

**ADEQ**  
**16<sup>th</sup> Street and Camelback WQARF Site Update**  
**October 16<sup>th</sup>, 2019**

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ADEQ completed two additional rounds of enhanced reductive de-chlorination (ERD) injections in January and April 2019 and conducted groundwater sampling in April 2019. Groundwater analytical results indicated concentrations of tetrachloroethylene (PCE) were either below laboratory detection limits or below Aquifer Water Quality Standards (AWQS) in all but two groundwater monitoring wells. Wells MW-12 and MW-10R had PCE concentrations of 5.6 ug/L and 8.8 ug/L respectively which were above the AWQS of 5 ug/L. Since the start of ERD injections to accelerate the monitored natural attenuation (MNA) remedy in 2016, both the source area and down-gradient treatment wells have seen PCE concentrations continue to decrease. ADEQ will perform groundwater sampling during the Fall of 2019 and the Spring of 2020.

- **Attachment 1 (Site Map)** – Shows the location of the Site and the groundwater monitor well network.
- **Attachment 2 (April 2019 Groundwater Water Level Measurements for Groundwater Wells)** – Shows April 2019 groundwater elevations above mean sea level in the groundwater monitor well network.
- **Attachment 3 (April 2019 Groundwater CVOC Concentrations)** – Shows April 2019 chlorinated volatile organic compound (CVOC) concentrations in the groundwater monitor well network.
- **Attachment 4 (Current and Historical PCE Data)** – Tables showing current and historical PCE for the Site.

**For questions, please contact:**

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**Attachment 1**  
**Site Map**

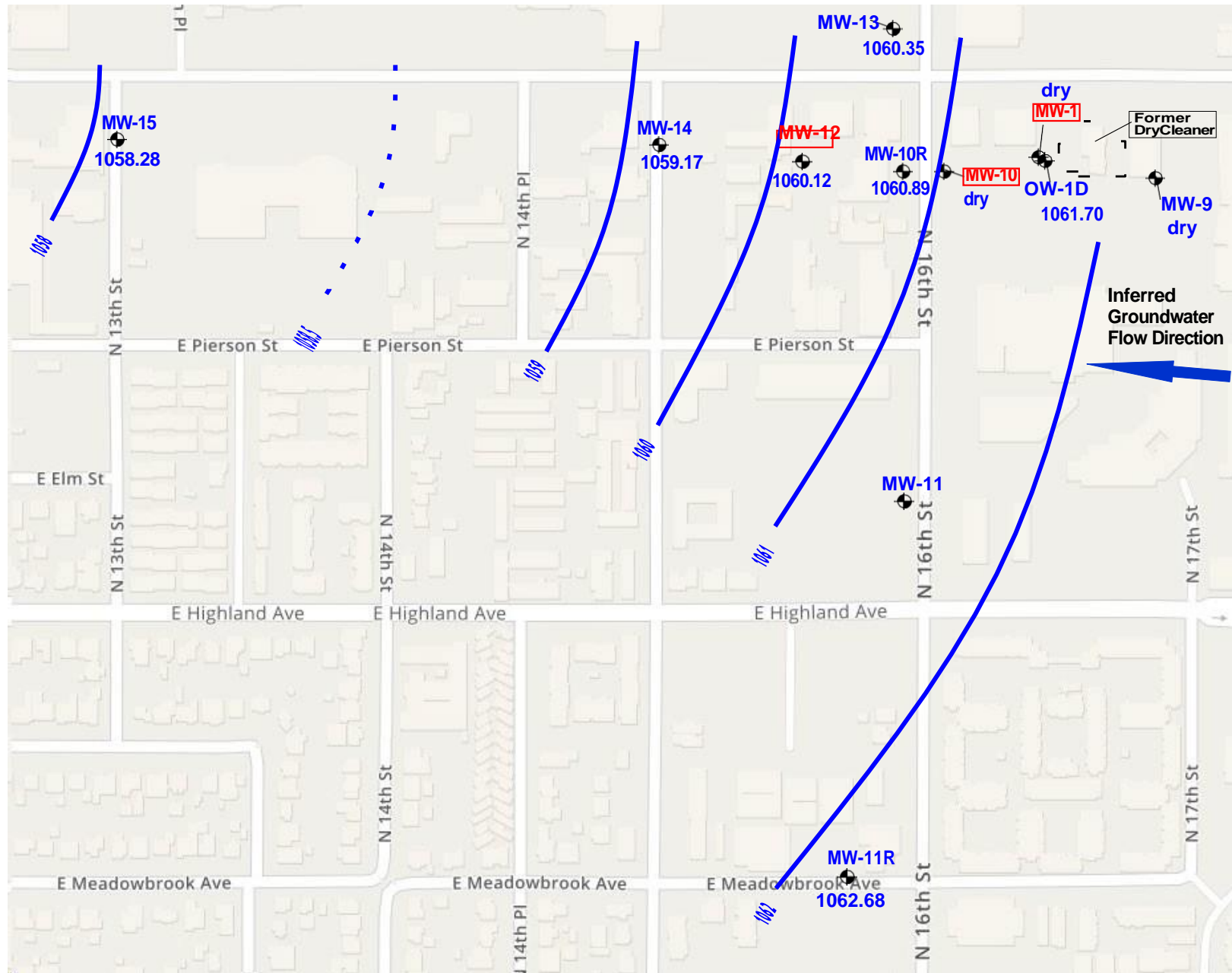


# 16th Street and Camelback ROD O&M





**Attachment 2**  
**Groundwater Elevations**



**Legend**

- MW-10 ● Monitoring Well
- MW-12 ● Injection Well

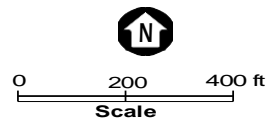
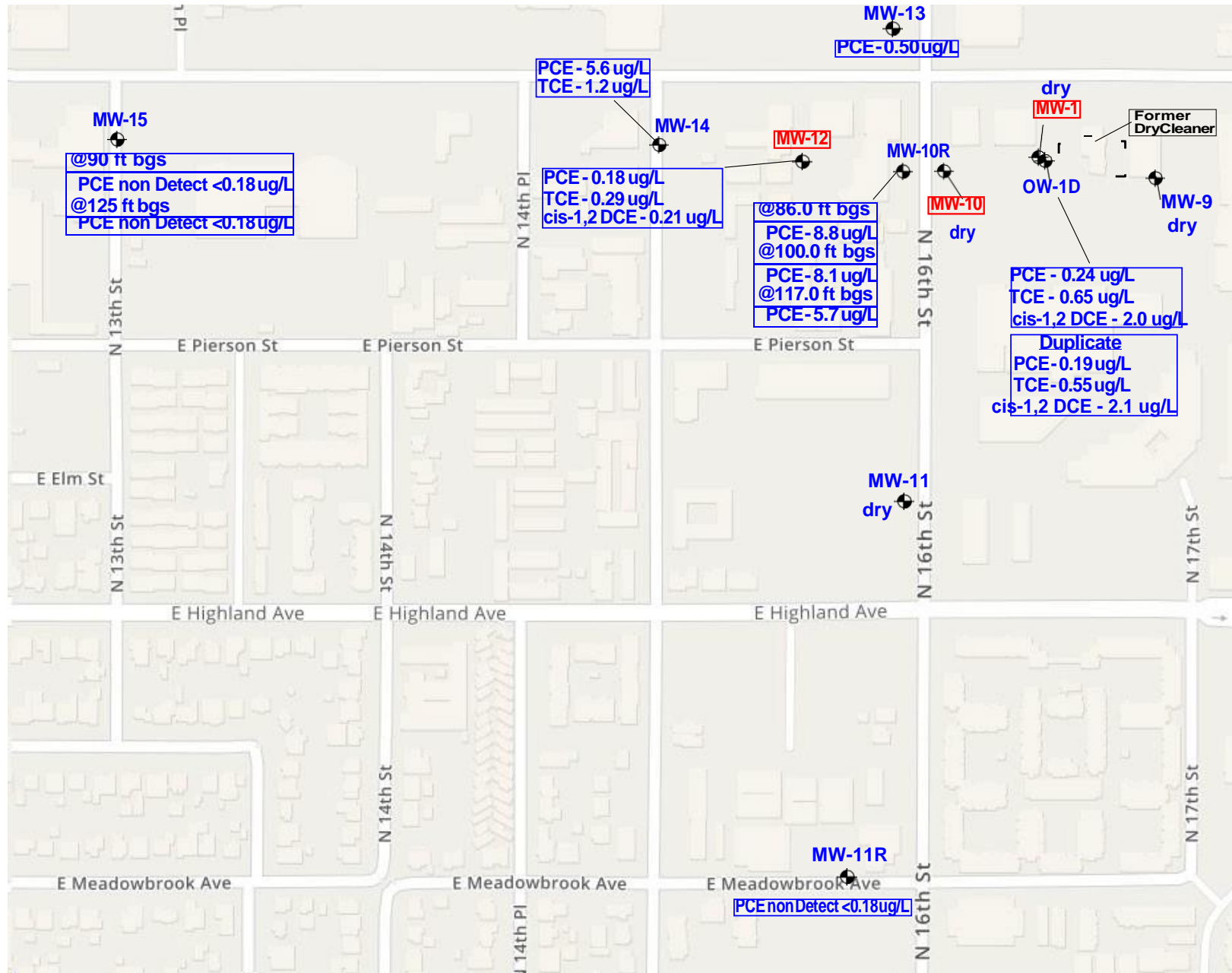


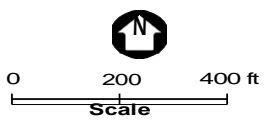
Figure 2  
Groundwater Elevations - April 2019  
16th and Camelback WQARF Site

**Attachment 3**  
**Groundwater CVOC Concentrations**



**Legend**

- MW-10 Monitoring Well
- MW-12 Injection Well



Groundwater CV Figure 3 concentrations - April 2019  
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 16th and Camelback WQARF Site

**Attachment 4**  
**Current and Historical PCE Data**



Table 3 Current and Historical PCE Data

Well Name	Sample Date	PCE in µg/L
MW-1	5/20/2013	5.9
	2/5/2014	3.3
	4/17/2014	11.4
	2/18/2015	25.2
	4/26/2016	--DRY
	10/24/2016	--DRY
	5/16/2017	--DRY
	10/23/2017	--DRY
	6/15/2018	--DRY
OW-1D	5/20/2013	2.58
	2/5/2014	1.45
	4/17/2014	1.84
	2/18/2015	2.06
	4/26/2016	1.9
	10/24/2016	3.4
	5/16/2017	2.9
	10/23/2017	1.4 / 1.5 (dup)
	5/1/2018	<0.18
	6/15/2018	<0.18
	11/17/2018	0.25 / <0.18 (dup)
	<b>4/12/2019</b>	<b>0.24 / 0.19 (dup)</b>
MW-10	5/20/2013	31.9
	2/5/2014	12.5
	4/17/2014	13.3
	2/18/2015	12.9
	4/26/2016	16
	10/24/2016	--DRY
	5/16/2017	--DRY
	10/23/2017	--DRY
	6/15/2017	--DRY
MW-10R @86 ft	11/17/2018	11
	<b>4/12/2019</b>	<b>8.8</b>
MW-10R @100 ft	11/17/2018	11
	<b>4/12/2019</b>	<b>8.1</b>
MW-10R @117 ft	11/17/2018	4.8
	<b>4/12/2019</b>	<b>5.7</b>
MW-11R	11/17/2018	0.41
	<b>4/12/2019</b>	<b>&lt;0.18</b>

Table 3 Current and Historical PCE Data

Well Name	Sample Date	PCE in µg/L
MW-12	5/20/2013	8.94
	2/5/2014	4.73
	4/17/2014	5.65
	2/18/2015	8.98
	2/18/2015	7.67
	10/24/2016	9.1
	5/16/2017	7
	10/23/2017	3.1
	5/1/2018	0.89
	6/15/2018	0.43
	11/17/2018	2.9
	<b>4/12/2019</b>	<b>0.18</b>
	MW-13	2/5/2014
4/17/2014		1.68
3/21/2015		3.77
10/24/2016		8.2
10/23/2017		2.1
6/15/2018		0.5
11/17/2018		0.66
<b>4/12/2019</b>		<b>0.50</b>
MW-14	2/5/2014	1.42
	4/17/2014	2.33
	3/21/2015	4.29
	10/24/2016	5.4
	5/16/2017	4.8
	10/23/2017	6.4
	5/1/2018	6.7
	6/15/2018	4.1 / 3.4 (dup)
	11/17/2018	6.1
	<b>4/12/2019</b>	<b>5.6</b>
MW-15 @ 90 ft	10/23/2017	<0.18
	6/15/2018	<0.18
	11/17/2018	0.30
	<b>4/12/2019</b>	<b>&lt;0.18</b>
MW-15 @ 125 ft	6/15/2018	<0.18
	6/15/2018	<0.18
	11/17/2018	0.33
	<b>4/12/2019</b>	<b>&lt;0.18</b>

Notes:

**Bold - Indicates most recent sample.**