

# Operable Unit 2 Data and Status

**Table 1:** May – June 2023 – OU2 GWTP Statistics

Monthly Statistics	Volume Treated (gallons)	Average Flow (gallons per minute)	Percent of Time Online	COC Mass Removed (pounds)
May 2023	46,302,394	1,037	100	1.9
June 2023	44,404,416	1,028	100	2.2
Total since October 1995	9.582 billion			970

## Remedial Summary

- **11 COCs:** 1,1-DCA; 1,2-DCA; 1,2-DCPA; benzene; CT; chloroform; cis-1,2-DCE; methylene chloride; PCE; TCE; and VC. Metals monitored annually near OU2 Landfills.
- **Remediation:** Pump and treat with GAC in the A-Aquifer and Upper 180-Foot Aquifer since 1995. Extraction wells added in 2000 and 2007. OU2 GWTP relocated from the western network area to OU2 Landfills, extraction wells added in 2018.
- **Monitoring:** Quarterly groundwater monitoring and reporting, including annual 3Q monitoring and reports. Described in the most recent Groundwater QAPP.

May – June 2023 OU2 treated water at TS-OU2-INJ-01 did not exceed discharge limits

## May-June Key Events

- May 3: OU2 GWTP sampling at all stations.
- May 15-19: Second Quarter 2023 GWMP event.
- May 15: EW-OU2-04-A offline until May 16 due to water in the vault that was pumped out.
- June 27: EW-OU2-04-A offline. Troubleshooting in progress. Possible pump failure.
- June 28: EW-OU2-09-180 offline. Troubleshooting in progress. Possible pump failure.

## Future Key Events

- Evaluate plume capture with EW-OU2-11-180 offline.
- Evaluate decline in performance of IW-OU2-04-180 and IW-OU2-05-180.
- August: Replace effluent pump P2 failed VFD.
- Troubleshoot, repair, and restart EW-OU2-04-A and EW-OU2-09-180.

# GWM COC Summary

**Table 2: OU2 GWM Summary – A-Aquifer**

Quarter	1,1-DCA	1,2-DCA	1,2-DCPA	Benzene	CT	Chloroform	Cis-1,2-DCE	Methylene Chloride	PCE	TCE	VC
2023-2Q	>ACL	>ACL	<ACL	<ACL	ND	>ACL	>ACL	<ACL	>ACL	>ACL	>ACL
2023-1Q	>ACL	>ACL	<ACL	<ACL	ND	>ACL	>ACL	<ACL	>ACL	>ACL	>ACL
2022-4Q	>ACL	>ACL	<ACL	<ACL	<ACL	>ACL	>ACL	<ACL	>ACL	>ACL	>ACL
2022-3Q	>ACL	>ACL	<ACL	<ACL	ND	>ACL	>ACL	ND	>ACL	>ACL	>ACL
Max COC/ACL Ratio	4.2	7.4	-	-	-	2.6	1.9	-	3.6	3.4	74
Hydraulic Zone	5	5	-	-	-	5	1	-	5	4	1

**Notes:**  
 \*Preliminary data  
 >: greater than  
 <: less than  
 ACL: Aquifer Cleanup Level  
 1,1-DCA: 1,1-dichloroethane  
 1,2-DCA: 1,2-dichloroethane  
 1,2-DCPA: 1,2-dichloropropane  
 CT: carbon tetrachloride  
 Cis-1,2-DCE: cis-1,2-dichloroethene  
 TCE: trichloroethene  
 PCE: tetrachloroethene  
 VC: vinyl chloride  
 ND: The analyte was not detected above the detection limit.

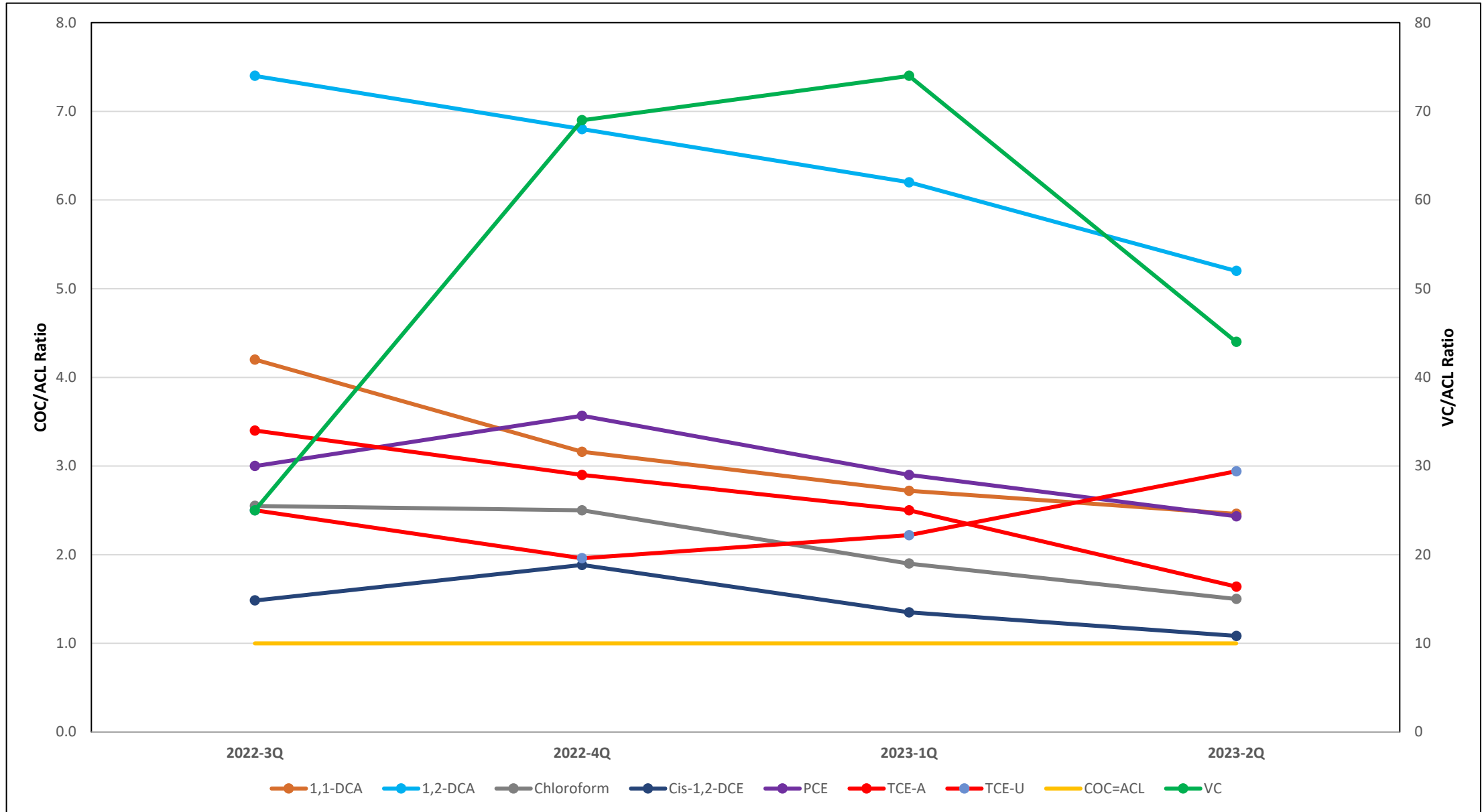
**Table 3: OU2 GWM Summary – Upper 180-Foot Aquifer**

Quarter	1,1-DCA	1,2-DCA	1,2-DCPA	Benzene	CT	Chloroform	Cis-1,2-DCE	Methylene Chloride	PCE	TCE	VC
2023-2Q	<ACL	ND	ND	<ACL	<ACL	<ACL	<ACL	ND	<ACL	>ACL	ND
2023-1Q	<ACL	ND	ND	<ACL	<ACL	<ACL	<ACL	ND	<ACL	>ACL	ND
2022-4Q	<ACL	ND	ND	<ACL	<ACL	<ACL	<ACL	ND	<ACL	>ACL	ND
2022-3Q	<ACL	ND	<ACL	ND	<ACL	<ACL	<ACL	ND	<ACL	>ACL	ND
Max COC/ACL Ratio	-	-	-	-	-	-	-	-	-	2.9	-
Hydraulic Zone	-	-	-	-	-	-	-	-	-	7	-

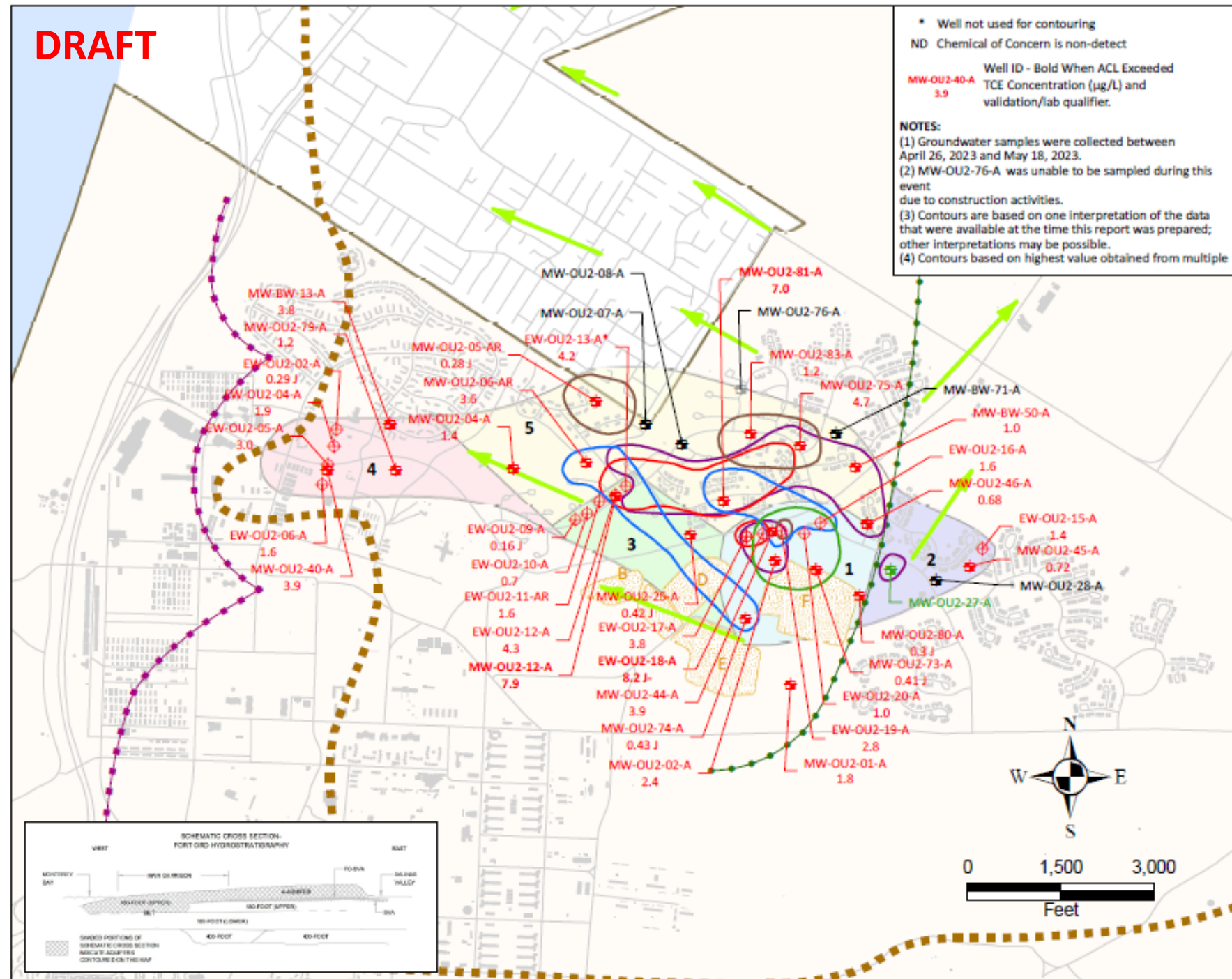
7 COCs in the A-Aquifer and 1 in the Upper 180-Foot Aquifer above the ACLs. 4 COCs max in Hydraulic Zone 5.

Minor decrease in Max COC/ACL ratio since 2023-1Q for A-Aquifer: 1,1-DCA; 1,2-DCA; and TCE. Minor increase in TCE for Upper 180-Foot Aquifer.

### Max Quarterly COC/ACL Ratio Trend



**DRAFT**



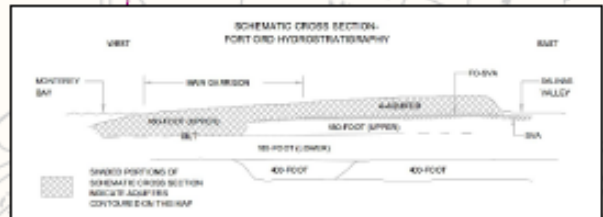
\* Well not used for contouring  
 ND Chemical of Concern is non-detect

Well ID - Bold When ACL Exceeded  
**MW-OU2-40-A**  
 3.9 TCE Concentration (µg/L) and validation/lab qualifier.

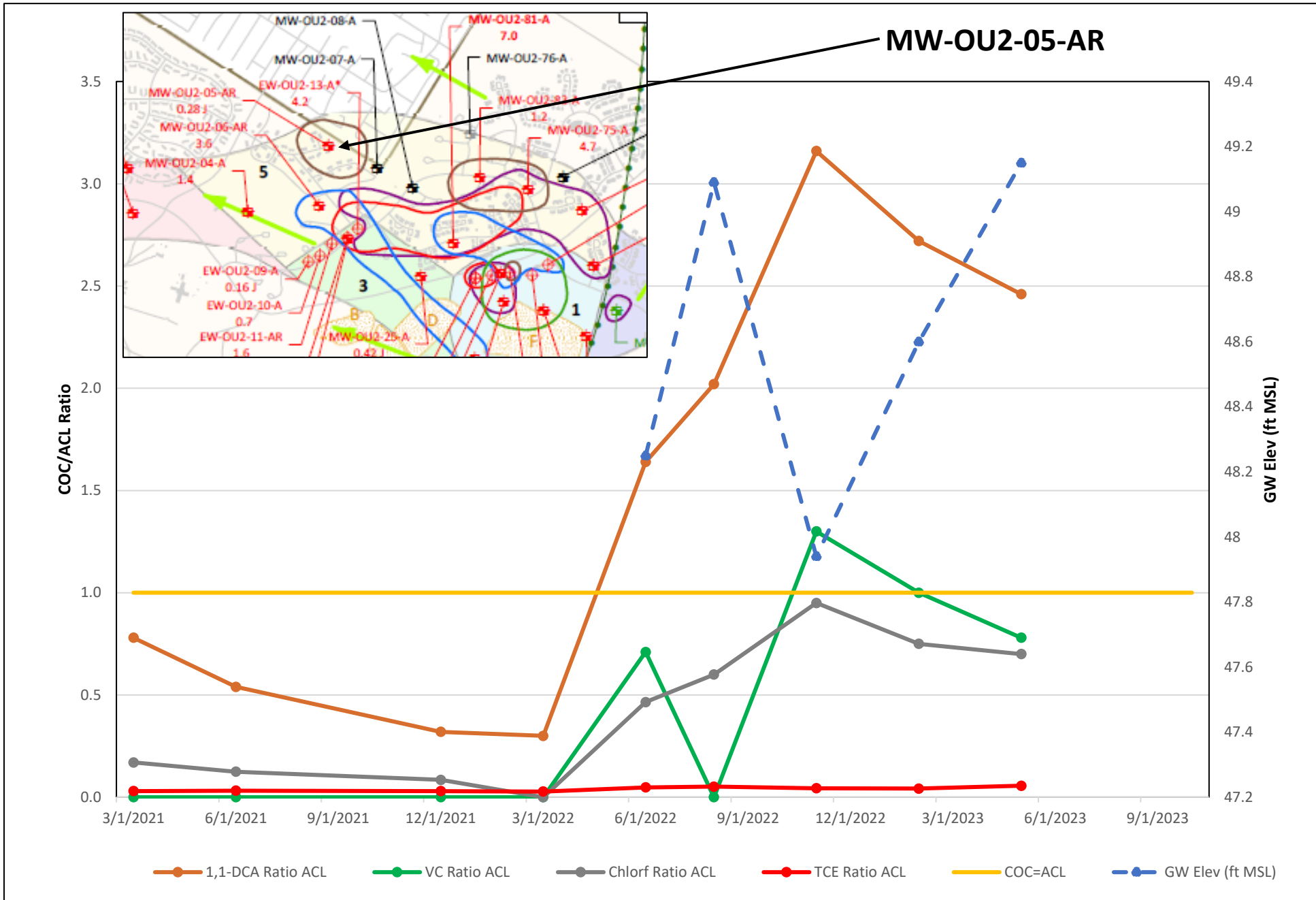
**NOTES:**  
 (1) Groundwater samples were collected between April 26, 2023 and May 18, 2023.  
 (2) MW-OU2-76-A was unable to be sampled during this event due to construction activities.  
 (3) Contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.  
 (4) Contours based on highest value obtained from multiple

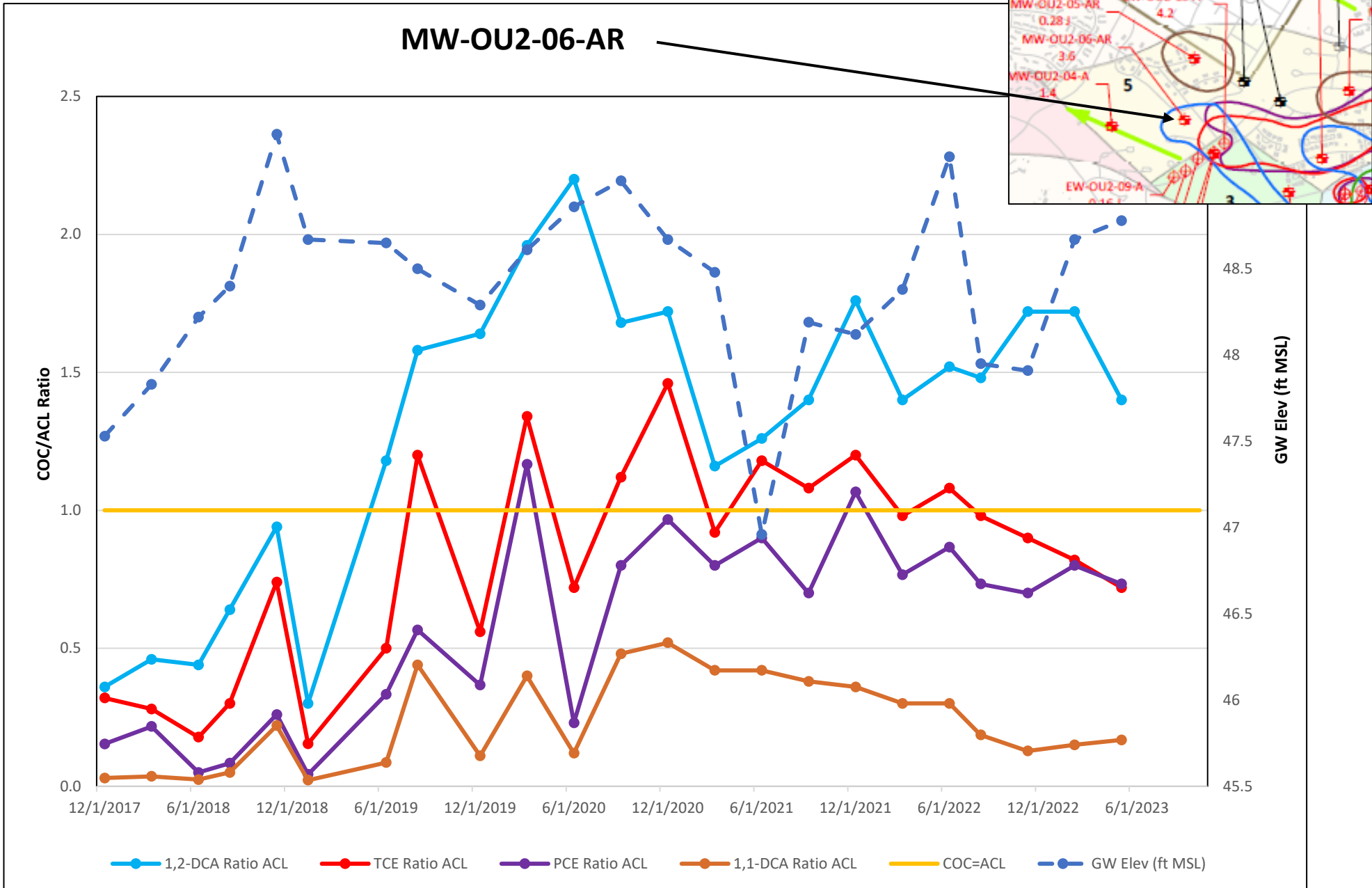
**EXPLANATION**

- Roads
- Approximate edge of the Fort Ord-Salinas Valley Aquitard (FO-SVA)
- ➔ General groundwater flow direction
- Facilities
- Approximate extent of landfill areas (Areas B through F)
- Former Fort Ord boundary
- Well Type and COC Detection**
- ⊗ Monitoring well with non-detect (ND) for TCE and no COC ACL exceedance
- ⊕ Monitoring well with TCE detected
- ⊕ Extraction well with trichloroethane (TCE) detected
- ⊕ Monitoring well with non-detect (ND) for TCE and with COC ACL exceedance
- ⊕ Monitoring well not sampled
- Chemical of concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L**
- 5 Trichloroethene (TCE) plume extent
- 3 Tetrachloroethene (PCE) plume extent
- 1,1-Dichloroethane (1,1-DCA) plume extent
- 1,2-Dichloroethane (1,2-DCA) plume extent
- 0.1 Vinyl Chloride (VC) plume extent
- Groundwater Aquifer Divide**
- Approximate location of the Upper 180-Foot Aquifer groundwater divide
- Approximate location of the A-Aquifer groundwater divide
- OU2 A-Aquifer Hydraulic Zone**
- 1
- 2
- 3
- 4
- 5

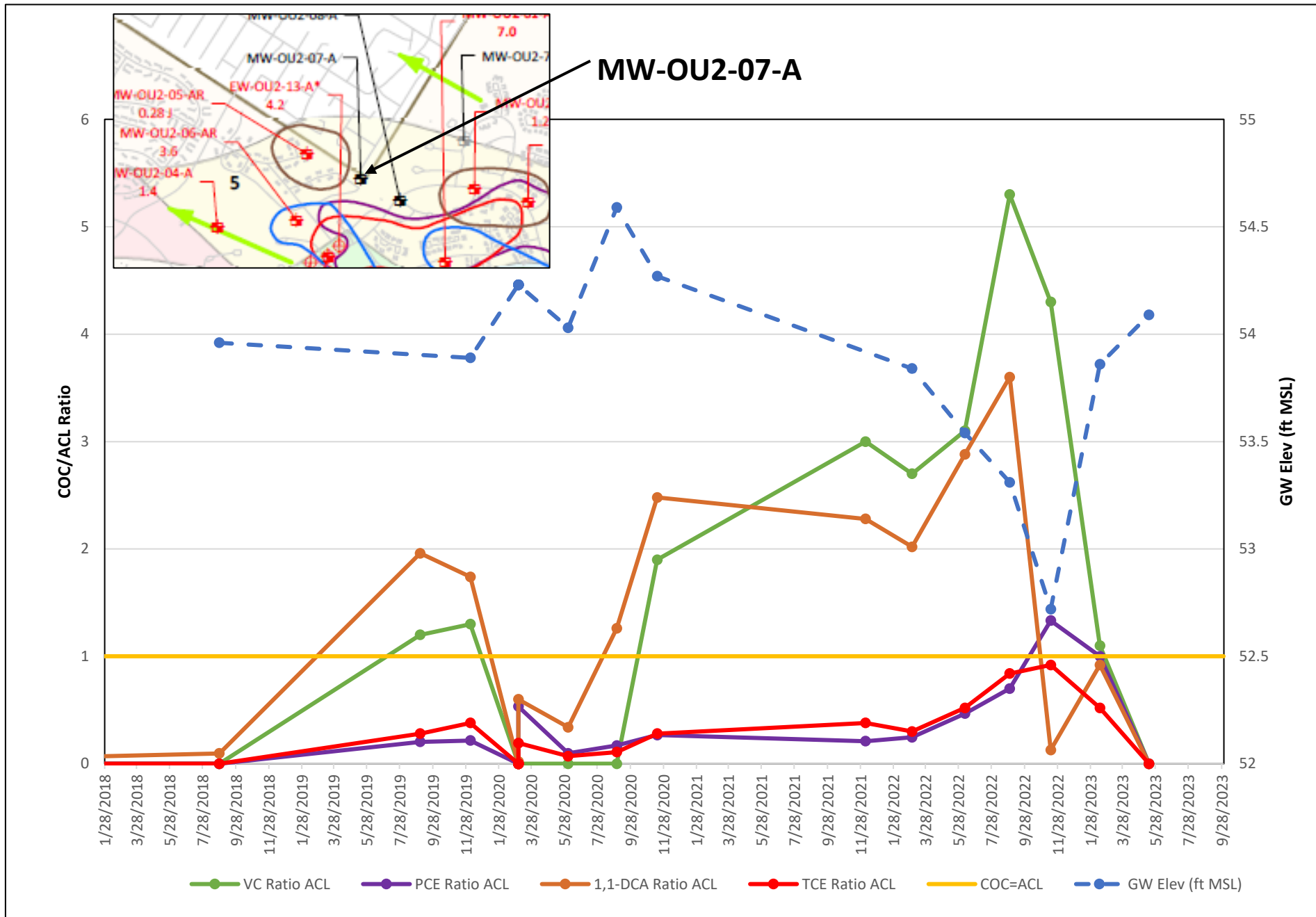


TCE CONCENTRATIONS AND OTHER COC ACL EXCEEDANCES  
 A-AQUIFER  
 SECOND QUARTER 2023  
 Operable Unit 2, Second Quarter 2023, Groundwater  
 Monitoring and Treatment Report  
 Former Fort Ord, California









### MW-OU2-08-A

