

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 also.
 - **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.

May-June Key Events

- May 13-17: Second Quarter 2024 GWMP event.
- June 18: Started installation of extraction well EW-OU2-13-180 in the Upper 180-Foot Aquifer.
- June 30: Completed installation of EW-OU2-13-180: screen interval 174-220 ft bgs.

Future Key Events

- Complete EW-OU2-13-180 activities:
 - Development and specific capacity testing.
 - Profile sampling of screen interval.
 - Conduit and conveyance install.
 - Submersible pump and vault install.
 - Connect to OU2 GWTS, testing, baseline sampling.
 - O&M, long-term performance monitoring.
- Install three monitoring wells in the A-Aquifer Hydraulic Zone 5.

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
2024-2Q	ND	ND	>ACL	<ACL	ND	<ACL	<ACL	>ACL
2024-1Q	ND	<ACL	>ACL	<ACL	ND	ND	<ACL	ND
2023-4Q	ND	<ACL	>ACL	<ACL	ND	<ACL	<ACL	>ACL
2023-3Q	ND	<ACL	>ACL	<ACL	ND	<ACL	<ACL	ND
Max COC/ACL Ratio	-	-	8	-	-	-	-	4
Hydraulic Zone	-	-	5	-	-	-	-	2

Notes:

*Preliminary data
 >: 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.

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

Quarter	CT
2024-2Q	>ACL
2024-1Q	>ACL
2023-4Q	>ACL
2023-3Q	>ACL
Max COC/ACL Ratio	7
Hydraulic Zone	6

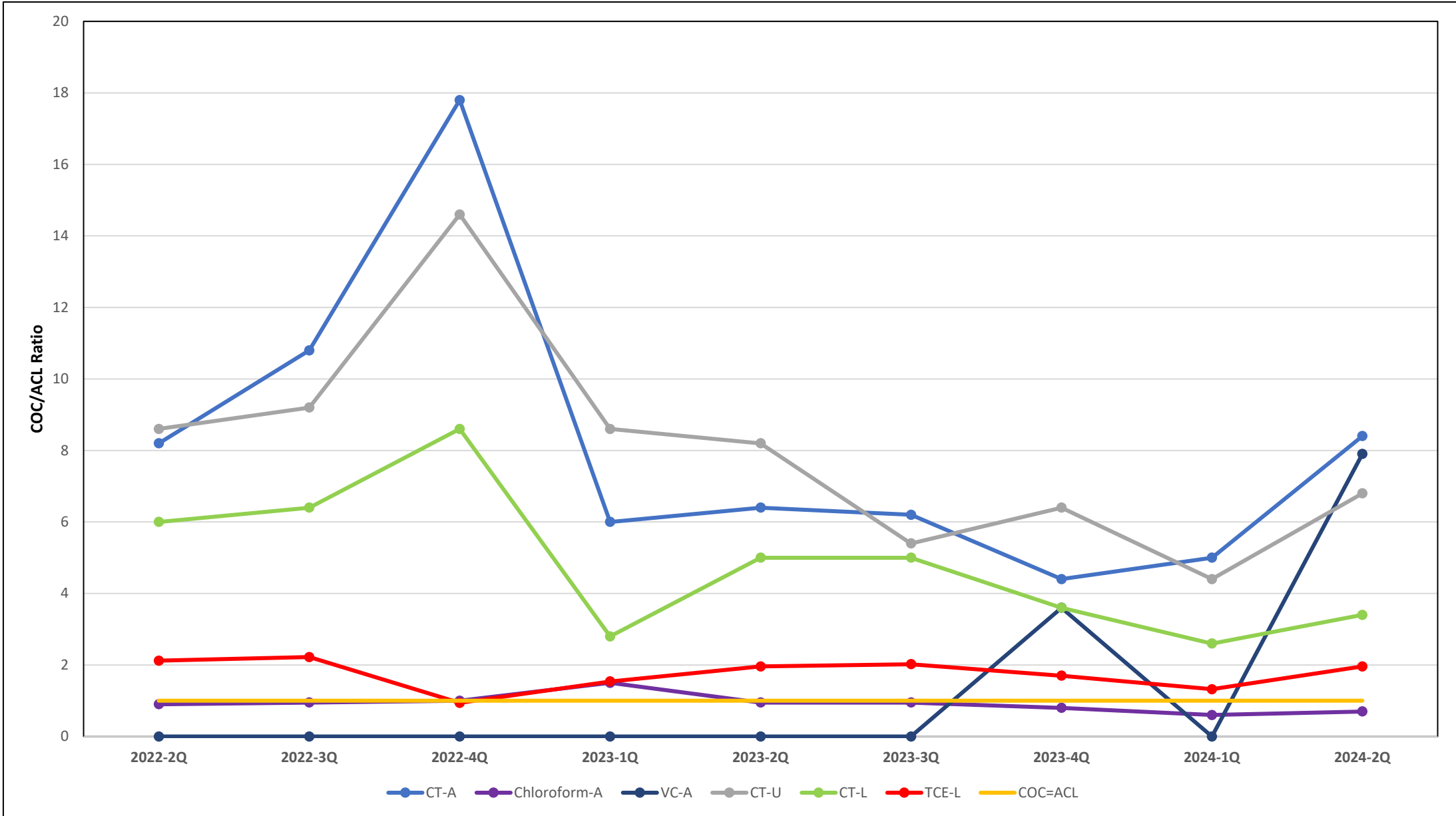
Table 3: OUCTP GWM Summary – Lower 180-Foot Aquifer

Quarter	CT	TCE	1,2-DCA
2024-2Q	>ACL	>MCL	ND
2024-1Q	>ACL	>MCL	ND
2023-4Q	>ACL	>MCL	ND
2023-3Q	>ACL	>MCL	ND
Max COC/ACL Ratio	5	2	-
Hydraulic Zone	7	N/A	-

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



Max Quarterly COC/ACL Ratio Trend



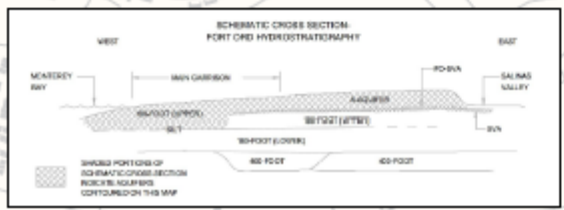
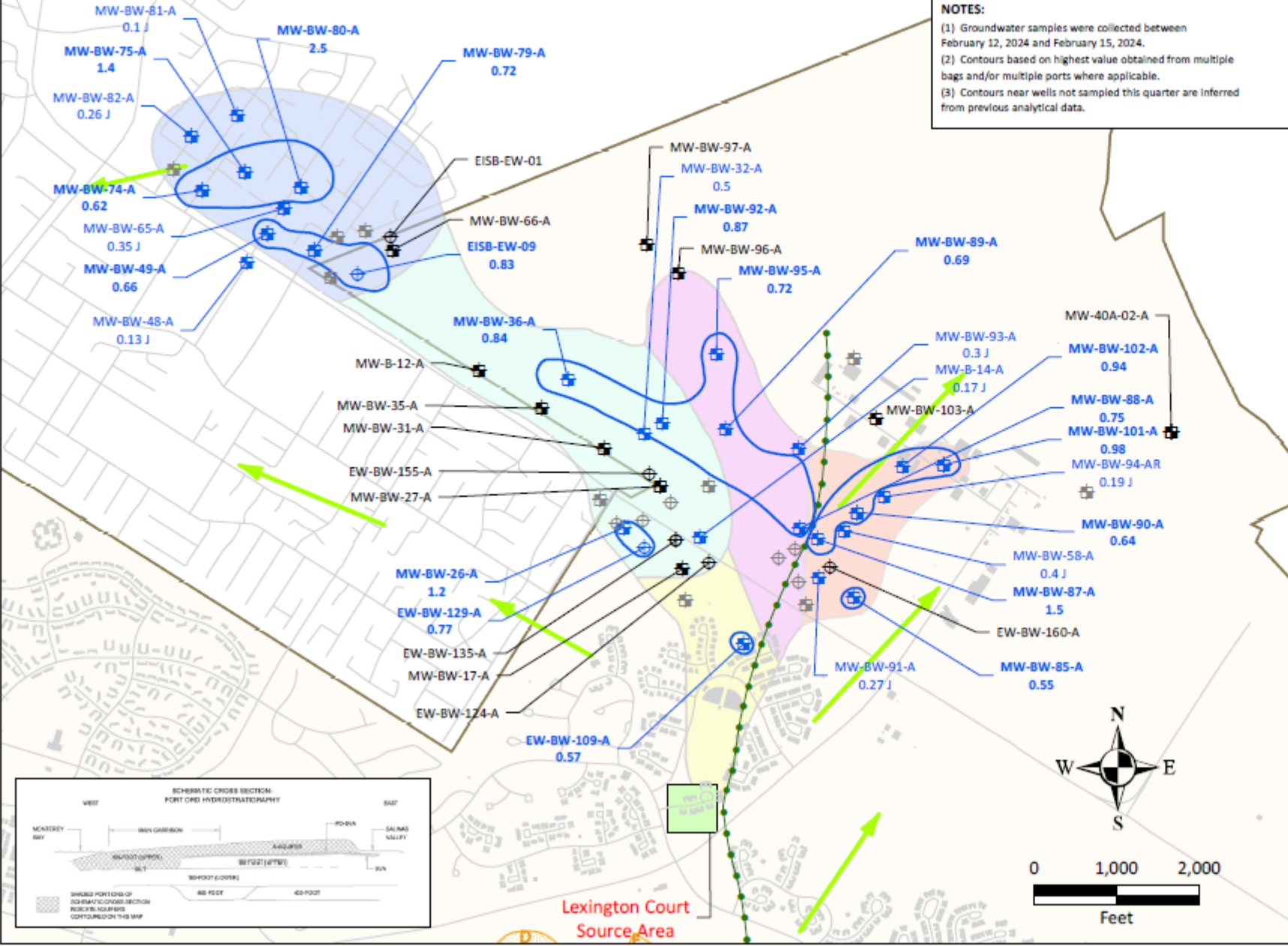
1Q24

Well ID - Bold and blue when CT exceeds the ACL
 (*Indicates: Sample not used for contouring)
 CT concentrations (µg/L) and lab qualifier.

NOTES:
 (1) Groundwater samples were collected between February 12, 2024 and February 15, 2024.
 (2) Contours based on highest value obtained from multiple bags and/or multiple ports where applicable.
 (3) Contours near wells not sampled this quarter are inferred from previous analytical data.

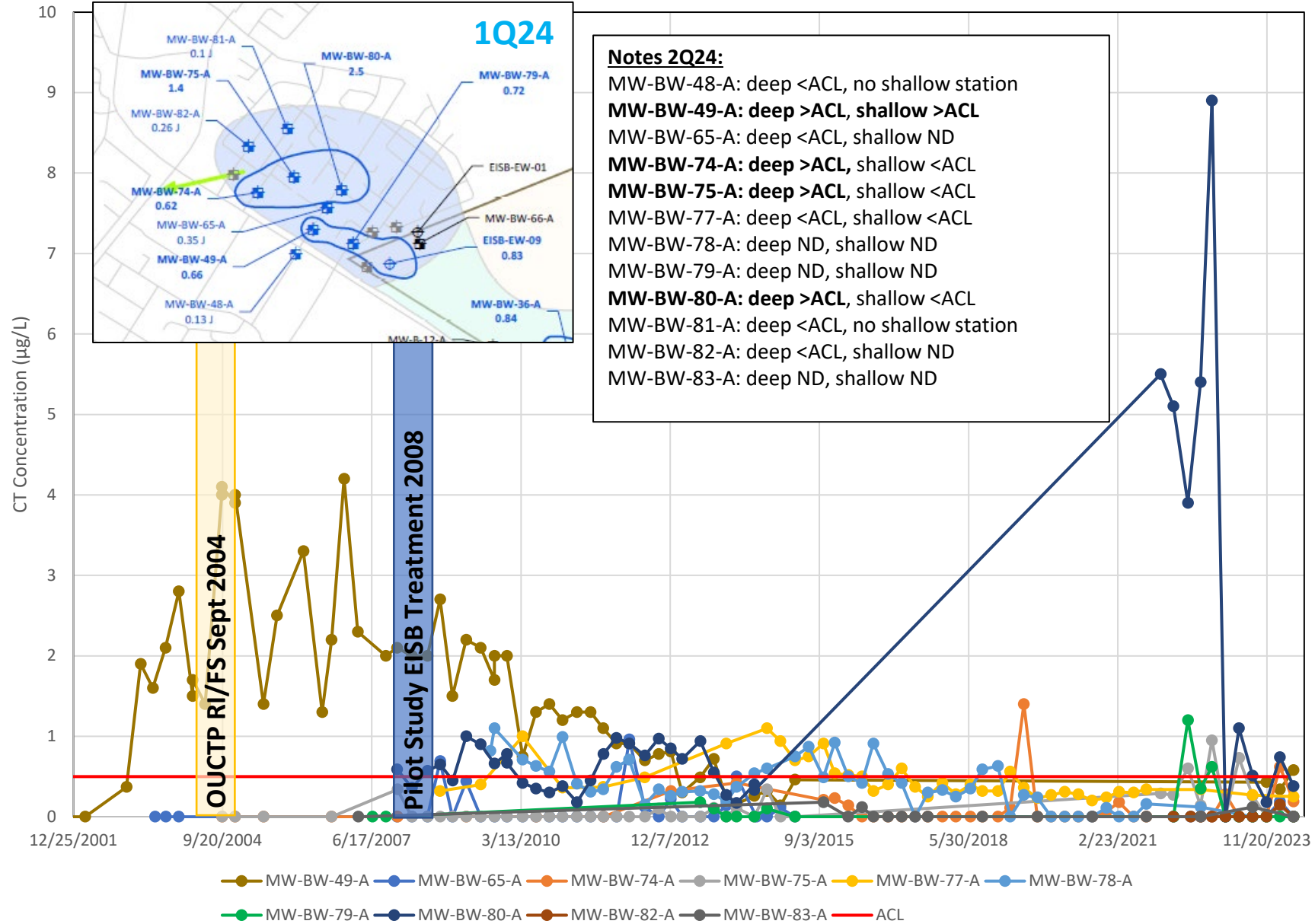
EXPLANATION

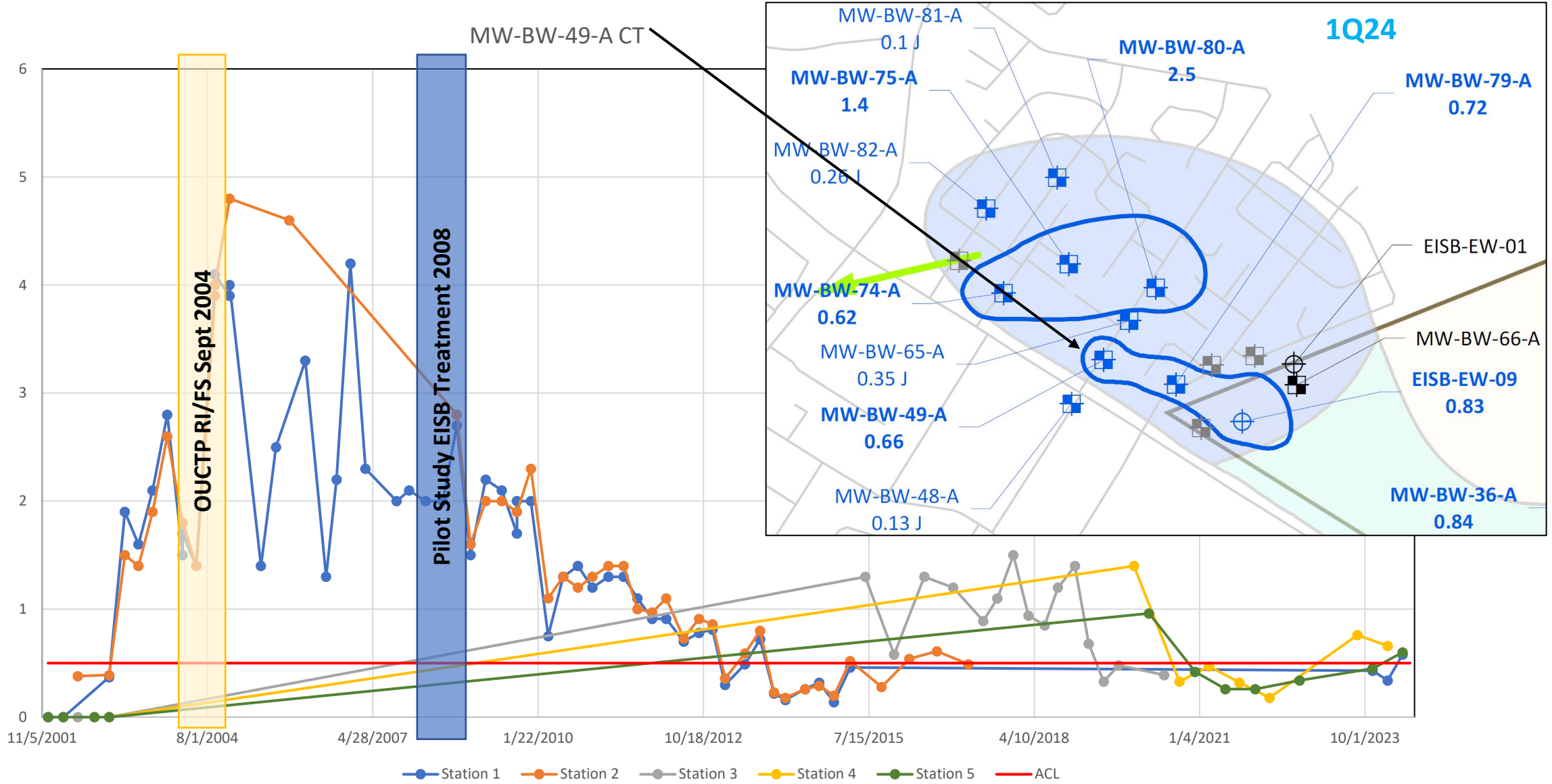
- General groundwater flow direction
 - Roads
 - Facilities
 - Approximate location of the A-Aquifer groundwater divide
 - Approximate extent of landfill areas (Areas B through F)
 - Former Fort Ord boundary
 - Lexington Court source area
- Well Type and COC Detection**
- Extraction well with carbon tetrachloride (CT) detection and no other COC ACL exceedance
 - Extraction well with non-detect (ND) for CT detection and no other COC ACL exceedance
 - Extraction well not sampled in 1st quarter
 - Monitoring well with CT detection
 - Monitoring well ND for CT and no other COC ACL exceedance
 - Monitoring well not sampled in 1st quarter
- Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L**
- 0.5 Carbon tetrachloride (CT) plume extent
- OUCTP A-Aquifer Hydraulic Zone**
- 1
 - 2
 - 3
 - 4
 - 5



Lexington Court Source Area

CT Shallow Stations: City of Marina HZ 5





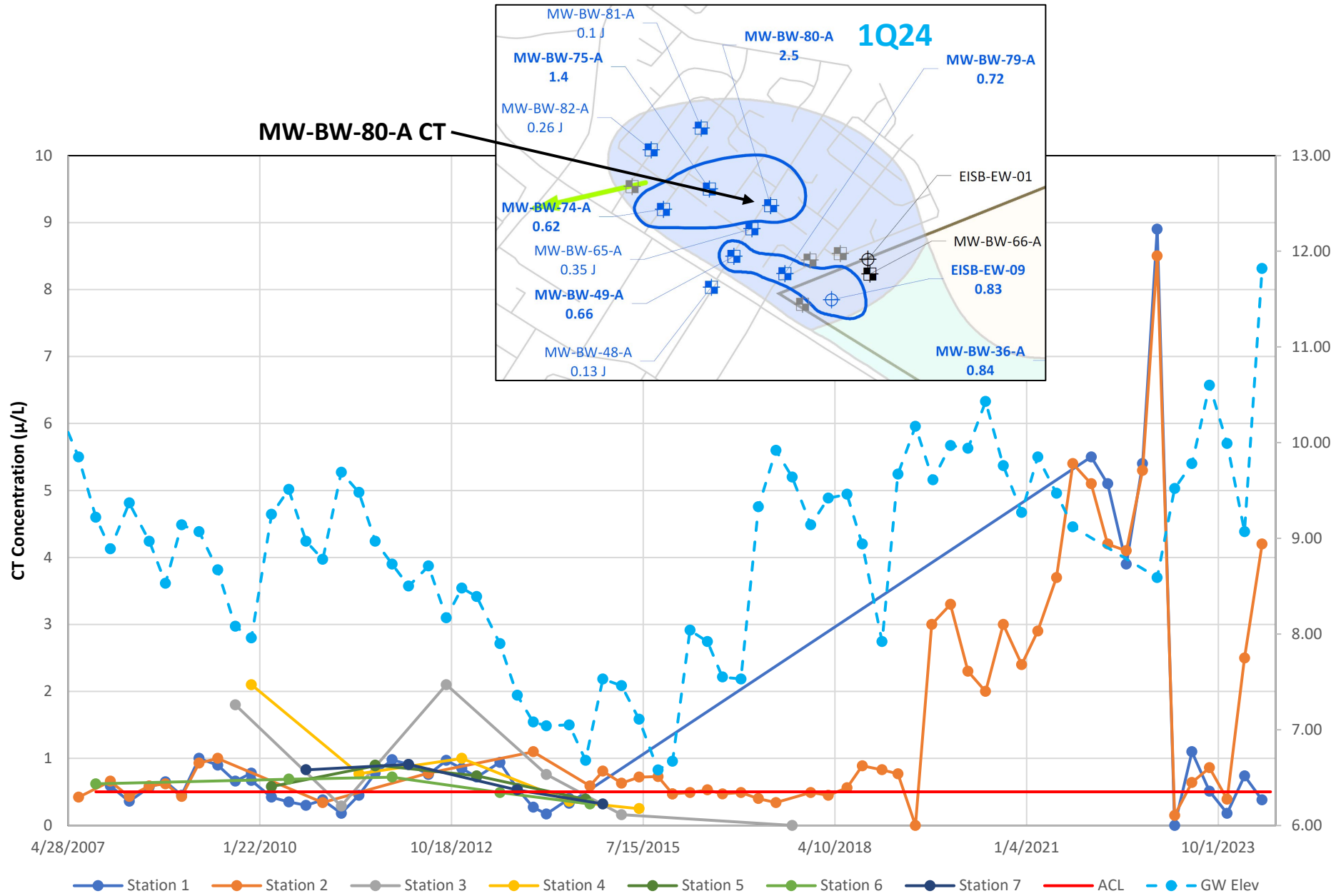
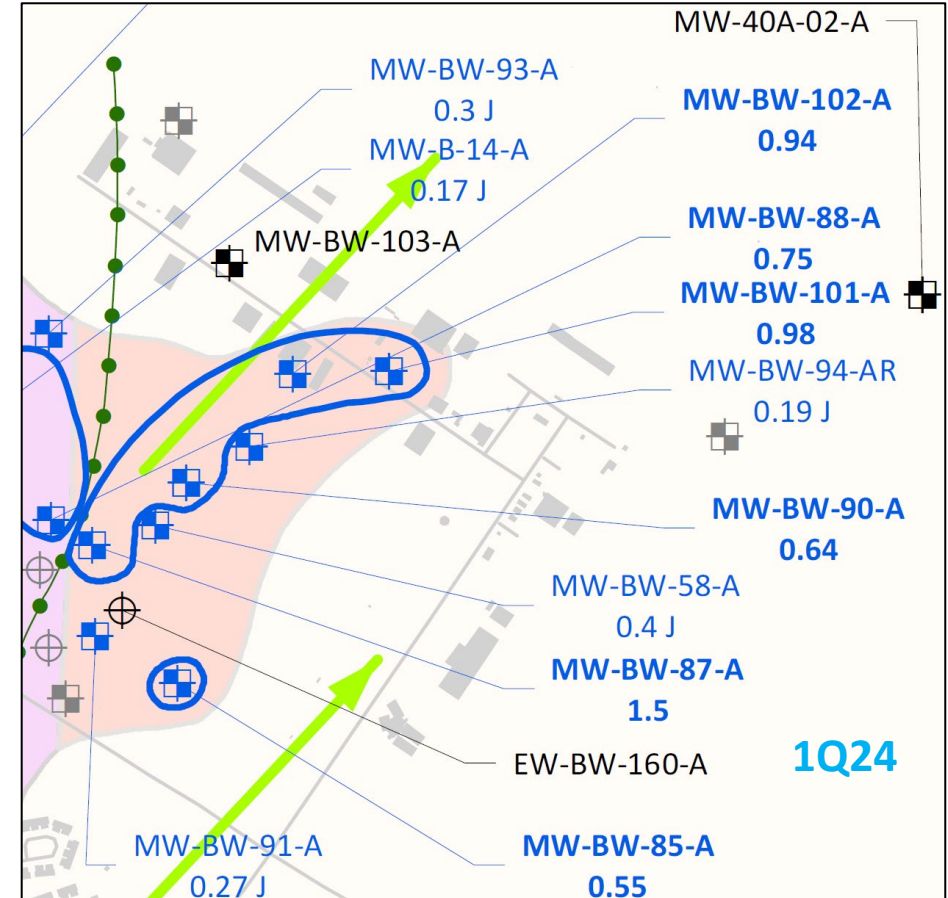


Table 4: New OUCTP A-Aquifer Wells Profile Summary^

Well ID	Quarter	CT	Chloroform	VC	TCE
MW-BW-101-A	4Q23	ND	ND	ND	ND
		0.63	0.12 J	ND	ND
		0.71	0.12 J	ND	ND
		0.72	0.12 J	ND	ND
	1Q24	0.98	0.12 J	ND	ND
2Q24	0.79	ND	ND	ND	
MW-BW-102-A	4Q23	0.29 J	0.12 J	ND	ND
		0.54	0.17 J	0.13	ND
		0.53	0.17 J	0.11	ND
		0.39 J	0.17 J	0.12	ND
		0.27 J	0.17 J	0.097 J	ND
1Q24	0.94	0.21 J	ND	ND	
2Q24	0.96	ND	ND	ND	
MW-BW-103-A	4Q23	ND	ND	ND	ND
		ND	ND	ND	ND
		ND	0.14 J	ND	ND
		ND	ND	0.36	ND
1Q24	ND	ND	ND	ND	
2Q24	ND	ND	0.79	ND	
MW-40A-02-A	1Q24	ND	ND	ND	0.14 J
		ND	ND	ND	0.20 J
		ND	ND	ND	0.15 J



No evidence of an upgradient VC source nor COCs that would dechlorinate into VC (PCE, TCE, and total-1,2-DCE) in the A-Aquifer.

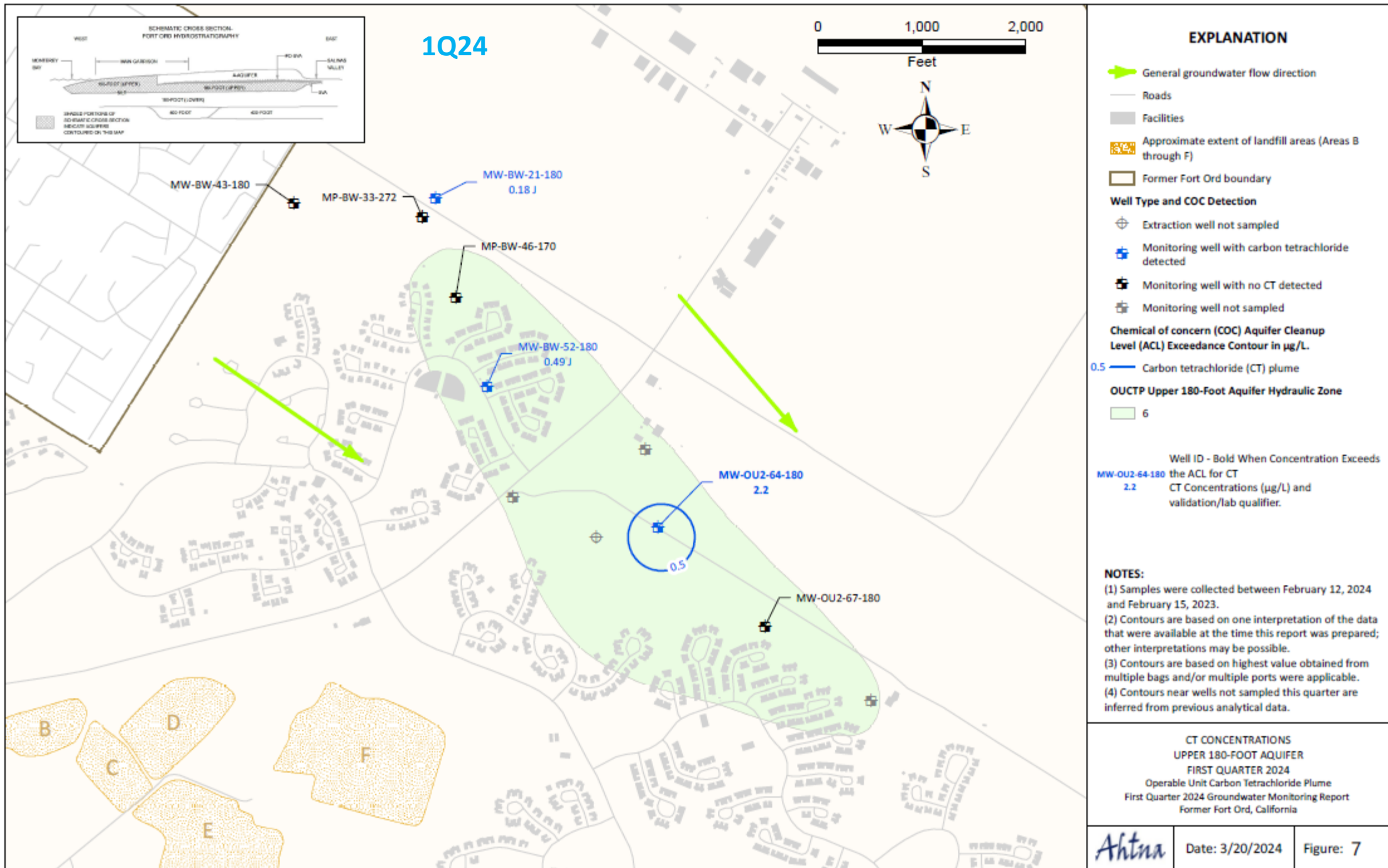
Results indicate that VC is a remnant of the PVC.

Notes:

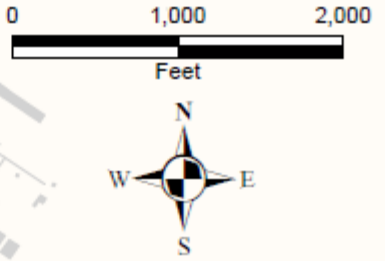
*Preliminary data

^Sample results are listed in order from shallowest to deepest stations





1Q24



EXPLANATION

General groundwater flow direction

Roads

Facilities

Approximate extent of landfill areas (Areas B through F)

Former Fort Ord boundary

Well Type and COC Detection

Extraction well not sampled

Monitoring well with carbon tetrachloride detected

Monitoring well with no CT detected

Monitoring well not sampled

Chemical of concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.

0.5 Carbon tetrachloride (CT) plume

OUCTP Upper 180-Footer Aquifer Hydraulic Zone

6

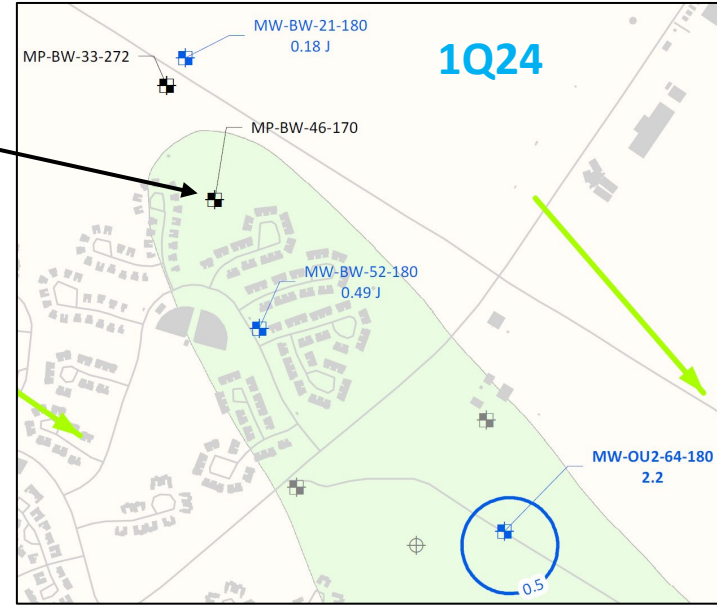
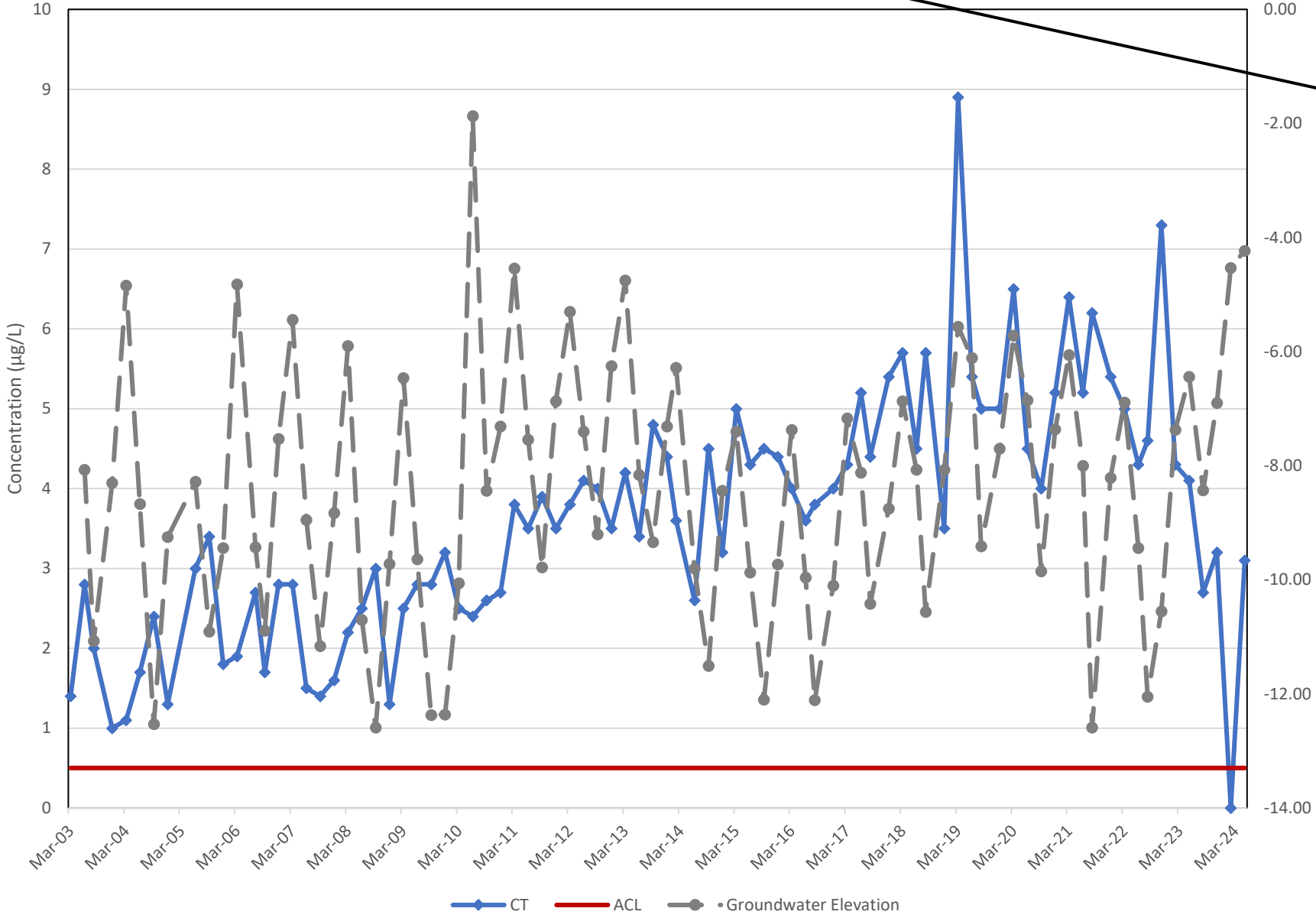
Well ID - Bold When Concentration Exceeds the ACL for CT
MW-OU2-64-180 2.2
 2.2 CT Concentrations (µg/L) and validation/lab qualifier.

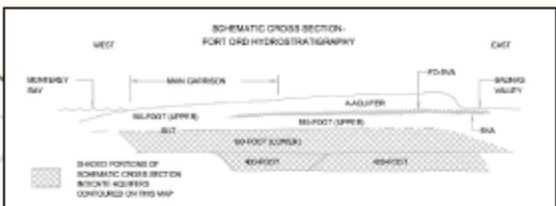
NOTES:

- (1) Samples were collected between February 12, 2024 and February 15, 2023.
- (2) Contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
- (3) Contours are based on highest value obtained from multiple bags and/or multiple ports were applicable.
- (4) Contours near wells not sampled this quarter are inferred from previous analytical data.

CT CONCENTRATIONS
 UPPER 180-FOOT AQUIFER
 FIRST QUARTER 2024
 Operable Unit Carbon Tetrachloride Plume
 First Quarter 2024 Groundwater Monitoring Report
 Former Fort Ord, California

MP-BW-46-170





ND Chemical of Concern is non-detect
 Well ID
 Concentration in µg/L and validation/lab qualifier.
 (blue indicates CT; red indicates TCE)
 CT Bold when COC exceeds the ACL.

NOTES:
 (1) Groundwater samples were collected between February 12, 2024 and February 15, 2024.
 (2) Contour is based on one interpretation of the data that was available at the time this report was prepared; other interpretations may be possible.
 (3) Contour based on highest value obtained from multiple bags and/or multiple ports where applicable.
 (4) TCE is not a chemical of concern in the OUCTP Lower 180-Foot Aquifer.

EXPLANATION

- ➔ General groundwater flow direction
- Roads
- ▭ Facilities
- 🗑️ Approximate extent of landfill areas (Areas B through F)
- ▭ Former Fort Ord boundary

Monitoring well with CT detection

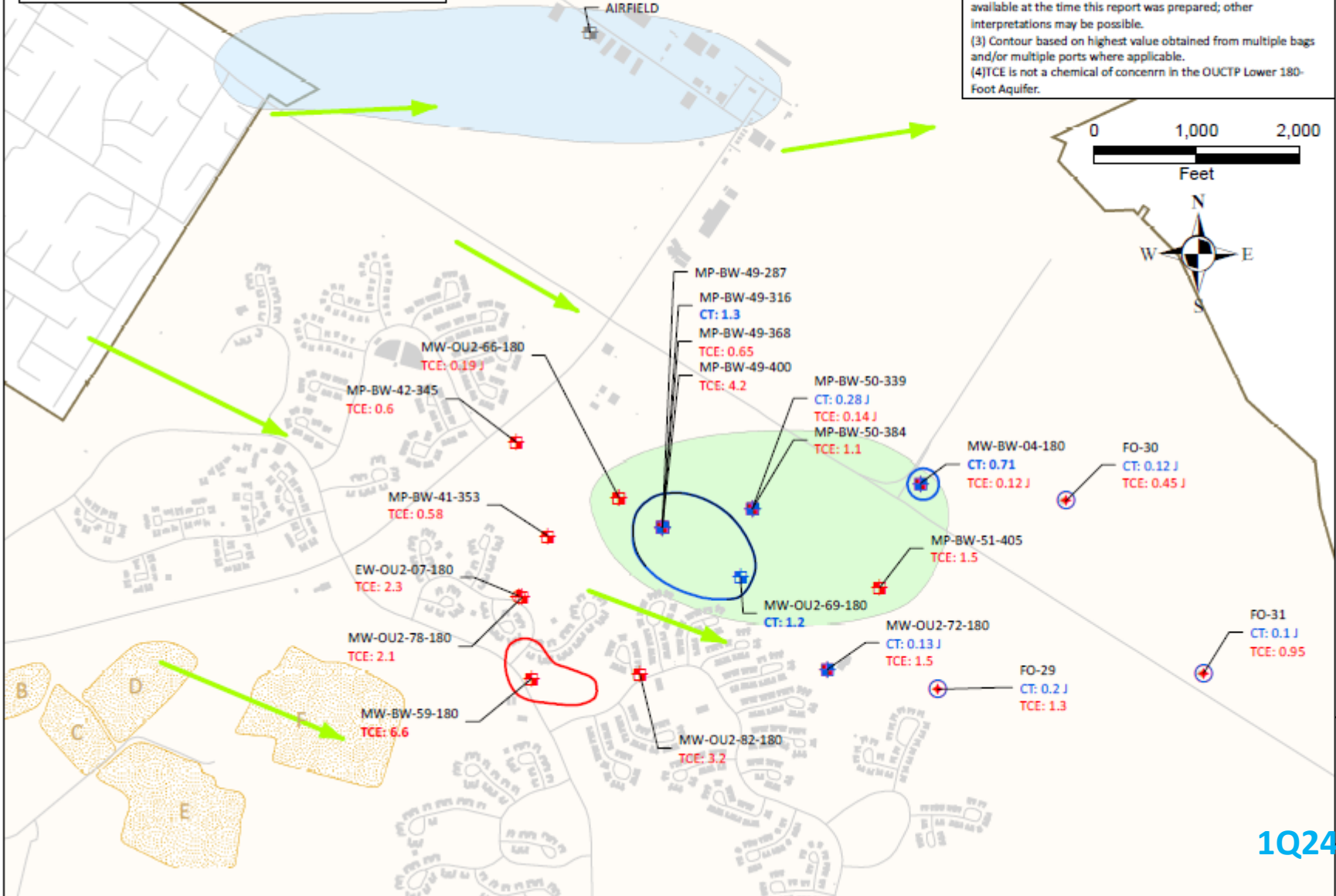
- ⊕ Marina Coast active supply well with trichloroethene (TCE) and carbon tetrachloride (CT) detected
- ⊕ Extraction well with TCE detected
- ⊕ Monitoring well with TCE detected
- ⊕ Monitoring well with CT detected
- ⊕ Monitoring well with CT and TCE detected
- ⊖ Monitoring well not sampled

Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.

- 0.5 — Carbon Tetrachloride (CT) plume extent
- 5.0 — Trichloroethene (TCE) plume extent

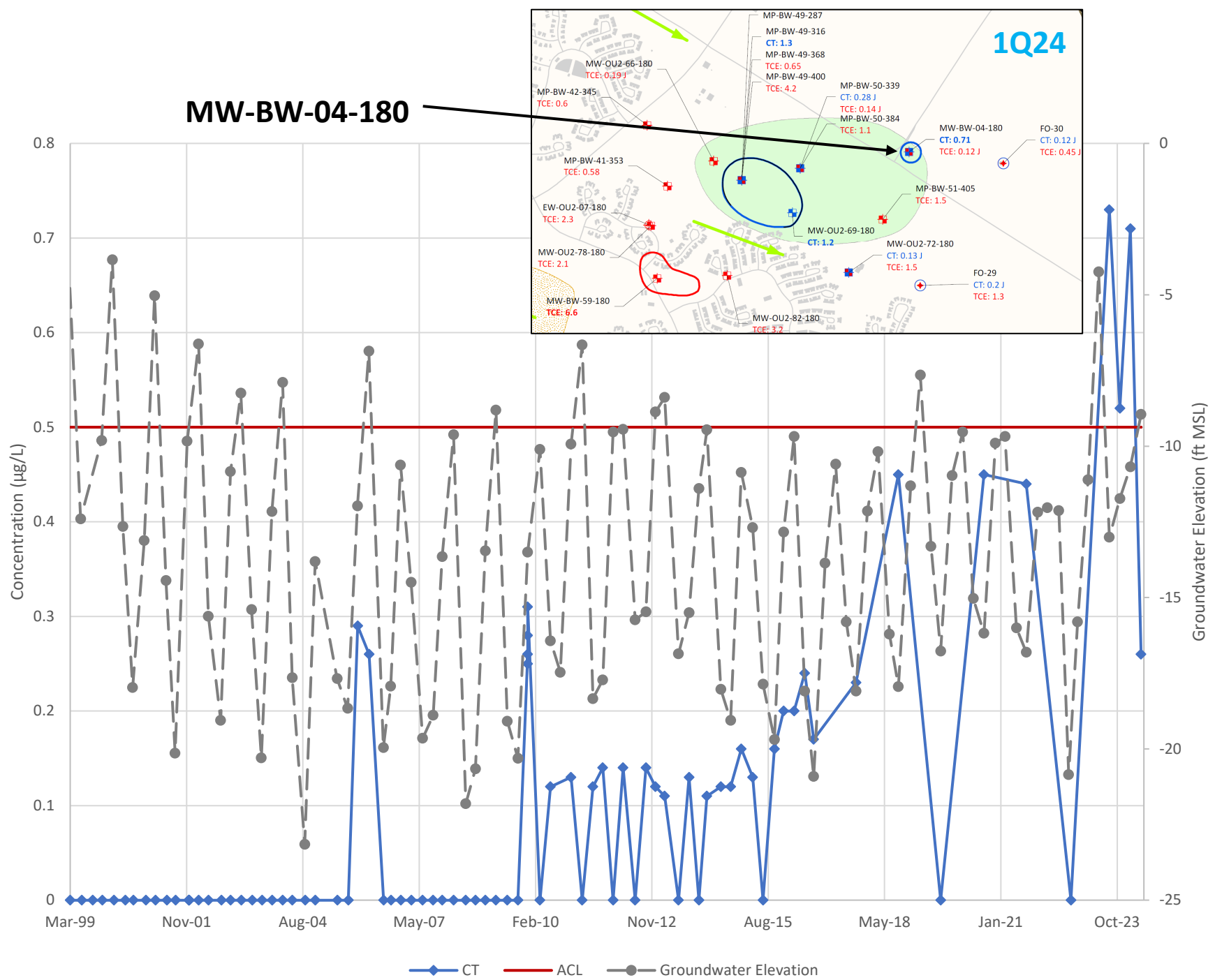
OUCTP Lower 180-Foot Aquifer Hydraulic Zone

- 7
- 8

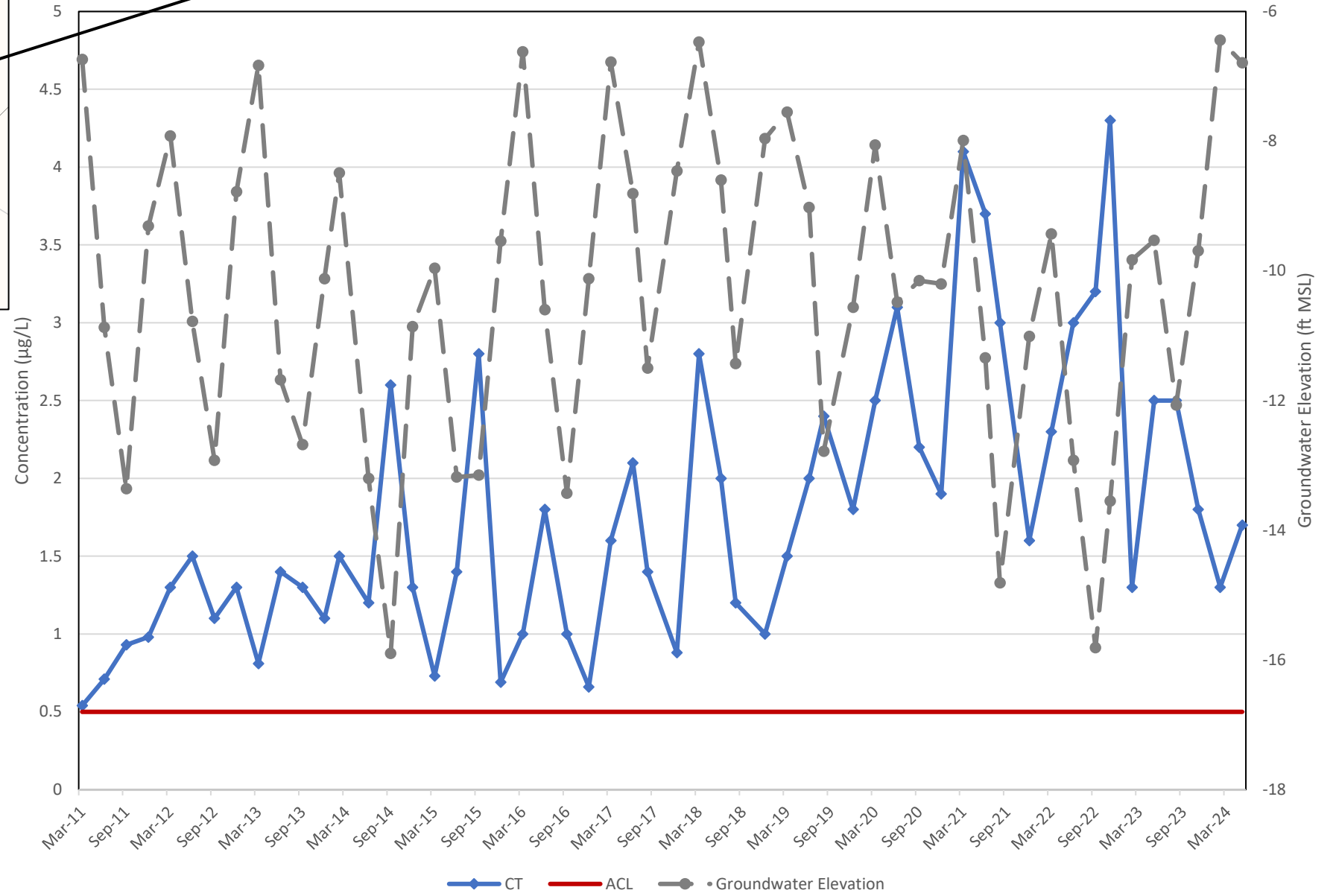
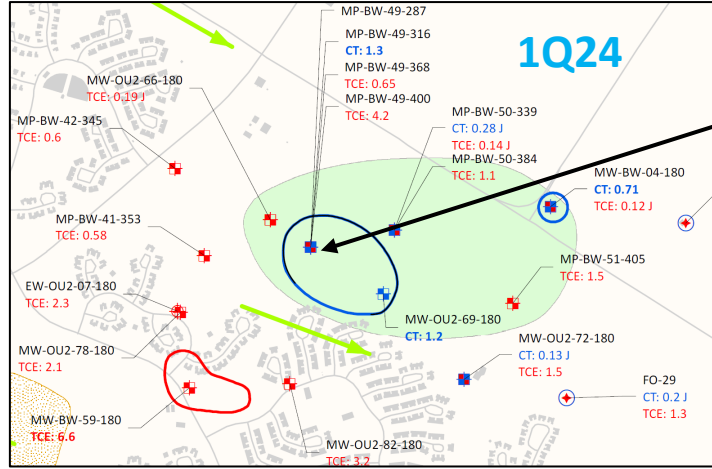


CT AND TCE CONCENTRATIONS
 LOWER 180-FOOT/400-FOOT AQUIFERS
 FIRST QUARTER 2024
 Operable Unit Carbon Tetrachloride Plume
 First Quarter 2024 Groundwater Monitoring Report
 Former Fort Ord, California

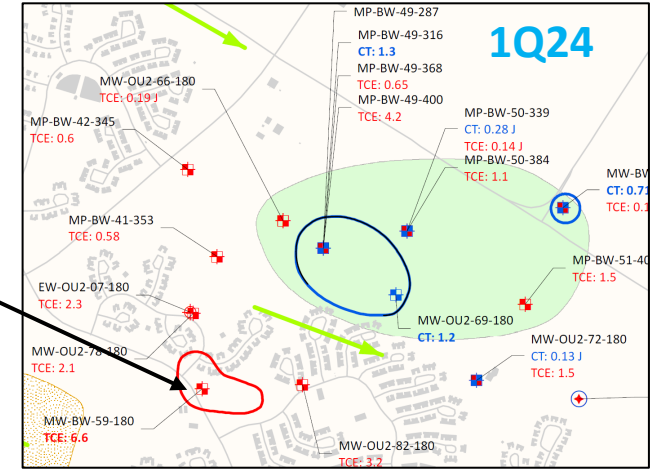
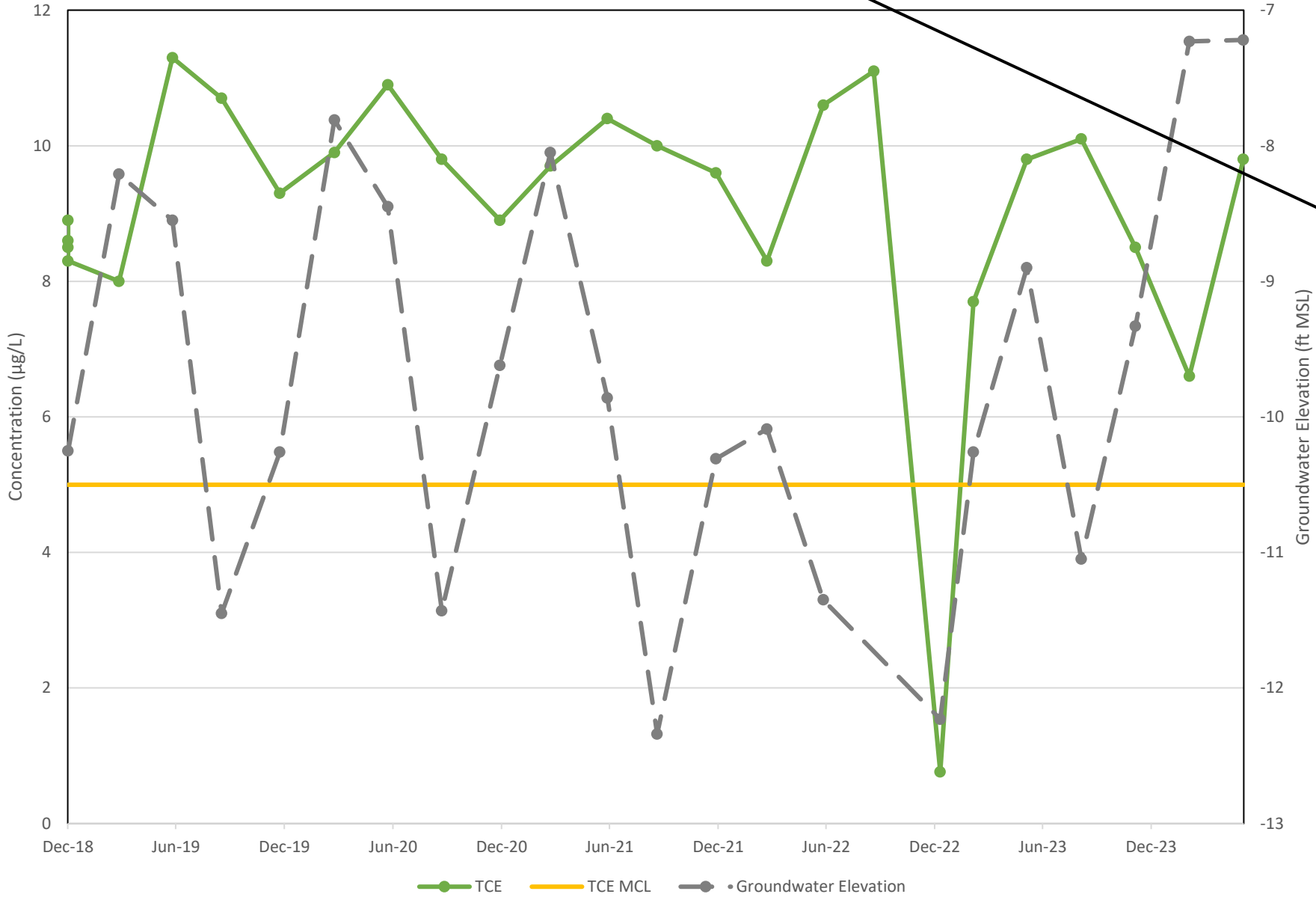
1Q24



MP-BW-49-316



MW-BW-59-180



TCE in the Lower 180-Foot Aquifer

