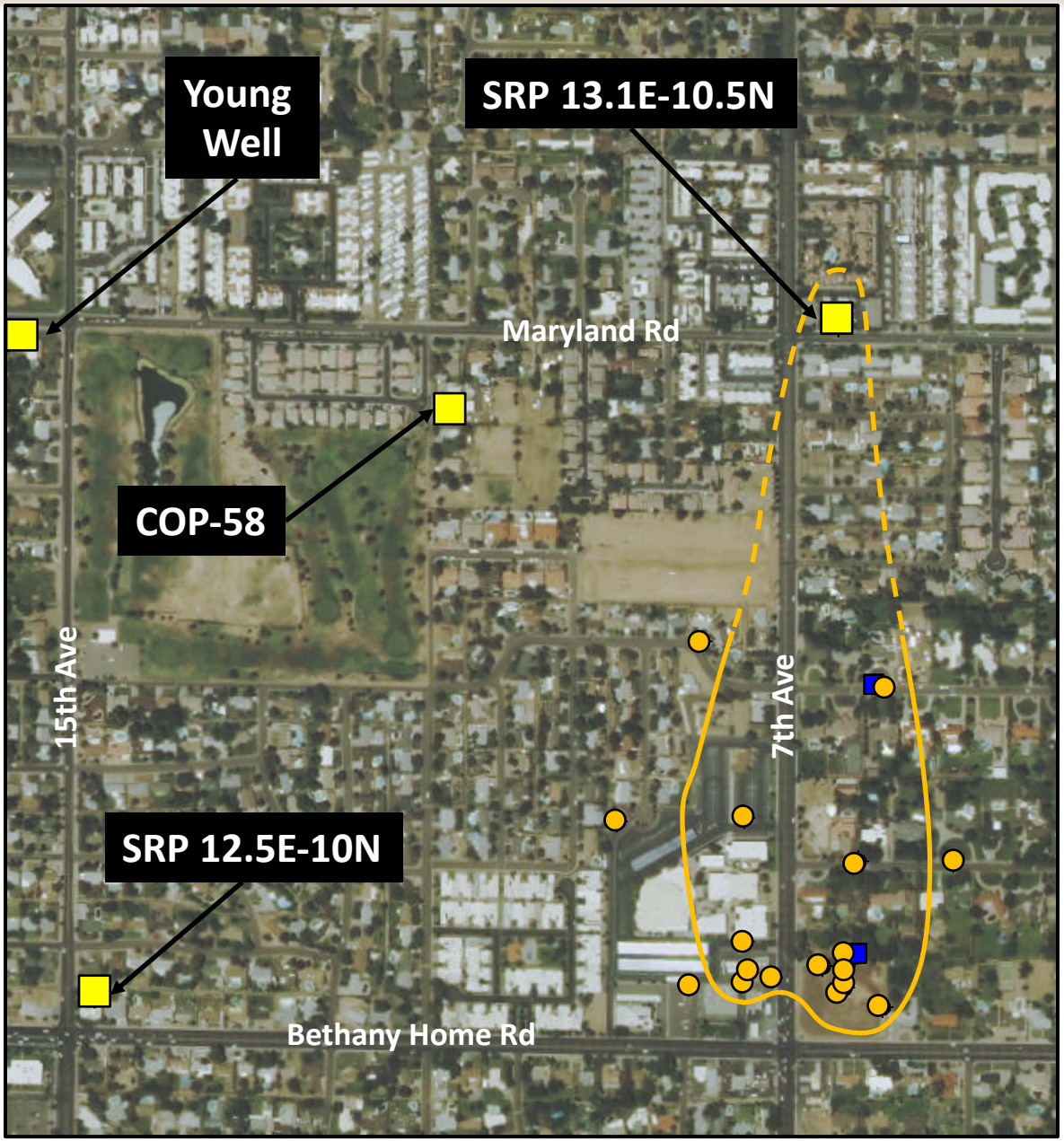
# Site Location Map



# Need For Remediation

- Groundwater Impacted with Concentrations of Tetrachloroethene (PCE) and Trichloroethene (TCE) at Concentrations Above the Aquifer Water Quality Standard (AWQS) of 5 Micrograms Per Liter (ug/L)
- Groundwater Source of Potable Water

# PCE Groundwater Concentrations




- Water Supply Well
- Shallow Monitoring Well
- Deep Monitoring Well
- Concentration Contour (5 ug/L)

January 2018

PCE = <0.5 to 2,000 ug/L

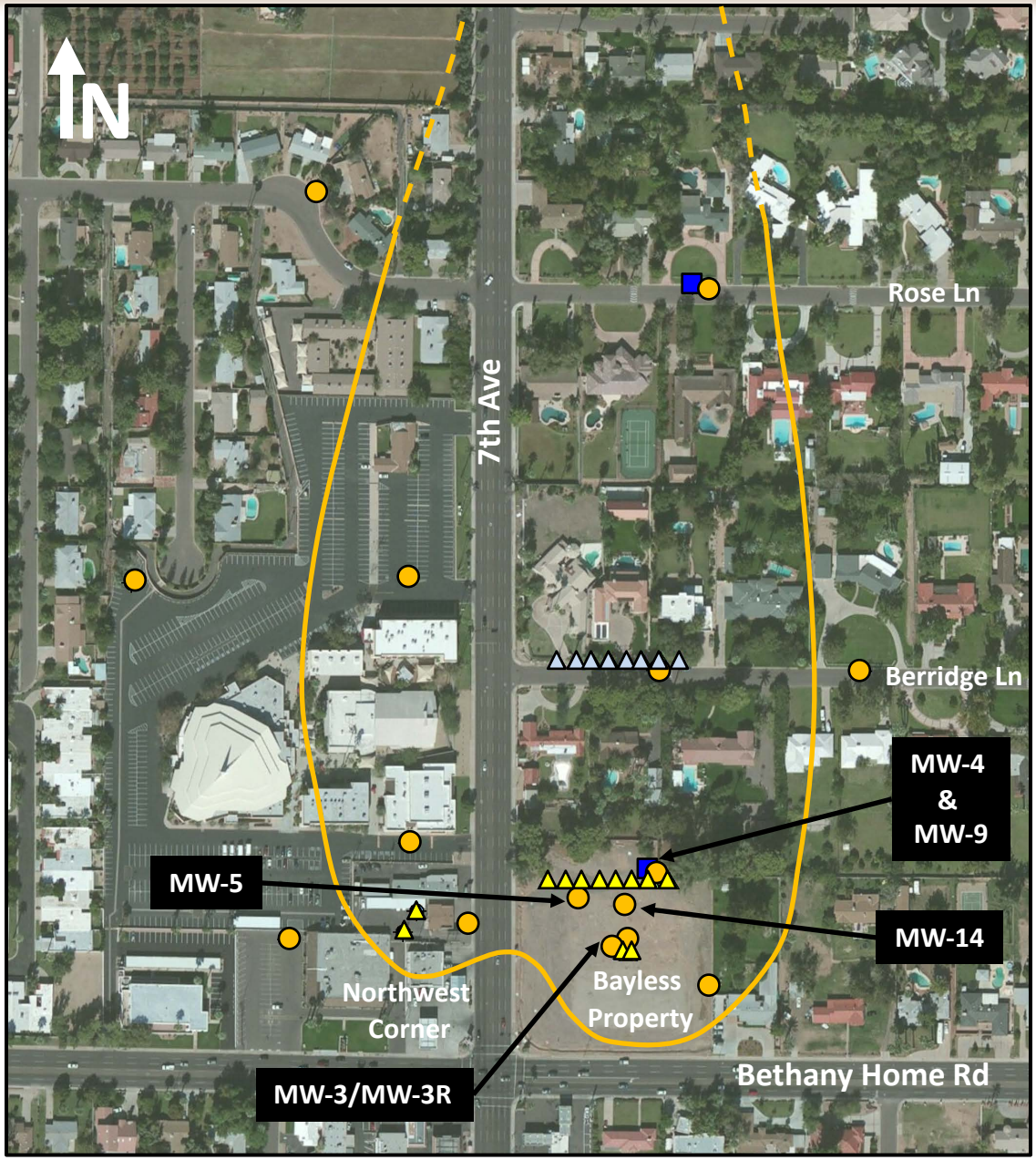
TCE = <0.5 to 5.5 ug/L

Groundwater Flow Direction is North-Northwest

# ROD – Approved Remedial Action

- In-Situ Enhanced Reductive Dechlorination (ERD)
  - Injection of Emulsified Vegetable Oil (Carbon Source for Naturally Occurring Microbes in the Groundwater)
  - Injection Depths (85 to 100 & 105 to 125 feet below ground surface)
- Monitored Natural Attenuation (MNA)
  - Groundwater Monitoring & Sampling
- Contingency for Wellhead Treatment at SRP Well

# Site Detail Map




Existing Injection Well

Proposed Injection Well

Shallow Monitoring Well

Deep Monitoring Well

Concentration Contour (5 ug/L)

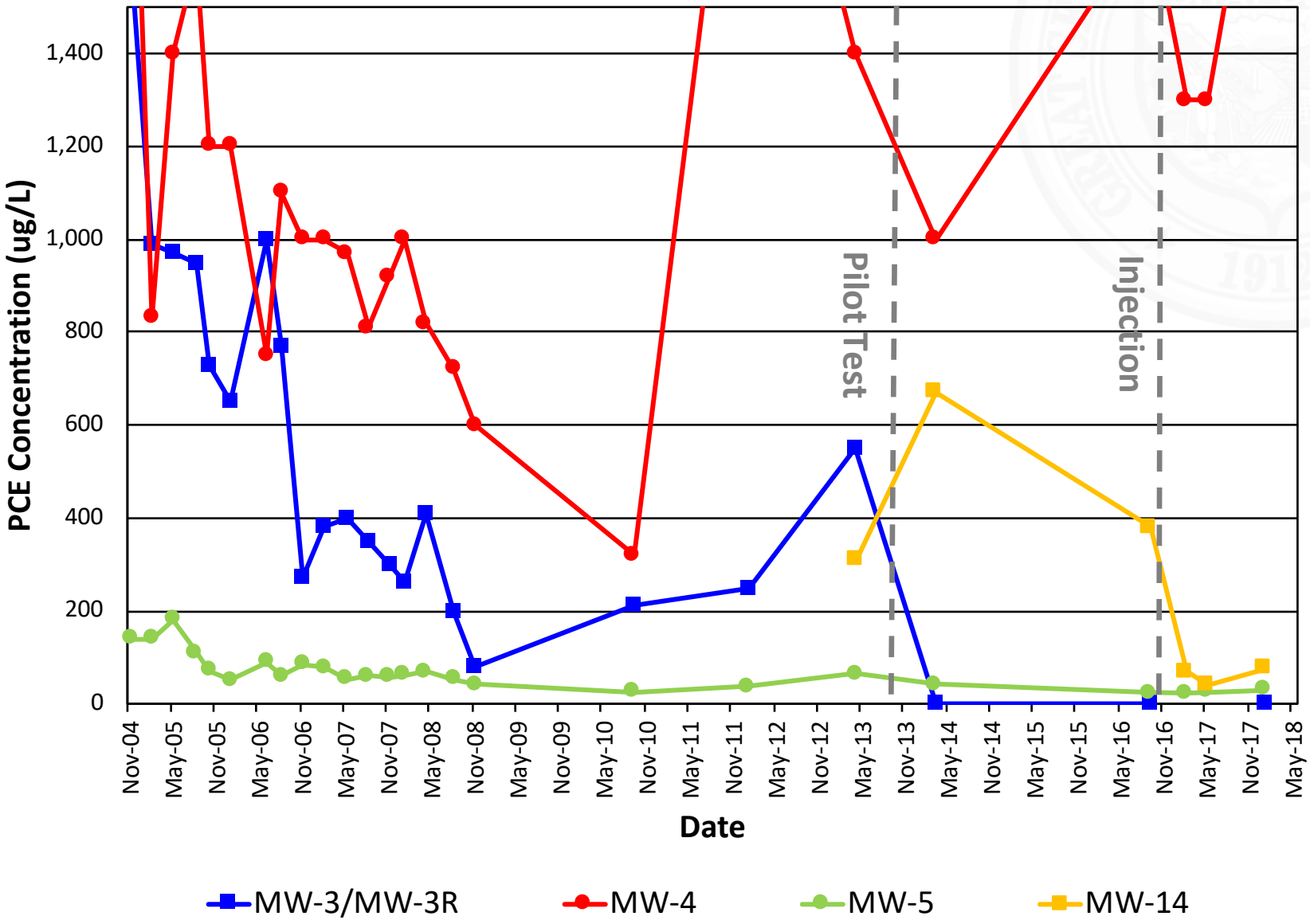
Groundwater Flow Direction is North-Northwest

# Recent Site Activities

- Installation of Injection Wells at Bayless Property (2016)
- Conducted Initial Injections at Bayless Property (November 2016)
- Conducted Initial Injections at Northwest Corner (November 2017)
- Groundwater Sampling (Most Recent in January 2018)

# Injections At Bayless Property

# Bayless Property Groundwater Trends



# Current/Future Activities

- Installation of Injection Wells / Treatment Pipeline Along Berridge Lane (Estimated Completion June 2018)
- Adjust Injection Fluid Recipe to Improve Degradation Rate
- Injections at Bayless Property, Northwest Corner, & Berridge Lane
- Groundwater Monitoring & Sampling

# Questions/Contact Information

## Questions?

**Contact Information:**

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