

# Operable Unit 2 Data and Status

**Table 1: July-Aug 2022 – OU2 GWTP Statistics**

Monthly Statistics	Volume Treated (gallons)	Average Flow (gallons per minute)	Percent of Time Online	COC Mass Removed (pounds)
July 2022	45,283,119	1,014	100	3.0
August 2022	43,340,368	971	99.6	2.2
Total since October 1995	9.150 billion			948

## July-Aug Key Events

- Aug 5: Power outage caused 3-hour shut down.
- Aug 18: EW-OU2-06-A offline due to a failed pump.
- Aug 29-Sept 2: Third Quarter 2022 Groundwater Monitoring event.

## Future Key Events

- Repair and restart EW-OU2-05-A & EW-OU2-06-A.

**Table 2: July-Aug 2022 – OU2 Analytical Results at TS-OU2-INJ-01**

COC	Discharge Limit (µg/L)	Analytical Results (µg/L)
		8/15/2022
1,1-dichloroethane (1,1-DCA)	5.0*	0.23 J
1,2-dichloroethane (1,2-DCA)	0.5	ND (0.25)
1,2-dichloropropane (1,2-DCP)	0.5	ND (0.25)
Benzene	0.5	ND (0.25)
Carbon tetrachloride (CT)	0.5	ND (0.25)
Chloroform	2.0*	0.21 J
Cis-1,2-dichloroethene (cis-1,2-DCE)	6.0*	0.35 J
Methylene Chloride	0.5	ND (0.50)
Tetrachloroethene (PCE)	0.5	ND (0.25)
Trichloroethene (TCE)	0.5	ND (0.25)
Vinyl chloride (VC)	0.1	ND (0.10)

**Notes:**

COC: chemical of concern

µg/L: micrograms per liter

ND: The analyte was not detected above the limit of detection (LOD).

NS: not sampled.

J: Estimated results below the limit of quantitation (LOQ).

TS-OU2-INJ: Injection point of compliance, the OU2 effluent pipeline.

\*Discharge limits for low carbon affinity compounds were increased to the Aquifer Cleanup Level (ACL).

Results in italics are above the discharge limit, and results in **bold** and shaded are concentrations above the ACL

Results in gray are ND

^ Preliminary data



**Table 3.** OU2 A-Aquifer Select Extraction/Monitoring Well Data

OU2 Hydraulic Zone <sup>1</sup>	Well Identification <sup>2</sup>	Select COC Concentrations (µg/L)									
		2Q 2022					3Q 2022*				
		TCE	PCE	1,1-DCA	1,2-DCA	VC	TCE	PCE	1,1-DCA	1,2-DCA	VC
<b>ACL:</b>		<b>5</b>	<b>3</b>	<b>5</b>	<b>0.5</b>	<b>0.1</b>	<b>5</b>	<b>3</b>	<b>5</b>	<b>0.5</b>	<b>0.1</b>
1	EW-OU2-16-A	2.3	1.6	4.5	<b>1.6</b>	<b>0.46</b>					
1	EW-OU2-17-A	<b>6.8</b>	<b>4.7</b>	0.66	0.32 J	ND (0.10)					
1	EW-OU2-18-A	<b>11.3</b>	<b>5.1</b>	3.5	<b>0.72</b>	<b>0.22</b>					
1	EW-OU2-19-A	4.4	<b>4.4</b>	<b>7.6</b>	<b>1.5</b>	<b>0.80</b>					
1	EW-OU2-20-A	1.5	1.3	3.7	<b>0.65</b>	<b>0.59</b>					
1	MW-OU2-02-A	1.3	<b>3.5</b>	3.7	<b>0.79</b>	<b>6.2</b>	3.5	2.9	2.8	<b>0.64</b>	<b>2.5</b>
1	MW-OU2-44-A	4.1	<b>3.3</b>	<b>6.5</b>	<b>1.6</b>	ND (0.10)	4.0	<b>3.5</b>	<b>5.5</b>	<b>1.2</b>	ND (0.10)
1	MW-OU2-73-A	0.41 J	1.4	3.0	0.40 J	<b>2.7</b>	0.48 J	1.6	3.1	0.43 J	<b>2.4</b>
2	EW-OU2-15-A	1.6	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.10)	1.8	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.10)
2	MW-OU2-27-A	0.12 J	<b>3.6</b>	0.30 J	ND (0.25)	ND (0.10)	ND (0.25)	<b>3.7</b>	0.28 J	ND (0.25)	ND (0.10)
3	EW-OU2-09-A	0.19 J	0.27 J	ND (0.25)	0.15 J	ND (0.10)	0.24 J	0.26 J	ND (0.25)	0.14 J	0.055 J
3	EW-OU2-10-A	1.0	0.74	0.25 J	<b>0.54</b>	0.061 J	0.97	0.67	0.26 J	<b>0.52</b>	0.069 J
3	EW-OU2-11-AR	2.3	0.98	2.2	0.32 J	ND (0.10)	2.6	1.3	3.4	0.39 J	0.052 J
3	EW-OU2-12-A	<b>6.3</b>	<b>3.8</b>	3.1	<b>1.7</b>	0.058 J	<b>5.6</b>	<b>3.2</b>	3.0	<b>1.6</b>	ND (0.10)
3	EW-OU2-13-A	<b>6.0</b>	2.0	ND (0.25)	<b>3.8</b>	ND (0.10)	<b>5.6</b>	1.8	1.0	<b>3.7</b>	ND (0.10)
3	MW-OU2-12-A	<b>13.1</b>	<b>6.8</b>	<b>11.6</b>	<b>2.9</b>	<b>0.18</b>	<b>11.9</b>	<b>5.5</b>	<b>10.2</b>	<b>2.9</b>	<b>0.20</b>
3	MW-OU2-25-A	0.47 J	0.23 J	0.14 J	0.27 J	ND (0.10)	0.47 J	0.26 J	ND (0.25)	0.25 J	ND (0.10)

**Notes:**

ACL: Aquifer Cleanup Level

COC: chemical of concern

1,2-DCA: 1,2-dichloroethane

TCE: trichloroethene

PCE: tetrachloroethene

1,1-DCA: 1,1-dichloroethane

µg/L: micrograms per liter

NS: not sampled

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

J: Estimated result with a high (+) or low (-) bias.

<sup>1</sup> Hydraulic zones are identified in the Groundwater QAPP.

<sup>2</sup> Extraction wells not listed have met the QAPP decision rules to no longer operate.

Results in **bold** and shaded are concentrations above the ACL

Results in gray are ND

Results in brackets from a second deeper passive diffusion bag

\* Preliminary data

**Table 4.** OU2 A-Aquifer Select Extraction/Monitoring Well Data

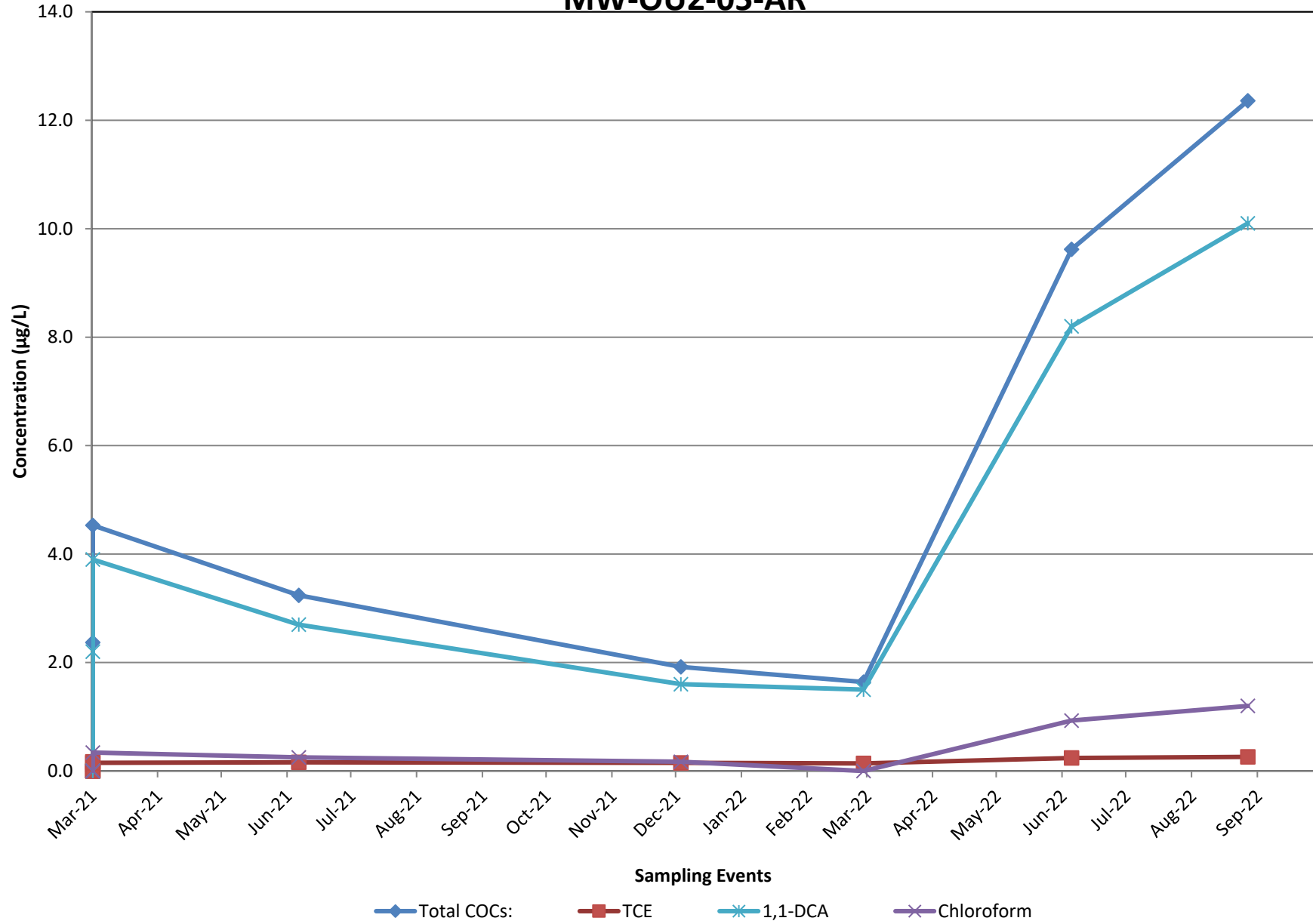
OU2 Hydraulic Zone <sup>1</sup>	Well Identification <sup>2</sup>	Select COC Concentrations (µg/L)									
		2Q 2022					3Q 2022*				
		TCE	PCE	1,1-DCA	1,2-DCA	VC	TCE	PCE	1,1-DCA	1,2-DCA	VC
	ACL:	5	3	5	0.5	0.1	5	3	5	0.5	0.1
4	EW-OU2-02-A	0.36 J	ND (0.25)	0.13 J	ND (0.25)	ND (0.10)	0.40 J	ND (0.25)	0.18 J	ND (0.25)	ND (0.10)
4	EW-OU2-04-A	2.5	0.25 J	0.72	ND (0.25)	ND (0.10)	2.6	0.27 J	0.91	ND (0.25)	ND (0.10)
4	EW-OU2-05-A	NS	NS	NS	NS	NS					
4	EW-OU2-06-A	3.1	0.28 J	0.14 J	ND (0.25)	ND (0.10)					
4	MW-OU2-40-A	<b>17.8</b>	0.52	0.27 J	ND (0.25)	ND (0.10)					
5	MW-OU2-04-A	2.7	1.1	0.75	<b>0.75</b>	ND (0.10)	2.1	0.68	0.58	<b>0.52</b>	ND (0.10)
5	MW-OU2-06-AR	<b>5.4</b>	2.6	1.5	<b>0.76</b>	ND (0.10)					
5	MW-OU2-07-A	2.6	1.4	<b>14.4</b>	<b>0.94</b>	<b>0.31</b>	<b>4.2</b>	2.1	<b>18.0</b>	<b>1.3</b>	<b>0.53</b>
5	MW-OU2-08-A	<b>9.7</b>	<b>8.4</b>	<b>22.1 J+</b>	<b>2.4</b>	<b>0.23</b>					
5	MW-OU2-75-A	<b>5.1</b>	<b>5.9</b>	<b>8.0</b>	0.11 J	0.095 J	<b>6.8</b>	<b>9.0</b>	<b>9.8</b>	0.15 J	0.083 J
5	MW-OU2-81-A	<b>13.6</b>	<b>5.6</b>	1.5	<b>0.76</b>	ND (0.10)	<b>17.0</b>	<b>6.4</b>	1.9	<b>1.0</b>	ND (0.10)
5	MW-OU2-83-A	1.9	1.3	<b>6.8</b>	0.30 J	0.072 J	1.7	0.76	<b>6.6</b>	0.37 J	ND (0.10)
5	MW-BW-50-A	0.67	<b>3.4</b>	0.68	ND (0.25)	ND (0.10)	0.79	<b>4.6</b>	0.79	ND (0.25)	ND (0.10)
5	MW-BW-71-A	ND (0.25)	0.20 J	NS	NS	ND (0.10)					
N/A	MW-OU2-05-AR	0.24 J	ND (0.25)	<b>8.2</b>	ND (0.25)	0.071 J	0.26 J	ND (0.25)	<b>10.1</b>	ND (0.25)	ND (0.10)
N/A	MW-OU2-76-A	ND (0.25)	ND (0.25)	0.11 J	ND (0.25)	ND (0.10)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.10)

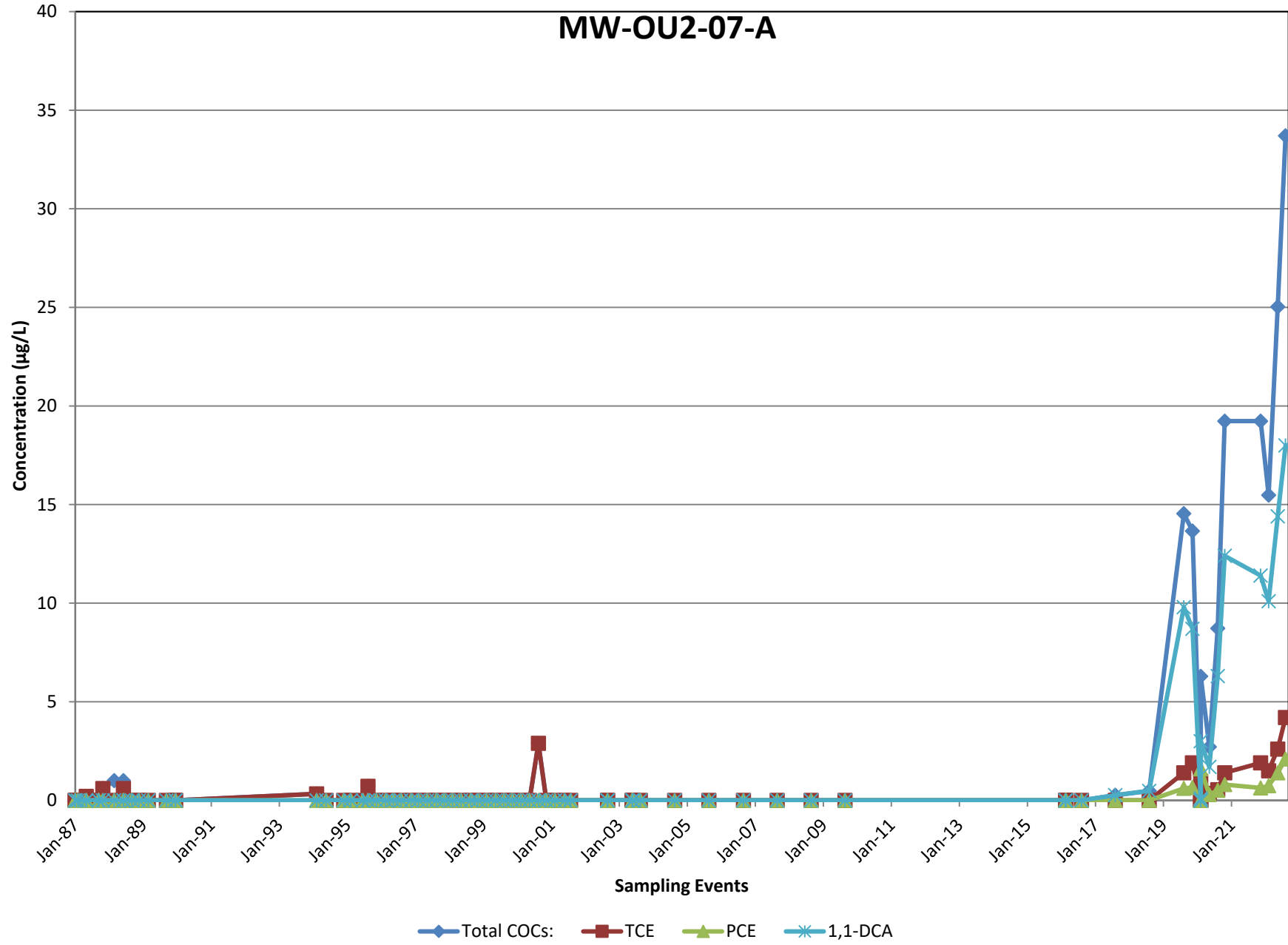
**Notes:**

- ACL: Aquifer Cleanup Level
- COC: chemical of concern
- 1,2-DCA: 1,2-dichloroethane
- TCE: trichloroethene
- PCE: tetrachloroethene
- 1,1-DCA: 1,1-dichloroethane
- µg/L: micrograms per liter
- NS: not sampled
- ND: The analyte was not detected above the detection limit.
- J: Estimated result with a high (+) or low (-) bias.
- <sup>1</sup> Hydraulic zones are identified in the Groundwater QAPP.
- <sup>2</sup> Extraction wells not listed have met the QAPP decision rules to no longer operate.
- Results in **bold** and shaded are concentrations above the ACL
- Results in gray are ND
- Results in brackets from a second deeper passive diffusion bag
- \* Preliminary data

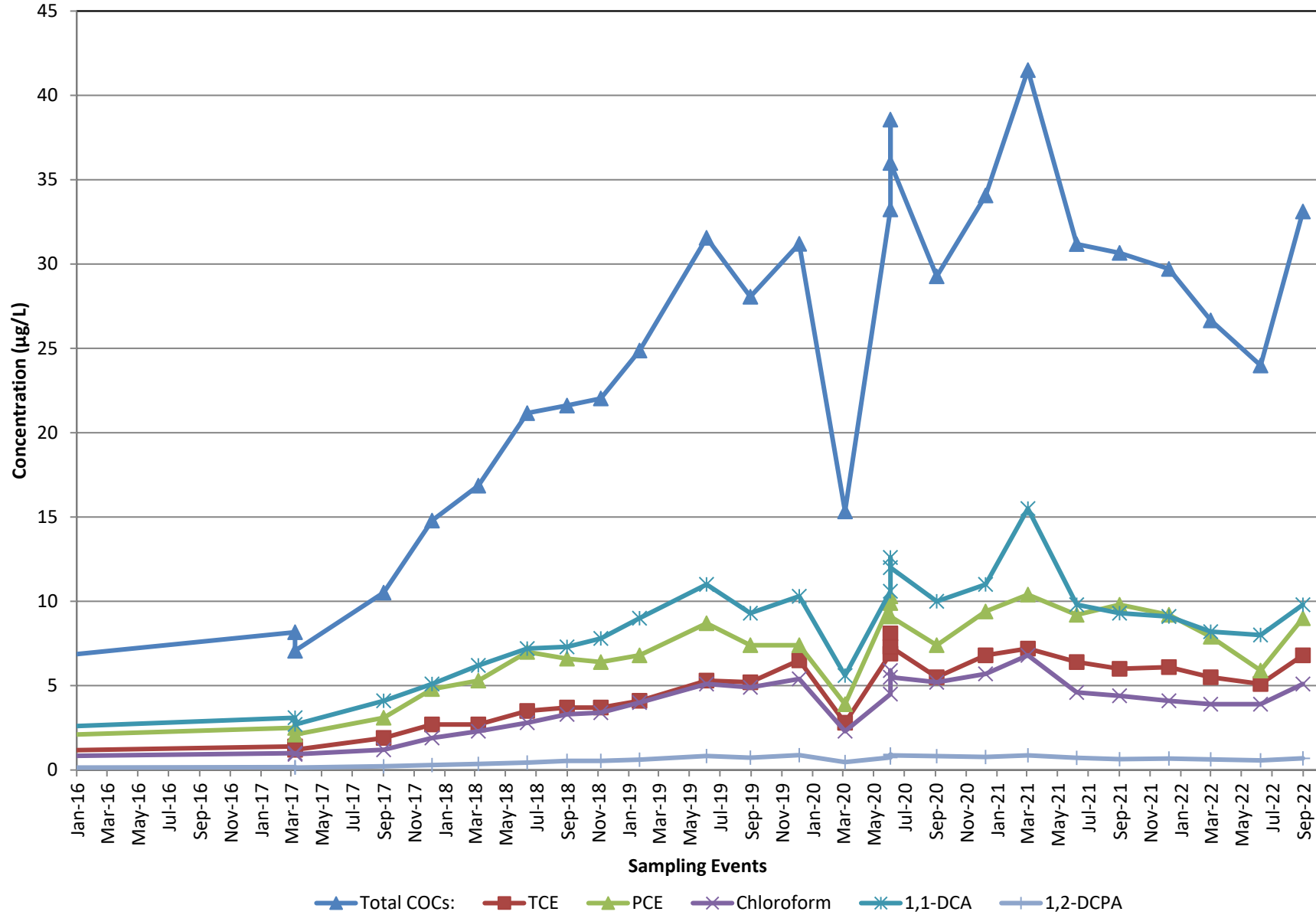


### MW-OU2-05-AR





### MW-OU2-75-A



**Table 5.** OU2 Upper 180-Foot Select Extraction/Monitoring Well Data

OU2 Hydraulic Zone <sup>1</sup>	Well Identification <sup>2</sup>	TCE Concentration (µg/L)			
		4Q 2021	1Q 2022	2Q 2022	3Q 2022*
<b>ACL:</b>		<b>5</b>			
6	EW-OU2-03-180	<b>8.1</b>	<b>7.4</b>	<b>7.9</b>	
6	MW-OU2-23-180	<b>13.5 J+</b>	<b>10.8</b>	<b>12.4</b>	<b>11.4</b>
6	MW-OU2-50-180	<b>15.9 J+</b>	<b>8.6</b>	<b>10.9 J+</b>	<b>11.1</b>
6	MW-OU2-51-180	0.72 J+	0.65	0.69	0.79
7	EW-OU2-05-180	2.0	2.1	2.4	
7	EW-OU2-06-180	3.3	3.6	3.9	
7	EW-OU2-10-180	<b>6.8</b>	<b>7.3</b>	<b>7.6</b>	
7	EW-OU2-11-180	3.8	4.2	4.8	
7	EW-OU2-12-180	<b>7.0</b>	<b>7.3</b>	<b>7.4</b>	<b>7.9</b>
7	MW-OU2-24-180	<b>9.5</b>	<b>8.0</b>	<b>7.4</b>	
7	MW-OU2-81-180	4.5	3.8	3.1	3.0
7	MW-OU2-44-180	<b>12.4</b>	<b>10.6</b>	<b>11.8</b>	<b>12.5</b>
7	MW-OU2-56-180	<b>7.0 J+</b>	<b>5.8</b>	<b>7.1</b>	<b>7.2</b>
8	EW-OU2-08-180	2.6	1.6	2.4 J+	
8	MW-OU2-28-180	<b>5.2 J+</b>	3.3	3.7	<b>5.3</b>
8	MW-OU2-62-180	1.9	1.5	1.1	0.73
9	EW-OU2-01-180	<b>9.7</b>	<b>9.6</b>	<b>9.2 J+</b>	
9	EW-OU2-02-180R	4.9	<b>5.2</b>	<b>5.7</b>	<b>5.6</b>
9	MW-OU2-06-180R2	1.2	1.2	0.87	
9	MW-OU2-43-180	2.4 J+	1.9	2.9	
N/A	MW-OU2-84-180	ND (0.25)	0.10 J	ND (0.25)	ND (0.25)

**Notes:**

ACL: Aquifer Cleanup Level

COC: chemical of concern

TCE: trichloroethene

µg/L: micrograms per liter

NS: not sampled

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

J: Estimated result with a high (+) or low (-) bias.

<sup>1</sup> Hydraulic zones are identified in the Groundwater QAPP.

<sup>2</sup> Extraction wells not listed have met the QAPP decision rules to no longer operate.

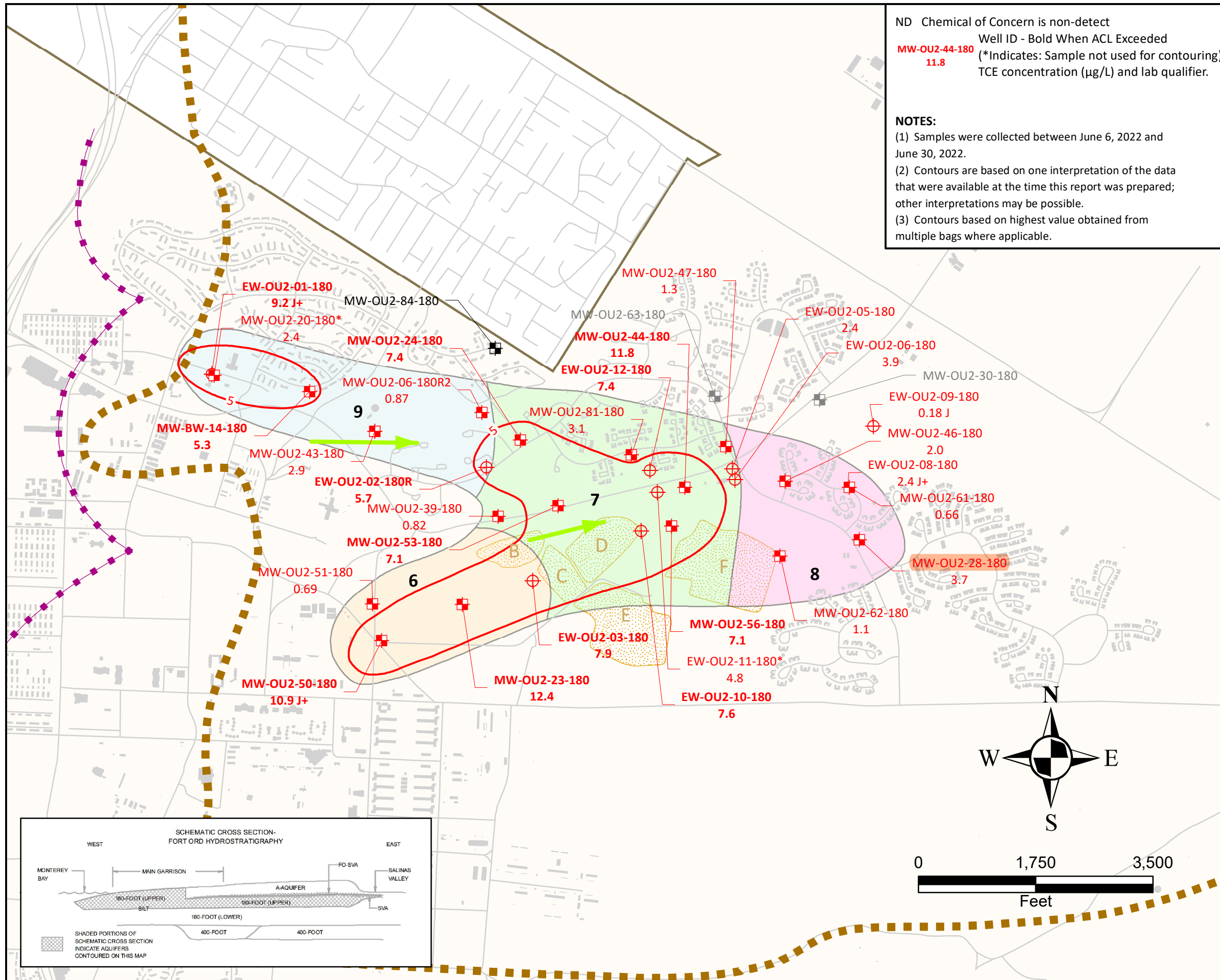
Results in **bold** and shaded are concentrations above the ACL

Results in *gray* are ND

Results in brackets from a second deeper passive diffusion bag

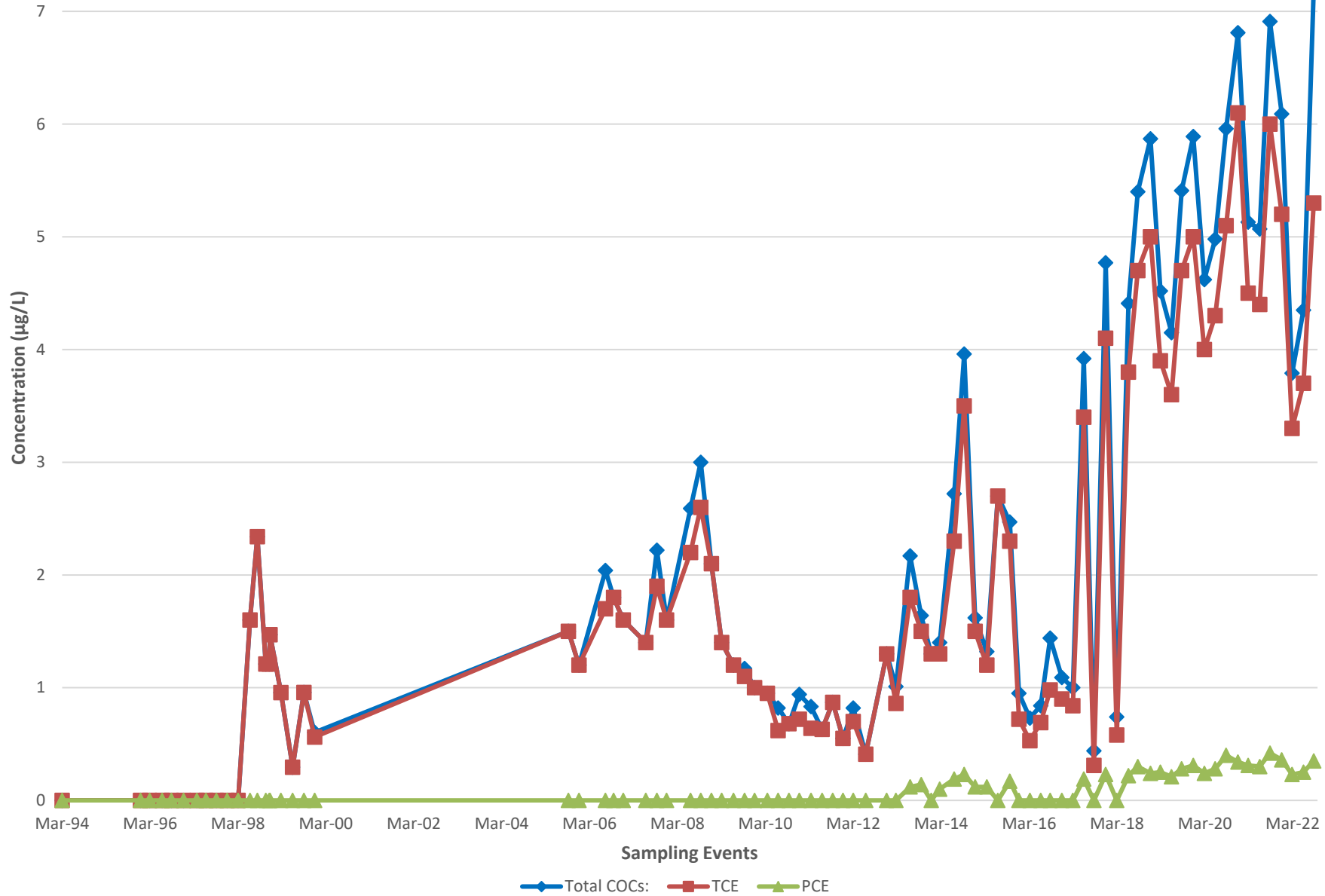
\* Preliminary data





**Ahtna** Date: 8/11/2022 Figure: 11

# MW-OU2-28-180



### MW-OU2-62-180

