

Operable Unit 2 Data and Status

Table 1: Oct – Dec 2023 – OU2 GWTP Statistics

Month	Volume Treated (gallons)	Average Flow (gallons per minute)	Percent of Time Online	COC Mass Removed (pounds)
Oct 2023	40,020,329	897	100	1.8
Nov 2023	40,035,367	927	100	1.8
Dec 2023	41,998,666	941	100	1.9
Total since October 1995	9.827 billion			981

Table 2: Oct – Dec 2023 – Treated Water Reuse

Month	Volume Used (gallons)	Use
Oct 2023	650	Well decommissioning
Nov 2023	5,750	Well decommissioning, Landfills dust control
Dec 2023	0	
Total since October 2016	4.372 million	

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.

Oct-Jan Key Events

- Oct 13: PLC faults at EW-OU2-16-A, EW-OU2-05-180, and EW-OU2-06-180. Reset and online Oct 16. PLC fault again on Nov 13, reset and online Nov 14.
- Oct 31-Nov 3: Decommissioned two wells (MW-OU2-20-180X and MW-OU2-26-A)
- Nov 8: EW-OU2-12-A offline due to VFD failure. Replaced and online Dec 14.
- Nov 8-15: Fourth Quarter 2023 GWMP event.
- Nov 25: EW-OU2-02-180R offline due to VFD fault. Reset and online Nov 27.
- Dec 6: video scoped MW-OU2-37-A and MW-OU2-37-180.
- Dec 28: eastern extraction wells offline due to power outage. OU2 GWTP operated in low-flow condition for 12 hours.
- Jan 9: OU2 GWTP GAC change-out.

Future Key Events

- Decommission MW-OU2-37-A and MW-OU2-37-180.
- EW-OU2-11-180 remains offline.
- Evaluate performance of IW-OU2-04-180 and IW-OU2-05-180.
- Pump replacements: EW-OU2-04-A and EW-OU2-05-A.

GWM COC Summary

Table 3: 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
2023-4Q	>ACL	>ACL	<ACL	<ACL	ND	>ACL	>ACL	<ACL	>ACL	>ACL	>ACL
2023-3Q	>ACL	>ACL	<ACL	<ACL	ND	>ACL	>ACL	<ACL	>ACL	>ACL	>ACL
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
Max COC/ACL Ratio	2.7	6.2	-	-	-	2.0	1.4	-	2.9	2.5	74
Hydraulic Zone	5	3	-	-	-	5	1	-	5	3	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.

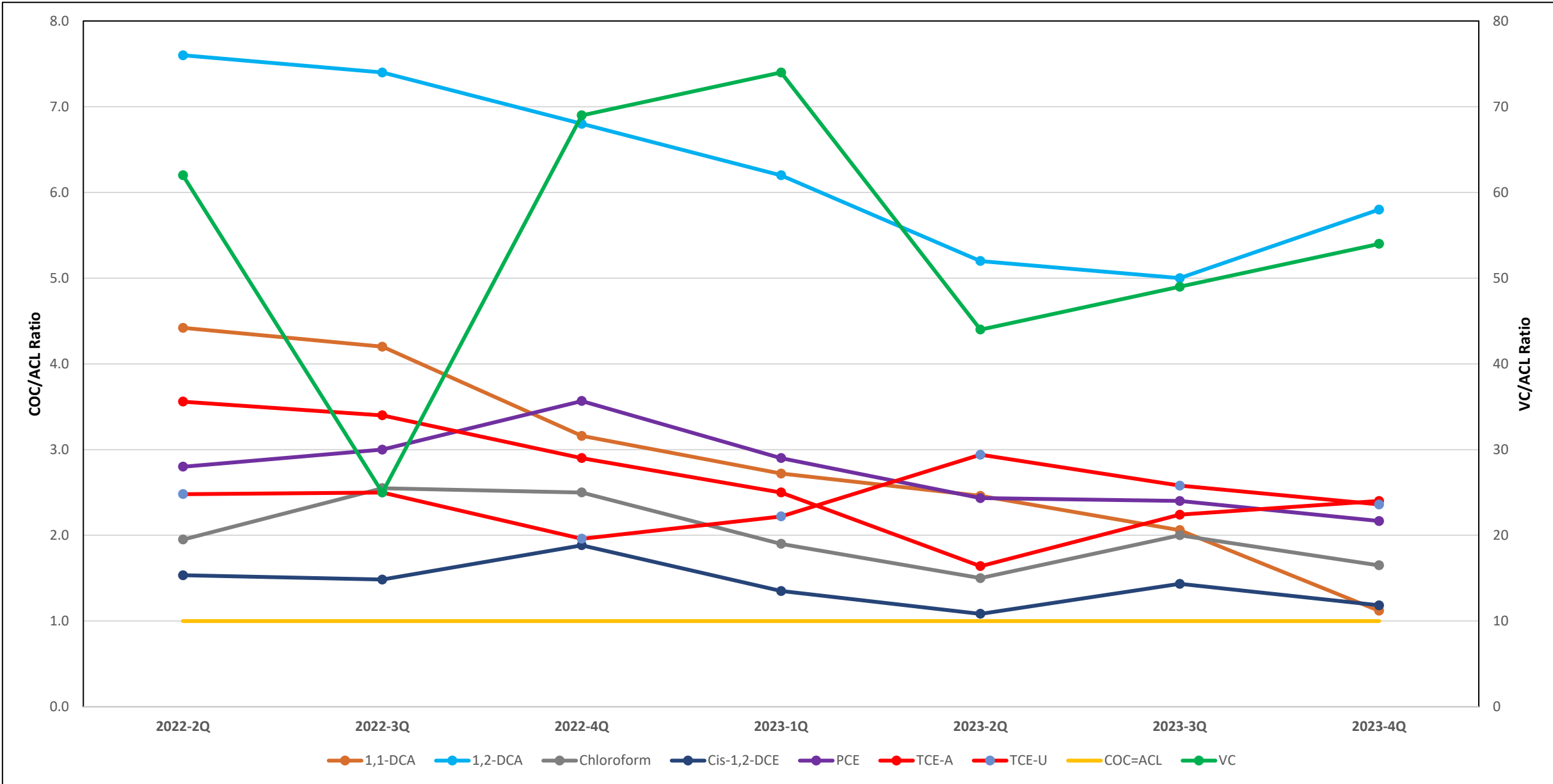
Table 4: OU2 GWM Summary – Upper 180-Foot Aquifer

Quarter	1,1-DCA	1,2-DCA	1,2-DCPA	Benzene	CT	Chloroform	Cis-1,2-DCE	Methylene Chloride	PCE	TCE	VC
2023-4Q	<ACL	ND	ND	<ACL	<ACL	<ACL	<ACL	ND	<ACL	>ACL	ND
2023-3Q	<ACL	ND	<ACL	<ACL	<ACL	<ACL	<ACL	<ACL	<ACL	>ACL	ND
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
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. 3 COCs max in HZ 5, 2 in HZ 1 and HZ 3.

Minor decrease in Max COC/ACL ratio since 2023-3Q for A-Aquifer; 1,1-DCA; 1,2-DCA; PCE; and TCE.

Max Quarterly COC/ACL Ratio Trend



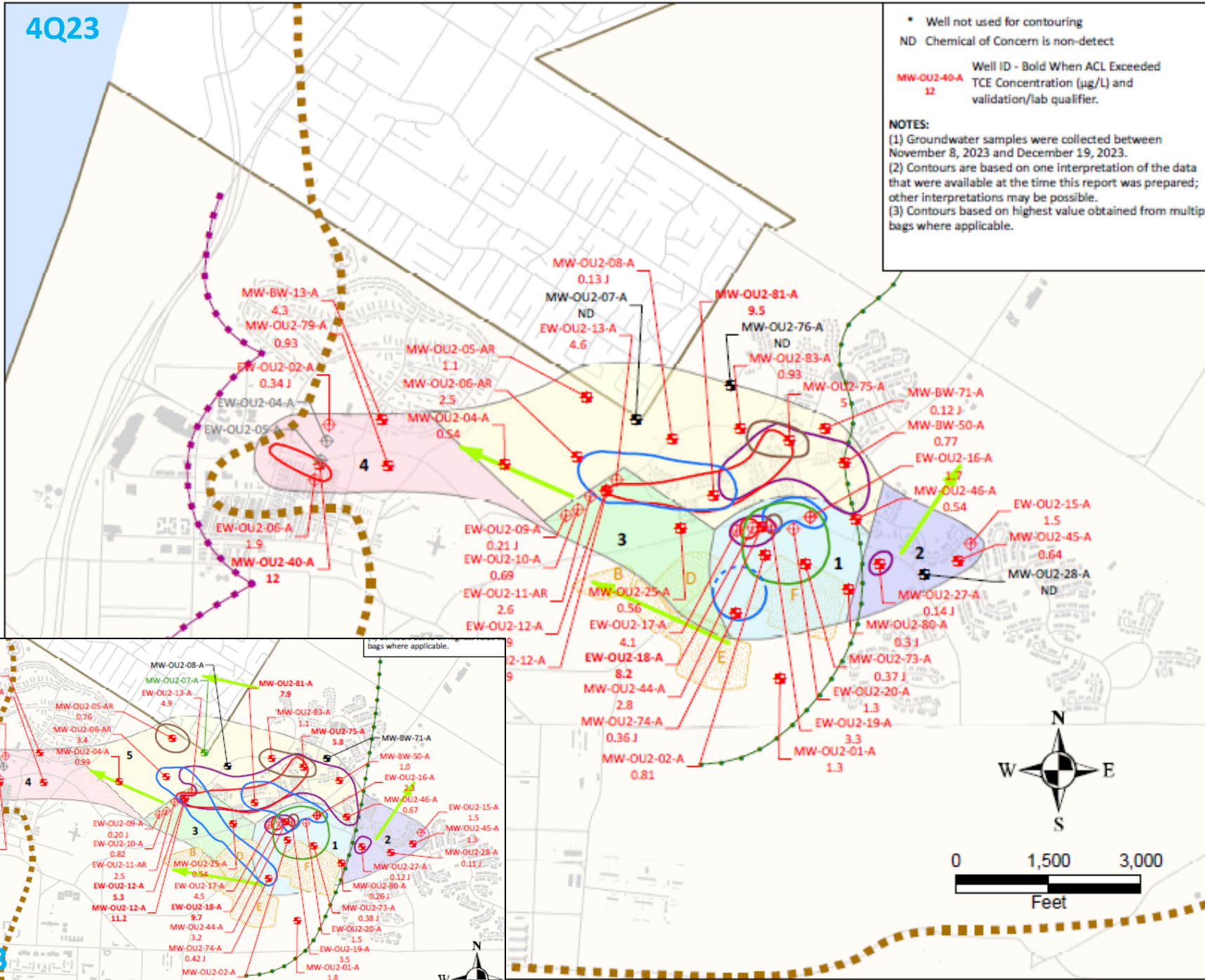
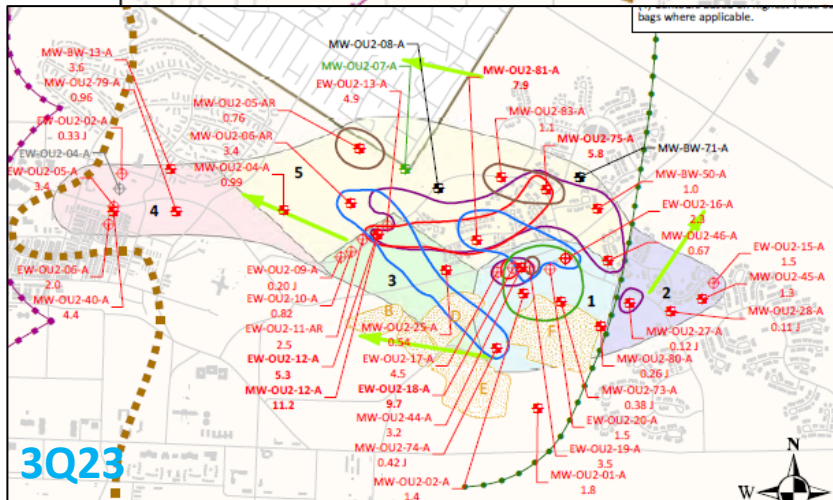
- * Well not used for contouring
- ND Chemical of Concern is non-detect

MW-OU2-40-A
12
Well ID - Bold When ACL Exceeded
TCE Concentration (µg/L) and
validation/lab qualifier.

NOTES:
 (1) Groundwater samples were collected between November 8, 2023 and December 19, 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 based on highest value obtained from multiple bags where applicable.

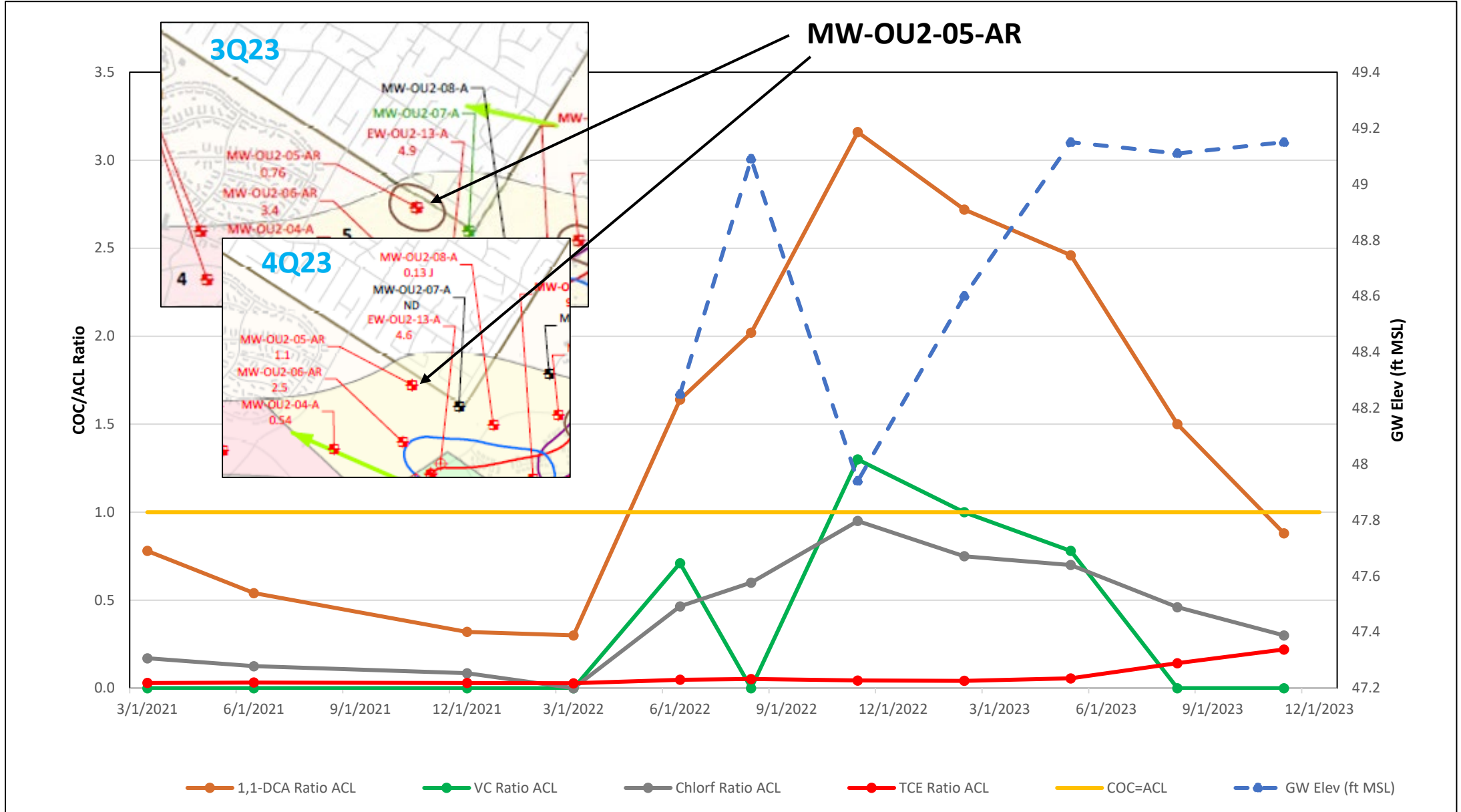
EXPLANATION

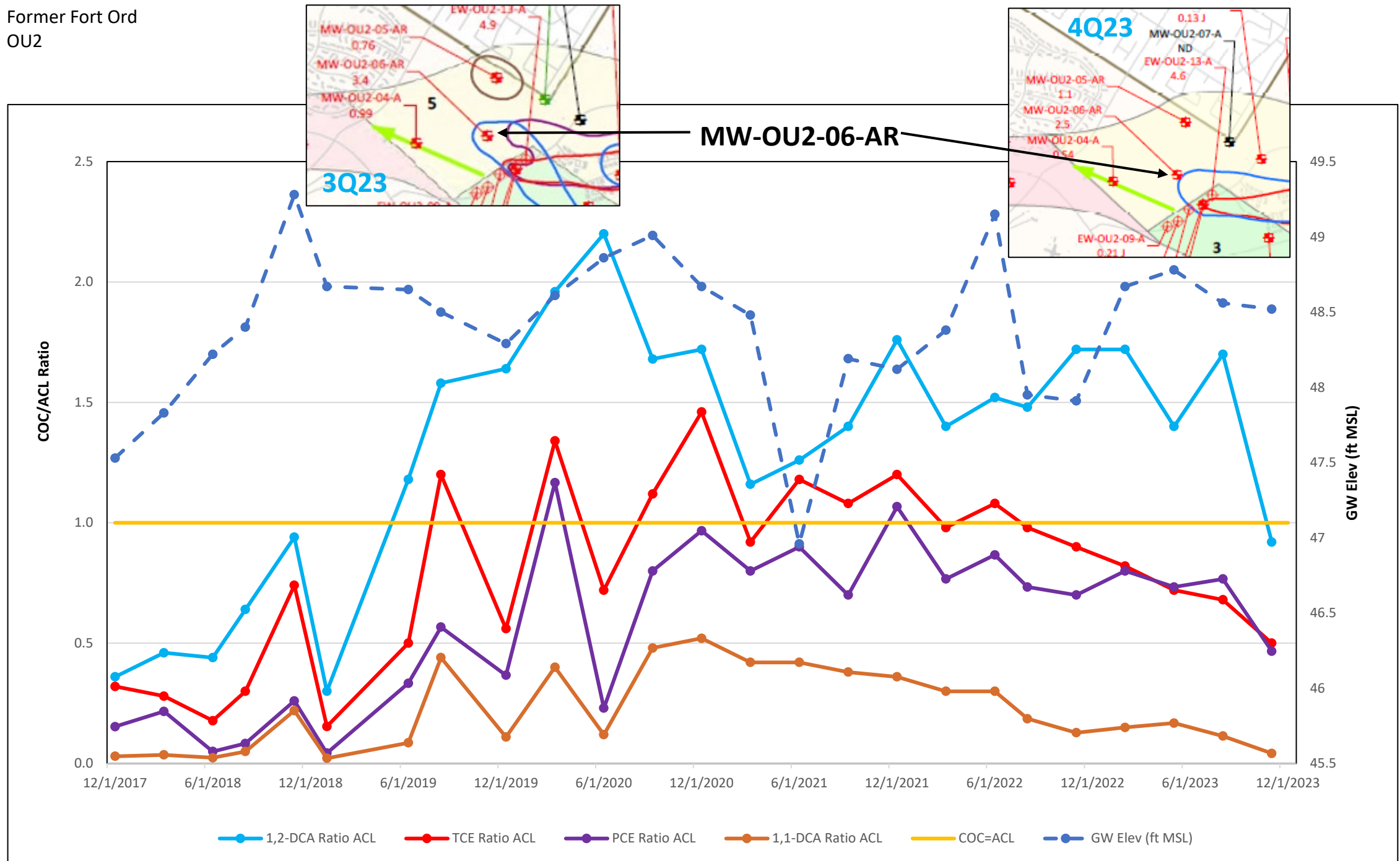
- Approximate edge of the Fort Ord-Salinas Valley Aquitard (FO-SVA)
- Roads
- Facilities
- Approximate extent of landfill areas (Areas B through F)
- Former Fort Ord boundary
- General groundwater flow direction
- Groundwater Divide**
- Approximate location of the A-Aquifer groundwater divide
- Approximate location of the A-Aquifer groundwater divide
- Well Type and COC Detection**
- Extraction well with trichloroethene (TCE) detected
- Extraction well not sampled
- Monitoring well with TCE detected
- Monitoring well with non-detect (ND) for TCE and no COC ACL exceedance
- Chemical of concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.**
- 5 Trichloroethene (TCE) plume extent
- 3 Tetrachloroethene (PCE) plume extent
- 5 1,1-Dichloroethane (1,1-DCA) plume extent
- 0.5 1,2-Dichloroethane (1,2-DCA) plume extent
- 0.5 1,2-Dichloroethane (1,2-DCA) inferred plume extent
- 0.1 Vinyl Chloride (VC) plume extent
- OU2 A-Aquifer Hydraulic Zone**
- 1
- 2
- 3
- 4
- 5

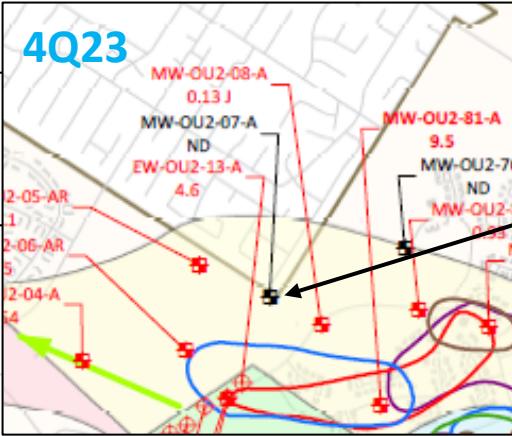


DRAFT

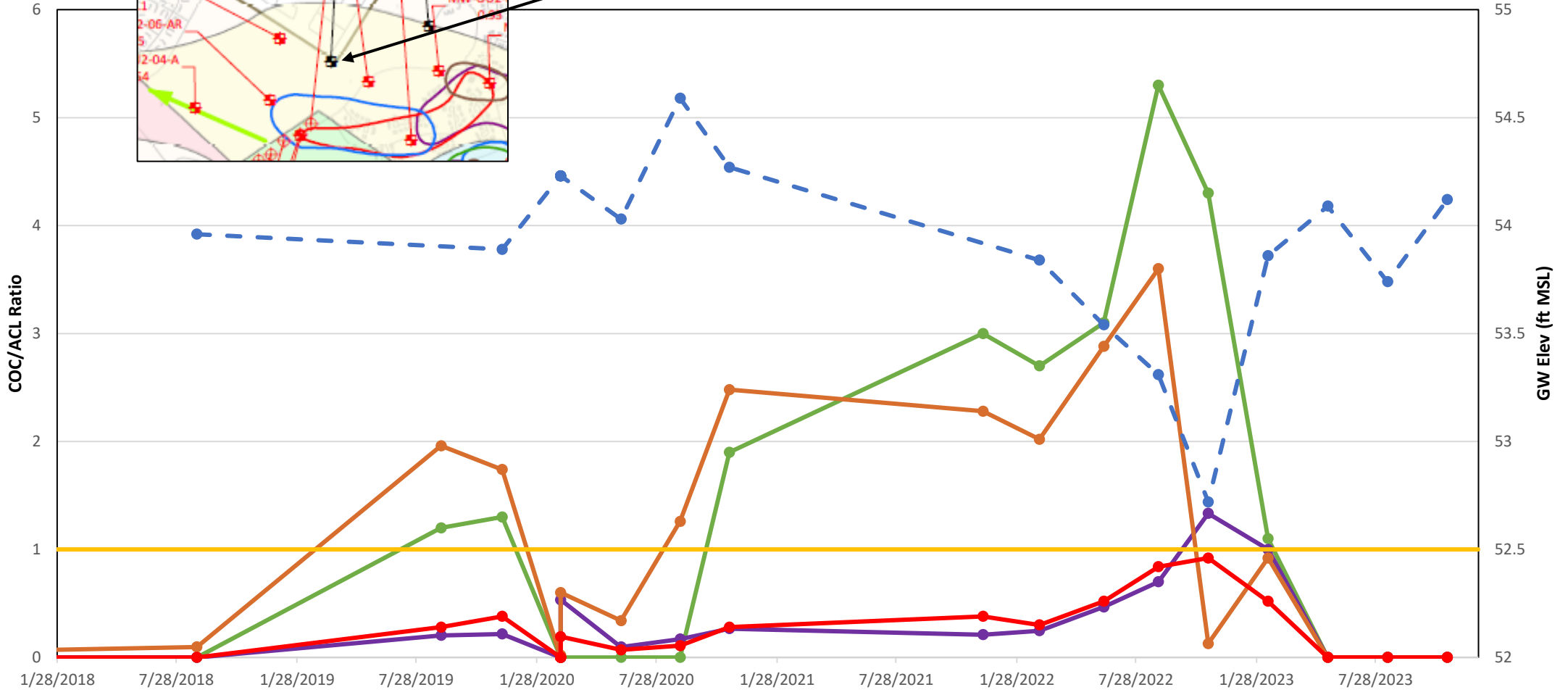
TCE CONCENTRATIONS AND OTHER COC ACL EXCEEDANCES
 A-AQUIFER
 FOURTH QUARTER 2023
 Operable Unit 2, Fourth Quarter 2023, Groundwater
 Monitoring and Treatment Report
 Former Fort Ord, California



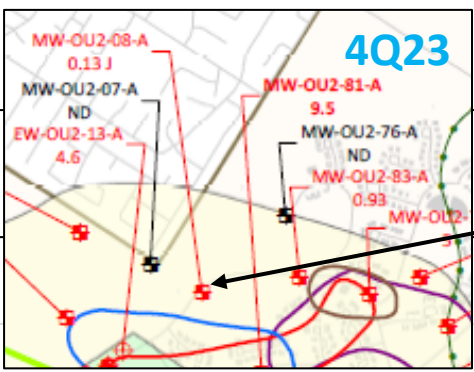




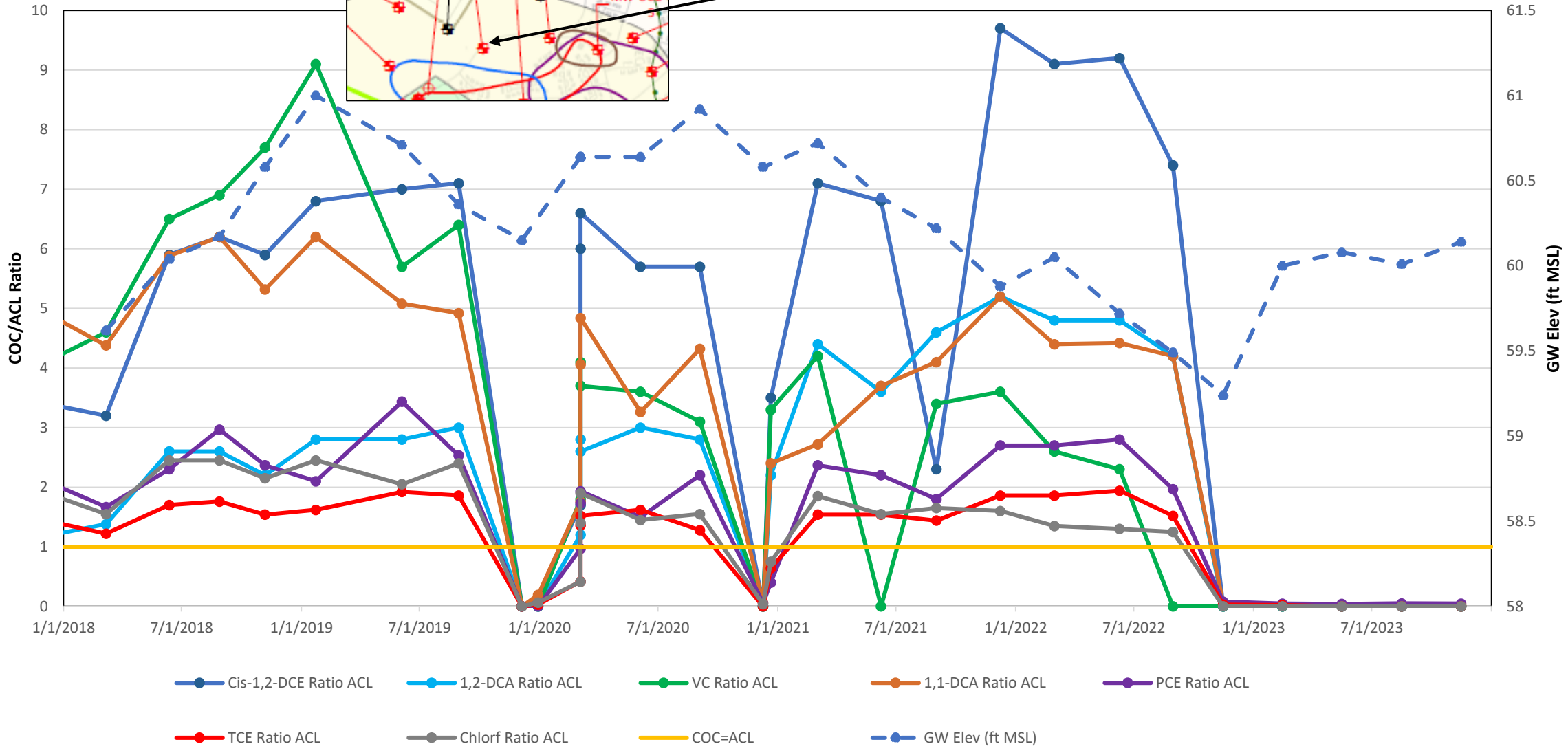
MW-OU2-07-A

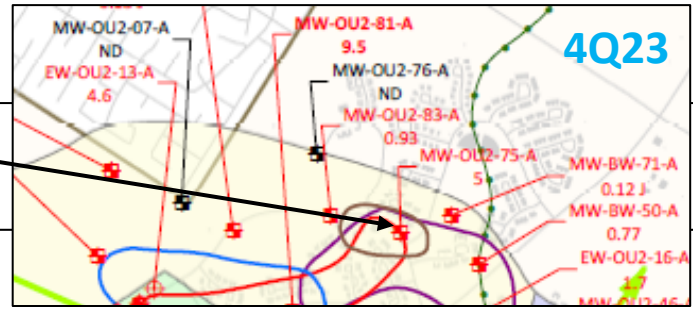
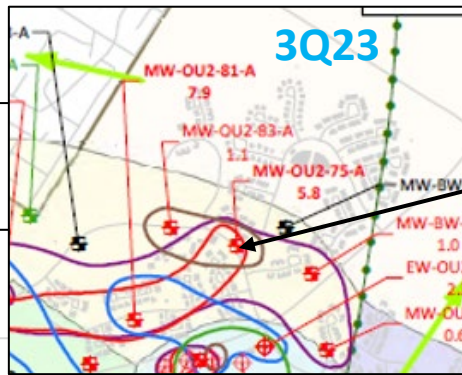


VC Ratio ACL PCE Ratio ACL 1,1-DCA Ratio ACL TCE Ratio ACL COC=ACL GW Elev (ft MSL)

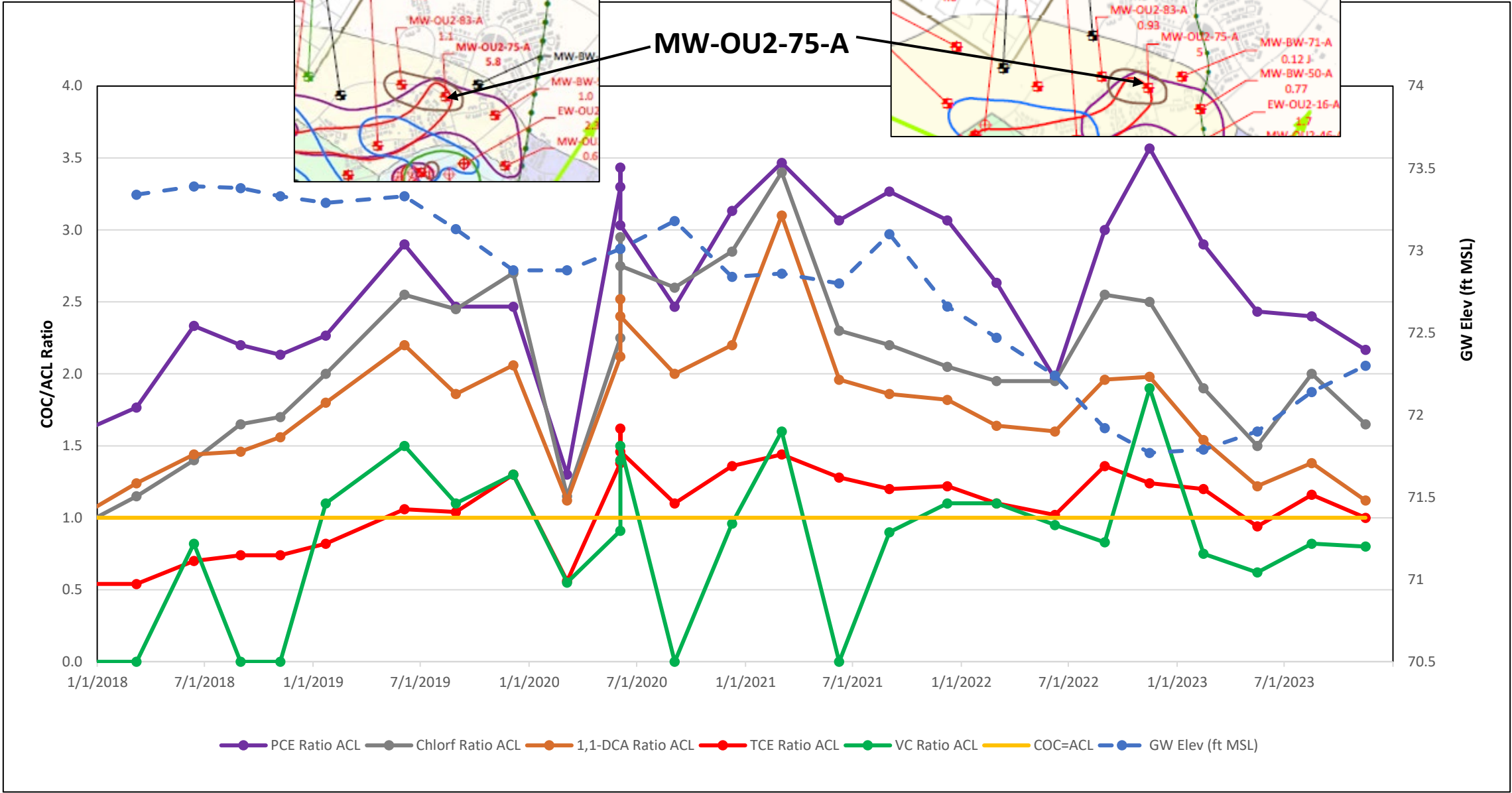


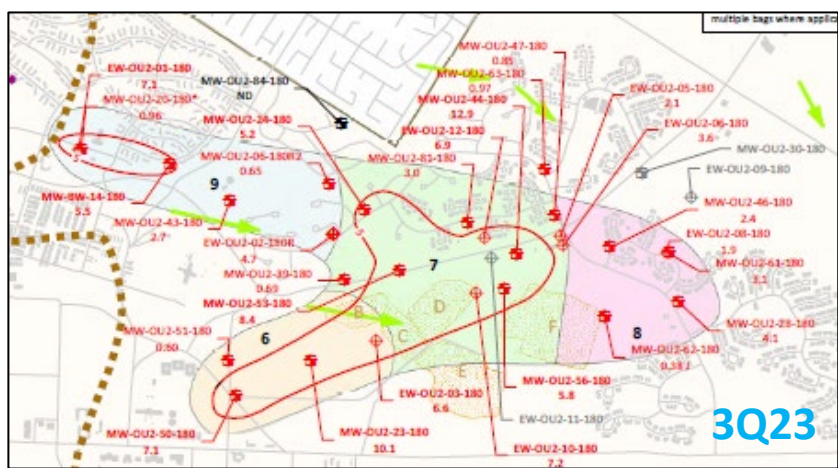
MW-OU2-08-A





MW-OU2-75-A





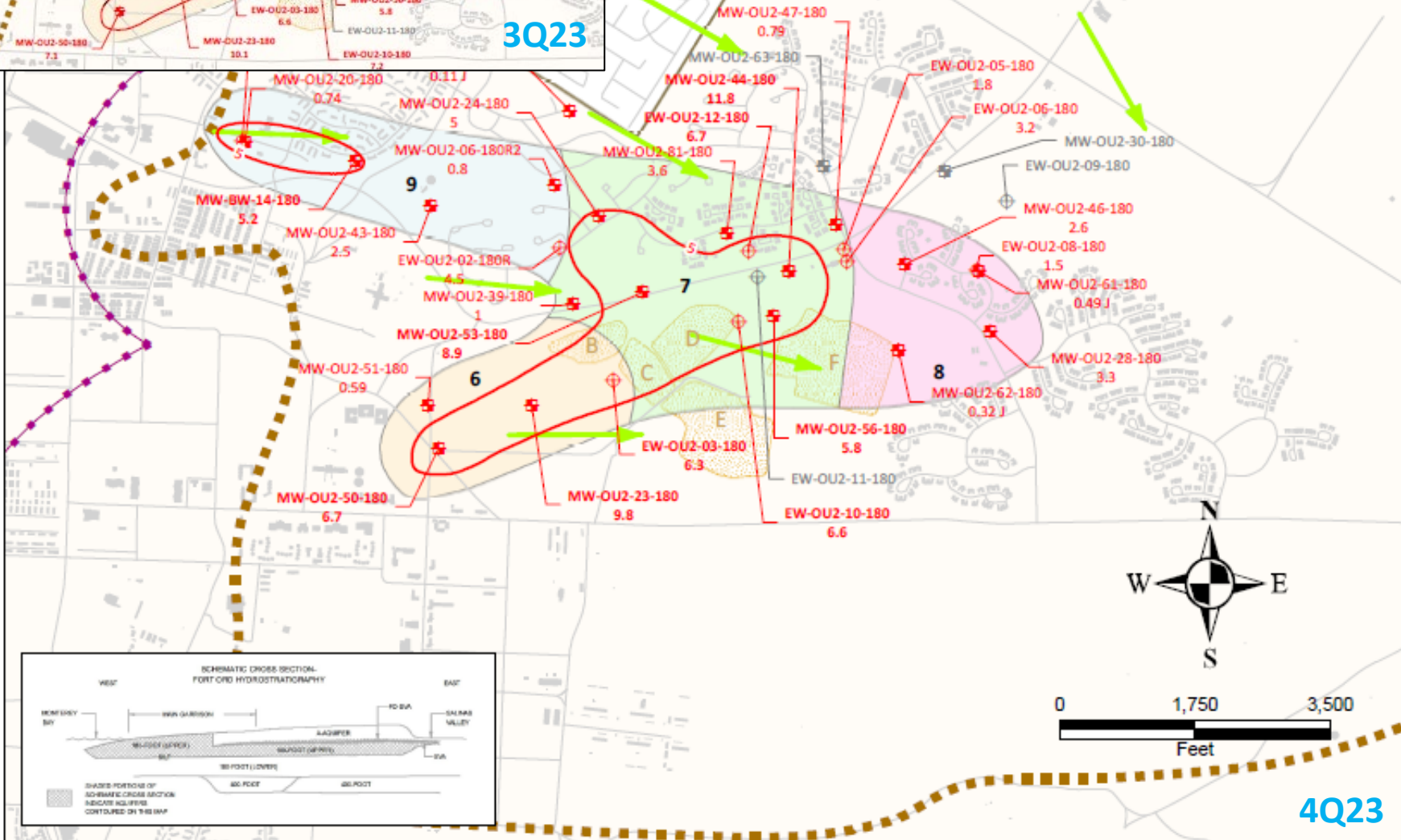
Well not used for contouring
 ND Chemical of Concern is non-detect

Well ID - Bold When ACL Exceeded
MW-OU2-44-180 TCE Concentration (µg/L) and validation/lab qualifier.
11.8

NOTES:
 (1) Samples were collected between November 9, 2023 and November 13, 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 based on highest value obtained from multiple bags where applicable.

EXPLANATION

- Roads
 - Approximate Edge of 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
 - ⊕ Extraction well with trichloroethene (TCE) detection
 - ⊖ Extraction well not sampled
 - ⊕ Monitoring well with TCE detection
 - ⊖ Monitoring well not sampled
- Chemical of concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L
- 5 — Trichloroethene (TCE) plume extent
- Groundwater Aquifer Divide
- ➔ Approximate location of the Upper 180-Foot Aquifer groundwater divide
- OU2 Upper 180-Foot Aquifer Hydraulic Zone
- 6
 - 7
 - 8
 - 9



DRAFT

TCE CONCENTRATIONS AND OTHER COC ACL EXCEEDANCES
 UPPER 180-FOOT AQUIFER
 FOURTH QUARTER 2023
 Operable Unit 2, Fourth Quarter, Groundwater
 Monitoring and Treatment Report
 Former Fort Ord, California

