



March 13, 2019

**ELECTRONIC MAIL: [chris.ralston@maryland.gov](mailto:chris.ralston@maryland.gov)**

Mr. Christopher Ralston  
Maryland Department of the Environment  
Remediation Division, Oil Control Program  
1800 Washington Blvd., Suite 620  
Baltimore, Maryland 21230

**SUBJECT: INITIATION OF RECOVERY FROM MW-73C AND MW-82D  
INACTIVE EXXON FACILITY #28077  
14258 JARRETTSVILLE PIKE  
PHOENIX, BALTIMORE COUNTY, MARYLAND  
MDE CASE #2006-0606-BA2**

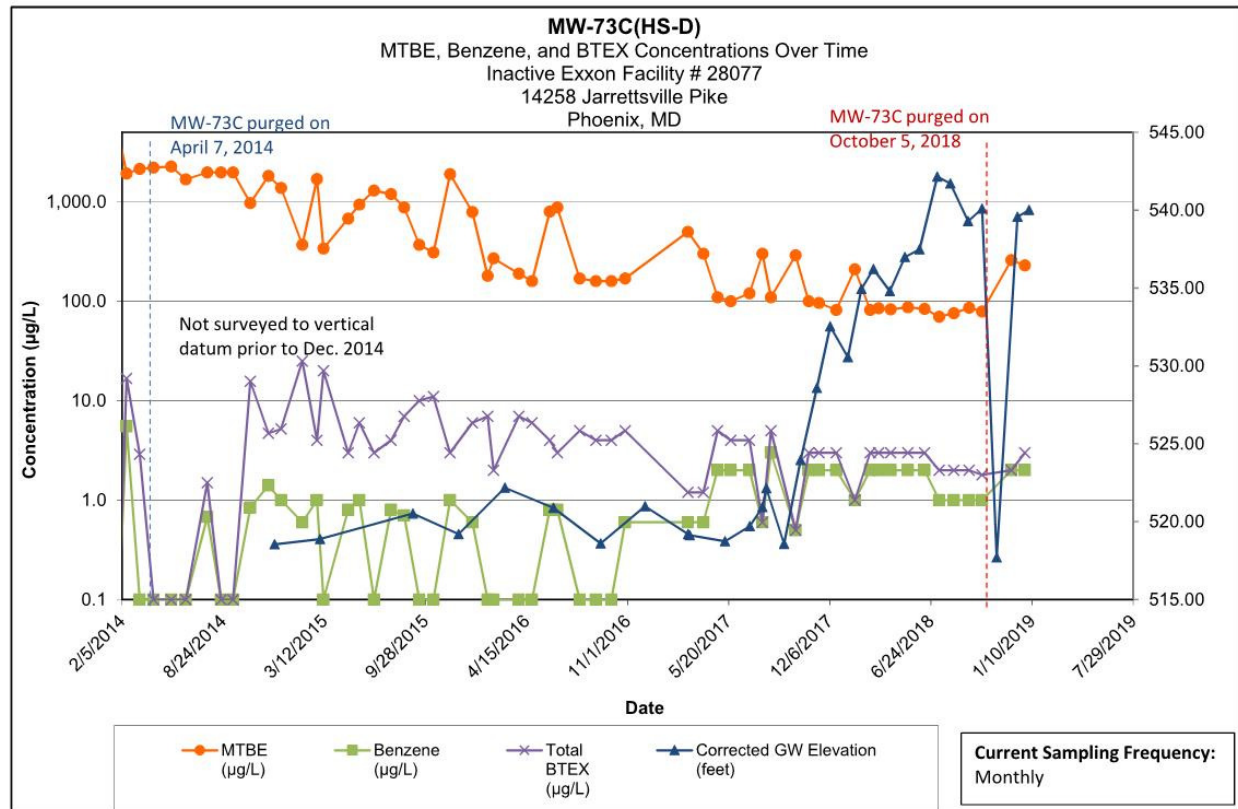
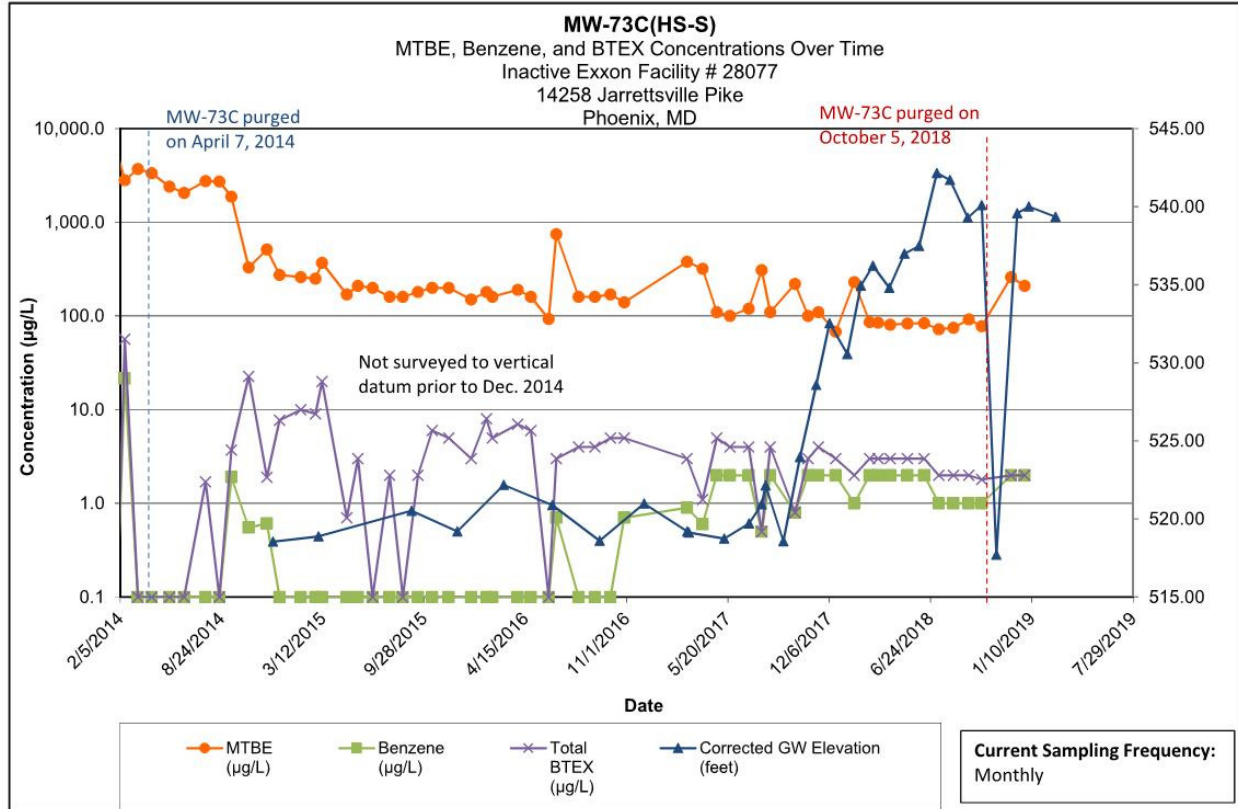
Dear Mr. Ralston:

Kleinfelder, on behalf of ExxonMobil Environmental and Property Solutions (ExxonMobil), herein proposes to connect two existing monitoring wells to the groundwater recovery system. The additional recovery activity is intended to accelerate attainment of MDE actions levels in the area of these wells.

1. MW-73C: Connect MW-73C (located at 14315 Jarrettsville Pike) temporarily to the recovery system via above-ground piping to the vault at MW-178C (located at 3501 Hampshire Glen Court, Figure 1).
2. MW-82D: Initiate recovery from MW-82D, using existing subsurface piping installed when MW-82D was constructed, located at 3508 Hampshire Glen Court (Figure 1).

### **MW-73C**

Monitoring well MW-73C was installed in November 2013 to a total depth of 300 feet below grade (fbg) with 125 feet of 6-inch steel PVC casing and an open borehole from 125-300 fbg. Since installation, elevated concentrations of dissolved-phase hydrocarbons (>100 micrograms per liter ( $\mu\text{g/L}$ ) methyl tert butyl ether [MtBE]) have been observed (Table 1 and Attachment 1) persistently in both shallow and deep intervals. The well has been evacuated twice, in April 2014 and again in September 2018. In the months following the April 2014 purge, MtBE concentrations decreased in both the shallow and deep intervals. Conversely, since the September 2018 purge, MtBE concentrations have risen in both the shallow and deep zones (Charts 1 and 2). Particularly in the deeper zone of the well, MtBE concentrations have historically fluctuated, but have remained above MDE action levels for MtBE. The temporary connection to the treatment system will help determine whether longer-term recovery from MW-73C could result in removal of recalcitrant MtBE impact and establishment of a sustained decreasing MtBE concentration trend.

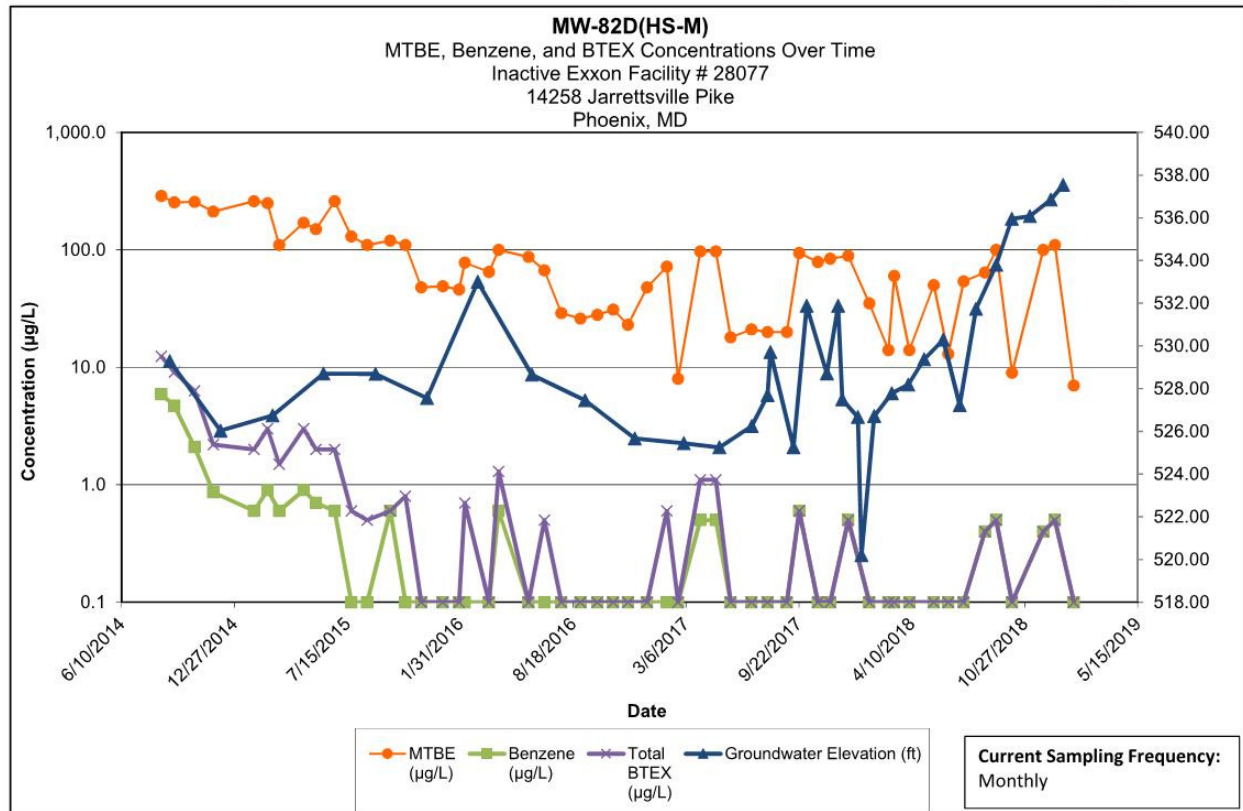
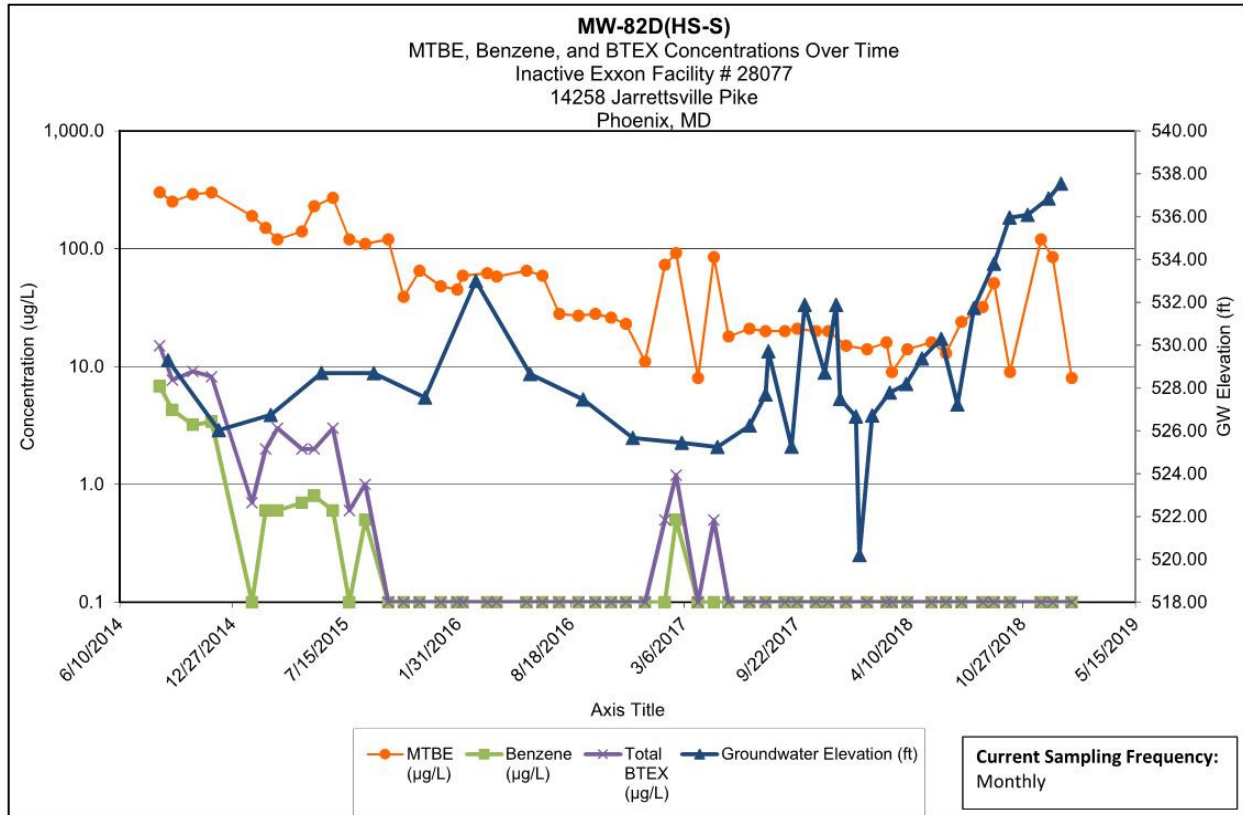


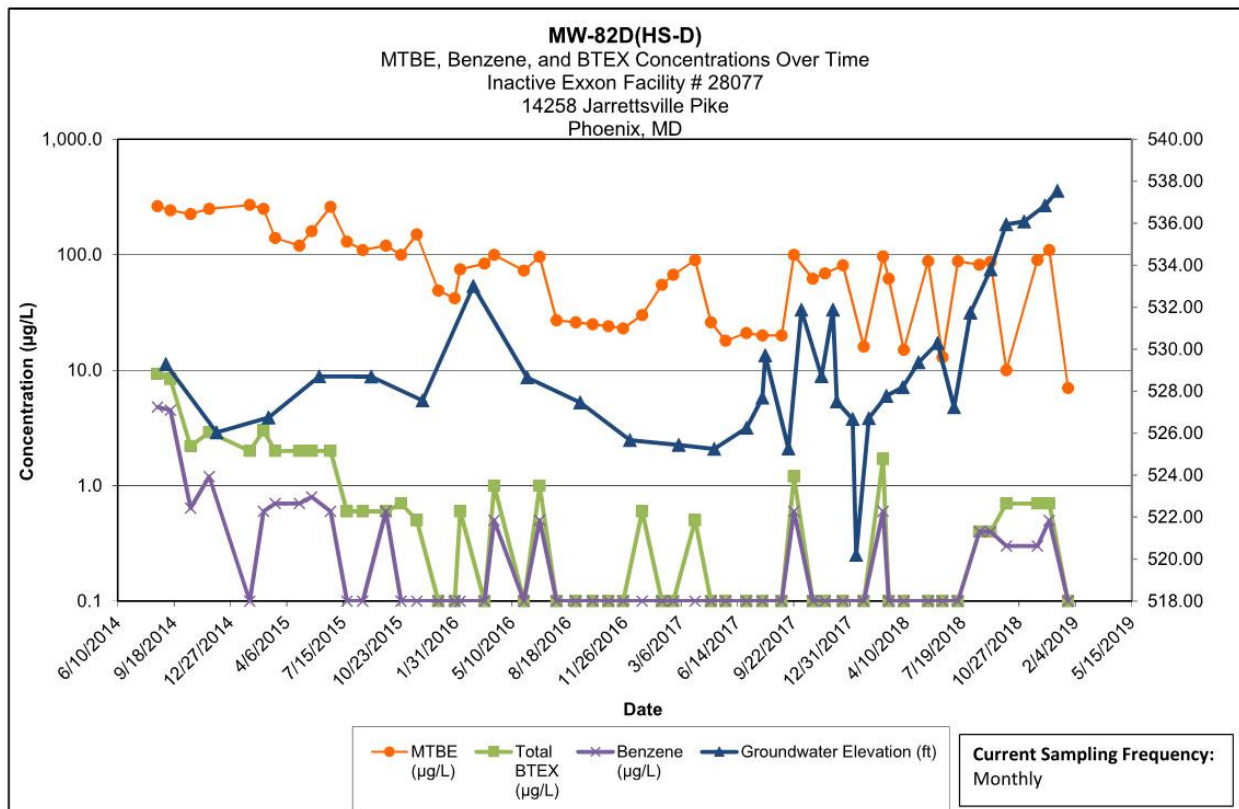
A pump will be installed in MW-73C at approximately 150 fbg, and air supply and groundwater return piping will be connected to the existing subsurface high-density polyethylene (HDPE) piping via temporary above-ground piping terminating in the vault for MW-178C. Following a six-to-eight-month evaluation period, the temporary connection will be terminated and the data will be evaluated to determine whether long-term recovery from MW-73C and subsurface piping is warranted.

Following initiation of groundwater recovery, MW-73C will be sampled monthly for three months and quarterly thereafter. Surrounding monitoring wells MW-38B, MW-73, MW-182, MW-188D and PW-3501 will be gauged on a monthly basis for the first three months. After three months, gauging of the aforementioned wells will return to their approved frequency. Results will be included in the Groundwater Monitoring and Remediation Status Reports submitted to the MDE on a quarterly basis. Increased sampling of additional monitoring wells is not proposed for two reasons: 1) MW-73C exhibits slow recharge and is not expected to have a significant effect on wells within a short timeframe (e.g. 1 month); and, 2) nearby downgradient wells generally do not exhibit MtBE concentrations above MDE action level. Water levels in the supply well serving 14315 Jarrettsville Pike will be monitored via communication with the property owner; any water supply issues will be immediately investigated per the WAP permit, and recovery from MW-73C suspended if necessary.

#### **MW-82D**

Monitoring well MW-82D was installed in July 2014 to a total depth of 380 fbg with 125 feet of 6" steel casing and open hole from 125 to 380 fbg. Since installation and initiation of groundwater recovery from adjacent well MW-82B, dissolved phase MTBE concentrations have decreased, however elevated concentrations of MtBE (>100 µg/L) persist and coincide with a rising groundwater table elevation (Charts 3 and 4).





During installation and surface completion of MW-82D, subsurface conduit was installed from MW-82R to MW-82D. MW-82R is currently connected to the recovery system. A pump is proposed to be installed in MW-82D at a depth of 150 fbg, with the option to lower the pump up to 200 fbg if conditions warrant and with MDE approval.

Following initiation of groundwater recovery from MW-82D, monitoring wells MW-82, MW-106, MW-101A, and MW-101B will be gauged on a monthly basis for the first three months. After three months, gauging of the aforementioned wells will return to their approved frequency. Gauging results will be included in the Groundwater Monitoring and Remediation Status Reports submitted to the MDE on a quarterly basis, and in a Report of Results submitted together with the pumping evaluation of MW-73C.

## LIMITATIONS

Kleinfelder performed the services for this project under the Enabling Agreement with Procurement, a division of ExxonMobil Global Services Company (signed on November 28, 2012). Kleinfelder states that the services provided are consistent with professional of care defined as that level of services provided by similar professionals under like circumstances. This report is based on the regulatory standards in effect on the date of the report. It has been produced for the primary benefit of ExxonMobil Global Services Company and its affiliates.

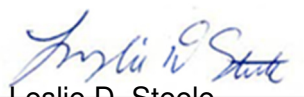
## CLOSING

Upon approval from the MDE, Kleinfelder will initiate the scope of work described above. Kleinfelder will continue to evaluate the analytical data and will notify the MDE regarding any change in conditions or implementation of the proposed work plan.

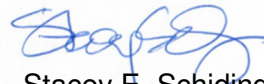
Please contact the undersigned with any questions or requests for additional information at 410.850.0404.

Sincerely,

## KLEINFELDER



Leslie D. Steele  
Principal Engineer



Stacey E. Schiding  
Project Manager

## FIGURE

- 1 MW-73C & MW-82D Connection to Recovery System

## TABLE

- 1 Summary of Groundwater Analytical Results – MW-73C and MW-82D

## CHARTS

- 1 Charts: MW-73C
- 2 Expanded Charts: MW-73C
- 3 Charts: MW-82D
- 4 Expanded Charts: MW-82D

cc: Ms. Jamila Chillemi - ExxonMobil Environmental Services Company (Project File)  
Ms. Ellen Jackson - Maryland Department of the Environment  
Mr. Andrew Miller - Maryland Department of the Environment  
Stephanie Cobb Williams, Esq. - Office of the Attorney General  
Carlos Bollar, Esquire - Archer & Greiner, P.C.

## FIGURES

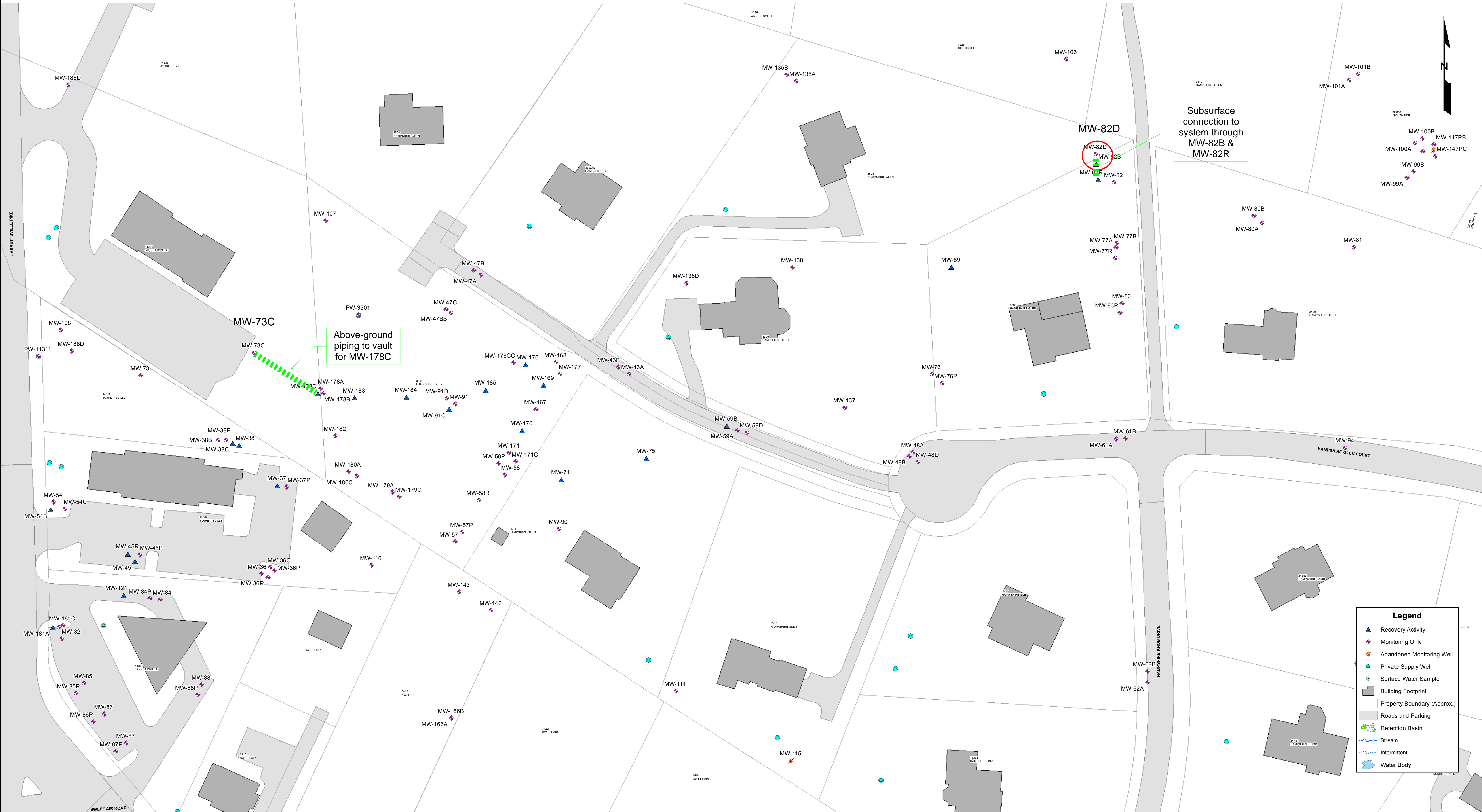
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## FIGURE 1

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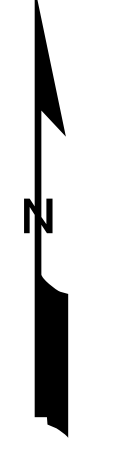
**MW-73C & MW-82D Connection to Recovery  
System**



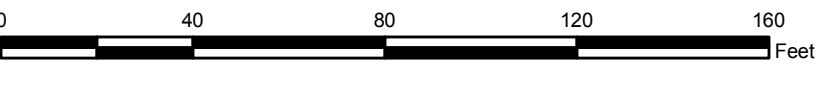


**Legend**

- ▲ Recovery Activity
- ◆ Monitoring Only
- ⊗ Abandoned Monitoring Well
- Private Supply Well
- Surface Water Sample
- Building Footprint
- ▭ Property Boundary (Approx.)
- ▭ Roads and Parking
- Retention Basin
- Stream
- Intermittent
- Water Body



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PROJECT NO.	20193011
DRAWN:	2/15/2019
DRAWN BY:	B. Myers
CHECKED BY:	C. Low

**MW-73C & MW-82D  
CONNECTIONS TO RECOVERY  
SYSTEM**

INACTIVE EXXON FACILITY #28077  
14258 JARRETTVILLE PIKE  
PHOENIX, MARYLAND  
BALTIMORE COUNTY

FIGURE  
**1**

## TABLES

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**TABLE 1**

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**Summary of Groundwater Analytical Results -  
MW-73C and MW-82D**

**Table 1**  
**Summary of Groundwater Analytical Results**

Inactive Exxon Facility #28077  
14528 Jarrettsville Pike  
Phoenix, Maryland  
November 25, 2013 through January 31, 2019

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-73C(128)	10/3/2014	0.52	17.6	ND(1.0)	0.22 J	18.3 J	295	1.5 J	5.9	18.0	156	
	11/6/2014	0.39 J	10.3	ND(1.0)	0.50 J	11.2 J	266	1.6 J	6.4	22.2	155	
	12/15/2014	0.46 J	17.7	ND(1.0)	0.54 J	18.7 J	316	2.2	7.6	20.2	158	
MW-73C(148.5)	10/3/2014	0.63	5.9	ND(1.0)	0.28 J	6.8 J	296	1.7 J	6.8	20.0	173	
	11/6/2014	0.28 J	1.6	ND(1.0)	0.27 J	2.2 J	286	1.4 J	5.3	18.7	114	
	12/15/2014	0.39 J	4.9	ND(1.0)	0.21 J	5.5 J	236	1.5 J	5.4	14.9	92.7	
MW-73C(166.5)	10/3/2014	0.63	8.8	ND(1.0)	0.34 J	9.8 J	395	2.4	9.5	27.8	262	
	11/6/2014	0.33 J	2.6	ND(1.0)	0.21 J	3.1 J	298	2.0	7.9	26.8	192	
	12/15/2014	0.39 J	6.4	ND(1.0)	0.21 J	7.0 J	262	1.6 J	5.6	15.3	100	
MW-73C(185)	10/3/2014	0.71	7.4	ND(1.0)	0.55 J	8.7 J	731	4.7	19.7	55.3	586	
	11/6/2014	0.57	1.6	ND(1.0)	0.51 J	2.7 J	445	3.9	15.7	51.4	415	
	12/15/2014	0.37 J	2.2	ND(1.0)	0.21 J	2.8 J	236	1.5 J	5.0	13.9	82.8	
MW-73C(205)	10/3/2014	0.68	9.2	ND(1.0)	0.48 J	10.4 J	632	3.2	13.0	37.2	382	
	11/6/2014	0.79	13.0	ND(1.0)	0.66 J	14.5 J	999	5.7	22.9	73.5	633	
	12/15/2014	0.46 J	4.8	ND(1.0)	0.51 J	5.8 J	404	3.0	11.4	29.0	220	
MW-73C(259.5)	10/3/2014	ND(5.0)	9.0 J	ND(10)	ND(10)	9.0 J	1190	8.8 J	35.2	93.5	1070	
	11/6/2014	1.3	25.9	ND(1.0)	0.92 J	28.1 J	957	10.6	42.3	131	873	
	12/15/2014	1.5 J	4.8 J	ND(5.0)	ND(5.0)	6.3 J	2280	17.0	66.3	154	1470	
MW-73C(295)	10/3/2014	ND(10)	ND(20)	ND(20)	ND(20)	BRL	2070	15.6 J	60.7	164	1980	
	11/6/2014	ND(1.3)	28.6	ND(2.5)	ND(2.5)	28.6	400	2.5 J	10.2	35.0	340	
	12/15/2014	1.6 J	3.8 J	ND(5.0)	ND(5.0)	5.4 J	1710	19.1	68.9	162	1270	

**Table 1 (Continued)**  
**Summary of Groundwater Analytical Results**

Inactive Exxon Facility #28077  
 14528 Jarrettsville Pike  
 Phoenix, Maryland  
 November 25, 2013 through January 31, 2019

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-73C(AP)	11/25/2013	31.1	124	4.5 J	7.3 J	167 J	5070	15.9 J	91.5 J	394	1180	
	12/9/2013	24.1	ND(20)	ND(20)	ND(20)	24.1	5430	20.0 J	88.4 J	399	1080	
	1/13/2014	0.85 J	53.9	0.32 J	0.44 J	55.5 J	46.7	ND(5.0)	0.62 J	2.8 J	ND(25)	
	1/30/2014	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	5600	17.2	84.3	409	3200	
	2/14/2014	21.5	20.2	4.9	10.1	56.7	2810	17.2	73.9	245	1990	
	3/12/2014	ND(5.0)	ND(10)	ND(5.0)	ND(10)	BRL	3700	22.7	89.7	314	1790	
	4/8/2014	ND(13)	ND(25)	ND(13)	ND(25)	BRL	3350	24.3 J	83.9 J	269	1710	
	5/13/2014	ND(2.5)	ND(5.0)	ND(2.5)	ND(5.0)	BRL	2410	17.3	65.4	188	1930	
	6/11/2014	ND(5.0)	ND(10)	ND(10)	ND(10)	BRL	2060	18.8 J	71.1	188	1990	
	7/23/2014	ND(2.5)	1.7 J	ND(5.0)	ND(5.0)	1.7 J	2760	22.6	87.5	242	2940	
8/19/2014	ND(2.5)	ND(5.0)	ND(5.0)	ND(5.0)	BRL	2730	20.6	77.4	223	1960		
9/12/2014	1.9 J	1.8 J	ND(5.0)	ND(5.0)	3.7 J	1880	16.1	59.9	168	1760		
MW-73C(BP)	11/25/2013	ND(5.0)	10.1	ND(5.0)	ND(5.0)	10.1	2330	2.6 J	24.7 J	137	1090	
	12/9/2013	100	47.9	4.8 J	5.6 J	158 J	4890	22.2 J	92.0 J	398	1150	
	1/13/2014	17.1 J	ND(25)	ND(25)	ND(25)	17.1 J	4210	15.3 J	69.0 J	309	1070	
	1/30/2014	ND(25)	ND(25)	ND(25)	ND(25)	BRL	4570	17.0 J	76.0 J	341	1220	
	2/14/2014	5.5	6.7	1.6	3.0	16.8	1930	10.3	47.0	162	1380	
	3/12/2014	ND(2.5)	ND(5.0)	1.1 J	1.8 J	2.9 J	2140	12.0	49.8	188	1160	
	4/8/2014	ND(10)	ND(20)	ND(10)	ND(20)	BRL	2210	10.6 J	45.0 J	160	1050	
	5/13/2014	ND(2.5)	ND(5.0)	ND(2.5)	ND(5.0)	BRL	2270	17.3	65.8	188	1610	
	6/11/2014	ND(5.0)	ND(10)	ND(10)	ND(10)	BRL	1680	13.8 J	51.4	144	1550	
	7/23/2014	0.68	0.61 J	ND(1.0)	0.21 J	1.50 J	1980	15.8	58.0	158	2580	
8/19/2014	ND(5.0)	ND(10)	ND(10)	ND(10)	BRL	1980	15.2 J	58.9	171	1520		
9/12/2014	ND(2.5)	ND(5.0)	ND(5.0)	ND(5.0)	BRL	1980	15.6	60.1	181	1830		

**Table 1 (Continued)**  
**Summary of Groundwater Analytical Results**

Inactive Exxon Facility #28077  
 14528 Jarrettsville Pike  
 Phoenix, Maryland  
 November 25, 2013 through January 31, 2019

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-73C(HS-S)	10/16/2014	0.55	21.5	ND(1.0)	0.64 J	22.7 J	329	2.1	8.0	22.4	180	
	11/21/2014	0.61	1.3	ND(1.0)	ND(1.0)	1.9	514	2.9	11.3	33.5	297	
	12/16/2014	ND(1.0)	7.7	ND(2.0)	ND(2.0)	7.7	275	1.4 J	5.9	19.6	224	
	1/27/2015	ND(1)	10	ND(1)	ND(1)	10	260	2	5	16	120	
	2/25/2015	ND(1)	9	ND(1)	ND(1)	9	250	1	5	14	110	
	3/10/2015	ND(1)	20	ND(1)	ND(1)	20	370	2	9	27	280	
	4/28/2015	ND(1)	0.7 J	ND(1)	ND(1)	0.7 J	170	0.9 J	3	11	57	
	5/20/2015	ND(1)	3	ND(1)	ND(1)	3	210	1 J	3	11	95	
	6/18/2015	ND(1)	ND(1)	ND(1)	ND(1)	BRL	200	0.9 J	3	11	59	
	7/22/2015	ND(1)	2	ND(1)	ND(1)	2	160	0.7 J	2	8	50	
	8/17/2015	ND(1)	ND(1)	ND(1)	ND(1)	BRL	160	0.5 J	2	7	36	
	9/16/2015	ND(1)	2	ND(1)	ND(1)	2	180	0.9 J	3	10	81	
	10/14/2015	ND(1)	6	ND(1)	ND(1)	6	200	1	4	11	98	
	11/16/2015	ND(1)	5	ND(1)	ND(1)	5	200	1 J	4	11	110	
	12/30/2015	ND(1)	3	ND(1)	ND(1)	3	150	0.6 J	2	7	64	
	1/29/2016	ND(1)	8	ND(1)	ND(1)	8	180	1	4	11	160	
	2/10/2016	ND(1)	5	ND(1)	ND(1)	5	160	1 J	4	9	100	
	3/31/2016	ND(1)	7	ND(1)	ND(1)	7	190	1	4	11	140	
	4/26/2016	ND(1)	6	ND(1)	ND(1)	6	160	1	4	10	150	
	5/31/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	93	ND(1)	2	4	23	
	6/15/2016	0.7 J	2	ND(1)	ND(1)	3 J	750	6	22	58	740	
	7/29/2016	ND(1)	4	ND(1)	ND(1)	4	160	0.9 J	4	9	130	
	8/30/2016	ND(1)	4	ND(1)	ND(1)	4	160	0.9 J	3	7	140	
	9/30/2016	ND(1)	5	ND(1)	ND(1)	5	170	1	4	9	130	
	10/27/2016	0.7 J	4	ND(1)	ND(1)	5 J	140	0.7 J	3	6	130	
	11/30/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/30/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	No access to well
1/31/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	No access to well

**Table 1 (Continued)**  
**Summary of Groundwater Analytical Results**

Inactive Exxon Facility #28077  
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 Phoenix, Maryland  
 November 25, 2013 through January 31, 2019

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-73C(HS-S)	2/28/2017	0.9 J	2	ND(1)	ND(1)	3 J	380	2	10	26	260	
	3/31/2017	0.6 J	0.5 J	ND(1)	ND(1)	1.1 J	320	2	8	22	250	
	4/28/2017	2	3	ND(1)	ND(1)	5	110	0.6 J	3	6	120	
	5/24/2017	2	2	ND(1)	ND(1)	4	100	0.6 J	2	5	120	
	6/30/2017	2	2	ND(1)	ND(1)	4	120	0.7 J	3	6	120	
	7/25/2017	0.5 J	ND(1)	ND(1)	ND(1)	0.5 J	310	2	8	21	190	
	8/11/2017	2	2	ND(1)	ND(1)	4	110	0.6 J	3	5	120	
	9/29/2017	0.8 J	ND(1)	ND(1)	ND(1)	0.8 J	220	1	5	14	110	
	10/25/2017	2	1	ND(1)	ND(1)	3	100	0.7 J	3	5	130	
	11/14/2017	2	2	ND(1)	ND(1)	4	110	0.7 J	3	6	120	
	12/18/2017	2	1	ND(1)	ND(1)	3	68	ND(1)	2	3	110	
	1/24/2018	1	0.5 J	ND(1)	ND(1)	2 J	230	2	5	15	93	
	2/23/2018	2	1	ND(1)	ND(1)	3	86	0.7 J	3	4	83	
	3/12/2018	2	1	ND(1)	ND(1)	3	85	0.7 J	2	4	110	
	4/5/2018	2	1	ND(1)	ND(1)	3	81	0.7 J	2	4	110	
	5/9/2018	2	1	ND(1)	ND(1)	3	83	0.5 J	2	4	120	
	6/11/2018	2	1 J	ND(1)	ND(1)	3 J	84	0.6 J	2	4	100	
	7/10/2018	1	0.7 J	ND(1)	ND(1)	2 J	72	ND(1)	2	3	94	
	8/8/2018	1	0.8 J	ND(1)	ND(5)	2 J	75	0.4 J	2	4	110	
	9/7/2018	1	1	ND(1)	ND(5)	2	92	0.6 J	3	4	120	
10/3/2018	1	0.8 J	ND(1)	ND(5)	2 J	78	0.5 J	2	4	99		
11/30/2018	2	ND(1)	ND(1)	ND(5)	2	260	2	7	13	250		
12/27/2018	2	ND(1)	ND(1)	ND(5)	2	210	2	6	11	240		
1/31/2019	3	ND(1)	ND(1)	ND(5)	3	180	1	5	9	210		

**Table 1 (Continued)**  
**Summary of Groundwater Analytical Results**

Inactive Exxon Facility #28077  
 14528 Jarrettsville Pike  
 Phoenix, Maryland  
 November 25, 2013 through January 31, 2019

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-73C(HS-D)	10/16/2014	0.84	14.1	ND(1.0)	0.72 J	15.7 J	975	6.9	28.5	73.7	729	
	11/21/2014	1.4	2.3	ND(1.0)	1.0	4.7	1820	11.6	46.5	127	1380	
	12/16/2014	1.0 J	4.2 J	ND(5.0)	ND(5.0)	5.2 J	1380	8.2 J	36.4	114	1320	
	1/27/2015	0.6 J	24	ND(1)	ND(1)	25 J	370	2	8	25	240	
	2/25/2015	1	2	ND(1)	0.7 J	4 J	1700	14	50	140	1400	
	3/10/2015	ND(1)	20	ND(1)	ND(1)	20	340	2	8	24	250	
	4/28/2015	0.8 J	2	ND(1)	ND(1)	3 J	680	5	20	57	530	
	5/20/2015	1 J	5	ND(1)	ND(1)	6 J	940	7	25	71	820	
	6/18/2015	ND(5)	3 J	ND(5)	ND(5)	3 J	1300	9	34	100	1100	
	7/22/2015	0.8 J	3	ND(1)	ND(1)	4 J	1200	8	32	91	1000	
	8/17/2015	0.7 J	6	ND(1)	ND(1)	7 J	880	6	23	66	760	
	9/16/2015	ND(1)	10	ND(1)	ND(1)	10	370	2	8	25	260	
	10/14/2015	ND(1)	11	ND(1)	ND(1)	11	310	2	8	21	210	
	11/16/2015	1	2	ND(1)	ND(1)	3	1900	16	58	170	1500	
	12/30/2015	0.6 J	5	ND(1)	ND(1)	6 J	790	6	22	60	660	
	1/29/2016	ND(1)	7	ND(1)	ND(1)	7	180	1	4	11	160	
	2/10/2016	ND(1)	2	ND(1)	ND(1)	2	270	2	7	18	170	
	3/31/2016	ND(1)	7	ND(1)	ND(1)	7	190	1	5	12	140	
	4/26/2016	ND(1)	6	ND(1)	ND(1)	6	160	0.9 J	4	10	150	
	5/31/2016	0.8 J	3	ND(1)	ND(1)	4 J	800	6	23	68	660	
	6/15/2016	0.8 J	2	ND(1)	ND(1)	3 J	880	7	26	66	840	
	7/29/2016	ND(1)	5	ND(1)	ND(1)	5	170	1 J	4	9	140	
	8/30/2016	ND(1)	4	ND(1)	ND(1)	4	160	0.8 J	3	7	140	
	9/30/2016	ND(1)	4	ND(1)	ND(1)	4	160	1	4	9	130	
	10/27/2016	0.6 J	4	ND(1)	ND(1)	5 J	170	0.8 J	3	6	130	
	11/30/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/30/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	No access to well
1/31/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	No access to well



**Table 1 (Continued)**  
**Summary of Groundwater Analytical Results**

Inactive Exxon Facility #28077  
 14528 Jarrettsville Pike  
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Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-73C(HS-D)	2/28/2017	0.6 J	0.6 J	ND(1)	ND(1)	1.2 J	500	3	13	35	340	
	3/31/2017	0.6 J	0.6 J	ND(1)	ND(1)	1.2 J	300	2	8	22	260	
	4/28/2017	2	3	ND(1)	ND(1)	5	110	0.7 J	3	5	120	
	5/24/2017	2	2	ND(1)	ND(1)	4	100	ND(1)	2	5	120	
	6/30/2017	2	2	ND(1)	ND(1)	4	120	0.7 J	3	6	120	
	7/25/2017	0.6 J	ND(1)	ND(1)	ND(1)	0.6 J	300	2	7	20	200	
	8/11/2017	3	2	ND(1)	ND(1)	5	110	0.6 J	3	5	120	
	9/29/2017	0.5 J	ND(1)	ND(1)	ND(1)	0.5 J	290	2	8	20	200	
	10/25/2017	2	1	ND(1)	ND(1)	3	100	0.7 J	3	5	130	
	11/14/2017	2	1	ND(1)	ND(1)	3	96	0.6 J	2	5	110	
	12/18/2017	2	1	ND(1)	ND(1)	3	82	0.5 J	2	4	130	
	1/24/2018	1	ND(1)	ND(1)	ND(1)	1	210	1	5	14	110	
	2/23/2018	2	1	ND(1)	ND(1)	3	82	0.6 J	2	4	86	
	3/12/2018	2	1	ND(1)	ND(1)	3	85	0.7 J	2	4	110	
	4/5/2018	2	1	ND(1)	ND(1)	3	83	0.7 J	2	4	110	
	5/9/2018	2	1	ND(1)	ND(1)	3	87	0.6 J	2	4	110	
	6/11/2018	2	1	ND(1)	ND(1)	3	84	0.6 J	2	4	100	
	7/10/2018	1	0.7 J	ND(1)	ND(1)	2 J	70	ND(1)	2	3	92	
	8/8/2018	1	0.8 J	ND(1)	ND(5)	2 J	76	0.5 J	2	4	100	
	9/7/2018	1	0.9 J	ND(1)	ND(5)	2 J	86	0.5 J	2	4	100	
10/3/2018	1	0.8 J	ND(1)	ND(5)	2 J	79	0.5 J	2	3	98		
11/30/2018	2	ND(1)	ND(1)	ND(5)	2	260	2	7	14	250		
12/27/2018	3	ND(1)	ND(1)	ND(5)	3	230	2	7	13	250		
1/31/2019	3	ND(1)	ND(1)	ND(5)	3	170	1	4	10	210		
MW-82D	7/30/2014	9.9	ND(1.0)	ND(1.0)	11.8	21.7	363	1.3 J	4.4 J	28.5	ND(25)	
	7/31/2014	6.2	ND(1.0)	ND(1.0)	7.8	14.0	317	0.80 J	2.9 J	18.6	ND(25)	

**Table 1 (Continued)**  
**Summary of Groundwater Analytical Results**

Inactive Exxon Facility #28077  
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Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-82D(140.5)	11/25/2014	0.93	ND(1.0)	ND(1.0)	1.6	2.5	195	0.74 J	2.6	14.5	6.2 J	
	12/18/2014	0.84	ND(1.0)	ND(1.0)	1.4	2.2	144	0.65 J	2.1	11.4	11.2	
	1/29/2015	0.9 J	ND(1)	ND(1)	2	3 J	180	0.7 J	2	13	4 J	
MW-82D(212)	11/25/2014	1.3	ND(1.0)	ND(1.0)	2.4	3.7	246	1.0 J	3.4	19.2	7.1 J	
	12/18/2014	0.90	ND(1.0)	ND(1.0)	1.5	2.4	218	0.84 J	2.9	16.2	8.7 J	
	1/29/2015	0.7 J	ND(1)	ND(1)	2	3 J	240	0.9 J	3	18	4 J	
MW-82D(239.5)	11/25/2014	0.97	ND(1.0)	ND(1.0)	1.9	2.9	236	0.87 J	3.0	16.2	7.6 J	
	12/18/2014	0.90	ND(1.0)	ND(1.0)	1.5	2.4	179	0.73 J	2.4	13.8	8.0 J	
	1/29/2015	1	ND(1)	ND(1)	2	3	220	0.9 J	3	17	3 J	
MW-82D(277)	11/25/2014	1.3	ND(1.0)	ND(1.0)	2.5	3.8	259	1.0 J	3.4	18.9	9.6 J	
	12/18/2014	0.99	ND(1.0)	ND(1.0)	1.9	2.9	229	0.89 J	3.0	17.2	8.6 J	
	1/29/2015	0.6 J	ND(1)	ND(1)	1	2 J	180	0.7 J	2	14	4 J	
MW-82D(302)	11/25/2014	0.88	ND(1.0)	ND(1.0)	1.7	2.6	228	0.82 J	2.9	15.9	7.7 J	
	12/18/2014	0.90	ND(1.0)	ND(1.0)	1.6	2.5	184	0.68 J	2.5	14.1	6.5 J	
	1/29/2015	0.6 J	ND(1)	ND(1)	1	2 J	150	0.6 J	2	11	3 J	
MW-82D(317)	11/25/2014	0.94	ND(1.0)	ND(1.0)	1.8	2.7	278	1.1 J	3.8	20.4	9.3 J	
	12/18/2014	0.94	ND(1.0)	ND(1.0)	1.6	2.5	177	0.71 J	2.4	13.6	7.1 J	
	1/29/2015	0.8 J	ND(1)	ND(1)	2	3 J	210	0.8 J	2	15	3 J	
MW-82D(373)	11/25/2014	1.4	ND(1.0)	ND(1.0)	2.6	4.0	249	1.0 J	3.5	18.9	8.9 J	
	12/18/2014	1.1	ND(1.0)	ND(1.0)	2.2	3.3	273	1.1 J	3.7	20.1	11.7	
	1/29/2015	0.7 J	ND(1)	ND(1)	2	3 J	240	0.8 J	3	18	3 J	

**Table 1 (Continued)**  
**Summary of Groundwater Analytical Results**

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Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-82D(HS-S)	8/19/2014	6.8	ND(1.0)	ND(1.0)	8.2	15.0	302	1.1 J	4.0	26.2	ND(10)	
	9/11/2014	4.3	ND(2.0)	ND(2.0)	3.4	7.7	251	0.97 J	3.2 J	18.6	ND(20)	
	10/17/2014	3.2	ND(1.0)	ND(1.0)	5.9	9.1	290	1.1 J	3.8	22.5	6.5 J	
	11/19/2014	3.4	ND(1.0)	ND(1.0)	4.8	8.2	300	1.3 J	4.2	25.0	ND(10)	
	1/30/2015	ND(1)	ND(1)	ND(1)	0.7 J	0.7 J	190	0.8 J	2	14	5 J	
	2/23/2015	0.6 J	ND(1)	ND(1)	1	2 J	150	ND(1)	2	10	2 J	
	3/16/2015	0.6 J	ND(1)	ND(1)	2	3 J	120	ND(1)	1	8	2 J	
	4/28/2015	0.7 J	ND(1)	ND(1)	1	2 J	140	ND(1)	2	11	4 J	
	5/20/2015	0.8 J	ND(1)	ND(1)	1	2 J	230	0.7 J	2	16	6	
	6/22/2015	0.6 J	ND(1)	ND(1)	2	3 J	270	0.8 J	3	18	5 J	
	7/22/2015	ND(1)	ND(1)	ND(1)	0.6 J	0.6 J	120	ND(1)	1	7	3 J	
	8/19/2015	0.5 J	ND(1)	ND(1)	0.5 J	1.0 J	110	ND(1)	1	7	3 J	
	9/29/2015	ND(1)	ND(1)	ND(1)	ND(1)	BRL	120	ND(1)	0.7 J	5	ND(20)	
	10/26/2015	ND(1)	ND(1)	ND(1)	ND(1)	BRL	39	ND(1)	ND(1)	3	ND(5)	
	11/23/2015	ND(1)	ND(1)	ND(1)	ND(1)	BRL	65	ND(1)	0.7 J	4	ND(5)	
	12/31/2015	ND(1)	ND(1)	ND(1)	ND(1)	BRL	48	ND(1)	ND(1)	3	5	
	1/29/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	45	ND(1)	0.6 J	3	3 J	
	2/8/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	59	ND(1)	0.7 J	4	5 J	
	3/22/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	62	ND(1)	0.7 J	4	ND(5)	
	4/8/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	58	ND(1)	0.7 J	4	ND(20)	
	5/31/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	65	ND(1)	0.8 J	5	ND(5)	
	6/28/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	59	ND(1)	0.8 J	4	ND(5)	
	7/28/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	28	ND(1)	ND(1)	2	ND(5)	
	8/31/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	27	ND(1)	ND(1)	2	ND(5)	
9/30/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	28	ND(1)	ND(1)	2	ND(20)		
10/28/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	26	ND(1)	ND(1)	1	ND(5)		
11/23/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	23	ND(1)	ND(1)	2	ND(5)		
12/27/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	11	ND(1)	ND(1)	0.7 J	ND(5)		

**Table 1 (Continued)**  
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Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-82D(HS-S)	1/31/2017	ND(1)	ND(1)	ND(1)	0.5 J	0.5 J	73	ND(1)	0.9 J	5	ND(5)	
	2/20/2017	0.5 J	ND(1)	ND(1)	0.7 J	1.2 J	92	ND(1)	1	7	ND(5)	
	3/31/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	8	ND(1)	ND(1)	0.5 J	ND(5)	
	4/28/2017	ND(1)	ND(1)	ND(1)	0.5 J	0.5 J	85	ND(1)	0.9 J	6	ND(5)	
	5/24/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	18	ND(1)	ND(1)	1 J	ND(5)	
	6/30/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	21	ND(1)	ND(1)	1	ND(5)	
	7/28/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	20	ND(1)	ND(1)	1	ND(5)	
	8/31/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	20	ND(1)	ND(1)	ND(1)	ND(5)	
	9/22/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	21	ND(1)	ND(1)	1	ND(20)	
	10/25/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	20	ND(1)	ND(1)	1	ND(5)	
	11/16/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	20	ND(1)	ND(1)	1	ND(5)	
	12/18/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	15	ND(1)	ND(1)	1 J	ND(5)	
	1/24/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	14	ND(1)	ND(1)	0.8 J	7	
	2/27/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	16	ND(1)	ND(1)	1	ND(5)	
	3/9/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	9	ND(1)	ND(1)	ND(1)	ND(5)	
	4/5/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	14	ND(1)	ND(1)	0.8 J	ND(5)	
	5/18/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	16	ND(1)	ND(1)	1	ND(5)	
	6/13/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	13	ND(1)	ND(1)	0.7 J	ND(5)	
	7/10/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	24	ND(1)	ND(1)	2	ND(5)	
	8/17/2018	ND(1)	ND(1)	ND(1)	ND(5)	BRL	32	0.2 J	0.5 J	2	ND(25)	
9/6/2018	ND(1)	ND(1)	ND(1)	ND(5)	BRL	51	0.4 J	1 J	3	ND(25)		
10/4/2018	ND(1)	ND(1)	ND(1)	ND(5)	BRL	9	ND(1)	ND(1)	0.5 J	15 J		
11/28/2018	ND(1)	ND(1)	ND(1)	ND(5)	BRL	120	0.4 J	1	7	ND(25)		
12/19/2018	ND(1)	ND(1)	ND(1)	ND(5)	BRL	85	0.3 J	1	5	ND(25)		
1/22/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	8	ND(1)	ND(1)	0.4 J	ND(25)		

**Table 1 (Continued)**  
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Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-82D(HS-M)	8/19/2014	5.9	ND(1.0)	ND(1.0)	6.5	12.4	288	1.1 J	3.8	24.7	ND(10)	
	9/11/2014	4.7	ND(2.0)	ND(2.0)	4.4	9.1	254	0.98 J	3.3 J	19.0	ND(20)	
	10/17/2014	2.1	ND(1.0)	ND(1.0)	4.2	6.3	256	0.91 J	3.4	19.5	ND(10)	
	11/19/2014	0.86	ND(1.0)	ND(1.0)	1.3	2.2	212	0.81 J	2.7	16.1	ND(10)	
	1/30/2015	0.6 J	ND(1)	ND(1)	1	2 J	260	0.9 J	3	19	4 J	
	2/23/2015	0.9 J	ND(1)	ND(1)	2	3 J	250	0.9 J	3	17	4 J	
	3/16/2015	0.6 J	ND(1)	ND(1)	0.9 J	1.5 J	110	ND(1)	1	8	ND(5)	
	4/28/2015	0.9 J	ND(1)	ND(1)	2	3 J	170	0.6 J	2	14	3 J	
	5/20/2015	0.7 J	ND(1)	ND(1)	1	2 J	150	ND(1)	2	10	ND(5)	
	6/22/2015	0.6 J	ND(1)	ND(1)	1	2 J	260	0.8 J	3	18	5 J	
	7/22/2015	ND(1)	ND(1)	ND(1)	0.6 J	0.6 J	130	ND(1)	1	8	4 J	
	8/19/2015	ND(1)	ND(1)	ND(1)	0.5 J	0.5 J	110	ND(1)	1	7	4 J	
	9/29/2015	0.6 J	ND(1)	ND(1)	ND(1)	0.6 J	120	ND(1)	ND(1)	6	ND(20)	
	10/26/2015	ND(1)	ND(1)	ND(1)	0.8 J	0.8 J	110	ND(1)	1	8	ND(5)	
	11/23/2015	ND(1)	ND(1)	ND(1)	ND(1)	BRL	48	ND(1)	ND(1)	3	ND(5)	
	12/31/2015	ND(1)	ND(1)	ND(1)	ND(1)	BRL	49	ND(1)	ND(1)	3	3 J	
	1/29/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	46	ND(1)	0.6 J	3	ND(5)	
	2/8/2016	ND(1)	ND(1)	ND(1)	0.7 J	0.7 J	78	ND(1)	1 J	6	5	
	3/22/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	65	ND(1)	0.7 J	4	2 J	
	4/8/2016	0.6 J	ND(1)	ND(1)	0.7 J	1.3 J	100	ND(1)	1	7	ND(20)	
	5/31/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	87	ND(1)	1	7	ND(5)	
	6/28/2016	ND(1)	ND(1)	ND(1)	0.5 J	0.5 J	67	ND(1)	0.8 J	5	3 J	
	7/28/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	29	ND(1)	ND(1)	2	2 J	
8/31/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	26	ND(1)	ND(1)	2	ND(5)		
9/30/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	28	ND(1)	ND(1)	2	ND(20)		
10/28/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	31	ND(1)	ND(1)	1	ND(5)		
11/23/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	23	ND(1)	ND(1)	1	ND(5)		
12/27/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	48	ND(1)	0.6 J	4	ND(5)		

**Table 1 (Continued)**  
**Summary of Groundwater Analytical Results**

Inactive Exxon Facility #28077  
 14528 Jarrettsville Pike  
 Phoenix, Maryland  
 November 25, 2013 through January 31, 2019

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-82D(HS-M)	1/31/2017	ND(1)	ND(1)	ND(1)	0.6 J	0.6 J	72	ND(1)	0.8 J	5	ND(5)	
	2/20/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	8	ND(1)	ND(1)	ND(1)	ND(5)	
	3/31/2017	0.5 J	ND(1)	ND(1)	0.6 J	1.1 J	97	ND(1)	1	7	ND(5)	
	4/28/2017	0.5 J	ND(1)	ND(1)	0.6 J	1.1 J	97	ND(1)	1	6	ND(5)	
	5/24/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	18	ND(1)	ND(1)	1	ND(5)	
	6/30/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	21	ND(1)	ND(1)	1	ND(5)	
	7/28/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	20	ND(1)	ND(1)	1	ND(5)	
	8/31/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	20	ND(1)	ND(1)	1	ND(5)	
	9/22/2017	0.6 J	ND(1)	ND(1)	ND(1)	0.6 J	94	ND(1)	1	7	ND(20)	
	10/25/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	79	ND(1)	0.9 J	5	ND(5)	
	11/16/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	84	ND(1)	0.9 J	6	ND(5)	
	12/18/2017	0.5 J	ND(1)	ND(1)	ND(1)	0.5 J	89	ND(1)	0.9 J	6	ND(5)	
	1/24/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	35	ND(1)	ND(1)	2	ND(5)	
	2/27/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	14	ND(1)	ND(1)	0.9 J	ND(5)	
	3/9/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	60	ND(1)	0.8 J	4	ND(5)	
	4/5/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	14	ND(1)	ND(1)	0.8 J	ND(5)	
	5/18/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	50	ND(1)	0.6 J	4	ND(5)	
	6/13/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	13	ND(1)	ND(1)	0.7 J	ND(5)	
	7/10/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	54	ND(1)	0.7 J	4	ND(5)	
	8/17/2018	0.4 J	ND(1)	ND(1)	ND(5)	0.4 J	64	0.2 J	0.7 J	4	ND(25)	
9/6/2018	0.5 J	ND(1)	ND(1)	ND(5)	0.5 J	100	ND(1)	1	7	ND(25)		
10/4/2018	ND(1)	ND(1)	ND(1)	ND(5)	BRL	9	ND(1)	ND(1)	0.5 J	ND(25)		
11/28/2018	0.4 J	ND(1)	ND(1)	ND(5)	0.4 J	100	0.4 J	1	6	ND(25)		
12/19/2018	0.5 J	ND(1)	ND(1)	ND(5)	0.5 J	110	0.4 J	1	7	ND(25)		
1/22/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	7	ND(1)	ND(1)	0.4 J	ND(25)		

**Table 1 (Continued)**  
**Summary of Groundwater Analytical Results**

Inactive Exxon Facility #28077  
 14528 Jarrettsville Pike  
 Phoenix, Maryland  
 November 25, 2013 through January 31, 2019

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-82D(HS-D)	8/19/2014	4.8	ND(1.0)	ND(1.0)	4.5	9.3	264	0.95 J	3.5	22.6	ND(10)	
	9/11/2014	4.5	ND(2.0)	ND(2.0)	3.9	8.4	242	1.0 J	3.1 J	18.3	ND(20)	
	10/17/2014	0.64	ND(1.0)	ND(1.0)	1.6	2.2	225	0.79 J	2.8	16.9	ND(10)	
	11/19/2014	1.2	ND(1.0)	ND(1.0)	1.7	2.9	250	0.86 J	2.9	17.0	ND(10)	
	1/30/2015	ND(1)	ND(1)	ND(1)	2	2	270	1 J	3	20	4 J	
	2/23/2015	0.6 J	ND(1)	ND(1)	2	3 J	250	0.9 J	3	17	4 J	
	3/16/2015	0.7 J	ND(1)	ND(1)	1	2 J	140	0.5 J	2	11	ND(5)	
	4/28/2015	0.7 J	ND(1)	ND(1)	1	2 J	120	ND(1)	1	9	2 J	
	5/20/2015	0.8 J	ND(1)	ND(1)	1	2 J	160	0.6 J	2	12	5 J	
	6/22/2015	0.6 J	ND(1)	ND(1)	1	2 J	260	0.8 J	3	18	4 J	
	7/22/2015	ND(1)	ND(1)	ND(1)	0.6 J	0.6 J	130	ND(1)	1	9	2 J	
	8/19/2015	ND(1)	ND(1)	ND(1)	0.6 J	0.6 J	110	ND(1)	1	8	6	
	9/29/2015	0.6 J	ND(1)	ND(1)	ND(1)	0.6 J	120	ND(1)	0.7 J	6	ND(20)	
	10/26/2015	ND(1)	ND(1)	ND(1)	0.7 J	0.7 J	100	ND(1)	1	7	ND(5)	
	11/23/2015	ND(1)	ND(1)	ND(1)	0.5 J	0.5 J	150	ND(1)	2	10	3 J	
	12/31/2015	ND(1)	ND(1)	ND(1)	ND(1)	BRL	49	ND(1)	ND(1)	3	2 J	
	1/29/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	42	ND(1)	0.5 J	3	ND(5)	
	2/8/2016	ND(1)	ND(1)	ND(1)	0.6 J	0.6 J	75	ND(1)	0.9 J	5	5	
	3/22/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	84	ND(1)	0.9 J	6	2 J	
	4/8/2016	0.5 J	ND(1)	ND(1)	0.5 J	1.0 J	100	ND(1)	1	7	ND(20)	
	5/31/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	73	ND(1)	0.9 J	5	ND(5)	
	6/28/2016	0.5 J	ND(1)	ND(1)	0.5 J	1.0 J	96	ND(1)	1	7	3 J	
	7/28/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	27	ND(1)	ND(1)	2	ND(5)	
	8/31/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	26	ND(1)	ND(1)	2	ND(5)	
	9/30/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	25	ND(1)	ND(1)	1	ND(20)	
	10/28/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	24	ND(1)	ND(1)	1	ND(5)	
11/23/2016	ND(1)	ND(1)	ND(1)	ND(1)	BRL	23	ND(1)	ND(1)	2	ND(5)		
12/27/2016	ND(1)	0.6 J	ND(1)	ND(1)	0.6 J	30	ND(1)	ND(1)	2	ND(5)		

**Table 1 (Continued)**  
**Summary of Groundwater Analytical Results**

Inactive Exxon Facility #28077  
 14528 Jarrettsville Pike  
 Phoenix, Maryland  
 November 25, 2013 through January 31, 2019

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-82D(HS-D)	1/31/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	55	ND(1)	0.7 J	4	ND(5)	
	2/20/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	67	ND(1)	0.8 J	5	ND(5)	
	3/31/2017	ND(1)	ND(1)	ND(1)	0.5 J	0.5 J	90	ND(1)	1	7	ND(5)	
	4/28/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	26	ND(1)	ND(1)	2	ND(5)	
	5/24/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	18	ND(1)	ND(1)	1 J	ND(5)	
	6/30/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	21	ND(1)	ND(1)	1	ND(5)	
	7/28/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	20	ND(1)	ND(1)	1	ND(5)	
	8/31/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	20	ND(1)	ND(1)	1	ND(5)	
	9/22/2017	0.6 J	ND(1)	ND(1)	0.6 J	1.2 J	100	ND(1)	1	8	ND(20)	
	10/25/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	62	ND(1)	0.7 J	4	ND(5)	
	11/16/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	69	ND(1)	0.7 J	4	ND(5)	
	12/18/2017	ND(1)	ND(1)	ND(1)	ND(1)	BRL	81	ND(1)	0.9 J	5	ND(5)	
	1/24/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	16	ND(1)	ND(1)	1	ND(5)	
	2/27/2018	0.6 J	0.6 J	ND(1)	0.5 J	1.7 J	97	ND(1)	1	7	2 J	
	3/9/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	62	ND(1)	0.7 J	4	ND(5)	
	4/5/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	15	ND(1)	ND(1)	0.8 J	ND(5)	
	5/18/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	88	ND(1)	1	6	ND(5)	
	6/13/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	13	ND(1)	ND(1)	0.7 J	ND(5)	
	7/10/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	88	ND(1)	1	6	ND(5)	
	8/17/2018	0.4 J	ND(1)	ND(1)	ND(5)	0.4 J	82	0.3 J	0.8 J	5	ND(25)	
9/6/2018	0.4 J	ND(1)	ND(1)	ND(5)	0.4 J	87	0.4 J	1	6	ND(25)		
10/4/2018	0.3 J	ND(1)	ND(1)	ND(5)	0.3 J	10	ND(1)	ND(1)	0.5 J	31		
11/28/2018	0.3 J	ND(1)	ND(1)	ND(5)	0.3 J	90	0.2 J	1	6	ND(25)		
12/19/2018	0.5 J	0.2 J	ND(1)	ND(5)	0.7 J	110	0.5 J	1	7	ND(25)		
1/22/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	7	ND(1)	ND(1)	0.4 J	ND(25)		



**Table 1 (Continued)**  
**Summary of Groundwater Analytical Results**

Inactive Exxon Facility #28077  
14528 Jarrettsville Pike  
Phoenix, Maryland  
November 25, 2013 through January 31, 2019

**Notes:**

- [R] - Indicates the well was used for remediation at the time of reporting.
- µg/L - micrograms per liter
- AP - above packer
- BP - below packer
- BRL - Below laboratory reporting limits
- BTEX - Benzene, toluene, ethylbenzene, and total xylenes
- DIPE - di-isopropyl ether
- ETBE - ethyl tert butyl ether
- HS - Composite HydraSleeve
- HS-D - deep composite HydraSleeve sampler; set at bottom of open borehole
- HS-S - shallow composite HydraSleeve sampler; set at ½ of open borehole
- J - Indicates an estimated value
- MTBE - methyl tertiary butyl ether
- NA - Not analyzed
- ND(5.0) - Not detected at or above the laboratory reporting limit, laboratory reporting limit included.
- NS - Not sampled
- PW - Inactive supply well being used as a monitoring/sampling location
- TAME - tert-amyl methyl ether
- TBA - tert butyl alcohol

## CHARTS

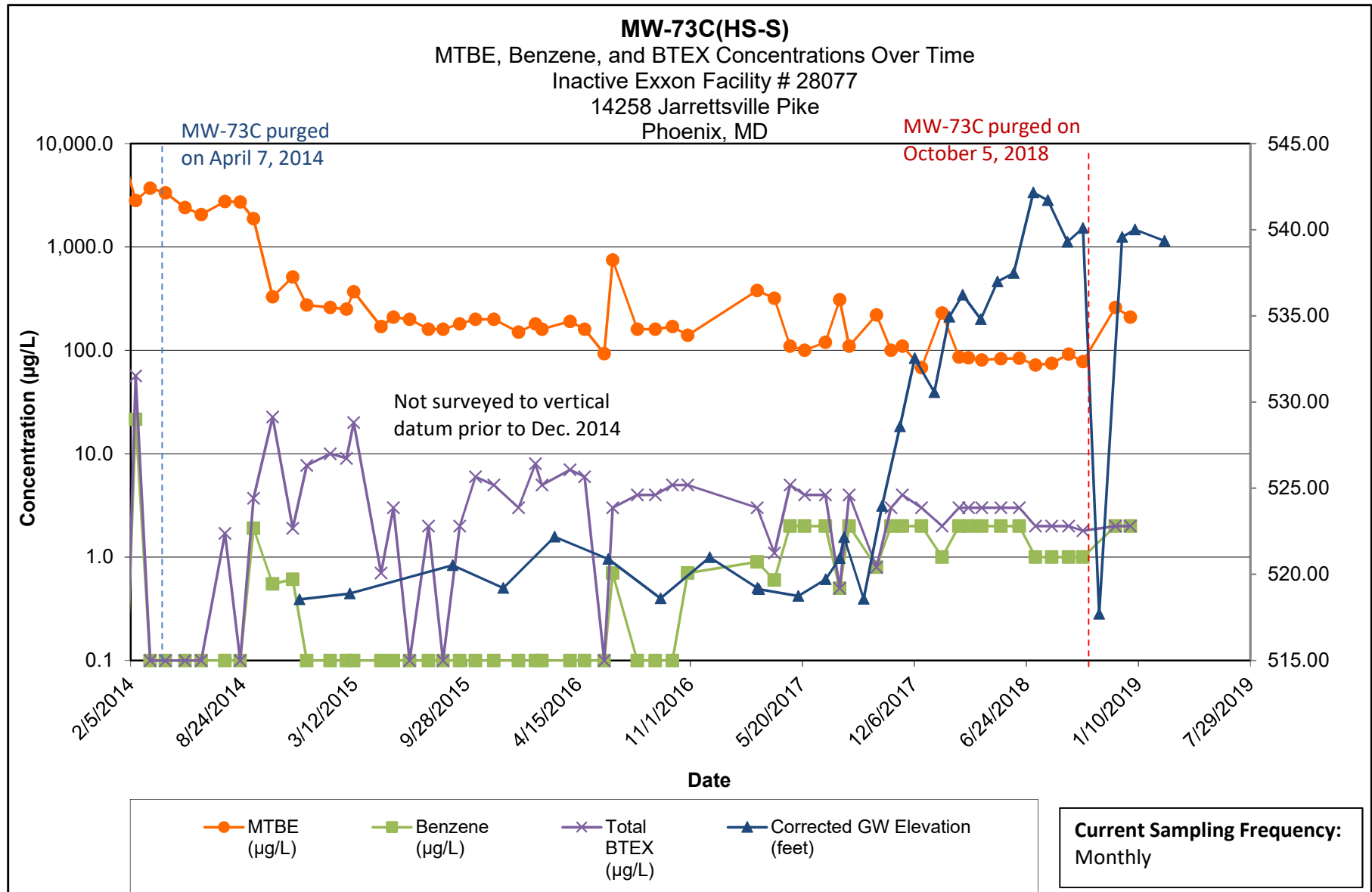
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## CHART 1

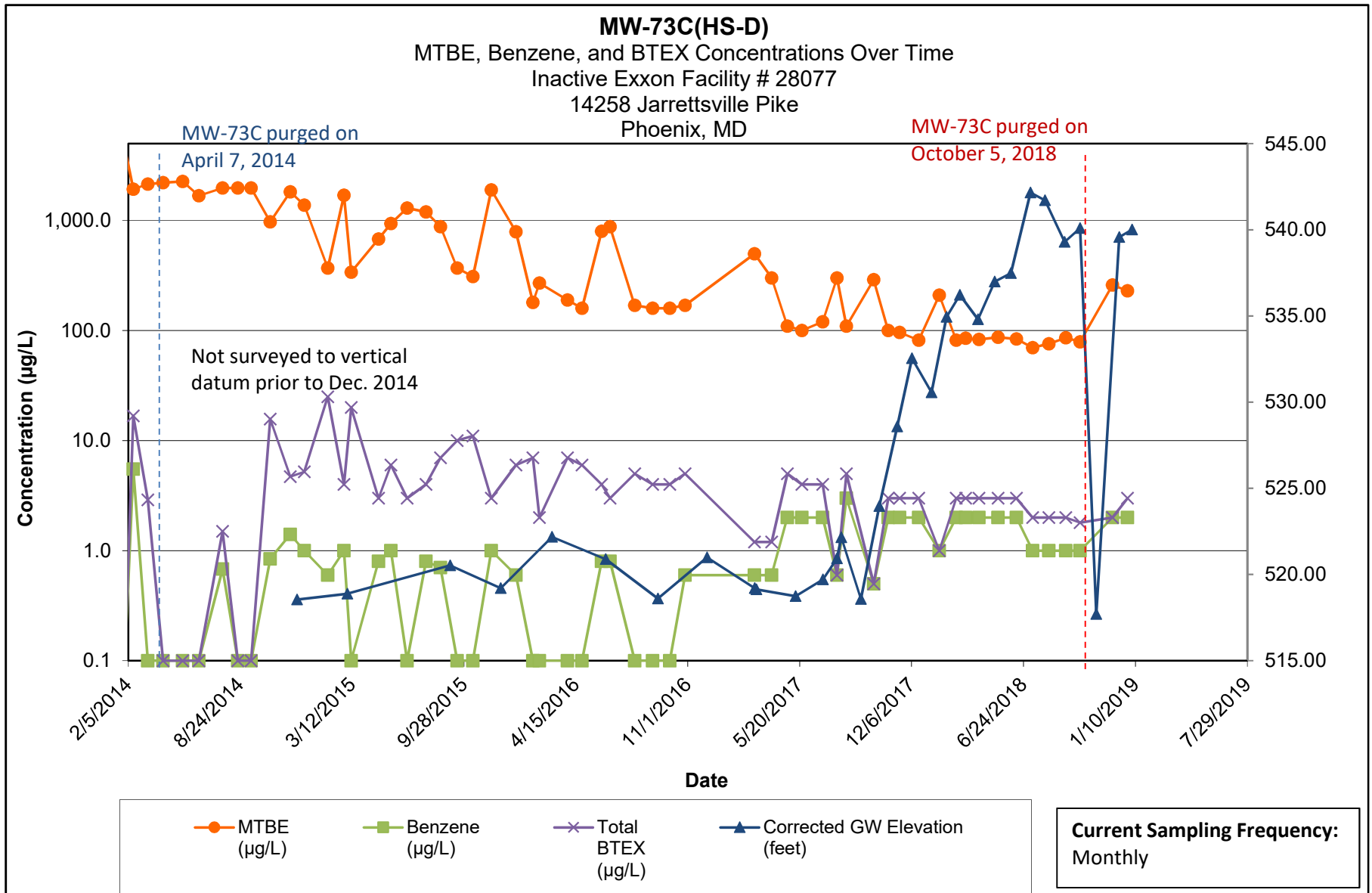
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**MW-73C**



**Note:**

- 1.) ND results are charted as "0.1" to avoid confusion with estimated "J" values.
- 2.) AP - Sample collected above packer (packer set at 250 feet below ground surface)
- 3.) HS-S = Shallow composite HydraSleeve sampler set at half of open borehole.



**Note:**

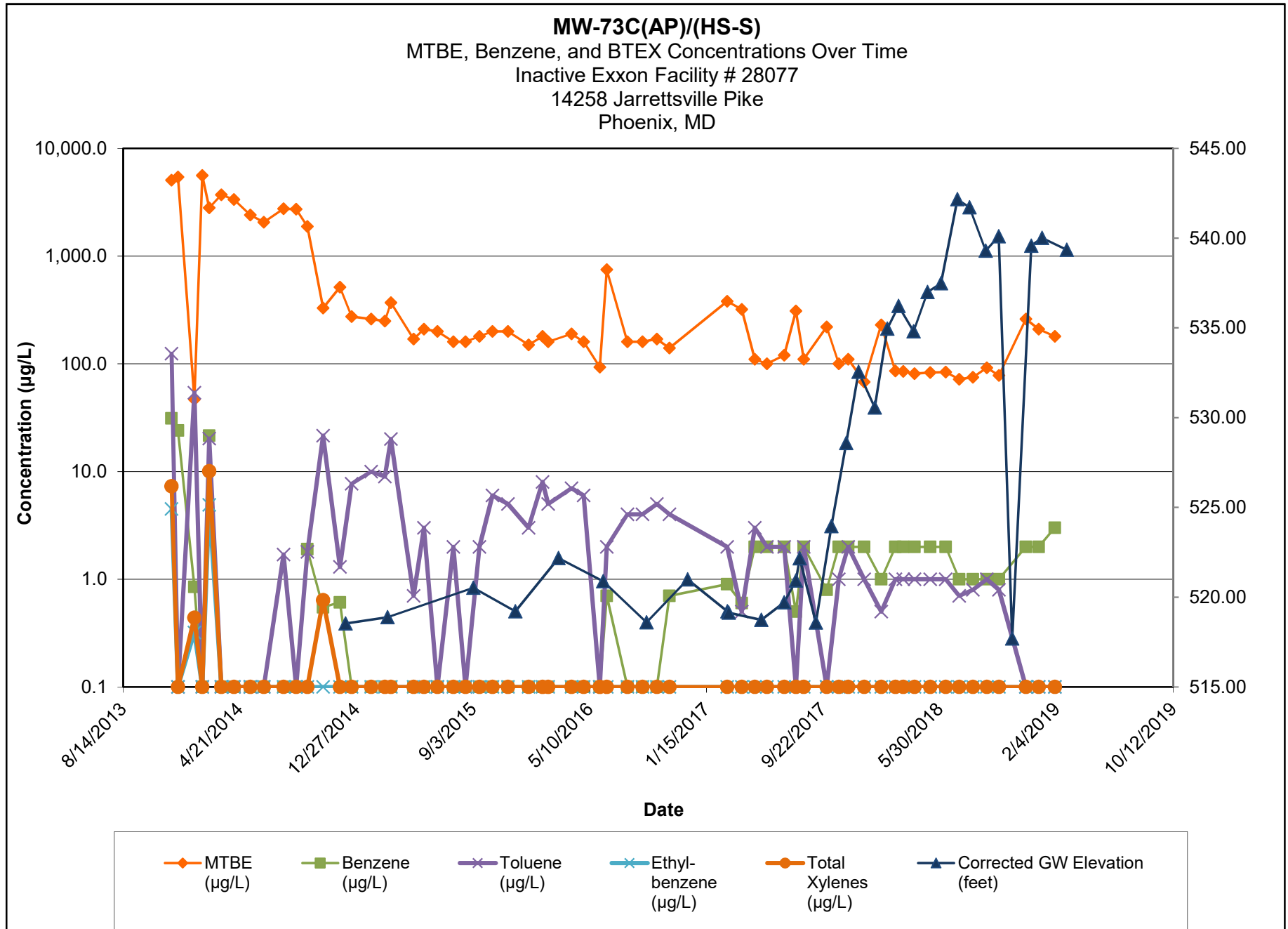
- 1.) ND results are charted as "0.1" to avoid confusion with estimated "J" values.
- 2.) BP - Sample collected below packer (packer set at 250 feet below ground surface)
- 2.) HS-D = Deep composite HydraSleeve sampler set at bottom of open borehole.



## CHART 2

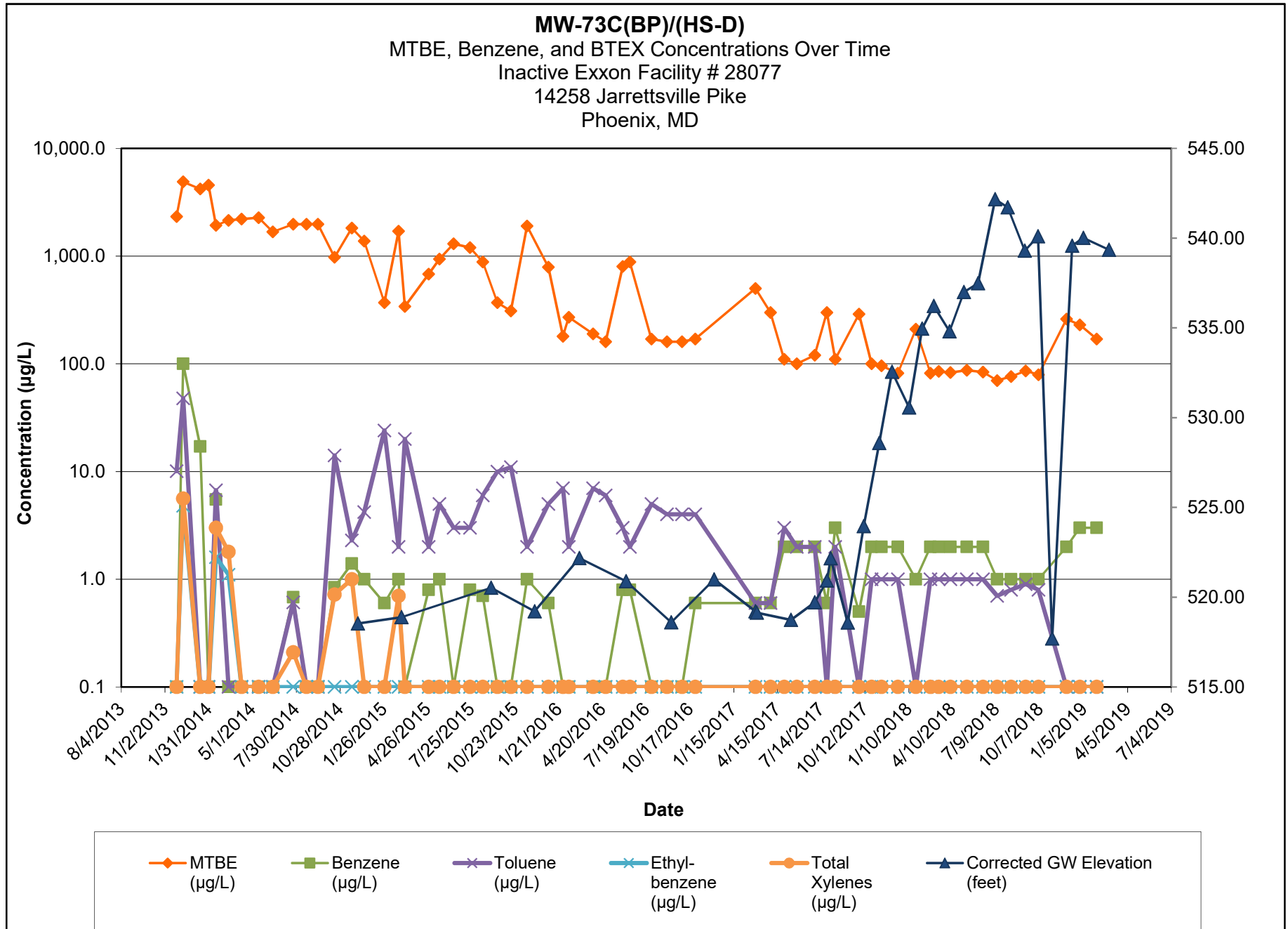
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**Expanded MW-73C**



**Note:**

- 1.) ND results are charted as "0.1" to avoid confusion with estimated "J" values.
- 2.) [R] - indicates well was used for remediation at time of reporting.



**Note:**

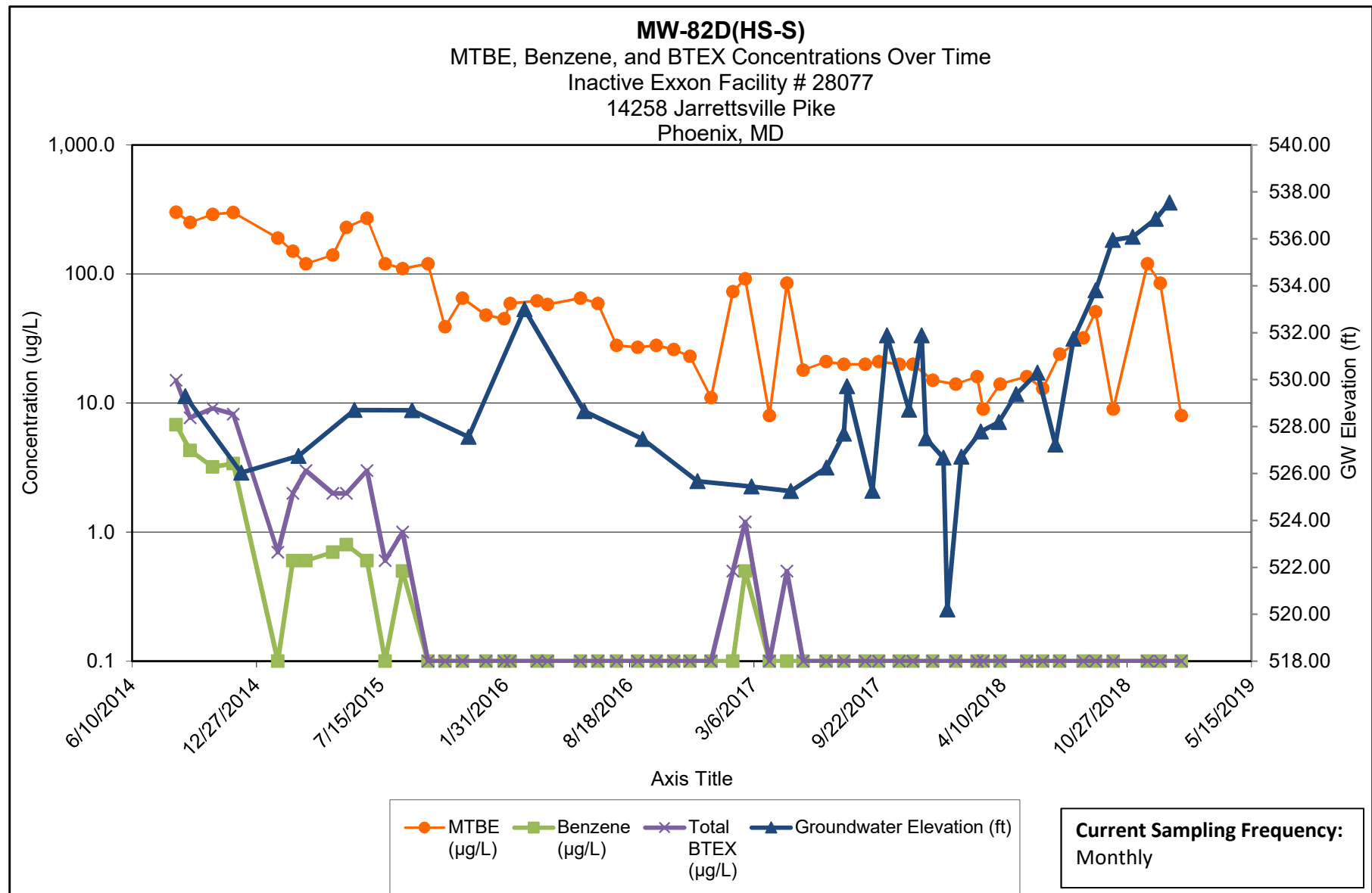
- 1.) ND results are charted as "0.1" to avoid confusion with estimated "J" values.
- 2.) [R] - indicates well was used for remediation at time of reporting.



## CHART 3

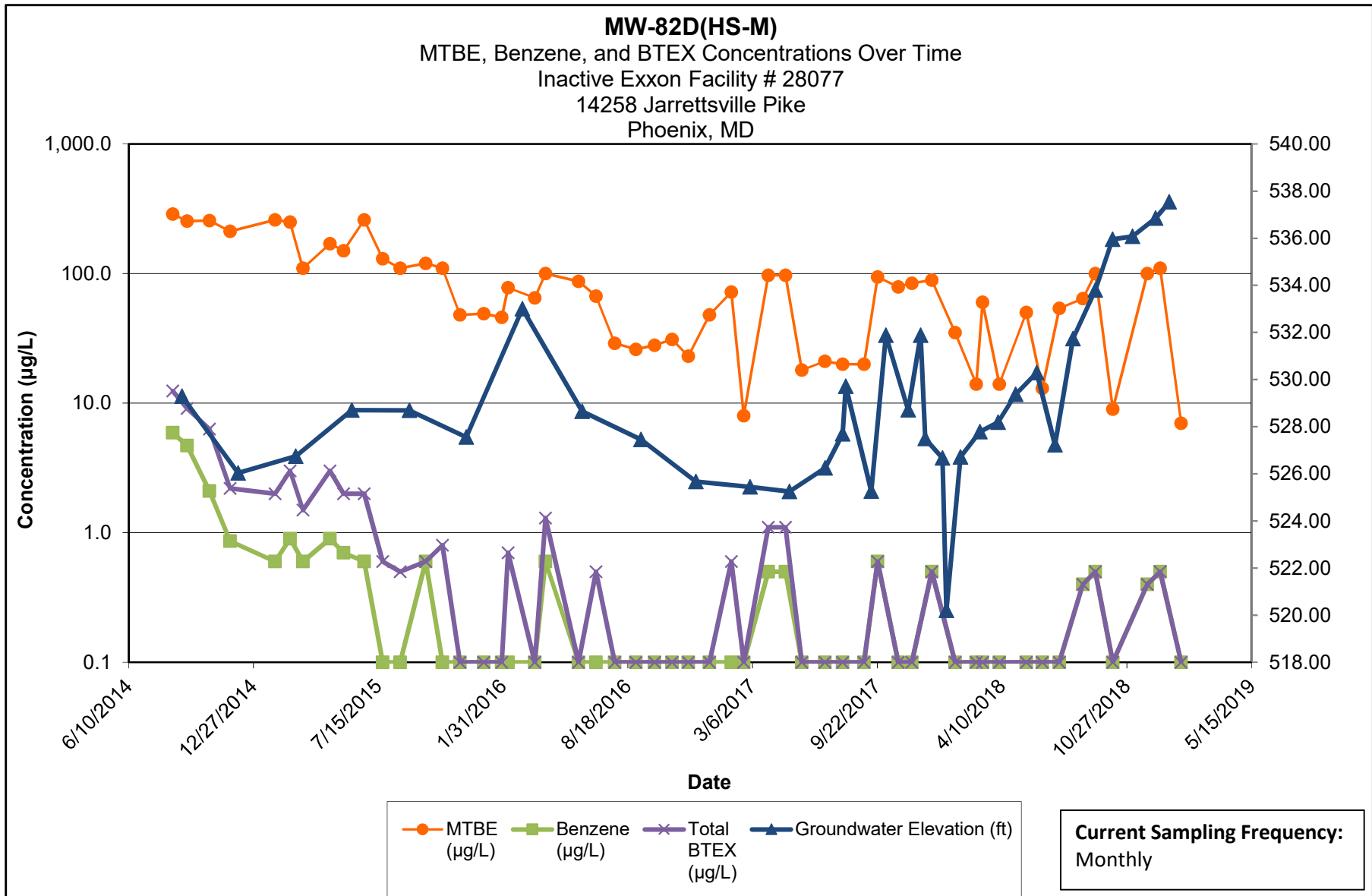
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**MW-82D**



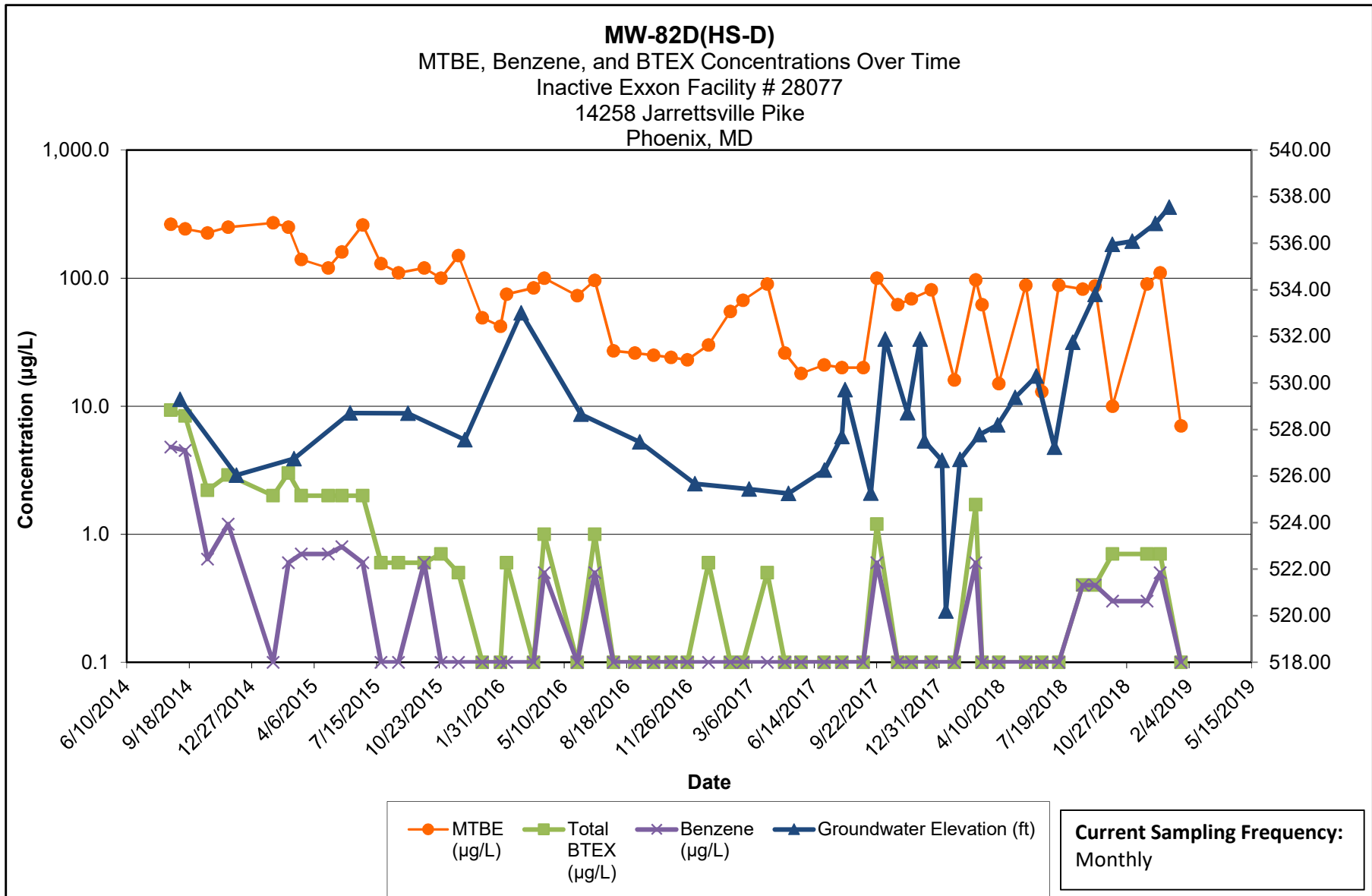
**Note:**

- 1.) ND results are charted as "0.1" to avoid confusion with estimated "J" values.
- 2.) HS-S = Shallow composite HydraSleeve sampler set at half of open borehole.



**Note:**

- 1.) ND results are charted as "0.1" to avoid confusion with estimated "J" values.
- 2.) HS-M = Middle composite HydraSleeve sampler set at middle of open borehole.



**Note:**

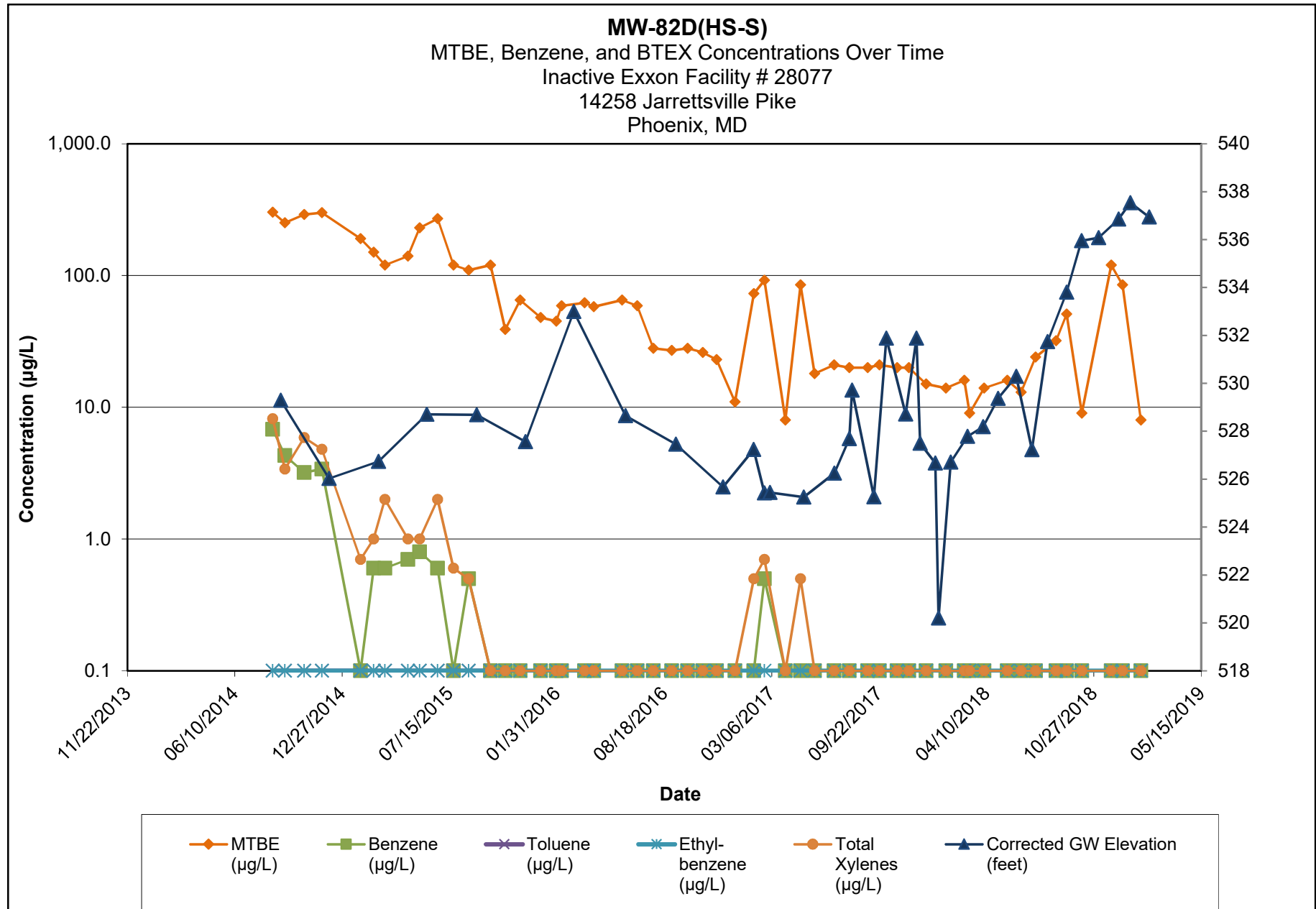
- 1.) ND results are charted as "0.1" to avoid confusion with estimated "J" values.
- 2.) HS-D = Deep composite HydraSleeve sampler set at bottom of open borehole.



## CHART 4

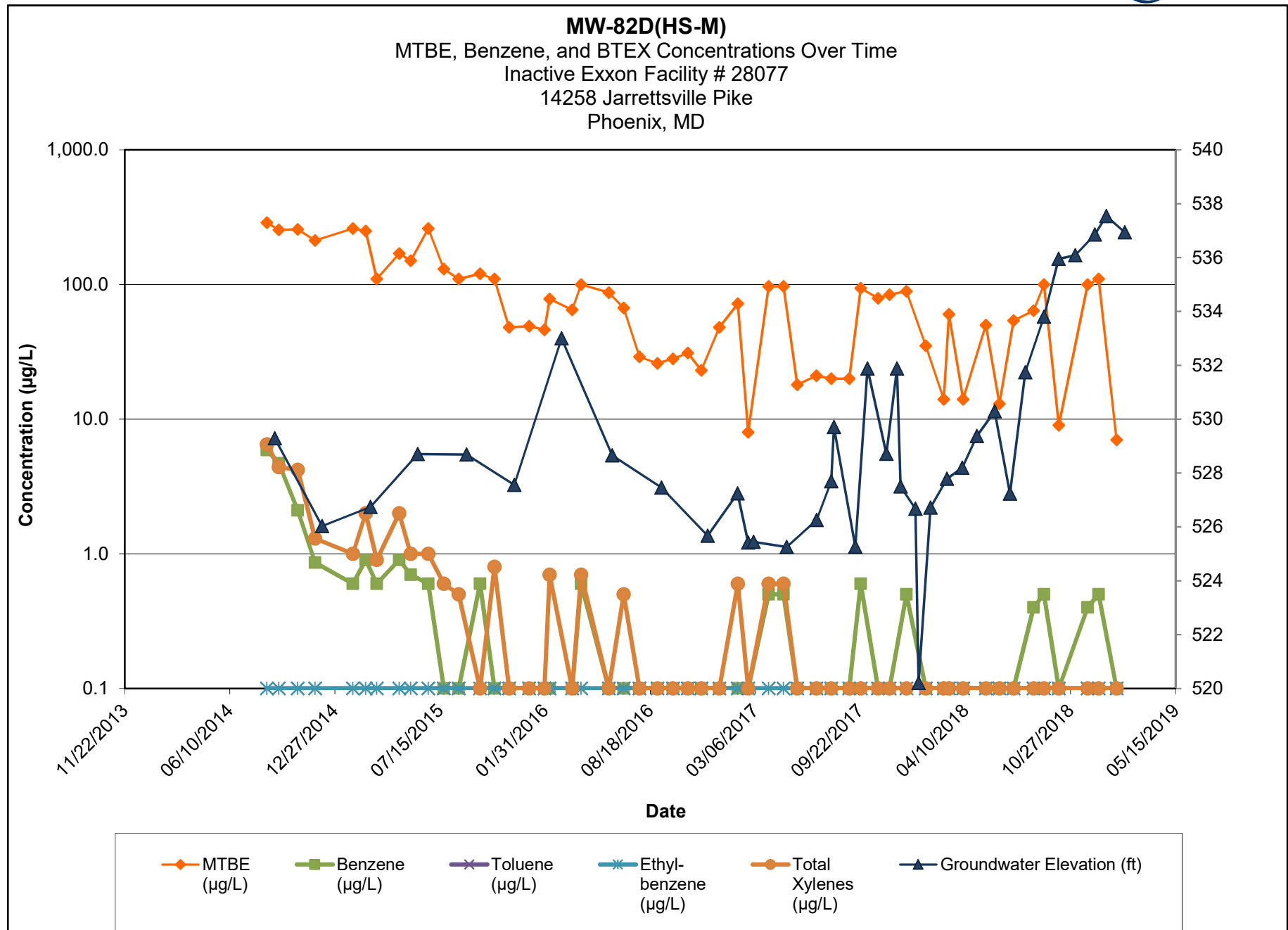
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**Expanded MW-82D**



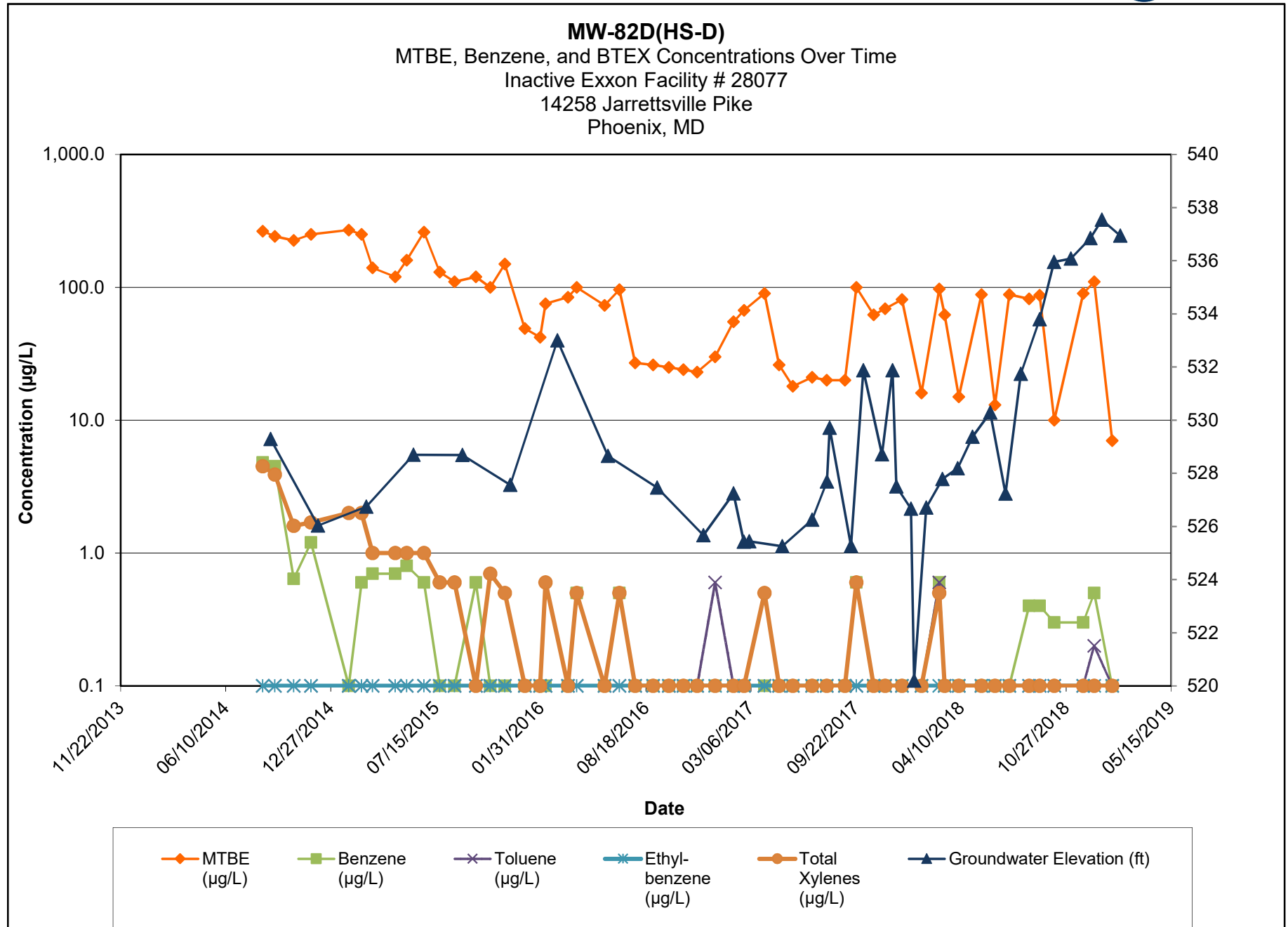
**Note:**

- 1.) ND results are charted as "0.1" to avoid confusion with estimated "J" values.
- 2.) [R] - indicates well was used for remediation at time of reporting.



**Note:**

- 1.) ND results are charted as "0.1" to avoid confusion with estimated "J" values.
- 2.) [R] - indicates well was used for remediation at time of reporting.



**Note:**

- 1.) ND results are charted as "0.1" to avoid confusion with estimated "J" values.
- 2.) [R] - indicates well was used for remediation at time of reporting.