

# Former Fort Ord Operable Unit 2 Data and Status

HTW BCT, July 13, 2018

**Table 1:** OU2 GWTP Statistics as of June 30, 2018

Monthly Statistics	Volume Treated (gallons)	Average Flow (gallons per minute)	Percent of Time Online	COC Mass Removed (pounds)
June 2018	18,999,412	440	85.1	1.1
Total since October 1995	7.360 billion			836

**Table 2:** June 2018 – OU2 Analytical Results at TS-OU2-INJ

COC	Discharge Limit (µg/L)	Analytical Results (µg/L)
		06/19/2018
1,1-dichloroethane (1,1-DCA)	5.0*	ND (0.25)
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*	ND (0.25)
Cis-1,2-dichloroethene (cis-1,2-DCE)	6.0*	ND (0.25)
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 (0.05)

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

Results in gray are ND

**June 2018 Key Events for OU2**

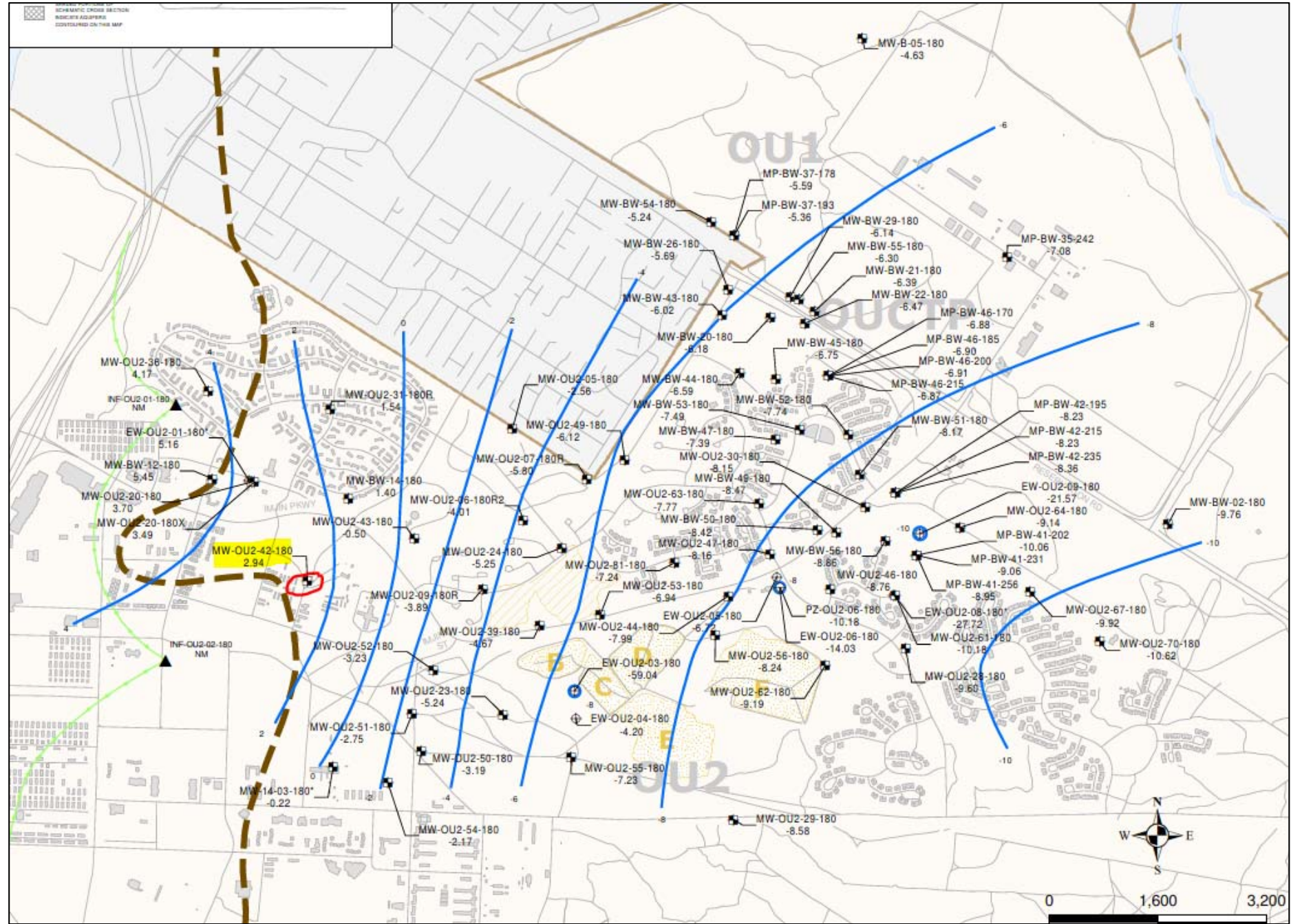
- June 1 to 5: OU2 GWTP shut down for 104.5 hours for Sea Haven extraction well surface adjustments at EW-OU2-09-A and EW-OU2-10-A, decommissioning of EW-OU2-08-A, and removal of decommissioned well vault EW-OU2-02-180.
- June 6: Eastern network extraction wells restarted.
- June 11 to 14: Second Quarter 2018 Groundwater Monitoring Program (GWMP) conducted.
  - MW-OU2-42-180 found to be damaged by Marina Coast Water District (MCWD) contractor. Well vault, concrete collar, and upper 2 feet of well casing were removed and the well buried. Well used for groundwater elevation data only.
  - It was observed that a Las Animas concrete washout are is near MW-OU2-21-A. Well used for groundwater elevation data only.
- June 19: OU2 GWTP shut down for three hours for GAC change out.
- June 19: Meeting with MCWD onsite to discuss path forward for MW-OU2-42-180. Well information provided for MCWD to locate well and uncover it.
- June 26: Las Animas agreed to discontinue concrete washout near MW-OU2-21-A.

**July 2018 Key Events for OU2**

- Observe MCWD excavation to locate MW-OU2-42-180.
- Confirm Las Animas is no longer doing concrete washout near MW-OU2-21-A.
- Coordinate with Burleson and KEMRON for treated water use.
- Continue to prepare for GWTP decommissioning.
- Prepare for 2018 well decommissioning of four OU2 A-Aquifer monitoring wells.
- Prepare for 2018 well installation of one new OU2 A-Aquifer monitoring well.
- Prepare for 2018 PFOA/PFOS sampling at select wells and GWTP.



# MW-OU2-42-180







**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)									
		1Q 2018					2Q 2018*				
		TCE	PCE	1,1-DCA	1,2-DCA	VC	TCE	PCE	1,1-DCA	1,2-DCA	VC
<b>ACL:</b>		<b>5.0</b>	<b>3.0</b>	<b>5.0</b>	<b>0.5</b>	<b>0.1</b>	<b>5.0</b>	<b>3.0</b>	<b>5.0</b>	<b>0.5</b>	<b>0.1</b>
1	EW-OU2-16-A	3.0	2.9	<b>7.5</b>	<b>2.3</b>	<b>0.88</b>	2.7	2.6	<b>6.4</b>	<b>2.0</b>	<b>0.62</b>
1	MW-OU2-02-A	0.18 J	2.4	<b>7.0</b>	<b>1.4</b>	<b>10.5</b>	0.15 J	2.6	<b>6.6</b>	<b>1.3</b>	<b>8.4</b>
1	MW-OU2-44-A	<b>5.9</b>	<b>7.8</b>	<b>17.1</b>	<b>4.5</b>	<b>0.94</b>	<b>6.8</b>	<b>8.8</b>	<b>17.9</b>	<b>5.1</b>	<b>0.77</b>
1	MW-OU2-73-A	ND (0.25)	1.2	<b>5.8</b>	<b>1.0</b>	<b>11.4</b>	ND (0.25)	1.1	<b>7.8</b>	<b>1.3</b>	<b>10.0</b>
2	EW-OU2-15-A	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.05)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.05)
2	MW-OU2-27-A	ND (0.25)	2.9	0.22 J	ND (0.25)	ND (0.05)	0.11 J	<b>3.8</b>	0.30 J	ND (0.25)	ND (0.05)
3	EW-OU2-09-A	0.25 J	0.27 J	0.10 J	0.24 J	ND (0.05)	0.22 J	0.26 J	0.12 J	0.29 J	0.099 J
3	EW-OU2-10-A	1.9	1.1	0.75	<b>0.87</b>	ND (0.05)	2.0	1.1	0.85	<b>1.0</b>	0.080 J
3	EW-OU2-12-A	<b>7.3</b>	<b>3.8</b>	<b>6.2</b>	<b>1.5</b>	<b>0.13</b>	<b>7.5</b>	<b>4.4</b>	<b>6.8</b>	<b>1.8</b>	<b>0.11</b>
3	EW-OU2-13-A	<b>7.4</b>	2.4	1.8	<b>3.6</b>	ND (0.05)	<b>7.0</b>	2.4	1.8	<b>3.6</b>	ND (0.05)
3	MW-OU2-25-A	1.0	0.37 J	0.44 J	0.44 J	ND (0.05)	0.54	0.23 J	0.23 J	0.15 J	ND (0.05)
4	EW-OU2-02-A	0.41 J	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.05)	NS	NS	NS	NS	NS
4	EW-OU2-04-A	1.6	ND (0.25)	0.10 J	ND (0.25)	ND (0.05)	1.3	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.05)
4	EW-OU2-05-A	4.3	0.24 J	0.24 J	ND (0.25)	ND (0.05)	4.8	0.28 J	0.30 J	ND (0.25)	ND (0.05)
4	EW-OU2-06-A	3.0	0.29 J	0.15 J	ND (0.25)	ND (0.05)	3.1	0.33 J	0.18 J	ND (0.25)	ND (0.05)
4	MW-OU2-40-A	4.6	0.46 J	0.32 J	ND (0.25)	ND (0.05)	4.6	0.44 J	0.35 J	0.11 J	ND (0.05)
5	MW-OU2-04-A	4.2	0.62	0.32 J	0.13 J	ND (0.05)	4.1	0.62	0.37 J	0.18 J	ND (0.05)
5	MW-OU2-06AR	1.4	0.65	0.18 J	0.23 J	ND (0.05)	0.89	0.15 J	0.12 J	0.22 J	ND (0.05)
5	MW-OU2-08-A	<b>6.1</b>	<b>5.0</b>	<b>21.9</b>	<b>0.69 J</b>	<b>0.46</b>	<b>8.5</b>	<b>6.9</b>	<b>29.4</b>	<b>1.3</b>	<b>0.65</b>
5	MW-OU2-75-A	2.7	<b>5.3</b>	<b>6.2</b>	ND (0.25)	ND (0.05)	3.5	<b>7.0</b>	<b>7.2</b>	ND (0.25)	0.082 J
5	MW-OU2-81-A	<b>10.1</b>	<b>12.2</b>	4.3	0.16 J	ND (0.05)	<b>10.7</b>	<b>12.1</b>	4.2	0.18 J	ND (0.05)

**Table 4.** OU2 Upper 180-Foot Select Extraction/Monitoring Well Data

OU2 Hydraulic Zone <sup>1</sup>	Well Identification <sup>2</sup>	TCE Concentration (µg/L)	
		1Q 2018	2Q 2018*
<b>ACL:</b>		<b>5.0</b>	
6	EW-OU2-03-180	<b>8.8</b>	<b>10.0</b>
6	MW-OU2-50-180	<b>10.0</b>	<b>11.1</b>
7	EW-OU2-06-180	<b>5.3</b>	<b>5.4</b>
7	MW-OU2-81-180	<b>7.1</b>	<b>6.3</b>
7	MW-OU2-44-180	<b>15.5</b>	<b>15.7</b>
9	EW-OU2-01-180	<b>11.8</b>	<b>6.1</b>
9	MW-OU2-06-180R2	2.8	2.4
9	MW-OU2-43-180	4.7	2.9

**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 results





