

## HTW BCT, May 19, 2023

### Remedial Summary

- **A-Aquifer:**
  - **8 COCs:** 1,1-DCE; Total 1,2-DCE; CT; chloroform; methylene chloride; PCE; TCE; and VC.
  - **Remediation:** EISB.
- **Upper 180-Foot Aquifer:**
  - **1 COC:** CT
  - **Remediation:** Pump and treat with GAC at OU2 GWTP since 2011. Operation split the single plume in half. However, CT never detected above the ACL at EW-OU2-09-180.
- **Lower 180-Foot Aquifer:**
  - **2 COCs:** 1,2-DCA and CT. TCE monitored as well.
  - **Remediation:** MNA with supply wellhead treatment contingency.
- **Monitoring:** Quarterly groundwater monitoring and reporting, including annual 3Q monitoring and reports. Described in the most recent Groundwater QAPP.

### Feb-May Key Events

- Feb 13-17: First Quarter 2023 GWMP event.
- May 15-19: Second Quarter 2023 GWMP event.

### Future Key Events

- Install three monitoring wells in the A-Aquifer Hydraulic Zone 5 (draft final work plan in review).
- Install three monitoring wells in the A-Aquifer Hydraulic Zone 2 (proposal in progress).
- Install one extraction well in the Upper 180-Foot Aquifer (draft Remedial Design Addendum in progress).

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## GWM COC Summary

**Table 1:** OUCTP GWM Summary – A-Aquifer

Quarter	1,1-DCE	T 1,2-DCE	CT	Chloroform	Methylene Chloride	PCE	TCE	VC
2023-1Q	ND	<ACL	>ACL	<ACL	ND	<ACL	<ACL	ND
2022-4Q	ND	<ACL	>ACL	<ACL	<ACL	ND	<ACL	ND
2022-3Q	ND	<ACL	>ACL	>ACL	<ACL	ND	<ACL	ND
2022-2Q	ND	<ACL	>ACL	>ACL	<ACL	ND	<ACL	ND
Max COC/ACL Ratio	-	-	<b>17.8</b>	<b>1.5</b>	-	-	-	-
Hydraulic Zone	-	-	<b>5</b>	<b>4</b>	-	-	-	-

**Table 2:** OUCTP GWM Summary – Upper 180-Foot Aquifer

Quarter	CT
2023-1Q	>ACL
2022-4Q	>ACL
2022-3Q	>ACL
2022-2Q	>ACL
Max COC/ACL Ratio	<b>14.6</b>
Hydraulic Zone	<b>6</b>

**Table 3:** OUCTP GWM Summary – Lower 180-Foot Aquifer

Quarter	CT	TCE	1,2-DCA
2023-1Q	>ACL	>ACL	ND
2022-4Q	>ACL	<ACL	ND
2022-3Q	>ACL	>ACL	ND
2022-2Q	>ACL	>ACL	ND
Max COC/ACL Ratio	<b>8.6</b>	<b>2.2</b>	-
Hydraulic Zone	<b>7</b>	N/A	-

**Notes:**

>: greater than

<: less than

ACL: Aquifer Cleanup Level

1,1-DCE: 1,1-dichloroethene

T 1,2-DCE: total 1,2-dichloroethene

1,2-DCA: 1,2-dichloroethane

CT: carbon tetrachloride

TCE: trichloroethene

PCE: tetrachloroethene

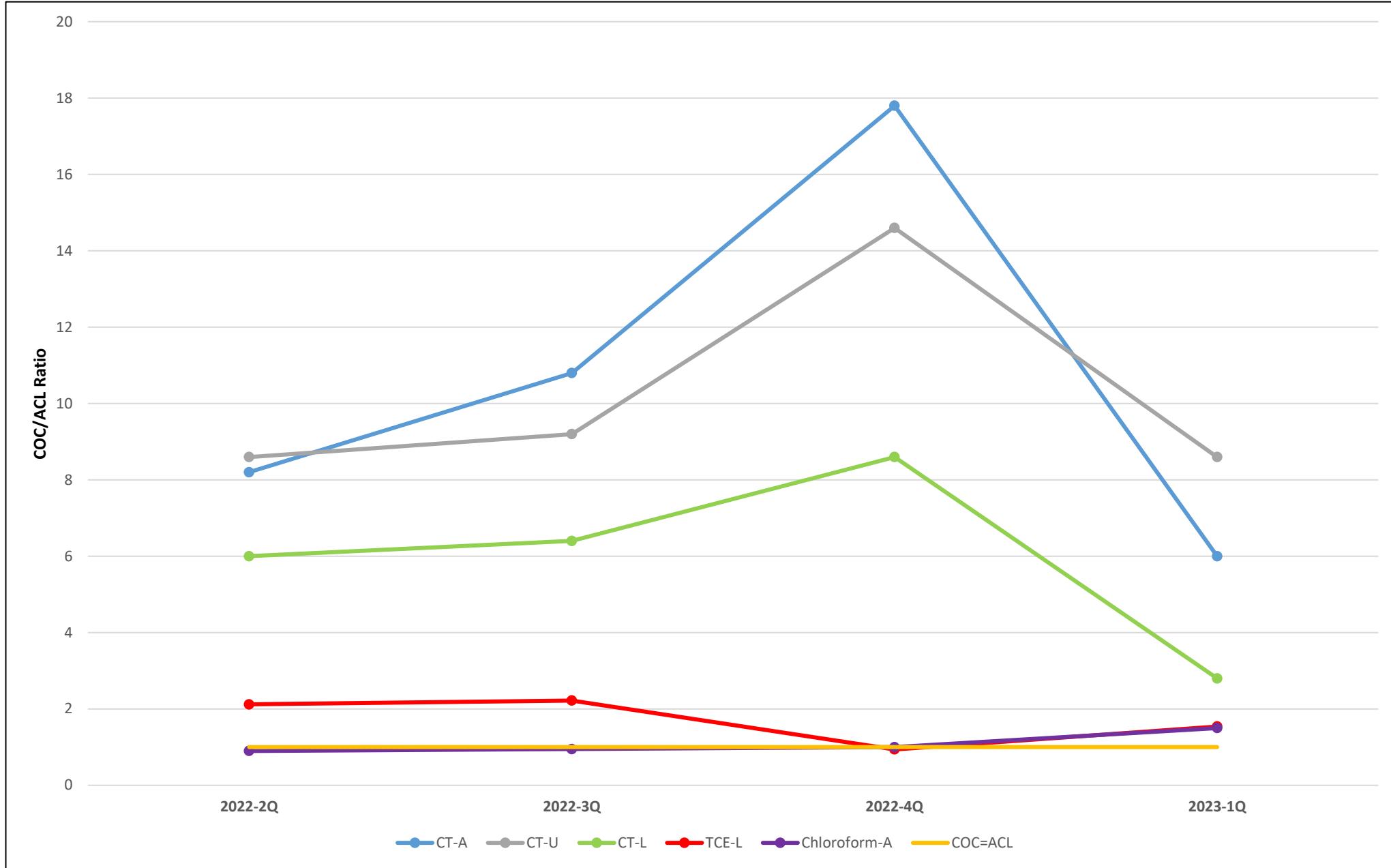
VC: vinyl chloride

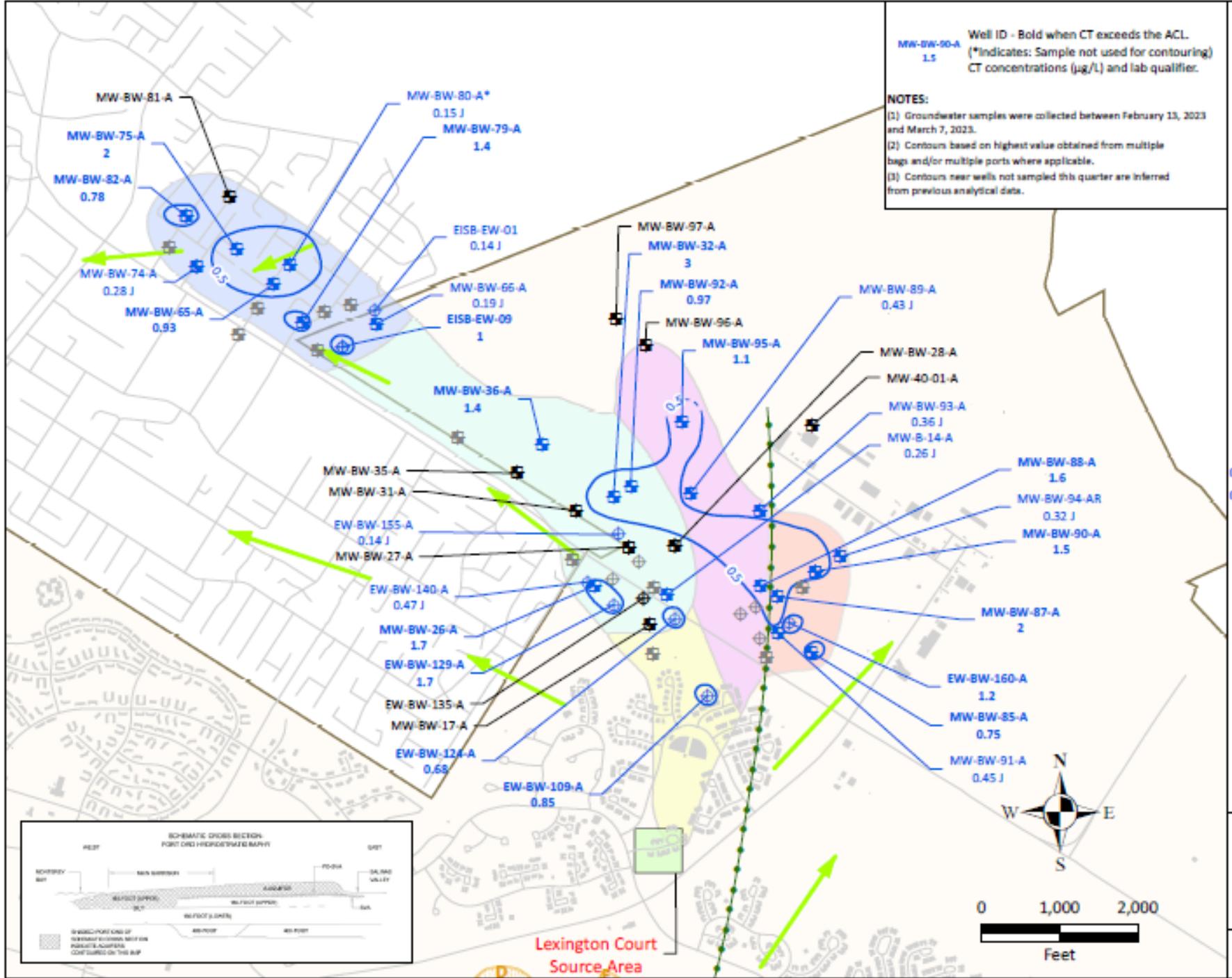
ND: The analyte was not detected above the detection limit.

2 COCs in the A-Aquifer, 1 in the Upper 180-Foot Aquifer, and 2 in the Lower 180-Foot Aquifer above the ACLs.

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## Max Quarterly COC/ACL Ratio Trend

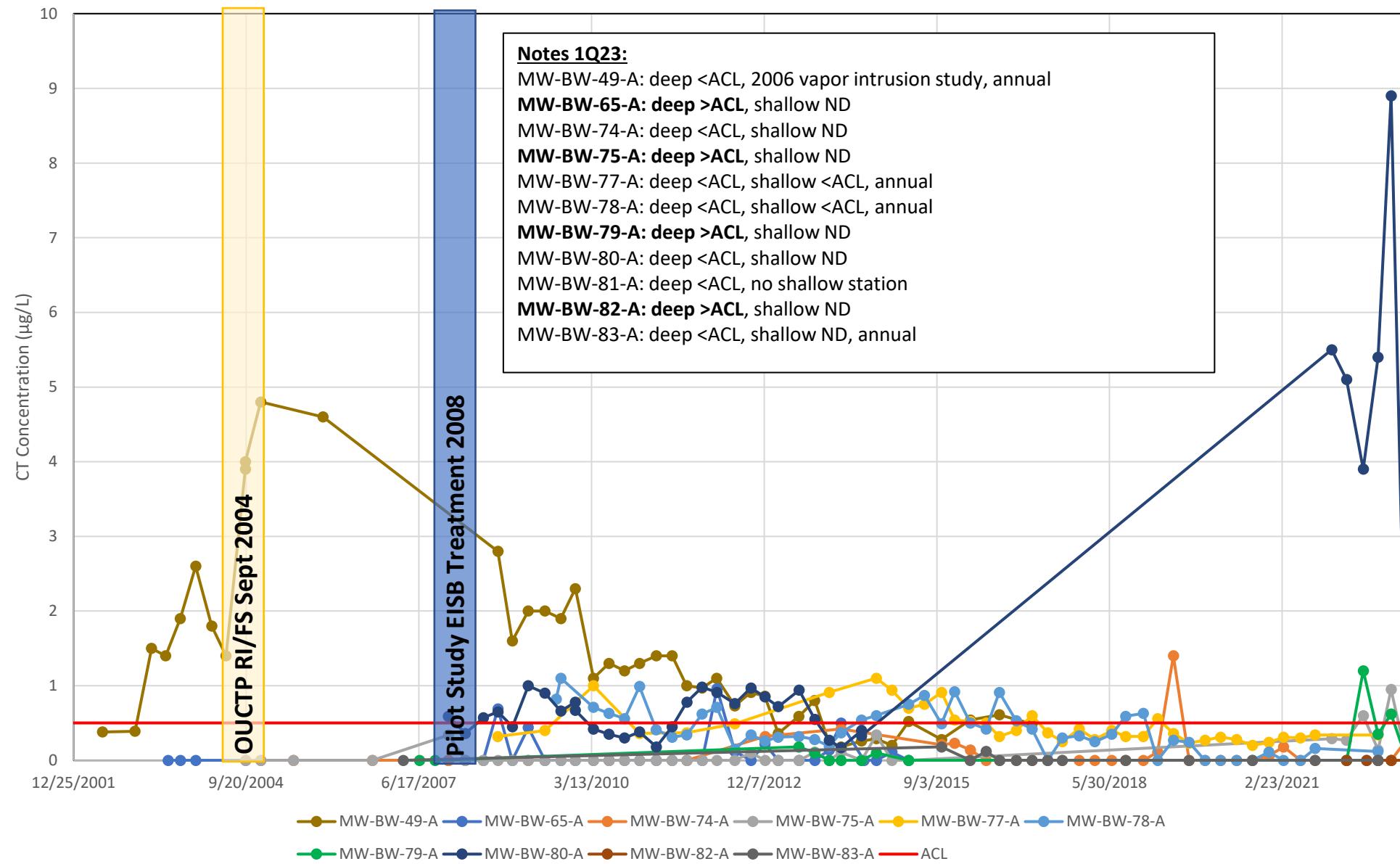


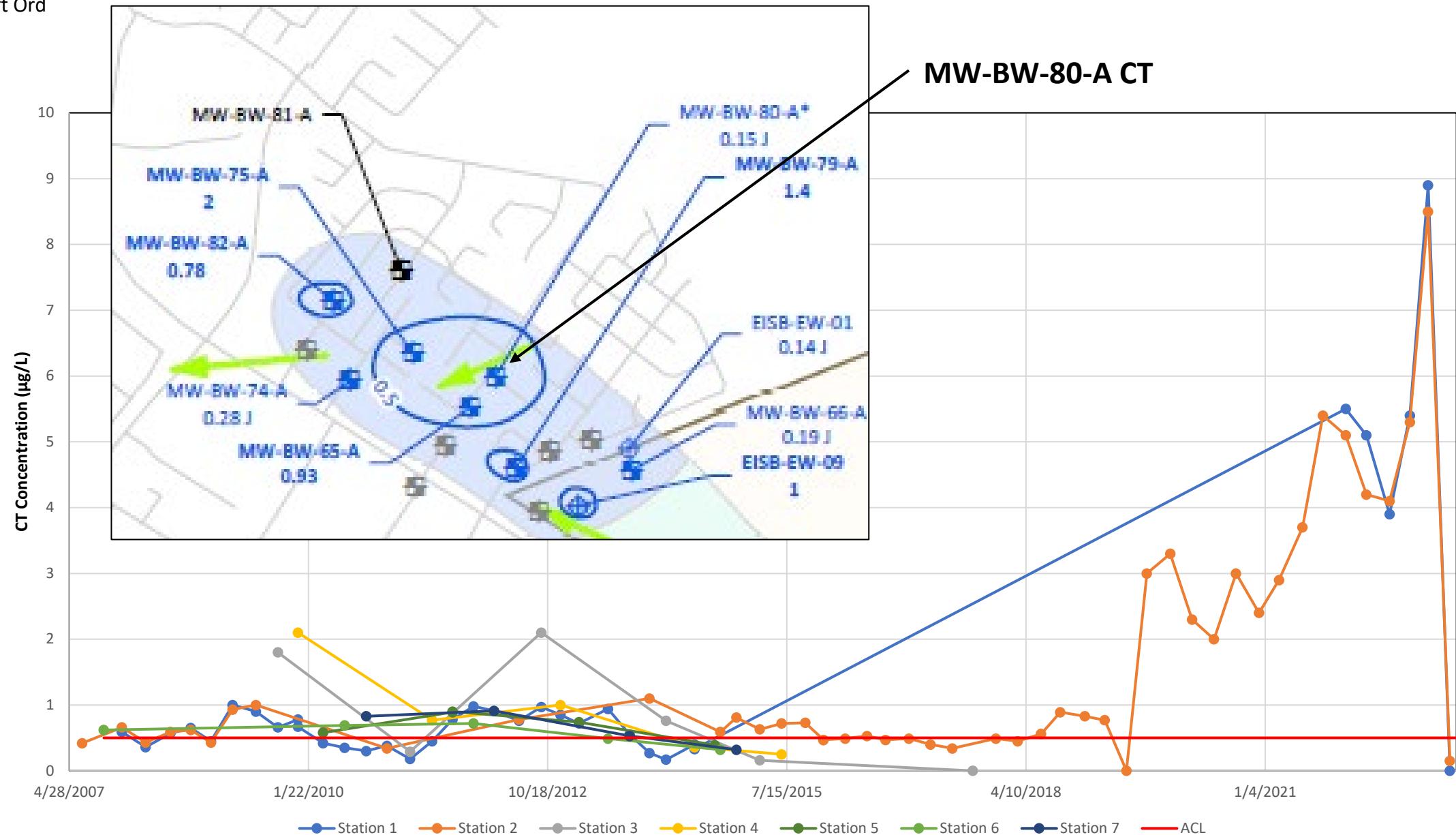


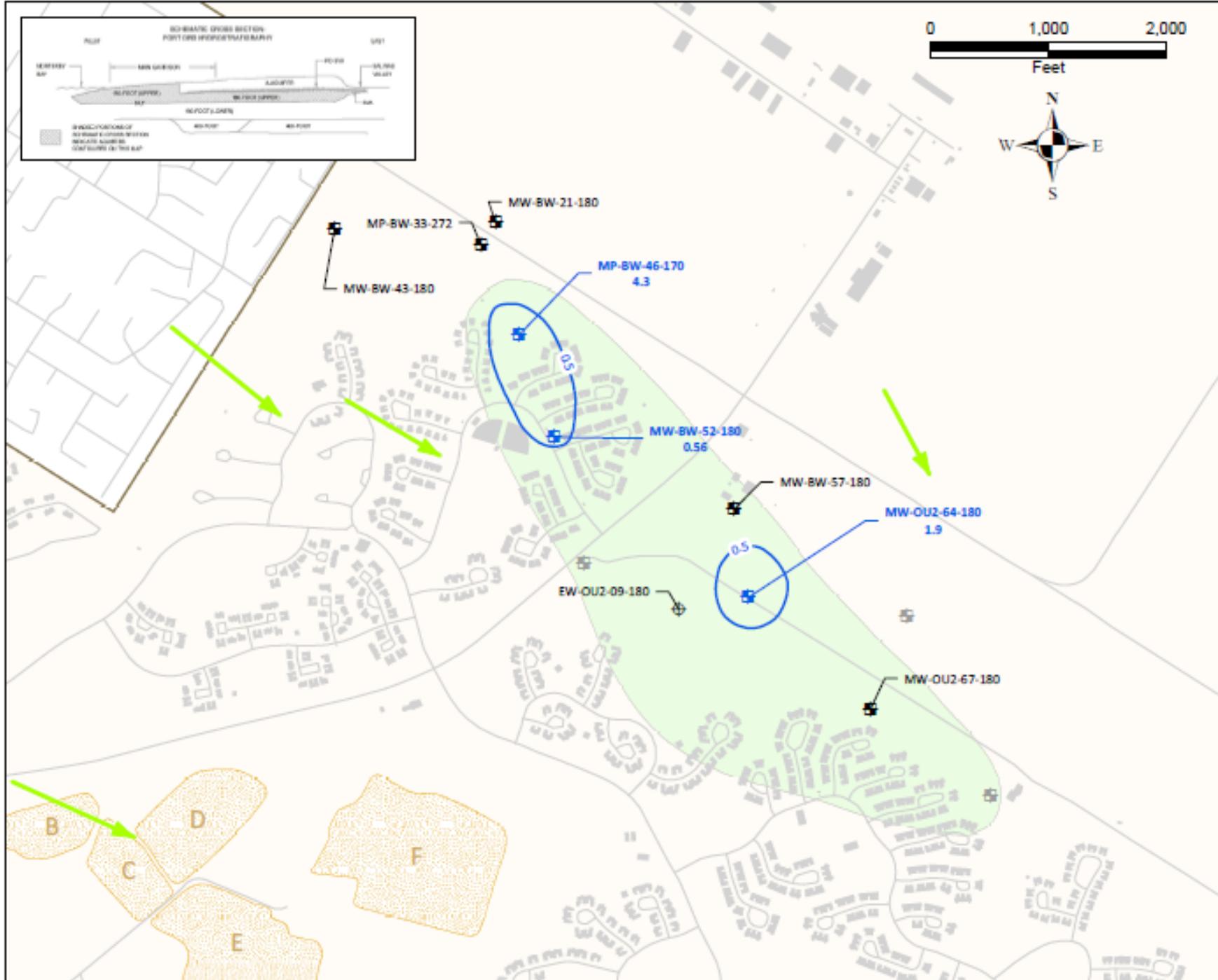
**CT CONCENTRATIONS**  
**A-AQUIFER**  
**FIRST QUARTER 2023**  
 Operable Unit Carbon Tetrachloride Plume  
 First Quarter 2023 Groundwater Monitoring Report  
 Former Fort Ord, California

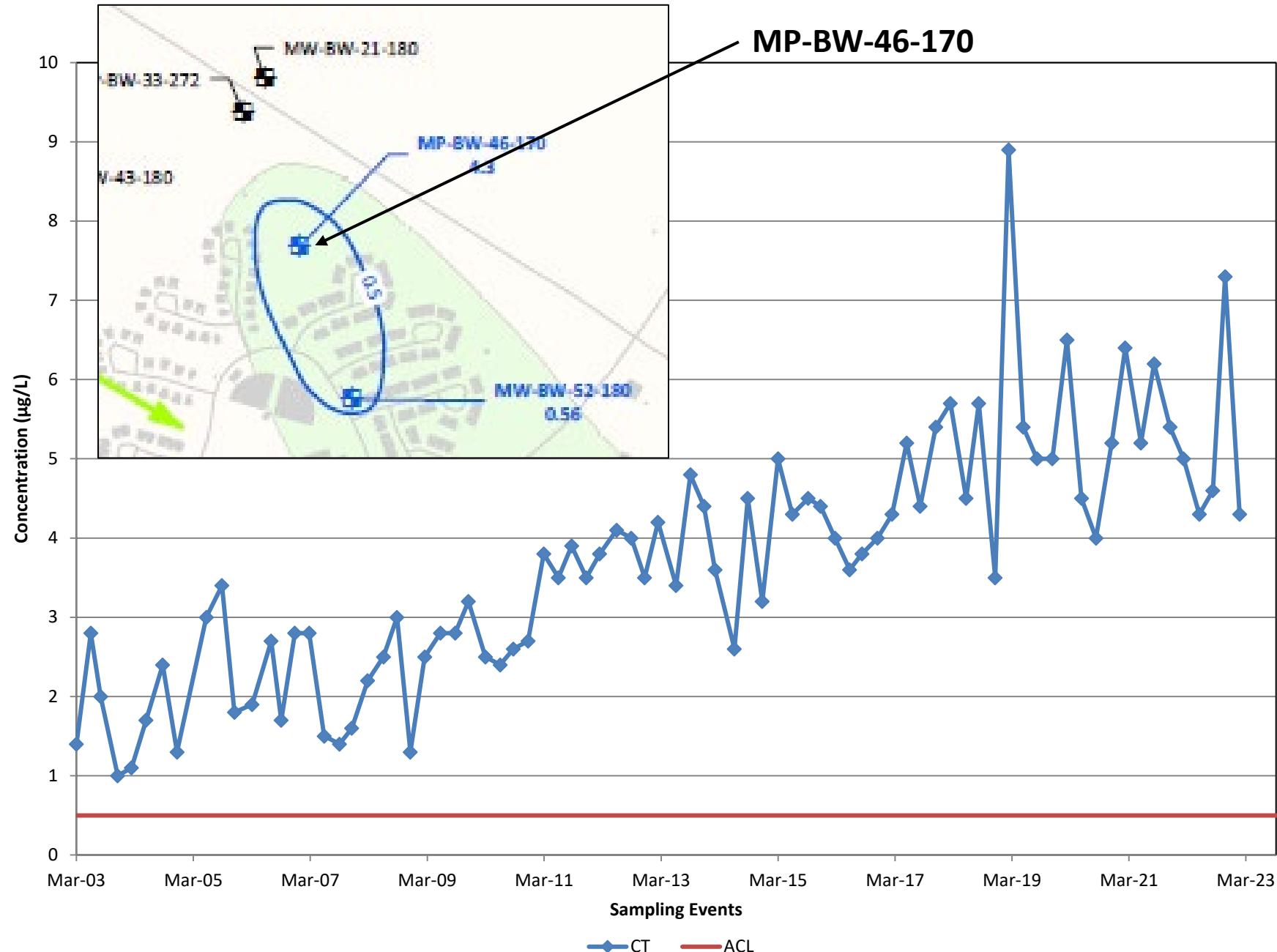
Ahtna Date: 4/21/2023 Figure: 4

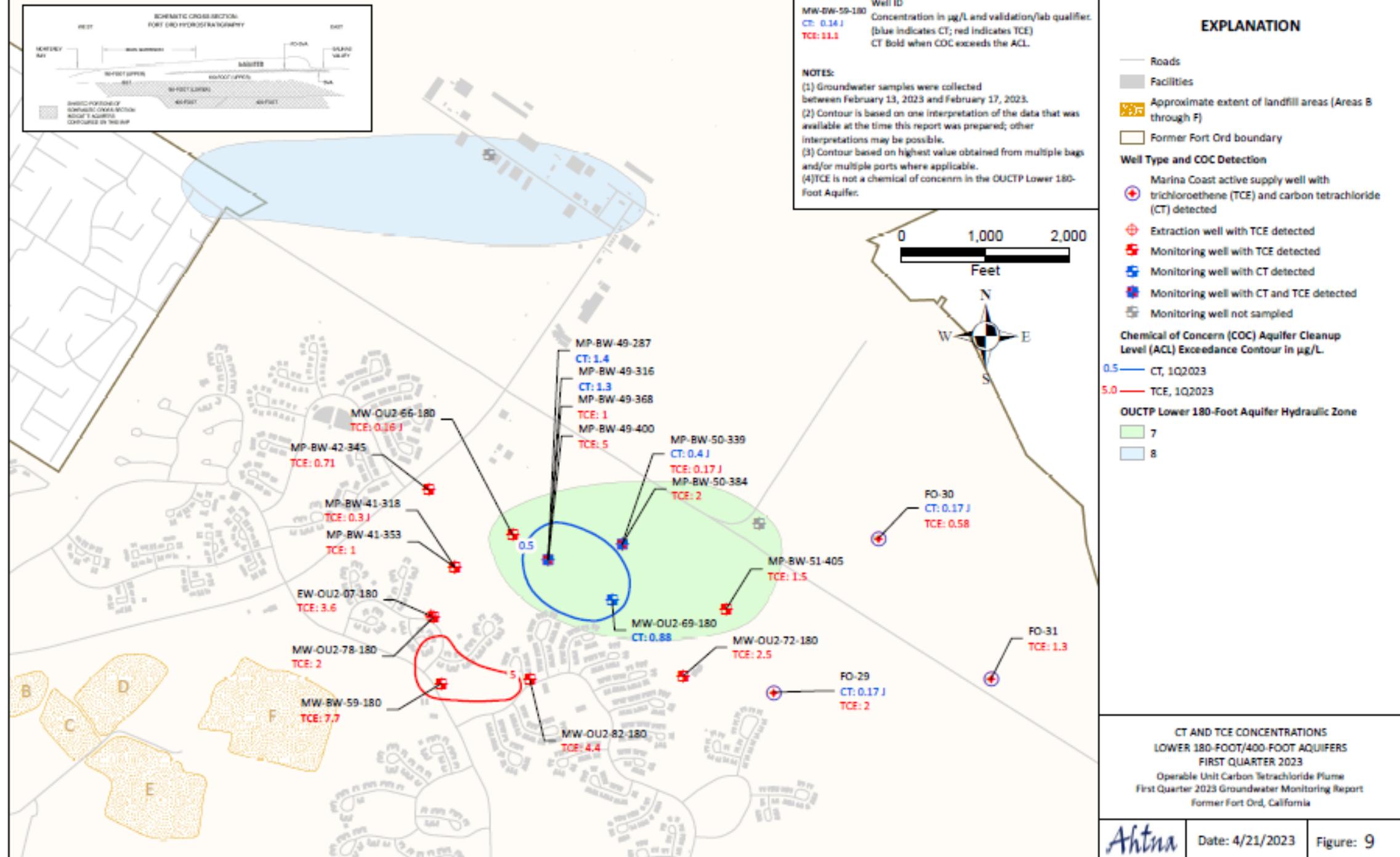
### CT Shallow Stations: City of Marina HZ 5

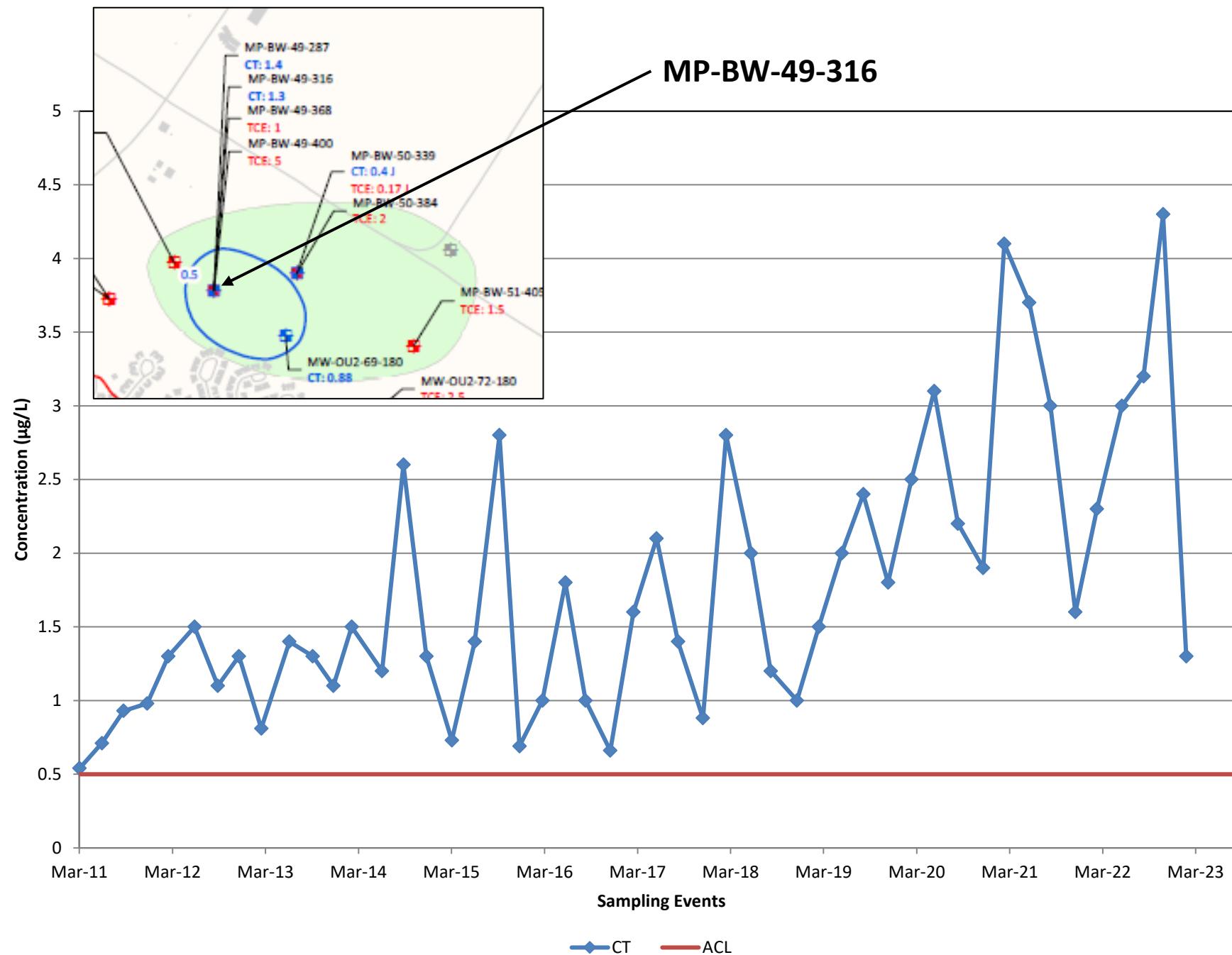


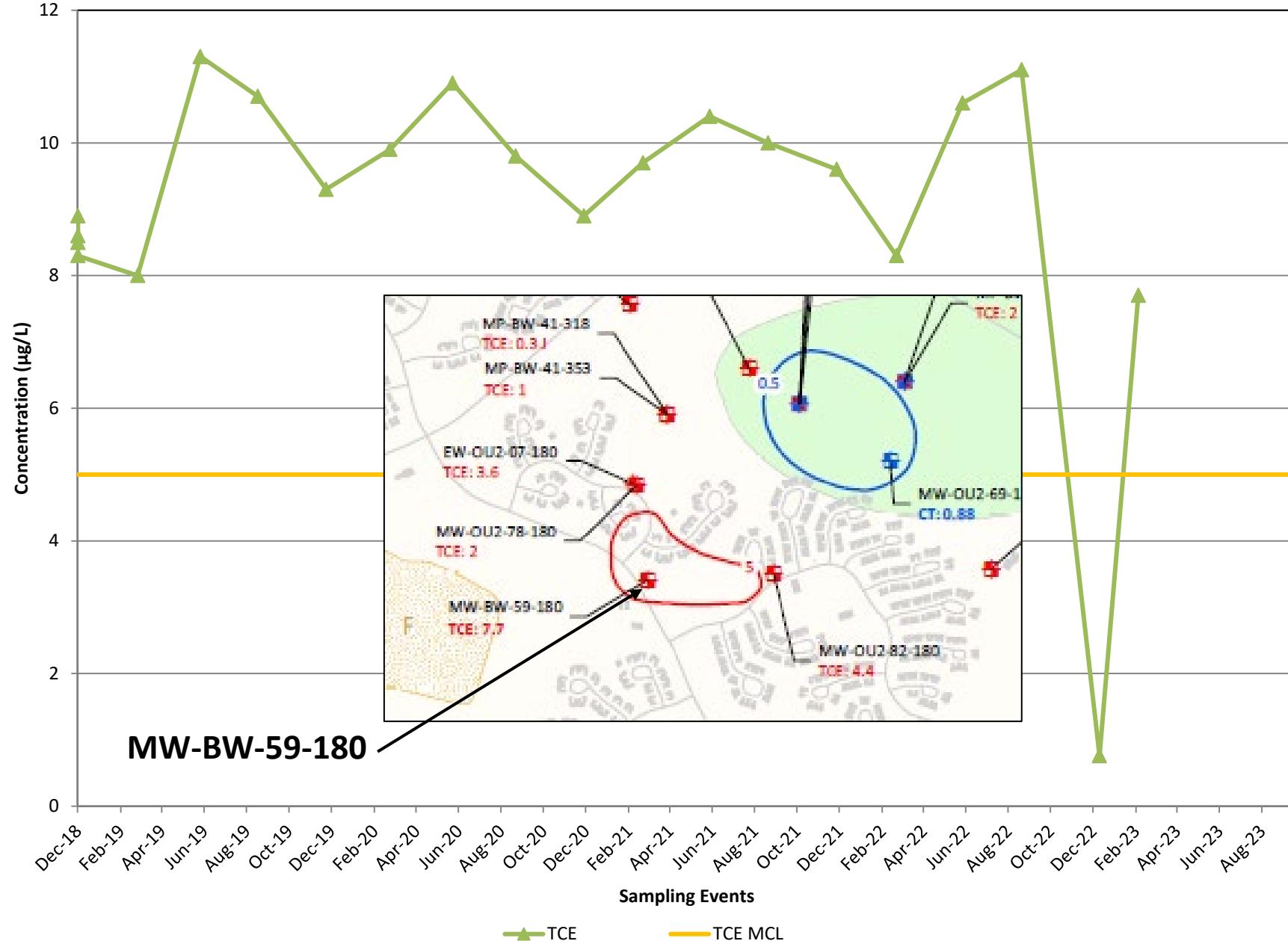












## TCE in the Lower 180-Foot Aquifer

