



Guterl Specialty Steel Site

Environmental Monitoring Report

2016 Sampling Results

U.S. ARMY CORPS OF ENGINEERS
Buffalo District
April 2017

BUILDING STRONG ®

Formerly Utilized Sites Remedial Action Program—Guterl Site

Site Description

The Guterl Specialty Steel Corporation Site (Guterl Site) is located in Lockport, Niagara County, New York, approximately 20 miles northeast of Buffalo, New York. The U.S. Army Corps of Engineers is investigating the site under the Formerly Utilized Sites Remedial Action Program (FUSRAP). This program was established in 1974 to identify, investigate, and if necessary, clean up or control sites throughout the United States that were contaminated as a result of the Nation's early atomic weapons and energy programs.

The 70-acre Guterl Site (Figure 1) comprises three areas:

- The 52-acre Allegheny Technologies Incorporated (ATI) (formerly Allegheny Ludlum Corporation) property. ATI Specialty Materials operates a specialty steel manufacturing facility in the southwest portion of this property.
- The 9-acre landfill area owned by ATI. This area is in the northwest corner of the site. The landfill, which ceased operations as a waste disposal area in 1981, is a Class 2 New York State Department of Environmental Conservation Inactive Hazardous Waste Disposal Site (Site No. 932032).
- The 9-acre excised area owned by Guterl Specialty Steel. This area includes nine buildings located in the southeast corner of the site that had been used during Atomic Energy Commission (AEC) operations to roll uranium metal. These buildings are abandoned, and a chain link security fence surrounds them.

Land use near the Guterl Site is mixed. It consists of private residences, light industries, and a former railroad right-of-way. The Erie Canal is south-southeast of the site.

Purpose

The purpose of groundwater monitoring at the Guterl Site is to determine the potential for movement of FUSRAP-related radiological contaminants associated with historical AEC activities. Between 1948 and 1956, the AEC's New York Operations Office managed contracts there with Simonds Saw and Steel, a previous owner of the property, to roll uranium steel billets into rods.

The Corps of Engineers samples a subset of the on-site groundwater wells annually to (1) monitor conditions at the site, (2) develop baseline data for monitoring groundwater in the event that an alternative is chosen that includes natural attenuation, and (3) develop and evaluate alternatives to address unacceptable risks. The Corps of Engineers posts annual environmental monitoring data reports for the Guterl Site under the "Environmental Monitoring" section of the project website (see page 3 footer for website).

Scope

The Corps of Engineers selects groundwater wells at the Guterl Site for sampling based on previously collected data and the potential for transport of FUSRAP-related constituents. The Corps sampled 51 groundwater wells in 2015; normally a subset of these wells (between 20 and 24) is sampled annually. This larger array of groundwater wells will be sampled every three to five years to verify the overall conditions of FUSRAP-related constituents in groundwater underlying the Guterl Site. Figure 1 shows the existing wells at the site and highlights the 24 shallow and deep groundwater wells sampled in 2016. A contracted laboratory analyzed the samples for dissolved uranium, the most mobile FUSRAP-related constituent at the Guterl Site.

The Corps of Engineers typically samples groundwater seeps discharging from the northern wall of the Erie Canal and surface water in the Erie Canal. However, due to regional drought conditions in 2016, there were no visible groundwater seeps to sample. Without this groundwater discharge to the canal, the Corps determined that Erie Canal water would not be measurably influenced that year, so surface water samples were not collected in 2016. Historical seep and surface water sample results, collected between 2011 and 2015, can be found in the *2015 Environmental Monitoring Report*.

Results and Interpretation

Groundwater Results

Table 1 presents the unfiltered and filtered analytical results for isotopic and total uranium in groundwater samples collected at the site between 2007 and 2016. The groundwater sample results are consistent with historical (i.e. 2007 and 2009–2015) data as shown in Table 1. Uranium in shallow groundwater continues to extend in the direction of groundwater flow, from the northwest to the southeast towards the Erie Canal (Figure 2). Uranium in deep groundwater is not as extensive as it is in the shallow groundwater plume; however, it extends in the same northwest to southeast

direction (Figure 3). Figure 4 presents filtered total uranium results in groundwater wells sampled in 2016, arranged in the direction of groundwater flow across the site. Groundwater monitoring well MW-605D is at the center of the Guterl Site; it continues to exhibit the highest total uranium concentration (271 µg/L, unfiltered) in groundwater.

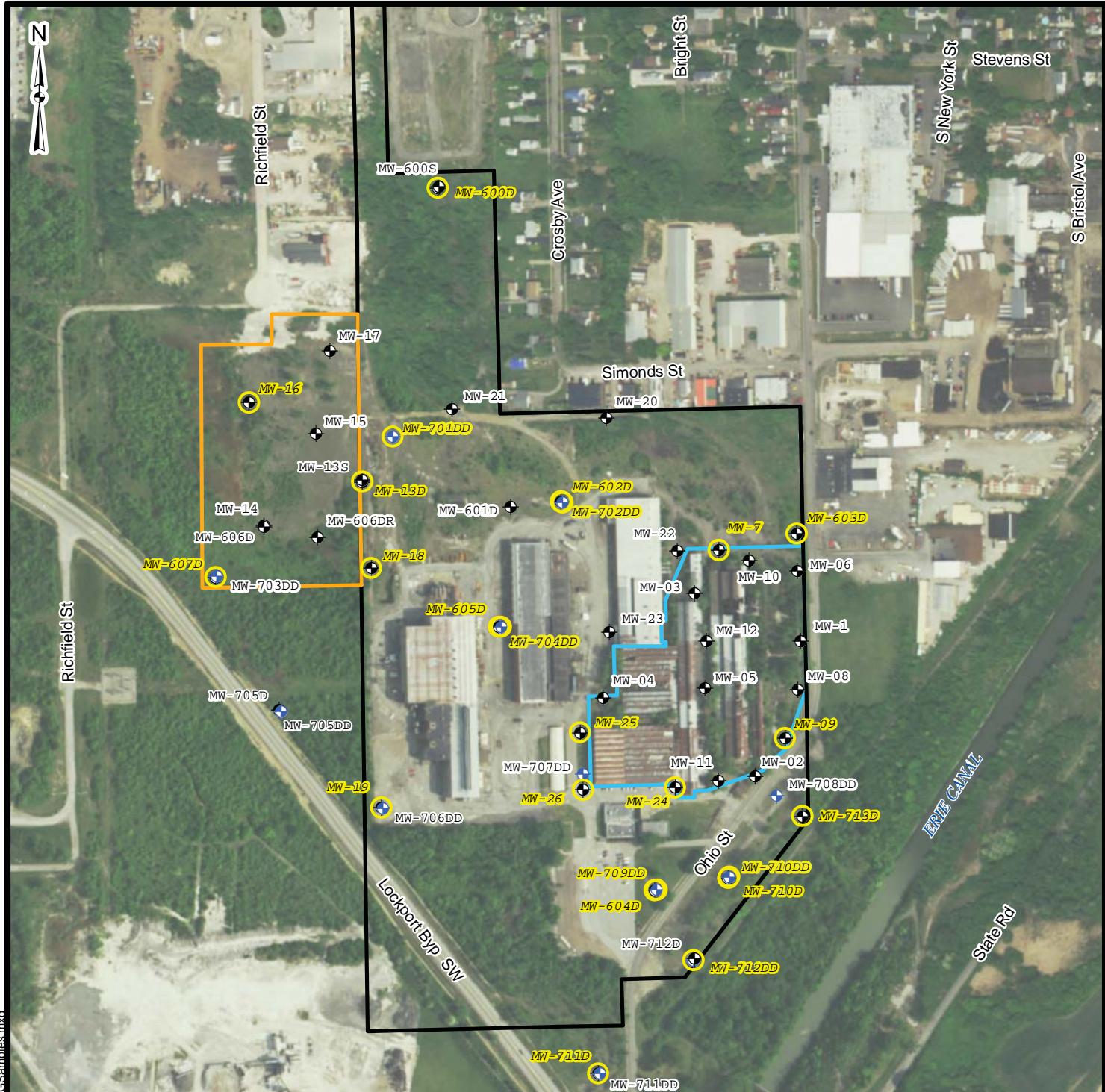
For the 2015 sampling event, the results for the paired shallow well MW-602D and deep well MW-702DD were an anomaly. The result for each well contradicted previous concentration levels. This led the Corps to review lab reports and sample collection logs to determine if there had been an error in the sample collection and/or laboratory processing analysis, yet no error was apparent. The 2016 sampling event supports that 2015 was an anomaly since the 2016 sampling results from these wells were consistent with historical results before 2015.

Conclusions

Uranium concentrations in groundwater at the Guterl Site are consistent overall with historical results. There is a seasonal fluctuation in the size of the groundwater plume. Depending on what time of the year the sampling occurs, the uranium concentration results vary due to the amount of groundwater present within the site. Groundwater under the site is currently not a utilized source of potable (i.e. drinking) water; therefore, there is no risk to human health above acceptable levels.

Next Steps

The U.S. Army Corps of Engineers will continue to sample groundwater, seeps, and surface water to monitor conditions and support the development of the feasibility study and proposed plan for the Guterl Site. The next round of groundwater, seeps, and surface water sampling will occur in the fall of 2017.



Legend

- ◆ Deep Monitoring Well
- Guterl Landfill Boundary
- ◆ Shallow Monitoring Well
- ATI Specialty Materials
- Monitoring Well Sampled in 2016
- Guterl Excised Area Boundary

0 225 450 900
Feet



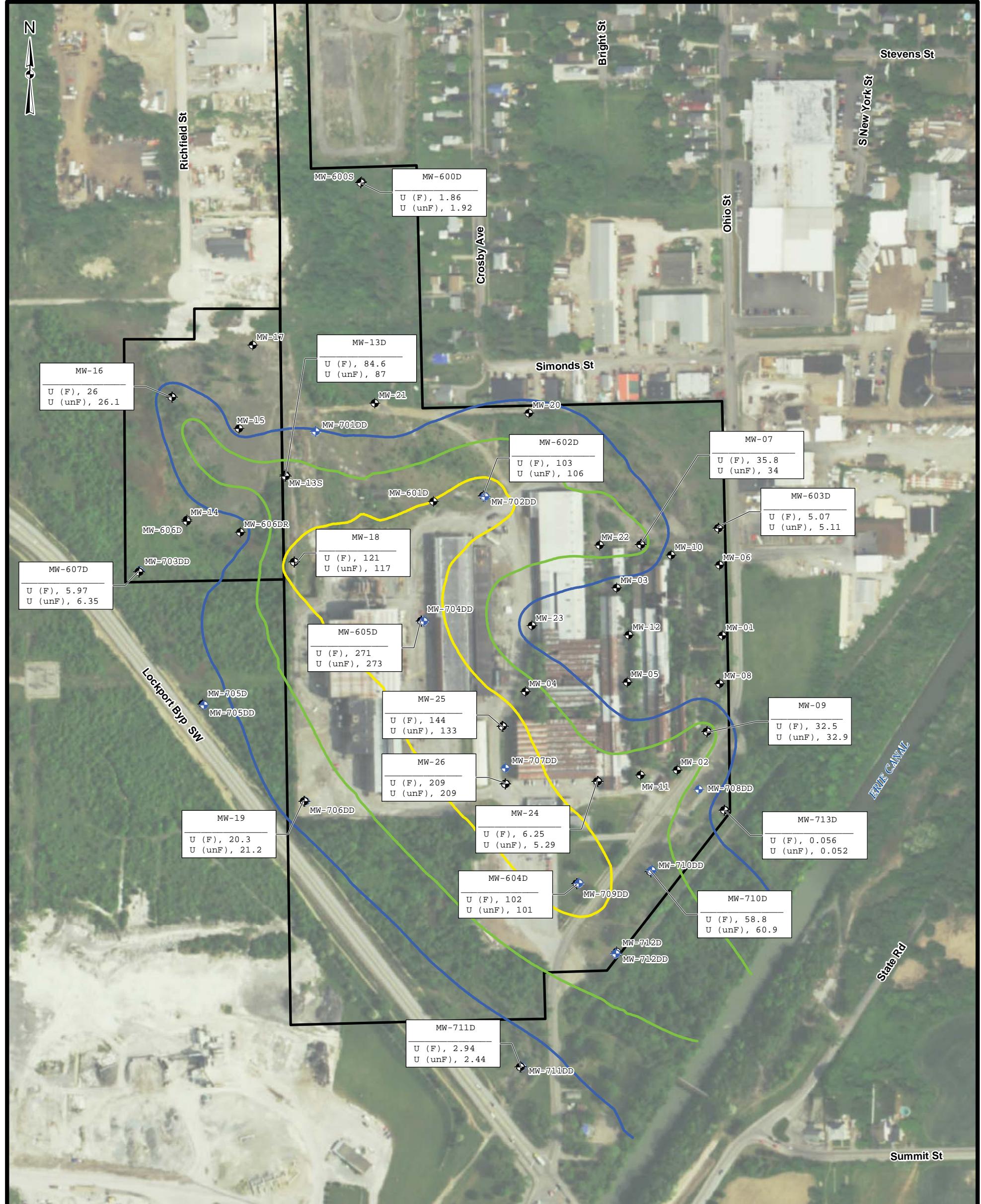
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BUFFALO, NY
Buffalo District

2016 GROUNDWATER SAMPLING LOCATIONS

Document Path: K:\Guterl\GIS\AcMan\Groundwater\2017\170201_2016WGSamples.mxd
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GUTERL SPECIALTY STEEL CORPORATION
LOCKPORT, NEW YORK

FIGURE 1

**Legend**

- Deep Monitoring Well
- Shallow Monitoring Well
- Site Boundary
- Extent of Groundwater Above 10 µg/l
- Extent of Groundwater Above 30 µg/l
- Extent of Groundwater Above 90 µg/l

Notes:

U (F) - Total Uranium Filtered
U (unF) - Total Uranium Unfiltered

All concentrations reported in µg/l.
µg/l - Micrograms per Liter.

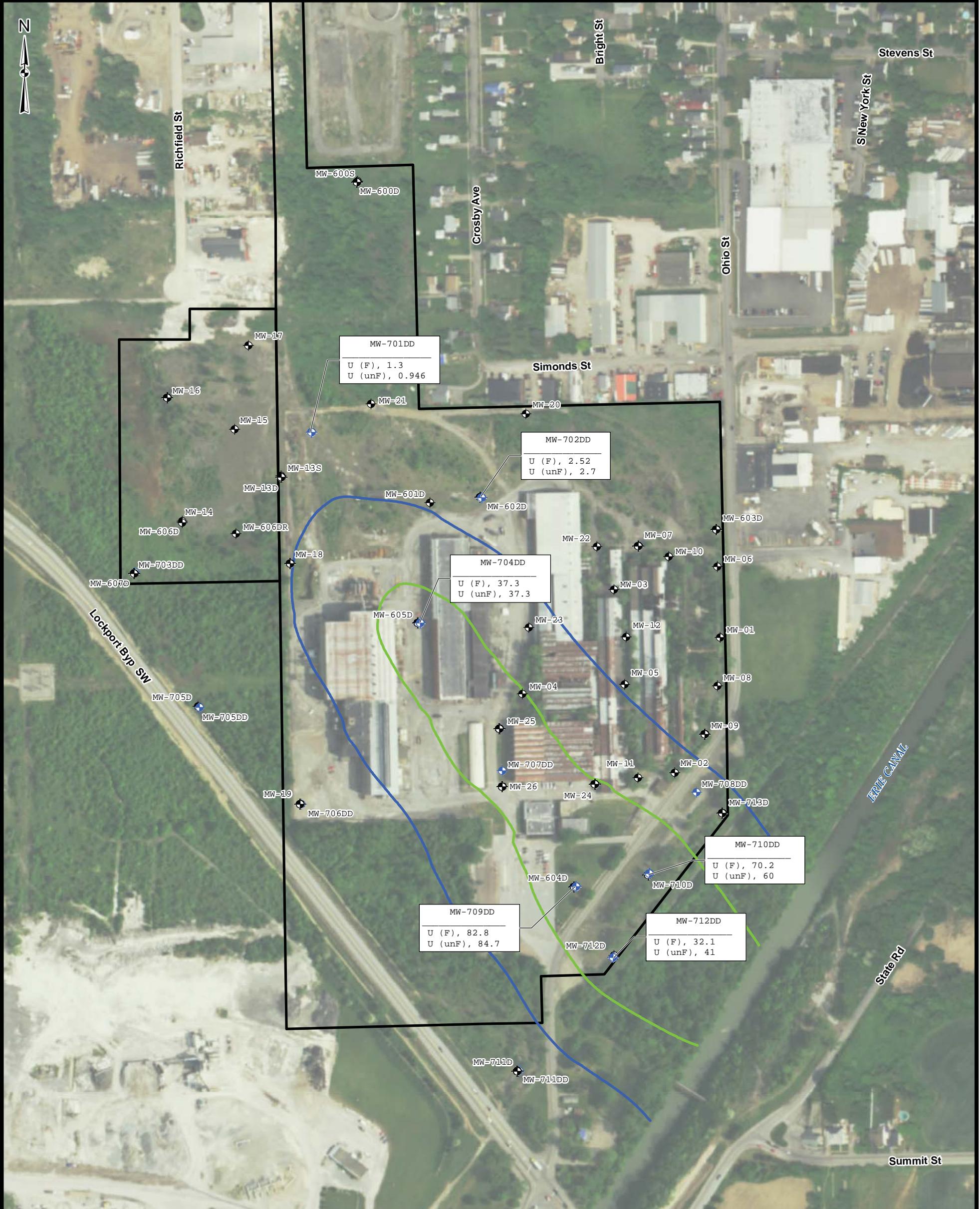
Location
ID
MW-25
U (unF), 133
Radionuclide
Activity

0 150 300 600
Feet



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**TOTAL URANIUM IN SHALLOW GROUNDWATER
(SEPTEMBER 2016)**

**Legend**

- Deep Monitoring Well
- Shallow Monitoring Well
- Site Boundary
- Extent of Groundwater Above 10 µg/l
- Extent of Groundwater Above 30 µg/l
- Extent of Groundwater Above 90 µg/l

Notes:

U (F) - Total Uranium Filtered
U (unF) - Total Uranium Unfiltered

All concentrations reported in µg/l.
µg/l - Micrograms per Liter.

Location ID: MW-709DD
Radionuclide: U (unF), 84.7
Activity:

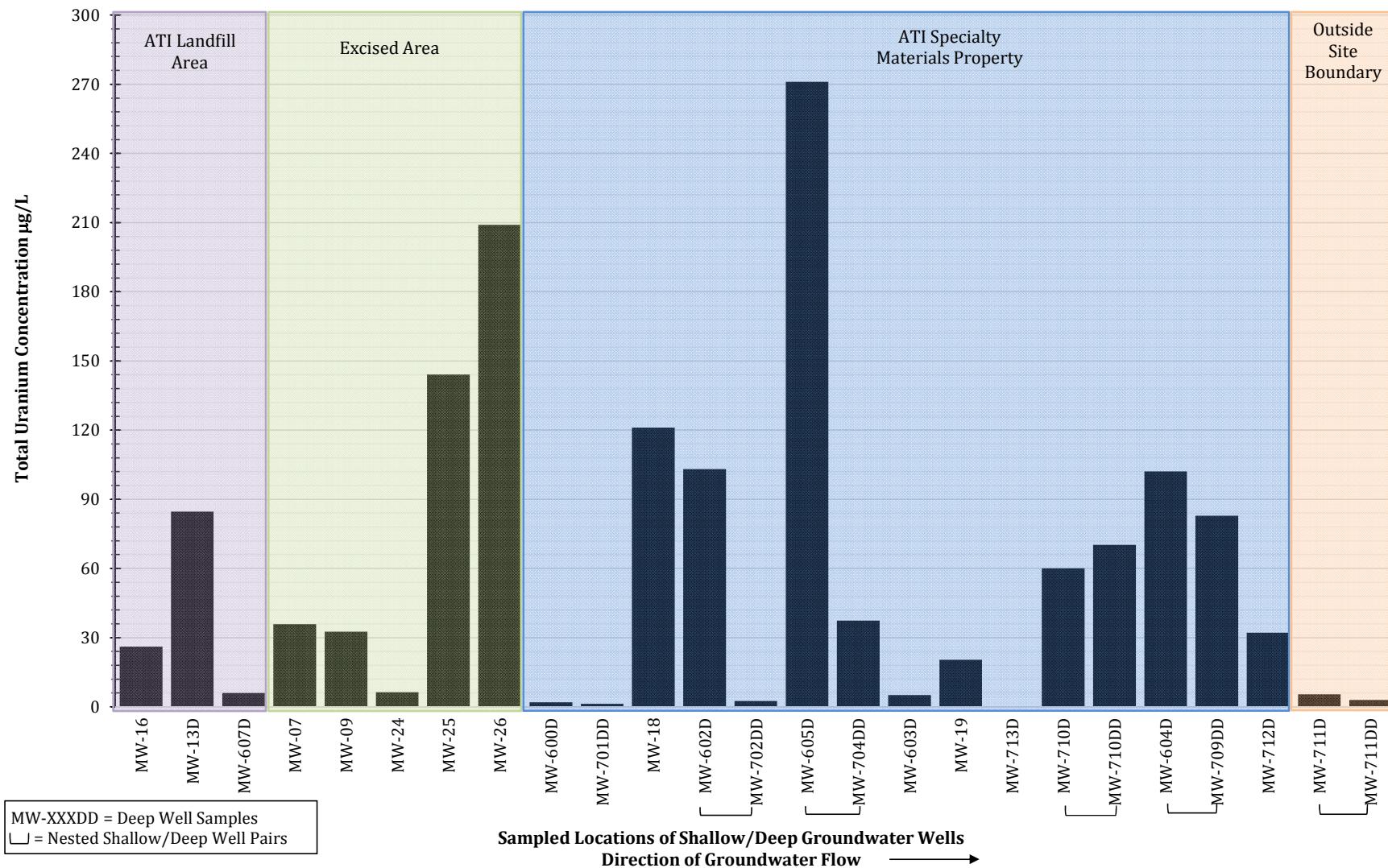
0 150 300 600
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**TOTAL URANIUM IN DEEP GROUNDWATER
(SEPTEMBER 2016)**

Figure 4: Total Uranium Concentrations in Filter Groundwater Samples (September 2016)





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Table 1
Guterl Specialty Steel Corporation
Groundwater Results 2007–2016

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-01	8/2/2007		1.32	-0.00500 U	1.27
	11/14/2007		1.03	0.0460 U	0.720
	9/16/2009	3.209	2.06	0.0263 U	1.24
	9/20/2010	3.28	1.98	0.126 U	1.29
	8/23/2011	4.00 J	1.86	0.0200 U	1.22
	10/25/2012	3.44	1.11	0.100 J	1.05
	9/26/2013	3.43	1.28	0.136 J	1.04
	5/6/2014	3.85	1.24	0.0710 J	1.23
	8/4/2015	3.86	1.40	0 U	1.63
MW-01 (Filtered)	8/2/2007		1.46	0.0700 U	1.30
	11/14/2007		0.830	0.0560 U	0.930
	9/16/2009	3.10	1.70	0.221	1.18
	9/20/2010	2.93	2.16	0.245	1.75
	8/23/2011	3.50 J	1.32	-0.00800 U	1.24
	10/25/2012	3.29	1.15	-0.0150 U	0.799
	9/26/2013	3.47	1.24 J	0.0290 UJ	1.17 J
	5/6/2014	3.85	1.27	0.147 J	0.955
	8/4/2015	3.68	1.72	0.137	1.14
MW-02	8/7/2007		6.30	0.220	7.20
	11/14/2007		6.00	0.400	7.10
	9/15/2009	35.3	12.4	1.02	15.5
	9/20/2010	21.4	7.31	0.298	7.70
	8/23/2011	41.3 J	12.0	0.620	12.9
	10/25/2012	23.8	7.40	0.472	7.97
	8/6/2015	9.93	3.74	0.168 J	3.41
MW-02 (Filtered)	8/7/2007		6.10	0.300	6.50
	11/14/2007		5.85	0.330	7.10
	9/15/2009	37.05	12.5	0.728	12.2
	9/20/2010	21.8	6.90	0.900	6.77
	8/23/2011	39.7 J	9.68	0.360	10.4
	10/25/2012	24.0	7.21	0.279	7.58
	8/6/2015	10.5	3.09	0.246 J	3.98

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-03	8/9/2007		2.38	0.130 U	1.80
	11/14/2007		1.89	-0.0100 U	1.56
	9/15/2009	2.78	1.202	0.177 U	0.986
	9/20/2010	1.95	1.44	0.198 J	1.29
	8/22/2011	2.60	0.880	0.0400 U	0.920
	8/5/2015	3.84	1.50	0.0470 U	1.02
MW-03 (Filtered)	8/7/2007		2.20	0.0900	2.31
	11/14/2007		1.68	0.0680 U	1.62
	9/15/2009	2.71	1.43	0.144 U	1.64
	9/20/2010	1.86	2.02	0.473	1.38
	8/22/2011	2.50	1.06	0.0120 U	0.860
	8/5/2015	3.93	1.54	0.0550 J	1.68
MW-04	8/10/2007		17.8	0.720	16.2
	11/15/2007		17.3	0.660	15.7
	9/17/2009	30.5	15.3	0.920	13.4
	9/20/2010	39.9	13.6	1.04	13.7
	8/19/2011	48.0	14.9	0.870	14.4
	10/24/2012	39.6	15.5	0.748	13.9
	8/4/2015	38.8	12.9	0.528	12.7
MW-04 (Filtered)	8/8/2007		18.2	0.790	15.9
	11/15/2007		17.9	0.760	16.8
	9/17/2009	33.4	13.3	0.554	12.8
	9/20/2010	39.2	11.7	0.622	11.0
	8/19/2011	46.0	16.1	0.800	16.7
	10/24/2012	41.2	14.0	0.500	13.0
	8/5/2015	39.3	12.7	0.711	12.6
MW-05	8/10/2007		3.03	0.250	2.61
	11/14/2007		2.20	0.0450 U	2.09
	9/17/2009	5.16	2.08	0.180	1.56
	9/20/2010	5.95	3.62	0.546	2.64
	8/22/2011	6.10	2.36	0.0980	2.06
	8/10/2015	6.07	2.43	0.136 J	2.18
MW-05 (Filtered)	8/9/2007		3.19	0.25	2.77
	11/14/2007		2.16	0.15	1.82
	9/17/2009	5.91	2.59	0.1929	1.998
	9/20/2010	5.75	2.50	0.143	2.03
	8/22/2011	6.20	2.40	0.112	2.21
	8/10/2015	6.06	2.39	0.078 J	1.89

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-06	8/6/2007		1.55	0.0280 U	1.29
	11/14/2007		3.91	0.150	2.94
	9/15/2009	1.20	0.803	0.053 U	0.474
	9/17/2010	5.07	1.92	0.231 J	1.5
	8/12/2011	3.60	1.77	0.0340	1.16
	8/4/2015	3.77	1.86	0.0470 J	1.26
MW-06 (Filtered)	8/2/2007		1.30	0.0600 U	1.06
	11/14/2007		2.95	0.0900	2.62
	9/15/2009	0.820 U	0.308 U	0.104 U	0.317
	9/17/2010	4.87	2.81	0.380 J	2.10
	8/12/2011	3.60	1.57	0.107	1.04
	8/4/2015	3.77	1.18	0.103 J	1.01
MW-07	9/15/2009	1.27	0.271 U	0.267 U	0.487
	9/17/2010	75.8	13.2	1.09	13.6
	8/12/2011	33.4	11.8	0.670	12.1
	10/23/2012	37.4	12.9	0.620	12.3
	9/26/2013	9.07	3.67	0.0790 J	2.90
	5/6/2014	2.84	0.716	0.0780 J	0.684
	8/4/2015	33.4	10.8	0.195 J	10.2
	9/21/2016	34.0			
MW-07 (Filtered)	9/15/2009	1.24	0.777	0.187 U	0.331
	9/17/2010	33.9	11.2	0.693	10.9
	8/12/2011	32.4	10.5	0.540	10.6
	10/23/2012	36.6	12.4	0.612	12.3
	9/26/2013	9.95	3.49	0.0960 J	3.74
	5/6/2014	2.75	1.06	-0.00900 U	0.908
	8/4/2015	29.3	9.86	0.457	10.4
	9/21/2016	35.8			
MW-08	8/20/2007		0.510	0 U	0.260
	11/14/2007		0.410	0 U	0.260
	9/16/2009	0.966 U	0.754	0.0376 U	0.309 U
	9/20/2010	1.00 U	0.790	0.120 U	0.480
	8/8/2011	1.10 J	0.370 J	-0.0060 UJ	0.240 J
	8/5/2015	1.09	0.682 J	0.0380 U	0.409 J
MW-08 (Filtered)	8/20/2007		0.390	-0.00500 U	0.180
	11/14/2007		0.230	0.0450 U	0.084 U
	9/16/2009	0.809 U	0.667	0.0373 U	0.111 U
	9/20/2010	1.00 U	1.19	0.348 J	0.718
	8/8/2011	1.10 J	0.400	0.0220 U	0.340
	8/5/2015	1.08	0.481	0.0650 J	0.499

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-09	8/7/2007		4.20	0.270	4.99
	11/14/2007		4.22	0.230	4.50
	9/16/2009	18.9	6.42	0.436	6.80
	9/20/2010	19.5	8.48	1.30	8.66
	8/8/2011	21.8 J	6.07	0.320	6.48
	10/25/2012	41.0	11.3	0.427	13.7
	9/26/2013	111	34.1	1.86	35.9
	5/6/2014	46.0	13.3	0.572	15.1
	8/5/2015	47.0	14.1	0.751	15.6
	9/22/2016	32.9			
MW-09 (Filtered)	8/7/2007		4.74	0.160	5.17
	11/14/2007		4.03	0.220	4.11
	9/16/2009	18.02	6.86	0.677	8.38
	9/20/2010	20.8	7.44	0.617	6.85
	8/8/2011	21.1 J	6.26	0.280	6.70
	10/25/2012	41.1	12.5	0.745	13.8
	9/26/2013	117	33.0	1.35	36.4
	5/6/2014	48.7	13.0	1.00	15.2
	8/5/2015	47.5	13.9	0.592	15.5
	9/22/2016	32.5			
MW-10	9/15/2009	0.965 U	0.596	0.0394 U	0.491
	9/17/2010	1.21	1.25	0.208 J	0.700
	8/12/2011	1.60	0.580	0.0290	0.410
	8/6/2015	1.48	0.660	0.0700 J	0.587
MW-10 (Filtered)	9/15/2009	1.0029	0.198	0.0889 U	0.360
	9/17/2010	1.17	1.38	0.29 0J	1.40
	8/12/2011	1.50	0.650	0.0110 U	0.530
	8/6/2015	1.34	0.482	0.0770 J	0.600
MW-11	8/20/2007		1.82	0.130	1.90
	11/14/2007		6.80	0.380	5.91
	9/15/2009	2.61	1.36	0.270	1.27
	9/20/2010	20.9	4.50	0.359	4.80
	8/8/2011	17.7 J	4.13	0.260	4.56
	10/25/2012	32.1	10.1	0.521	10.6
	8/6/2015	15.6	4.95	0.214 J	4.89

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-11 (Filtered)	8/20/2007		1.65	0.100	1.41
	11/14/2007		5.32	0.330	5.28
	9/15/2009	6.39	2.22	0.184 U	2.34
	9/20/2010	22.1	8.62	1.19	7.77
	8/8/2011	14.5 J	4.75	0.220	4.65
	10/25/2012	33.0	10.8	0.741	12.0
	8/6/2015	13.3	4.10	0.327 J	5.13
MW-12	9/15/2009	1.310	0.700	0.0682 U	0.4215
	9/20/2010	1.68	1.35	0.0980	1.02
	8/22/2011	3.90	1.49	0.136	1.43
	8/6/2015	2.43	0.857	0.123 J	0.885
MW-12 (Filtered)	9/15/2009	0.729 U	0.614	0.0123 U	0.482
	9/20/2010	1.91	0.990	0.261 J	0.782
	8/22/2011	3.80	1.06	0.140	1.36
	8/6/2015	2.38	0.877	0 U	0.877
MW-13D	8/6/2007		19.6	0.820	21.0
	11/16/2007		20.3	1.00	22.4
	9/23/2009	101.5	30.5	1.83	32.4
	9/14/2010	72.6	27.2	0.546	29.0
	8/11/2011	79.8	23.9	1.13	24.6
	10/25/2012	109	35.2	1.86	35.5
	9/25/2013	80.0	26.1	1.45	26.2
	5/7/2014	103	32.9	1.09	33.5
	8/10/2015	88.8	29.4	1.66	29.3
	9/21/2016	87.0			
MW-13D (Filtered)	8/6/2007		21.4	0.980	20.9
	11/16/2007		20.4	1.05	22.3
	9/23/2009	105.7	34.3	1.91	35.6
	9/14/2010	69.1	19.6	0.328 J	20.9
	8/11/2011	80.2	22.6	1.13	23.6
	10/25/2012	107	35.2	1.47	36.1
	9/25/2013	80.5	22.8	1.52	23.9
	5/7/2014	98.5	25.6	1.46	27.2
	8/10/2015	85.5	24.6	1.47	30.7
	9/21/2016	84.6			
MW-14	8/1/2007		0.920	0.100	0.900
	11/12/2007		1.52	0.0210 U	1.08
	9/23/2009	6.39	2.47	0.2291	2.94
	9/14/2010	7.01	2.02	0.157 U	1.73
	8/16/2011	8.00	2.49	0.170	2.08
	8/10/2015	10.4	3.17	0.113 J	3.70

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-14 (Filtered)	8/1/2007		0.870	0.0360 U	0.800
	11/12/2007		0.930	0.0480 U	1.17
	9/23/2009	6.10	2.44	0.2501	2.83
	9/14/2010	7.29	2.36	0.226 J	2.20
	8/16/2011	8.00	2.49	-0.0380 U	2.09
	8/10/2015	9.24	3.50	0.116 J	3.11
MW-15	8/14/2007		0.170	0.0600 U	0.110 U
	11/13/2007		4.13	0.340	4.58
	9/22/2009	0.843 U	1.03	0.140 U	0.387
	9/14/2010	1.00 U	0.688 J	0.174 J	0.459
	8/16/2011	2.00	0.370	0.0220 U	0.610
	8/6/2015	3.98	0.965	0.193 J	1.27
MW-15 (Filtered)	8/14/2007		0.120 U	-0.00500 U	0.08200 U
	11/13/2007		5.70	0.330	7.20
	9/22/2009	1.089	0.400	0.0872 U	0.633
	9/14/2010	1.39	0.812	0.0360 U	0.643
	8/16/2011	1.50	0.480	0.00300 U	0.580
	8/6/2015	4.26	1.27	0.0510 U	1.53
MW-16	8/1/2007		5.55	0.310	6.30
	11/12/2007		8.60	0.430	9.60
	9/22/2009	29.8	11.4	0.701	10.3
	9/14/2010	21.9	3.04	0.198	3.57
	8/19/2011	29.3	8.80	0.440	9.70
	10/22/2012	27.1	8.54	0.382	9.42
	9/25/2013	35.7	11.3	0.556	11.1
	5/6/2014	25.3	7.20	0.268	8.00
	8/6/2015	28.2	7.75	0.448 B	8.37
	9/21/2016	26.1			
MW-16 (Filtered)	8/1/2007		5.59	0.390	6.40
	11/12/2007		9.00	0.330	9.70
	9/22/2009	32.007	11.0	0.905	11.6
	9/14/2010	26.7	7.03	0.586	8.18
	8/19/2011	27.7	8.90	0.450	10.2
	10/22/2012	28.1	9.19	0.318	9.86
	9/25/2013	36.4	10.0	0.995	11.6
	5/6/2014	26.0	7.95	0.589	8.02
	8/6/2015	28.0	9.61	0.692	9.45
	9/21/2016	26.0			

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-17	7/31/2007		0.660	0.0710	0.640
	11/12/2007		0.610	0.0160 U	0.570
	9/22/2009	6.21	2.55	0.319	2.43
	9/14/2010	7.70	2.65	0.300	2.48
	8/16/2011	8.50	2.27	0.180	1.82
	8/10/2015	6.68	2.25	0.184 J	2.42
MW-17 (Filtered)	7/31/2007		0.780	0.100 U	0.930
	11/12/2007		0.480	0.0490 U	0.540
	9/22/2009	6.86	2.09	0.136 U	2.06
	9/14/2010	7.16	2.43	0.257 J	2.31
	8/16/2011	8.30	2.39	0.161	2.30
	8/10/2015	6.91	2.16	0.159 J	2.75
MW-18	8/15/2007		42.0	2.20	43.2
	11/15/2007		40.4	1.61	39.2
	9/21/2009	150	51.1	5.11	51.4
	9/15/2010	126	35.3	0.373	45.0
	8/5/2011	123 J	38.8	1.72	39.6
	10/25/2012	146	48.0	2.56	49.0
	9/24/2013	155	45.4	2.43	50.0
	5/7/2014	102	27.9	1.42	29.1
	8/10/2015	127	43.9	1.86	45.4
	9/22/2016	117			
MW-18 (Filtered)	8/15/2007		42.6	1.66	41.4
	11/15/2007		41.4	2.08	44.3
	9/21/2009	122	50.5	3.07	49.8
	9/15/2010	125	37.0	0.973	40.9
	8/5/2011	125 J	37.7	1.79	36.6
	10/25/2012	149	47.3	2.87	46.8
	9/24/2013	150	46.1	1.91	47.4
	5/7/2014	117	35.7	2.00	35.9
	8/10/2015	134	42.7	1.89	44.2
	9/22/2016	121			
MW-19	8/6/2007		2.22	0.100 U	2.18
	11/15/2007		2.34	0.120	2.31
	9/18/2009	11.9	5.88	0.149 U	5.04
	9/15/2010	19.9	6.33	0.241 U	6.01
	8/4/2011	16.4 J	4.52	0.270	4.77
	10/22/2012	18.9	6.30	0.270	6.36
	9/24/2013	18.6	5.39	0.301	5.89
	5/6/2014	25.8	7.79	0.311	7.64
	8/4/2015	17.4	5.79	0.361	5.43
	9/22/2016	21.2			

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-19 (Filtered)	8/6/2007		2.45	0.0610 U	1.90
	11/15/2007		2.19	0.0900 U	2.27
	9/18/2009	12.3	5.09	0.266 U	4.37
	9/15/2010	19.8	5.41	0.163 U	5.40
	8/4/2011	12.9 J	4.34	0.192	4.27
	10/22/2012	18.8	6.03	0.377	6.03
	9/24/2013	18.3	5.69	0.201	6.21
	5/6/2014	24.7	7.38	0.570	8.20
	8/4/2015	18.1	5.83	0.286	6.34
	9/22/2016	20.3			
MW-20	8/1/2007		3.36	0.220	3.67
	11/13/2007		3.84	0.170	3.86
	9/21/2009	13.1	4.84	0.240	4.64
	9/15/2010	12.2	4.36	0.373	3.99
	8/18/2011	13.5	4.50	0.230	4.27
	10/23/2012	9.57	3.57	0.222	2.99
	9/25/2013	14.4	4.63	0.265	5.14
	5/7/2014	17.1	4.86	0.242	5.09
	8/4/2015	13.0	4.74	0.204	4.39
	8/1/2007		3.64	0.140	3.78
MW-20 (Filtered)	11/13/2007		3.59	0.190	3.50
	9/21/2009	12.2	5.04	0.205 U	4.82
	9/15/2010	13.7	4.08	0.160	3.96
	8/18/2011	13.3	3.89	0.240	3.82
	10/23/2012	9.98	3.13	0.176	3.67
	9/25/2013	14.7	4.51	0.312	4.51
	5/7/2014	16.9	5.52	0.361	5.78
	8/4/2015	12.4	4.08	0.198	3.86
	8/14/2007		1.91	0.0700 U	1.65
	11/13/2007		2.00	0.0200 U	2.34
MW-21	9/22/2009	2.52	1.45	0.0804 U	1.05
	9/15/2010	4.46	1.730	0.694	1.51
	8/18/2011	3.10	0.730	0.058	0.790
	10/25/2012	5.40	1.80	0.0920	1.93
	9/25/2013	1.91	0.497 J	0.03700 UJ	0.420 J
	5/6/2014	3.13	0.926	0.104 J	0.861
	8/10/2015	2.42	0.897	0.0530 U	0.638

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-21 (Filtered)	8/14/2007		1.69	0.0460 U	1.32
	11/13/2007		1.97	0.120	1.75
	9/22/2009	3.52	1.20	0.256	1.22
	9/15/2010	3.57	2.02	0.269	1.49
	8/18/2011	3.20	1.03	0.0370 U	0.930
	10/25/2012	5.20	1.65	0.139	1.91
	9/25/2013	2.11	1.04	-0.0160 U	0.572
	5/6/2014	2.51	0.695	0.106 J	0.724
	8/10/2015	2.49	1.16	0.0700 J	0.790
MW-22	8/8/2007		23.3	1.24	22.7
	11/15/2007		4.85	0.260	4.98
	9/16/2009	76.3	31.7	2.43 U	29.2
	9/17/2010	9.09	3.19	0.229	2.47
	8/5/2011	73.6 J	24.3	1.03	24.8
	10/23/2012	12.9	4.31	0.294	3.99
	8/4/2015	83.2	25.2	1.11	26.1
MW-22 (Filtered)	8/8/2007		21.5	1.00	21.8
	11/15/2007		4.49	0.190	4.10
	9/16/2009	82.0	28.4	2.04	21.8
	9/17/2010	8.72	2.69	0.218 J	2.82
	8/5/2011	65.1 J	21.6	1.05	21.2
	10/23/2012	12.3	4.38	0.251	4.45
	8/4/2015	73.2	24.5	1.37	24.7
MW-23	8/10/2007		2.06	0.0440 U	1.97
	11/15/2007		3.18	0.0900 U	3.50
	9/17/2009	6.91	3.26	0.212 U	2.41
	9/20/2010	7.29	3.89	0.316 J	4.81
	8/4/2011	6.70 J	1.79	0.114	1.73
	10/24/2012	8.72	2.88	0.108	3.07
	9/26/2013	5.58	1.49 J	0.0280 UJ	1.22 J
	5/6/2014	5.55	1.99	0.0660 U	2.15
	8/5/2015	7.38	2.72	0.158 J	2.35
MW-23 (Filtered)	8/10/2007		2.71	0.160	2.34
	11/15/2007		3.79	0.0760 U	3.36
	9/17/2009	5.85	2.71	0.4117	3.30
	9/20/2010	8.51	2.63	0.198 J	2.63
	8/4/2011	6.30 J	1.74	0.136	1.64
	10/24/2012	8.46	2.46	0.162	2.64
	9/26/2013	5.10	1.51	0.116 J	1.68
	5/6/2014	5.18	1.65	0.228	1.65
	8/5/2015	6.12	2.07	0.0940 J	2.15

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-24	8/8/2007		0.280	0.0250 U	0.260
	11/15/2007		2.18	0.130	1.83
	9/17/2009	2.75	9.53	5.99	4.28
	9/21/2010	24.6	8.75	0.895	10.2
	8/4/2011	39.8 J	13.1	0.430	12.6
	10/24/2012	8.02	2.78	0.107	2.75
	8/5/2015	9.65	3.47	0.112 J	3.35
	9/22/2016	5.29			
MW-24 (Filtered)	8/8/2007		0.370	0 U	0.260
	11/15/2007		3.45	0.16	3.37
	9/17/2009	6.92	3.76	0.182 U	3.73
	9/21/2010	29.4	10.2	0.793	10.8
	8/4/2011	42.7 J	12.5	0.510	11.6
	10/24/2012	11.9	4.12	0.178	4.39
	8/5/2015	12.5	4.24	0.357	4.56
	9/22/2016	6.25			
MW-25	9/17/2009	150.5	65.7	5.18	69.72
	9/21/2010	198	52.1	2.88	55.0
	8/12/2011	175	55.7 J	3.22 J	56.4 J
	10/24/2012	166	68.8	3.21	63.4
	9/25/2013	154	51.9	2.82	49.9
	5/7/2014	166	53.0	2.79	53.4
	8/5/2015	108	42.0	2.72	37.2
	9/21/2016	133			
MW-25 (Filtered)	9/17/2009	170.2	64.5	3.65	62.2
	9/21/2010	211	53.5	3.97	55.9
	8/12/2011	171	58.5 J	3.28 J	60.5 J
	10/24/2012	162	53.0	2.25	60.9
	9/25/2013	160	66.4	4.61	60.3
	5/7/2014	170	50.3	2.63	52.3
	8/5/2015	111	44.9	2.41	45.2
	9/21/2016	144			

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-26	8/10/2007		65.8	2.65	65.6
	11/16/2007		80.0	5.30	77.9
	9/17/2009	148	61.9	4.04	62.03
	9/21/2010	162	46.6	2.08	49.3
	8/10/2011	107	34.7	1.97	35.0
	2/1/2012	145 J	39.7 J	1.62	38.3 J
	5/4/2012	145	52.7	2.36	54.4
	8/6/2012	155	49.0	2.48	47.6
	10/24/2012	243	77.3	3.86	76.9
	9/25/2013	4.95	10.3	0.150 J	2.20
	5/7/2014	219	70.4	3.94	72.7
	8/4/2015	255	93.2	6.29	93.8
	9/21/2016	209			
MW-26 (Filtered)	8/9/2007		60.0	2.79	58.7
	11/16/2007		82.0	4.17	78.0
	9/17/2009	144	66.4	2.94	65.3
	9/21/2010	160	43.7	2.22	44.3
	8/10/2011	94.6	32.1	1.62	32.7
	2/1/2012	152 J	48.4 J	2.10	48.4 J
	5/4/2012	139	54.5	2.62	55.7
	8/6/2012	147	46.6	1.87	46.3
	10/24/2012	260	69.8	3.66	70.5
	9/25/2013	4.18	8.82	0.363	2.09
	5/7/2014	223	62.8	2.93	63.0
	8/4/2015	248	76.8	3.54	82.1
	9/21/2016	209			
MW-600D	8/17/2007		1.17	0.0800 U	0.690
	11/13/2007		0.660	0 U	0.660
	9/22/2009	2.40	0.908	0.171 U	0.711
	9/15/2010	2.25	1.13	0.548	0.817
	8/22/2011	2.40	0.920	0.0320 U	0.780
	10/22/2012	1.41	0.715	0.0400	0.616
	9/24/2013	2.12	0.946	0.0570 J	0.588
	5/6/2014	2.26	1.17	0.0500 U	0.714
	8/10/2015	2.11	0.756	-0.0120 U	0.740
	9/21/2016	1.92			

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-600D (Filtered)	8/17/2007		3.78	0.170	3.30
	11/13/2007		0.860	0.0430 U	0.860
	9/22/2009	1.92	1.28	0.0349 U	0.543
	9/15/2010	2.56	1.55	0.103 U	0.801
	8/22/2011	2.50	1.28	0.0500 U	0.930
	10/22/2012	1.54	0.761	0.00600 U	0.635
	9/24/2013	1.82	0.693	0.0280 J	0.537
	5/6/2014	2.08	1.04	0.193 J	0.790
	8/10/2015	2.10	0.880	-0.0150 U	0.901
	9/21/2016	1.86			
MW-600S	9/22/2009	2.61	1.37	0 U	1.40
	8/10/2015	2.34	1.31	0.0220 U	0.725
MW-600S (Filtered)	9/22/2009	1.49	0.913	0.0751 U	0.727
	8/10/2015	2.27	1.36	0.0460 U	0.683
MW-601D	8/13/2007		5.83	0.400	5.23
	11/13/2007		7.10	0.450	7.00
	9/21/2009	2.17	0.916	0.173 U	0.840
	9/15/2010	7.81	5.52	0.486	3.10
	8/18/2011	9.60	2.54	0.104	2.66
	10/23/2012	7.30	2.66	0.0770	2.36
	8/6/2015	4.09	1.53	0.154	1.27
MW-601D (Filtered)	8/15/2007		6.30	0.240	6.5
	11/13/2007		8.00	0.480	8.4
	9/21/2009	3.43	1.53	0.121 U	1.17
	9/15/2010	9.78	3.94	0.677	2.79
	8/18/2011	10.6	2.56	0.130	2.61
	10/23/2012	8.17	2.82	0.244	2.83
	8/6/2015	4.03	1.12	0.137	1.34
MW-602D	8/15/2007		36.0	1.77	37.5
	11/15/2007		25.6	1.39	26.0
	9/21/2009	150	53.7	3.49	47.4
	9/15/2010	109	37.3	0.828	37.3
	8/11/2011	113	36.5	1.84	36.0
	10/23/2012	110	37.2	1.95	35.7
	9/25/2013	162	47.4	3.11	49.5
	5/6/2014	115	37.9	2.86	39.1
	8/5/2015	3.48	4.56	0.168 J	1.64
	9/21/2016	106			

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-602D (Filtered)	8/15/2007		39.1	2.15	39.0
	11/15/2007		27.6	1.77	29.8
	9/21/2009	133	47.7	3.85	47.0
	9/15/2010	117	34.3	0.849	37.7
	8/11/2011	112	36.9	2.08	36.8
	10/23/2012	110	36.3	1.70	36.5
	9/25/2013	153	43.8	2.76	46.4
	5/6/2014	120	33.7	2.18	35.2
	8/5/2015	3.41	4.09	0 U	1.09
	9/21/2016	103			
MW-603D	8/14/2007		4.06	0.200	3.84
	11/14/2007		5.06	0.100	4.28
	9/17/2009	4.84	2.65	0.492	2.12
	9/15/2010	4.86	2.89	0.199	2.11
	8/5/2011	11.1 J	2.86	0.107	2.76
	10/23/2012	6.58	2.51	0.115	2.23
	9/26/2013	7.68	2.25	0.152 J	2.37
	5/6/2014	8.08	2.23	0.237 J	2.37
	8/4/2015	7.55	2.17	0.117 J	2.29
	9/21/2016	5.11			
MW-603D (Filtered)	8/17/2007		1.15	0.0200 U	0.860
	11/14/2007		3.92	0.0660 U	3.42
	9/17/2009	4.88	2.47	0.290	2.33
	9/15/2010	6.40	2.79	0.261	2.74
	8/5/2011	8.20 J	3.01	0.196	2.97
	10/23/2012	6.71	2.64	0.0900	2.15
	9/26/2013	7.44	2.56	0.121 J	2.38
	5/6/2014	7.95	3.00	0.0450 U	2.79
	8/4/2015	7.32	2.11	0.270	1.93
	9/21/2016	5.07			

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-604D	8/15/2007		23.5	0.960	23.7
	11/15/2007		39.0	1.92	38.2
	9/18/2009	117	39.3	3.10	39.3
	9/15/2010	140	44.	0.778	41.2
	8/10/2011	103	37.1	1.79	37.0
	2/2/2012	76.7 J	23.1	1.05	21.9
	5/4/2012	86.5	29.2	1.28	28.8
	8/6/2012	108	35.1	1.50	35.2
	10/23/2012	112	36.1	1.65	35.4
	9/24/2013	97.2	28.4	1.27	30.6
	5/7/2014	63.6	20.4	0.699	20.5
	8/4/2015	123	34.7	1.88	42.4
	9/21/2016	101			
MW-604D (Filtered)	8/13/2007		22.8	1.55	24.7
	11/15/2007		43.2	1.81	42.3
	9/18/2009	104	43.5	3.06	43.4
	9/15/2010	121	36.2	0.617	37.2
	8/10/2011	101	31.4	1.52	30.4
	2/2/2012	76.4 J	22.0	1.28	23.1
	5/4/2012	76.4	31.0	1.52	29.9
	8/6/2012	105	34.5	1.57	33.5
	10/23/2012	111	32.2	1.71	32.6
	9/24/2013	97.9	31.3	1.55	29.9
	5/7/2014	67.9	19.9	0.519	19.6
	8/4/2015	111	35.9	2.37	40.9
	9/21/2016	102 J			
MW-605D	8/16/2007		67.0	4.90	63.0
	11/16/2007		66.9	3.23	68.2
	9/18/2009	274	100.6	5.45	100.7
	9/21/2010	248	74.1	3.09	74.8
	8/10/2011	214	67.5	3.43	65.8
	2/1/2012	299 J	87.3	3.59	91.0
	5/5/2012	265	86.2	4.09	87.8
	8/6/2012	259	85.8	3.75	82.6
	10/24/2012	270	79.7	3.59	79.1
	9/25/2013	247	88.7	4.50	84.3
	5/6/2014	292	87.4	4.67	83.7
	8/5/2015	273	92.2	5.17	95.2
	9/21/2016	273			

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-605D (Filtered)	8/13/2007		68.0	3.60	64.0
	11/16/2007		70.0	3.40	64.2
	9/18/2009	238	97.3	12.1	88.77
	9/21/2010	254	81.8	8.28	84.0
	8/10/2011	209	68.6 J	3.38 J	67.1 J
	2/1/2012	302 J	92.9	3.99	91.2
	5/5/2012	256	90.2	4.37	89.6
	8/6/2012	251	78.7	3.67	77.5
	10/24/2012	266	85.2	4.75	84.0
	9/25/2013	255	74.6	4.21	74.5
	5/6/2014	267	78.6	5.23	80.4
	8/5/2015	272	94.7	4.68	94.0
	9/21/2016	271			
MW-606D	9/23/2009	7.24	2.86	0.268	3.03
	9/14/2010	6.91	1.76	0.180 U	1.92
	8/16/2011	7.50	2.60 J	0.19 0J	2.91 J
MW-606D (Filtered)	9/23/2009	5.67	2.62	0.213	3.10
	9/14/2010	6.09	1.58	0.118 U	1.69
	8/16/2011	7.40	2.88 J	0.0680 J	2.37 J
MW-606DR	11/16/2007		2.66	0.160	2.90
	9/23/2009	9.29	3.92	0.795 U	3.66
	9/14/2010	12.8	5.77	0.824	4.56
	8/15/2011	12.8	3.37	0.230	3.73
	8/10/2015	6.20	2.38	0.220 J	2.02
MW-606DR (Filtered)	11/16/2007		2.51	0.200	2.40
	9/23/2009	15.0	5.67	0.433	5.45
	9/14/2010	14.7	4.95	0.396	4.76
	8/15/2011	12.4	4.2 J	0.170 J	4.54 J
	8/10/2015	7.61	2.45	0.0670 J	2.61
MW-607D	8/15/2007		0.0330 U	-0.00800 U	-0.0100 U
	11/13/2007		0.0230 U	-0.00500 U	0.0640
	9/23/2009	14.9	5.50	0.270	4.92
	9/14/2010	10.0	3.36	0.178 U	3.71
	8/19/2011	19.5	5.35	0.240	4.99
	10/22/2012	13.9	4.86	0.133	5.05
	9/25/2013	13.4	4.29	0.263	4.40
	5/6/2014	15.8	5.01	0.205	4.25
	8/6/2015	11.2	3.19	0.201 J	4.45
	9/21/2016	6.35			

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-607D (Filtered)	8/15/2007		0.0640 U	0.0190 U	0.0270 U
	11/13/2007		0.150	-0.00900 U	0.00900 U
	9/23/2009	17.7	6.07	0.456	6.521
	9/14/2010	10.9	4.95	0 U	3.01
	8/19/2011	12.3	3.88	0.119	4.04
	10/22/2012	12.2	3.62	0.316	4.74
	9/25/2013	13.0	3.63	0.313	3.61
	5/6/2014	14.7	4.51	0.217	4.77
	8/6/2015	12.7	3.98	0.215 J	4.45
	9/21/2016	5.97			
MW-701DD	8/19/2011	1.40	0.890	0.0410	0.390
	8/4/2015	0.633	0.158 J	-0.00900 U	0.233
	9/22/2016	0.946 J			
MW-701DD (Filtered)	8/19/2011	1.50	0.770	0.0360	0.460
	8/4/2015	1.68	0.228 J	0.0660 J	0.228
	9/22/2016	1.30 J			
MW-702DD	8/11/2011	4.50	6.65	0.103	1.84
	8/5/2015	144	52.2	2.74	51.8
	9/21/2016	2.70			
MW-702DD (Filtered)	8/11/2011	5.80	4.94	0.123	1.47
	8/5/2015	132	40.0	1.52	39.0
	9/21/2016	2.52			
MW-703DD	8/19/2011	0.280	0.0970	0.0150 U	0.070
	8/6/2015	0.248 J	0.148 J	0.0780 J	0.159 J
MW-703DD (Filtered)	8/19/2011	1.00 U	0.0230 U	0 U	0.0280 U
	8/6/2015	0.254 J	0.132 J	0.0810 J	0.0260 U
MW-704DD	8/10/2011	23.5	9.35	0.380	7.31
	2/2/2012	81.3 J	29.8	1.20	23.8
	5/5/2012	67.0	25.3	0.990	20.4
	8/6/2012	102	32.7	0.960	26.1
	10/22/2012	72.4	26.0	0.950	21.5
	8/5/2015	27.4	11.2	0.408	8.73
	9/21/2016	37.3			
MW-704DD (Filtered)	8/10/2011	26.3	10.8	0.460	8.36
	2/2/2012	80.2 J	26.3	1.15	22.6
	5/5/2012	65.8	27.8	1.15	21.1
	8/6/2012	68.1	27.6	0.810	22.3
	10/22/2012	73.4	27.9	1.20	22.6
	8/5/2015	28.8	12.7	0.659	10.2
	9/21/2016	37.3			

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-705D	8/9/2011	0.890 J	0.212	0.0180 U	0.185
	8/6/2015	1.60	1.61	0.0380 U	0.494
MW-705D (Filtered)	8/9/2011	2.80 J	0.500	0.0220 U	0.470
	8/6/2015	1.17	1.46	0.0790 J	0.284
MW-705DD	8/9/2011	1.70	0.510	0.0290	0.291
	8/6/2015	0.918	0.243	-0.009 BU	0.327
MW-705DD (Filtered)	8/9/2011	0.370	0.253	0 U	0.189
	8/6/2015	0.889	0.458	0.0190 BU	0.270
MW-706DD	8/15/2011	1.80	0.980	0.0290 U	0.480
	8/4/2015	1.05	0.758	0.0880	0.365
MW-706DD (Filtered)	8/15/2011	1.70	0.950	0.0120 U	0.420
	8/4/2015	1.20	0.782	0.182	0.232
MW-707DD	8/18/2011	34.5			
	2/1/2012	13.6 J	7.76 J	0.140	5.14
	5/4/2012	10.8	12.8	0.280	3.54
	8/7/2012	11.2	14.8	0.108	3.55
	10/23/2012	9.40	14.7	0.240	3.32
	8/4/2015	7.01	7.01	0.161 J	1.85
MW-707DD (Filtered)	8/18/2011	33.9			
	2/1/2012	14.1 J	14.5 J	0.230	4.32
	5/4/2012	10.6	12.30	0.180	3.51
	8/7/2012	8.30	9.00	0.129	2.73
	10/23/2012	8.40	12.2	0.128	2.49
	8/4/2015	1.39	6.66	0.0540 J	1.68
MW-708DD	8/11/2011	22.4	7.18	0.310	7.03
	1/31/2012	24.7 J	7.10	0.290	7.20
	5/5/2012	18.0	6.97	0.200	6.72
	8/4/2012	20.2	7.04	0.400	7.12
	10/22/2012	20.0	6.59	0.290	5.72
	9/25/2013	23.2	7.22	0.259	7.02
	5/7/2014	15.2	4.74	0.140 J	4.60
	8/6/2015	20.4	6.37	0.409 B	7.19
MW-708DD (Filtered)	8/11/2011	23.0	7.19	0.300	6.90
	1/31/2012	22.3 J	7.99	0.490	7.76
	5/5/2012	18.3	7.37	0.260	7.35
	8/4/2012	19.3	7.26	0.270	6.68
	10/22/2012	20.1	7.02	0.350	6.41
	9/25/2013	20.7	7.64	0.412	7.17
	5/7/2014	16.3	4.87 J	0.269 J	4.71 J
	8/6/2015	20.1	6.96	0.380 B	7.24

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-709DD	8/10/2011	52.8	16.8	0.710	16.0
	2/2/2012	88.3 J	25.5	1.48	26.3
	5/4/2012	80.0	27.7	1.05	28.7
	8/7/2012	82.7	28.4	1.83	28.6
	10/23/2012	85.9	27.6	1.41	27.8
	9/24/2013	33.9	13.1	0.378	12.3
	5/7/2014	74.8	23.6	1.32	24.4
	8/4/2015	72.7	22.9	0.514	23.8
	9/21/2016	84.7			
MW-709DD (Filtered)	8/10/2011	55.4	18.5	0.700	17.4
	2/2/2012	88.5 J	27.5	1.01	25.5
	5/4/2012	80.4	27.2	1.23	25.9
	8/7/2012	84.3	28.7	1.66	29.4
	10/23/2012	83.8	28.2	1.26	27.1
	9/24/2013	68.5	21.0	1.15	23.7
	5/7/2014	81.2	25.1	1.18	26.5
	8/4/2015	75.2	27.5	1.20	23.3
	9/21/2016	82.8			
MW-710D	8/15/2011	67.5	19.1 J	1.02	19.9
	1/30/2012	59.1 J	16.6	0.810	16.8
	5/4/2012	52.5	18.3	0.990	17.6
	8/7/2012	53.8	18.8	1.12	18.2
	10/22/2012	66.0	19.9	1.13	19.7
	9/26/2013	60.3	17.9	1.26	16.9
	5/6/2014	44.8	14.0	0.880	11.7
	8/6/2015	64.2	21.9	1.08	21.3
	9/21/2016	60.9			
MW-710D (Filtered)	8/15/2011	66.1	24.0 J	1.20	23.8
	1/30/2012	57.8 J	17.3	0.900	17.5
	5/4/2012	49.5	18.7	0.910	19.4
	8/7/2012	52.3	19.9	1.08	20.0
	10/22/2012	66.8	20.3	1.07	20.1
	9/26/2013	59.1	18.6	1.200	20.9
	5/6/2014	44.5	12.5	0.693	13.0
	8/6/2015	64.0	22.0	1.10	21.1
	9/21/2016	58.8			

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-710DD	8/18/2011	60.8	18.6	1.02	19.1
	1/30/2012	71.4 J	19.6	0.930	21.3
	5/4/2012	59.1	21.7	0.960	22.1
	8/7/2012	29.6	8.79	0.590	9.60
	10/22/2012	28.6	8.85	0.360	8.82
	8/6/2015	52.3	18.2	1.26	18.0
	9/21/2016	60.0			
MW-710DD (Filtered)	8/18/2011	67.0	21.0	1.38	21.3
	1/30/2012	71.9 J	20.0	1.17	20.4
	5/4/2012	56.6	19.0	1.00	19.1
	8/7/2012	28.9	9.28	0.430	9.50
	10/22/2012	28.3	9.34	0.470	9.06
	8/6/2015	46.5	15.2	0.818	14.1
	9/21/2016	70.2			
MW-711D	8/9/2011	9.00	2.78	0.0920	2.68
	10/23/2012	4.02	1.54	0.125	1.36
	9/26/2013	4.88	1.30	0.0330 U	1.49
	5/7/2014	4.95	1.38	0.181 J	1.27
	8/4/2015	5.24	2.16	0.0680 J	1.60
	9/21/2016	2.44			
MW-711D (Filtered)	8/9/2011	7.40	2.70	0.160	2.30
	10/23/2012	4.09	0.984	0.0790	1.05
	9/26/2013	4.88	1.79	0.0730 J	1.46
	5/7/2014	5.46	1.82	0.0570 U	2.04
	8/4/2015	5.42	2.24	0.096	2.26
	9/21/2016	2.94			
MW-711DD	8/15/2011	1.70 J	0.800 J	-0.0070 UJ	0.710 J
	10/23/2012	1.49	1.02	0.0390	1.03
	9/26/2013	3.88	1.53	0.110	1.20
	5/7/2014	1.72 J	0.932	0.0310 J	0.913
	8/4/2015	4.29	1.95	0.130	1.89
MW-711DD (Filtered)	8/15/2011	2.90 J	1.29	0.110 U	0.550
	10/23/2012	1.63	1.41	-0.0200 U	0.830
	9/26/2013	1.24	0.462	0.0490 U	0.481
	5/7/2014	0.955	0.216 J	0.0350 J	0.198
	8/4/2015	4.46	1.73	0.0840 J	1.48
MW-712DD	8/18/2011	38.7	13.2	0.590	12.7
	10/22/2012	28.3	9.92	0.590	10.3
	9/24/2013	13.5	4.54	0.286	4.37
	5/6/2014	10.3	3.60	0.206 J	2.99
	8/4/2015	31.4	10.4	0.568	10.4
	9/21/2016	41.0			

Location ID	Log Date	Total Uranium	Uranium-234	Uranium - 235	Uranium - 238
Units		µg/L	pCi/L	pCi/L	pCi/L
MW-712DD (Filtered)	8/18/2011	38.8	14.0	0.630	12.4
	10/22/2012	30.8	9.97	0.577	10.2
	9/24/2013	14.2	4.76 J	0.346 J	4.48 J
	5/6/2014	11.1	2.87 J	0.252 J	3.42 J
	8/4/2015	31.7	11.50	0.320	10.8
	9/21/2016	32.1			
MW-713D	8/4/2011	5.1 J	2.62	0.0610	1.26
	1/31/2012	1.00 J	0.320	0.100 U	0.230
	5/4/2012	0.330 J	0.0810	0.100 U	0.122
	8/4/2012	1.00 U	0.127	0.100 U	0.0930
	10/23/2012	1.00 U	0.0660	0.100 U	0.0810
	9/25/2013	0.309	0.0560 U	0.0300 U	-0.0730 U
	5/6/2014	0.168 J	0.0820 J	0.0520 U	0.153 J
	8/6/2015	0.261 J	0.185	0 U	0.113 J
	9/22/2016	0.052 U			
MW-713D (Filtered)	8/4/2011	4.70 J	2.67	0.0760	1.40
	1/31/2012	0.250 J	0.190	0.100 U	0.0710
	5/4/2012	1.00 U	0.103	0.100 U	0.0750
	8/4/2012	1.00 U	0.133	0.100 U	0.100 U
	10/23/2012	1.00 U	0.100 U	0.100 U	0.0200
	9/25/2013	0.0980 J	0.196	-0.00900 U	0.107 J
	5/6/2014	0.269 J	0.112 J	0.0290 U	0.0910 J
	8/6/2015	0.284 J	0.189	0.0210 U	0.0320 U
	9/22/2016	0.056 U			

Notes:

- Analysis for uranium, Method ASTM D5174 Modified.
- Analysis for isotopic uranium, Method EML U-02 Modified.
- The shaded rows identify 2016 data.
- The 2016 sampling event supports that an anomaly did occur in 2015 for shallow well MW-602D and deep well MW-702DD. The 2016 data is consistent with historical data before 2015.

pCi/L: Picocuries per liter

µg/L: micrograms per liter

U: Nondetect (Results are below the Minimum Detectable Activity/Minimum Detectable Concentration.)

J: Estimated