GROUNDWATER MONITORING DATA RELEASE
FALL 2024 SAMPLING EVENT
LUCKEY FUSRAP SITE

U.S. Army Corps of Engineers
Buffalo District

Executive Summary

Groundwater monitoring occurred at the Luckey Formerly Utilized Sites Remedial Action Program (FUSRAP) Site in Luckey, Ohio from September 16 to 18, 2024. The purpose was to obtain additional information and groundwater data for Atomic Energy Commission (AEC) related Constituents of Concern (COCs) prior to implementing monitored natural attenuation of groundwater, as documented in the February 2008 *Record of Decision* (ROD*), Groundwater Operable Unit, Luckey Site*. A total of 16 groundwater monitoring wells, two former production wells, and one residential well were sampled for AEC related COCs including, beryllium, lead, and total uranium. COCs and associated U.S. Environmental Protection Agency (USEPA) maximum contaminant levels (MCLs) or action levels for protection of drinking water include beryllium (4 micrograms per liter [µg/L]), lead (15 µg/L), and total uranium (30 µg/L).

Samples collected in September 2024 from groundwater monitoring wells MW-01(I), MW-02(S), MW-22R(I), and MW-25(I) had concentrations above the USEPA MCL for beryllium. These wells are located on-site and are not used for water supply. No other samples contained COCs at concentrations exceeding the MCLs. The residential well did not contain COCs at concentrations above the MCLs or the action level.

Groundwater sample collection will occur again during the next scheduled groundwater monitoring event, which takes place in spring of 2025.

Formerly Utilized Sites Remedial Action Program (FUSRAP)

FUSRAP was initiated in 1974 to identify, investigate and, if necessary, clean up or control sites throughout the United States that were contaminated by Manhattan Engineer District or early Atomic Energy Commission (AEC) activities. When implementing FUSRAP, the United States Army Corps of Engineers follows the investigation and response framework of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan.

Site Description

The Luckey Site is located at 21200 Luckey Road near the Village of Luckey, Ohio, 22 miles southeast of Toledo. It is bordered by Luckey Road to the west, Gilbert Road to the south, abandoned railroad tracks to the east, and privately-owned farm fields to the north. The site is zoned industrial but is currently not being used. It covers approximately 40 acres and includes open areas as well as unused buildings and concrete slabs where several buildings were removed. Several of the open areas were previously used to store byproducts from beryllium ore processing.

Site History

In 1942 the federal government built a magnesium processing facility at the site, which was operated by National Lead for the federal government from 1942 to 1945. In 1949 Brush Beryllium Company (later Brush Wellman) began production of beryllium oxide, beryllium hydroxide, and beryllium pebbles at the site under contract to the AEC. Brush Beryllium Company operated the facility for the AEC until 1958 when beryllium production ceased. In 1959, AEC contracted with Brush Beryllium Company to close the facility. Closing operations consisted of constructing a two-acre diked disposal area in the northeast corner of the property where sludge from three on-site lagoons was placed. The General Services Administration sold the facility in 1961 and the site has had various owners since then.

Purpose

Groundwater monitoring is being performed to obtain additional information and groundwater data for AEC related Constituents of Concern (COCs) prior to implementing monitored natural attenuation of groundwater, as documented in the February 2008 *Record of Decision* (ROD), *Groundwater Operable Unit, Luckey Site.*

Hydrogeologic conditions and the nature and extent of groundwater contamination at the site are presented in the ROD. Groundwater is present in three primary water-bearing zones: shallow, intermediate, and deep bedrock. It is present under unconfined and semi-confined conditions. The horizontal flow of groundwater within these zones in the vicinity of the site is northerly and northwesterly. COCs and associated U.S. Environmental Protection Agency (USEPA) maximum contaminant levels (MCLs) or action levels for protection of drinking water include beryllium (4 micrograms per liter [µg/L]), lead (15 µg/L), and total uranium (30 µg/L).

The current groundwater monitoring program (well number and locations) varies from the 2008 ROD due to the decommissioning of site wells in conjunction with a soil remediation program. The ROD-based monitoring program will be reestablished once the soils remedy is completed.

Results and Interpretations

From September 16 to 18, 2024, 16 groundwater monitoring wells (illustrated on Figure 1), two former production wells (PW-(E) and PW-(W)), and one residential well (GW0002) were sampled for beryllium, lead, and total uranium. Groundwater surface elevations measured during this event are presented in Table 1.

Analytical results are presented in Table 2. Samples collected in September 2024 with concentrations above the USEPA MCLs are listed below and highlighted in Figure 1 and Table 2.

- Beryllium [MW-01(I), MW-02(S), MW-22R(I), and MW-25(I)]

The exceedances from wells MW-01(I), MW-02(S), and MW-22R(I) are consistent with previous results. The beryllium groundwater result from the field filtered sample at monitoring well MW-25(I) was 12.9 µg/L, which is approximately 40 times greater than historical average and 25 times greater than the raw (unfiltered) groundwater sample concentration. It is unlikely that the anomalous result is representative of true site conditions, since the filtered and unfiltered results are typically similar at well MW-25(I), and the September 2024 results do not compare to historical field filtered beryllium results at the well. Thus, the beryllium groundwater result from the field filtered sample at monitoring well MW-25(I) is considered unusable for any trending of the data. Groundwater sample collection from well MW-25(I) will be tested again during the next groundwater monitoring event.

The wells with beryllium exceedances in September 2024 are located on-site and are not used for water supply. Residential well GW0002 did not contain COCs at concentrations above the MCLs or the action level.

Beryllium

Plots of beryllium concentrations against time are presented on Figure 2 (unfiltered samples) and Figure 3 (filtered samples) for monitoring wells MW-01(I), MW-02(S), MW-22R(I), and for residential well GW0002. The Mann-Kendall test was used to determine if the data exhibit statistically significant upward trends or downward trends.[1] Results are summarized in Table 3. The following conclusions are made from the data plots and trend analysis:

- A downward trend is observed for wells MW-02(S) (filtered and unfiltered samples).
- No trends are observed for wells MW-01(I) (filtered and unfiltered samples) and MW-22R(I) (filtered and unfiltered samples).

[1] Statistical significance was evaluated at the 90 percent level of confidence.

- There are no discernible trends overtime at residential well GW0002 (filtered and unfiltered samples). Beryllium in groundwater has been consistently below the MCL at residential well GW0002 overtime.

Lead

Plots of lead concentrations against time are presented on Figure 4 (unfiltered samples) and Figure 5 (filtered samples) for wells MW-21(I), GW0002, and PW(E). Trend analysis results are summarized in Table 3. The following conclusions are made from the data plots and trend analysis:

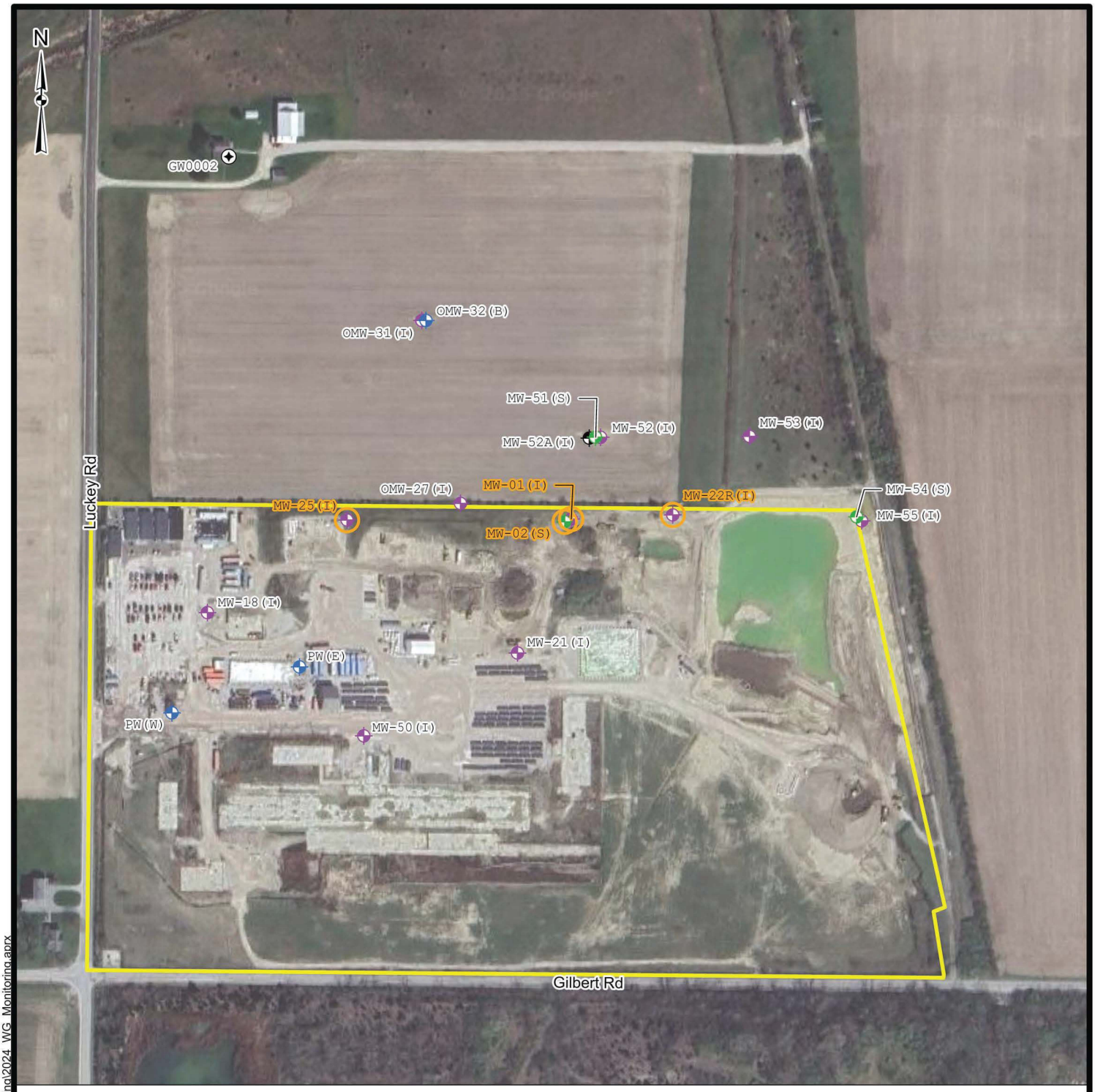
- A downward trend is observed for wells MW-21(I) (filtered and unfiltered samples) and PW(E) (unfiltered sample).
- No trends are observed for wells GW0002 (filtered and unfiltered samples) and PW(E) (filtered sample). Lead in groundwater has consistently been below the MCL at the residential well GW0002 overtime.

Total Uranium

Plots of total uranium concentrations against time are presented on Figure 6 (unfiltered samples) and Figure 7 (filtered samples) for wells MW-21(I) and GW0002. Trend analysis results are summarized in Table 3. The following conclusions are made from the data plots and trend analysis:

- A downward trend is observed for well MW-21(I) (filtered and unfiltered samples).
- No trend is observed for well GW0002 (filtered and unfiltered samples). Total uranium in groundwater has been consistently below the MCL at residential well GW0002 overtime.

FIGURES



Legend

- At Least One Compound Exceeds USEPA MCLs
- Hybrid Monitoring Well (Installed 2012)
- Residential Well
- Shallow Monitoring Well
- Intermediate Monitoring Well
- Deep Monitoring Well
- Site Boundary

Note: The exceedance at MW-25 (I) is considered anomalous.

0 150 300 600 Feet

US Army Corps of Engineers
Buffalo District

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NY

MONITORING PROGRAM GROUNDWATER SAMPLE LOCATIONS (SEPTEMBER 2024)

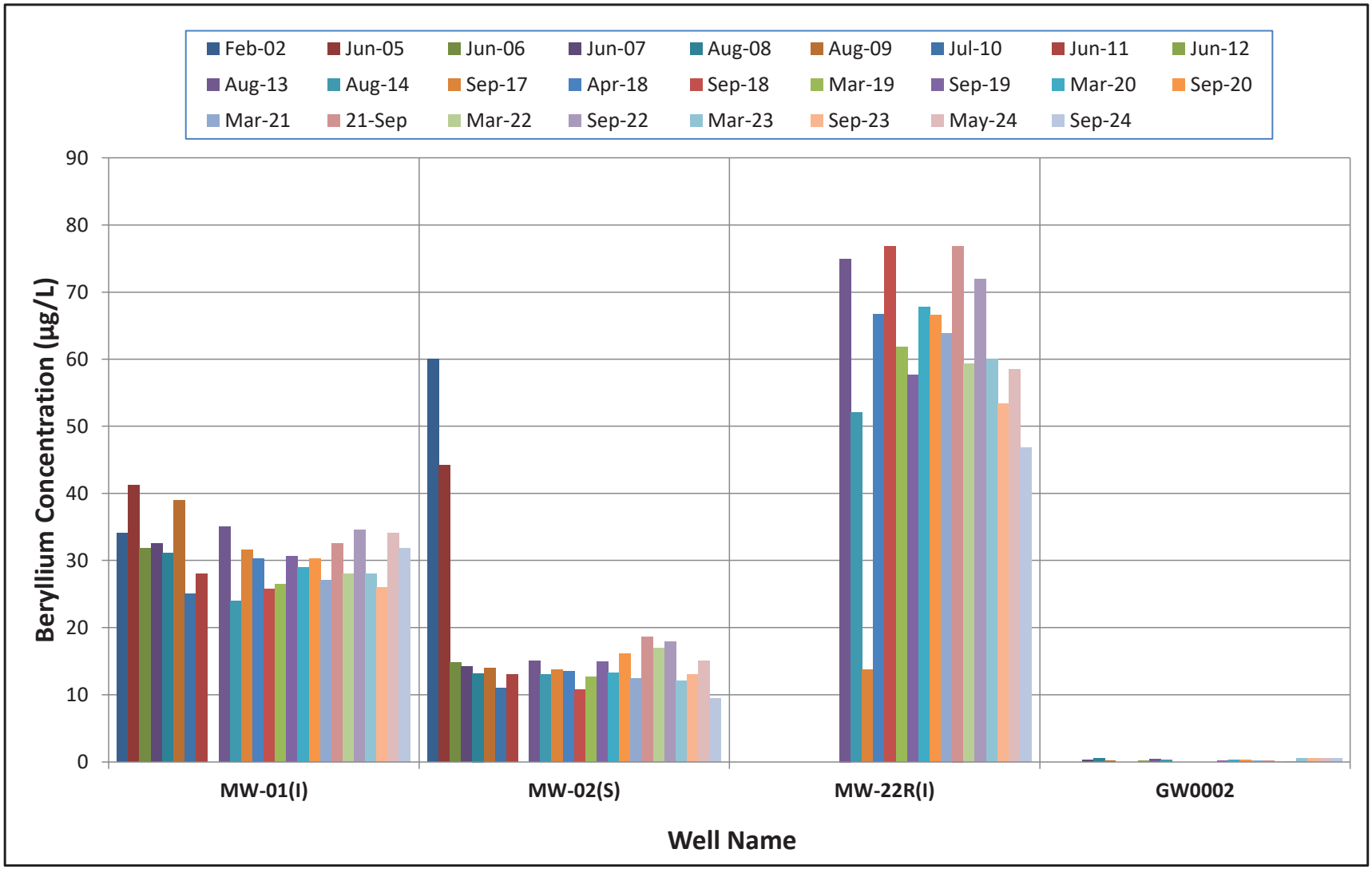
Project: 2024_WG_Monitoring.aprx
Layout Name: Fall_2024_WGSample
Drawn By: H5TDESPM
Date Saved: 04/10/2025
Time Saved: 0945

LUCKEY FUSRAP SITE
LUCKEY, OHIO

FIGURE 1

Document Path: K:\LUCKEY\GIS\ArcGISPro\2024\2024_WG_Monitoring\2024_WG_Monitoring.aprx

Figure 2: Beryllium Concentrations in Unfiltered Groundwater

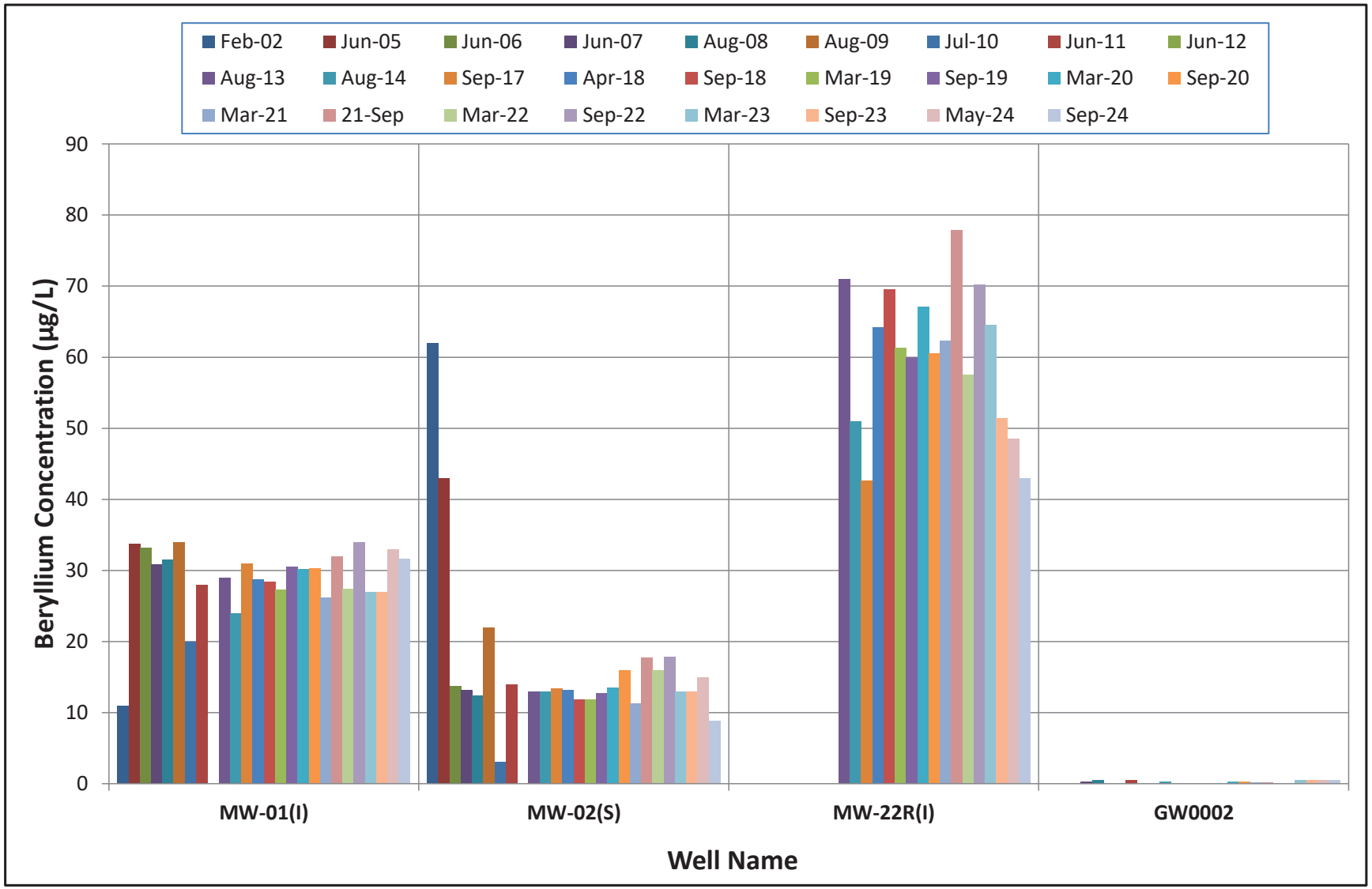


Legend

(S) - shallow monitoring well
(I) - intermediate monitoring well
USEPA Beryllium MCL - 4 µg/L

GW0002 - residential well
µg/L - micrograms per liter

Figure 3: Beryllium Concentrations in Filtered Groundwater

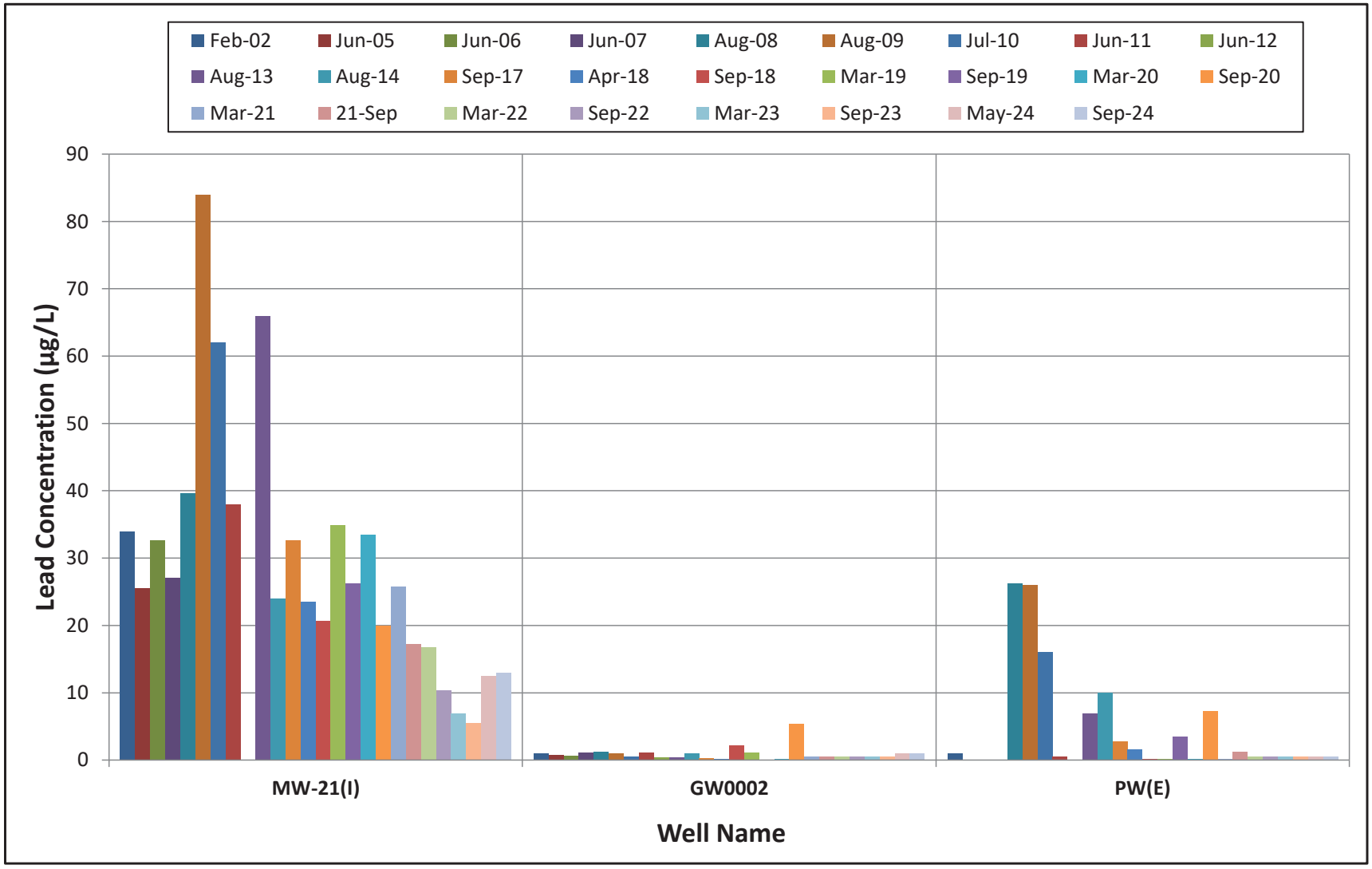


Legend

(S) - shallow monitoring well
(I) - intermediate monitoring well
USEPA Beryllium MCL - 4 µg/L

GW0002 - residential well
µg/L - micrograms per liter

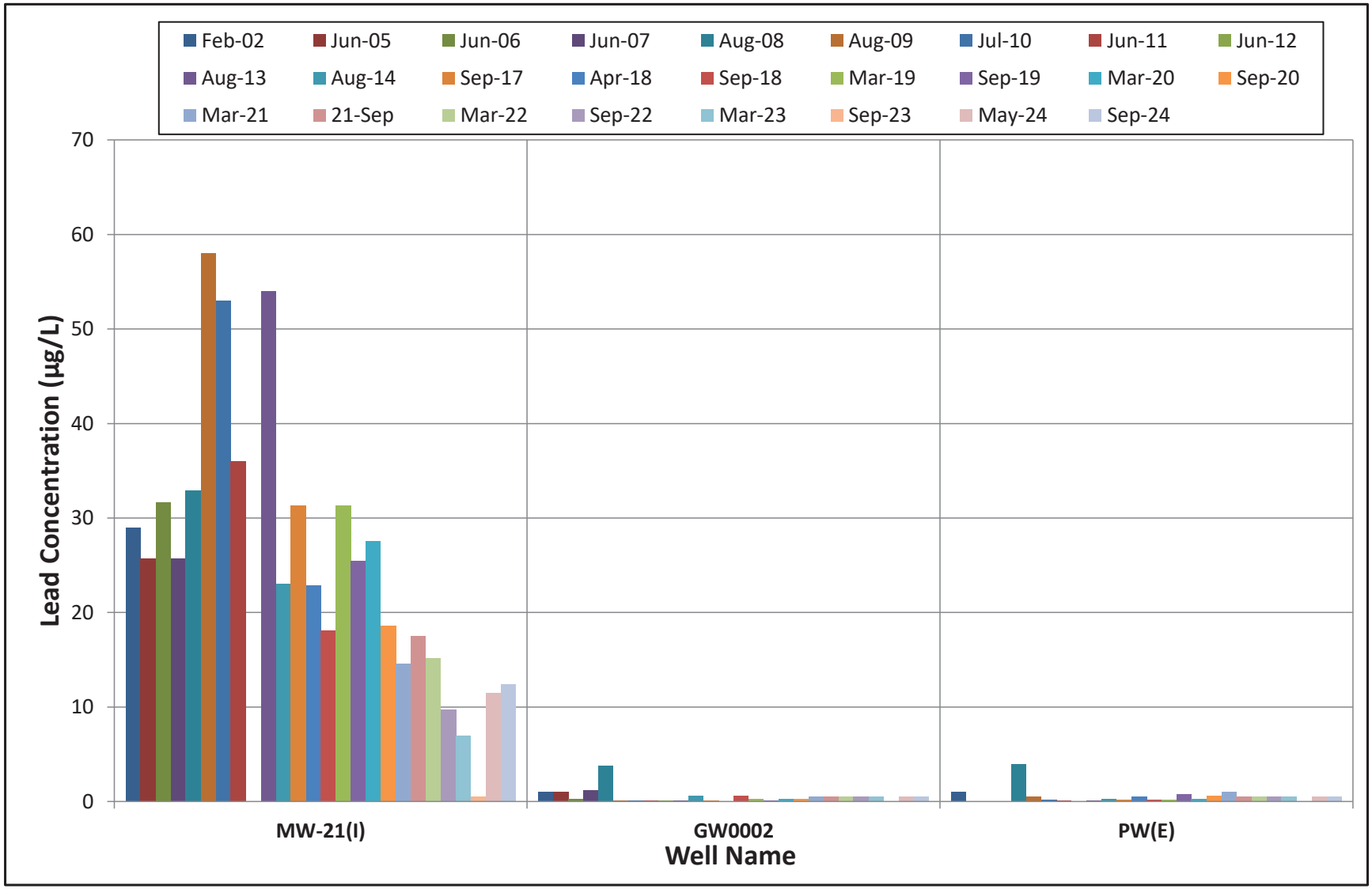
Figure 4: Lead Concentrations in Unfiltered Groundwater



Legend

(I) - intermediate monitoring well
GW0002 - residential well
USEPA Lead MCL - 15 µg/L
PW(E) - former water supply well for the Luckey Site (east)
µg/L - micrograms per liter

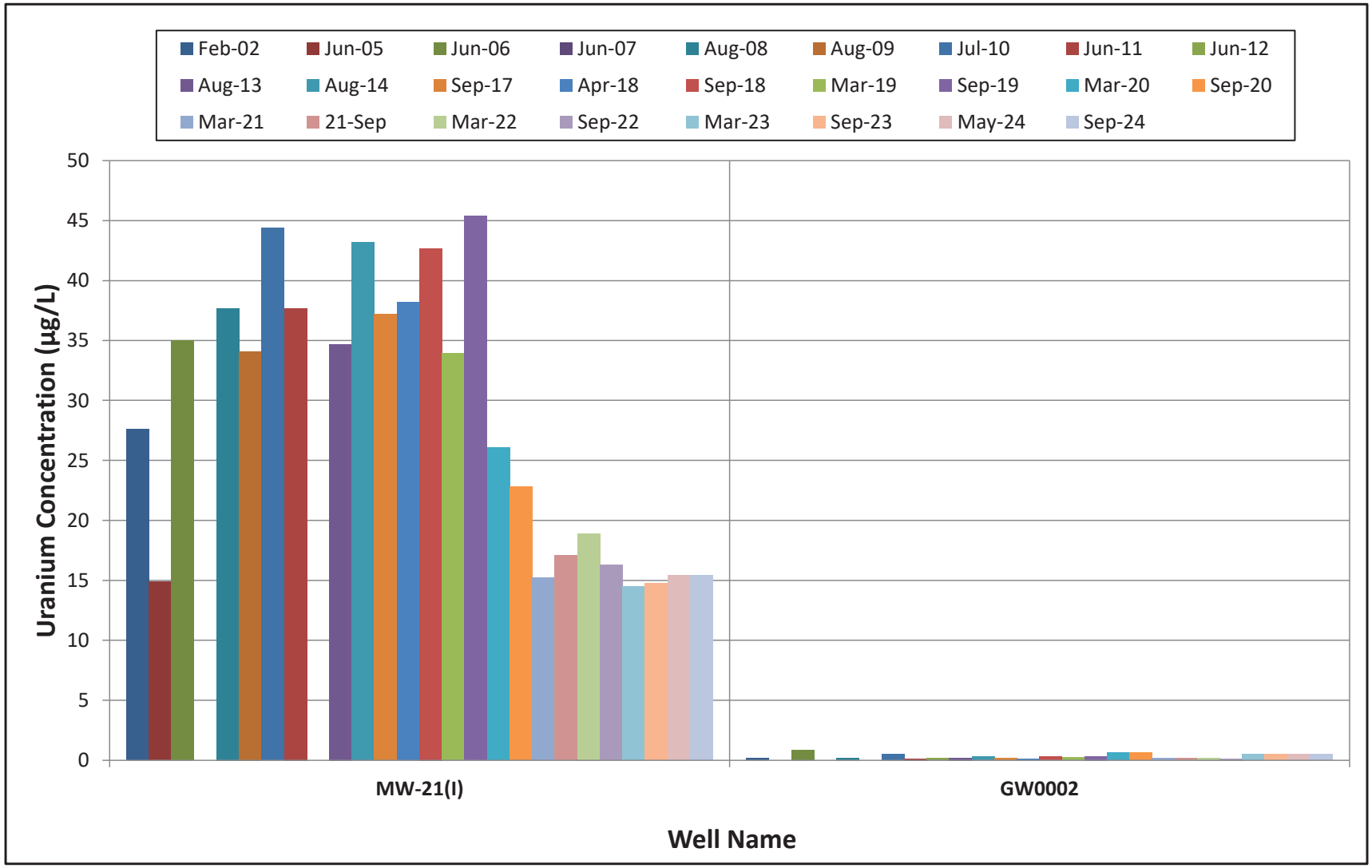
Figure 5: Lead Concentrations in Filtered Groundwater



Legend

(I) - intermediate monitoring well
GW0002 - residential well
USEPA Lead MCL - 15 µg/L
PW(E) - former water supply well for the Luckey Site (east)
µg/L - micrograms per liter

Figure 6: Uranium Concentrations in Unfiltered Groundwater

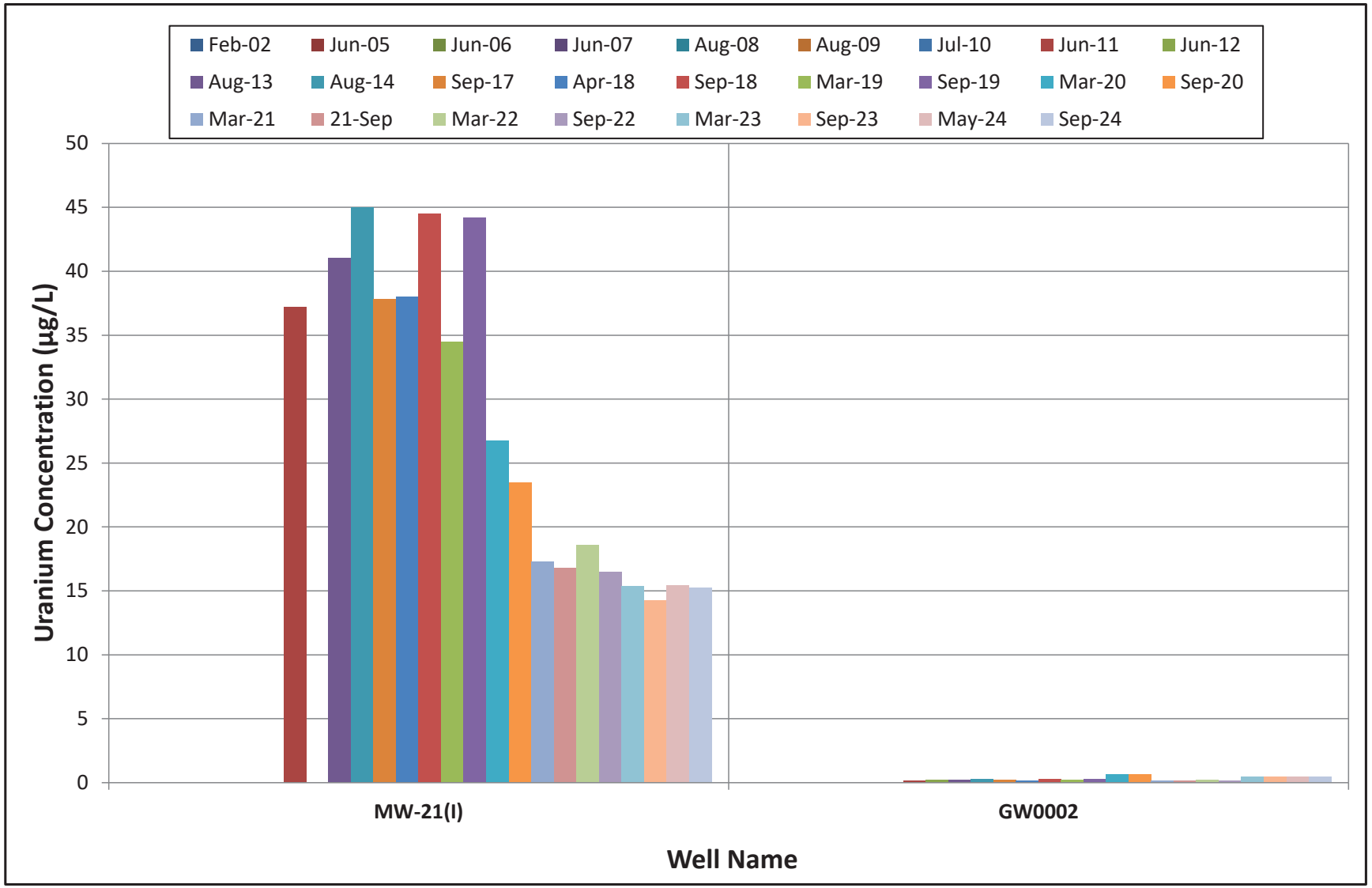


Legend

(I) - intermediate monitoring well
GW0002 - residential well

µg/L - micrograms per liter
USEPA Uranium MCL -30 µg/L

Figure 7: Uranium Concentrations in Filtered Groundwater



Legend

(I) - intermediate monitoring well
GW0002 - residential well

µg/L - micrograms per liter
USEPA Uranium MCL - 30 µg/L

TABLES

Luckey FUSRAP Site
Fall 2024 Sampling Results

Table 1: Groundwater Elevations (September 2024)

Well	Geologic Zone	Depth to Water (ft btoc)	Measuring Point Elevation (ft amsl)	Groundwater Elevation (ft amsl)
Shallow Monitoring Wells				
MW-02(S)	SH	12.27	650.27	638.00
MW-26(S)	SH	Abandoned and sealed on 8/8/2022		
MW-51(S)	SH	11.77	650.09	638.32
MW-54(S)	SH	11.73	650.27	638.54
Intermediate Monitoring Wells				
MW-01(I)	IN	12.36	650.52	638.16
MW-05(I)	IN	Abandoned and sealed on 4/21/2022		
MW-18(I)	IN	9.48	647.54	638.06
MW-19(I)	IN	Abandoned and sealed on 12/13/2022		
MW-21(I)	IN	13.32	651.45	638.13
MW-22R(I)	IN	11.88	649.98	638.10
MW-25(I)	IN	11.24	649.31	638.07
OMW-27(I)	IN	11.87	649.97	638.10
OMW-31(I)	IN	10.44	648.68	638.24
MW-50(I)	IN	14.81	652.92	638.11
MW-52(I)	IN	11.96	650.21	638.25
MW-53(I)	IN	11.37	649.69	638.32
MW-55(I)	IN	10.55	650.19	639.64
Deep Monitoring Wells				
OMW-32(B)	BR	10.46	648.74	638.28
PW(E)	BR	NA	NA	NA
PW(W)	BR	NA	NA	NA
Hybrid Monitoring Wells				
MW-52A(I)	HY	11.54	649.31	637.77

Notes:

amsl	Above mean sea level
NM	Not measured
NA	Not available
ft	Foot (Feet)
btoc	Below top of casing

Geologic Zones:

SH	Shallow water bearing zone (overburden)
IN	Intermediate water bearing zone (shallow bedrock)
BR	Deep water bearing zone (deep bedrock)
HY	Multiple zones (hybrid well)

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
GW0002	2002	0.0 U	2.0 U	0.18
	2004	0.158 U	1.72 U	0.371
	2005	0.13 U	0.8 J	0.044 U
	2006	0.088 U	0.6 J	0.85 J
	2007	0.51 U	2.4 U	
	2008	1.0 U	2.5 U	0.35 U
	2009	0.17 J	0.96	0.088 U
	2010	0.056 U	0.58	1 U
	2011	0.1 U	1.2	0.146 J
	2012	0.25 U	0.38 J	0.191 J
	2013	0.36 J	0.48 J	0.202
	2014	0.5 U	1.0	0.306
	2017	0.1 U	0.36	0.18
	2018 (April)	0.1 U	0.238 J	0.126 J
	2018 (October)	0.0412 UJ	2.19 J	0.303 J
	2019 (April)	0.05 U	1.11	0.238 J
	2019 (September)	0.179 J	0.2 U	0.34 J
	2020 (March)	0.5 U	0.5 U	1.25 U
	2020 (September)	0.5 U	5.39	1.25 U
	2021 (March)	0.4 U	1.0 U	0.155 J
	2021(September)	0.4 U	1.0 J	0.159 J
	2022 (March)	0.2 U	1.0 U	0.2 J
	2022 (September)	0.2 U	1.0 U	0.15 J
	2023 (March)	1.0 U	1.0 U	1.0 U
	2023 (September)	1.0 U	1.0 U	1.0 U
	2024 (May)	1.0 U	1.0 J	1.0 U
	2024 (September)	1.0 U	1.0 J	1.0 U

Notes:	
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UJ	The analyte was analyzed for but not detected. The associated limit of detection is an estimate.
R	Result was rejected because of quality issues
J	Result is estimated
B	Constituent also detected in laboratory blank
blank cells	Not analyzed
bold entries highlighted orange	Result exceeds USEPA Maximum Contaminant Level (MCL) for protection of drinking water
µg/L	micrograms per liter
1	Anomalous result; should not be used in data trending.

Field duplicate sample results were averaged with parent sample results.

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
GW0002 (Filtered)	2002	0.0 U	2.0 U	
	2004	0.158 U	1.72 U	
	2005	0.13 U	1.0 J	
	2006	0.088 U	0.49 U	
	2007	0.51 U	2.4 U	
	2008	1.0 U	3.8 B	
	2009	0.076 J	0.14 J	
	2010	0.056 U	0.094 J	
	2011	0.1 U	0.12 J	0.153 J
	2012	0.25 U	0.24 U	0.205 J
	2013	0.25 U	0.24 U	0.215
	2014	0.5 U	0.59 J	0.292
	2017	0.1 U	0.16	0.19
	2018 (April)	0.1 U	0.1 U	0.133 J
	2018 (October)	0.0412 UJ	0.641 J	0.292 J
	2019 (April)	0.05 U	0.280 J	0.237 J
	2019 (September)	0.128 J	0.2 U	0.294 J
	2020 (March)	0.5 U	0.5 U	1.25 U
	2020 (September)	0.5 U	0.5 U	1.25 U
	2021 (March)	0.4 U	1.0 U	0.144 J
	2021(September)	0.4 U	1.0 U	0.158 J
	2022 (March)	0.2 U	1.0 U	0.2 J
	2022 (September)	0.2 U	1.0 U	0.16 J
	2023 (March)	1.0 U	1.0 U	1.0 U
	2023 (September)	1.0 U	1.0 U	1.0 U
	2024 (May)	1.0 U	1.0 U	1.0 U
	2024 (September)	1.0 U	1.0 U	1.0 U

Notes:	
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Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
MW-01(I)	2002	**34**	2.0 U	3.19
	2004	**31.1**	1.72 U	3.16
	2005	**41.2**	2.8 U	3.32
	2006	**31.8**	0.49 U	2.85
	2007	**32.5**	4.8 U	
	2008	**31.1**	2.5 U	2.63
	2009	**39**	0.57	2.39
	2010	**25**	0.74	2.91
	2011	**28**	0.45	2.99
	2013	**35**	2.3	2.90
	2014	**24**	1.5	3.08
	2017	**31.6**	0.82	3.08
	2018 (April)	**30.3**	0.52 J	2.96
	2018 (September)	**25.7 J**	0.328 UJ	5.77 J
	2019 (March)	**26.4 J**	0.328 J	5.09
	2019 (September)	**30.6 J**	0.2 U	4.6 J
	2020 (March)	**28.9**	0.5 U	2.95
	2020 (September)	**30.2**	0.5 U	3
	2021 (March)	**27**	1.0 U	2.97
	2021(September)	**32.5**	1.0 U	2.87
	2022 (March)	**28**	1.0 U	3.32
	2022 (September)	**34.5**	1.0 U	2.92
	2023 (March)	**28**	1.0 U	2.81
	2023 (September)	**26 J**	1.0 U	2.87
	2024 (May)	**34**	1.0 U	3.23
	2024 (September)	**31.8**	1.0 U	3.00

Notes:	
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1	Anomalous result; should not be used in data trending.

Field duplicate sample results were averaged with parent sample results.

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
MW-01(I) (Filtered)	2002	**11**	3.0	
	2004	**32.7**	1.72 U	
	2005	**33.8**	0.57 U	
	2006	**33.2**	0.62 J	
	2007	**30.9**	4.8 U	
	2008	**31.5**	2.5 U	
	2009	**34**	0.46	
	2010	**20**	0.35 J	
	2011	**28**	0.36 J	2.88
	2013	**29**	0.41 J	2.87
	2014	**24**	0.46 J	3.09
	2017	**31**	0.39	3.1
	2018 (April)	**28.7**	0.18 J	2.92
	2018 (September)	**28.4 J**	0.328 UJ	5.73 J
	2019 (March)	**27.3 J**	0.307 J	5.21
	2019 (September)	**30.5 J**	0.2 U	4.39 J
	2020 (March)	**30.2**	0.5 U	3.01
	2020 (September)	**30.3**	0.5 U	3.08
	2021 (March)	**26.2**	1.0 U	2.94
	2021(September)	**32**	1.0 U	2.8
	2022 (March)	**27.4**	1.0 U	3.34
	2022 (September)	**33.99**	1.0 U	2.91
	2023 (March)	**27**	1.0 U	2.74
	2023 (September)	**27 J**	1.0 U	2.82
	2024 (May)	**33**	1.0 U	3.2
	2024 (September)	**31.6**	1.0 U	2.96

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1	Anomalous result; should not be used in data trending.

Field duplicate sample results were averaged with parent sample results.

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
MW-02(S)	2002	**60**	6.0	6.97
	2004	**77.8**	1.7 J	6.24
	2005	**44.2**	1.5 J	5.23
	2006	**14.8**	1.8	4.13
	2007	**14.2**	4.8 U	
	2008	**13.2**	2.5 U	3.93
	2009	**14**	1.3	3.64
	2010	**11**	1.3	4.17
	2011	**13**	1.1	4.36
	2013	**15**	1.1	4.07
	2014	**13**	0.75 J	4.43
	2017	**13.7**	0.77	4.71
	2018 (April)	**13.5**	0.81 J	4.62
	2018 (September)	**10.7 J**	0.612 J	9.35 J
	2019 (March)	**12.7**	0.810 J	5.56
	2019 (September)	**14.9 J**	0.221 J	9.29 J
	2020 (March)	**13.3**	0.5 U	5.88
	2020 (September)	**16.1**	0.5 J	5.36
	2021 (March)	**12.4**	1.0 U	5.3
	2021(September)	**18.6**	1.0 J	5.75
	2022 (March)	**16.9**	1.0 U	5.75
	2022 (September)	**17.88**	1.0 U	5.22
	2023 (March)	**12.00**	1.0 U	4.78
	2023 (September)	**13 J**	1.0 U	5.24
	2024 (May)	**15**	1.0 J	5.84
	2024 (September)	**9.4**	1.0 J	5.19

Notes:	
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USEPA MCL		*4*	*15*	*30*
MW-02(S) (Filtered)	2002	**62**	2.0 U	
	2004	**79.6**	1.72 U	
	2005	**43**	2.3 J	
	2006	**13.7**	1.4	
	2007	**13.2**	4.8 U	
	2008	**12.4**	2.5 U	
	2009	**22**	1.3	
	2010	**3.1**	0.72	
	2011	**14**	0.87	4.20
	2013	**13**	0.72 J	3.90
	2014	**13**	0.58 J	4.22
	2017	**13.4**	0.73	4.58
	2018 (April)	**13.2**	0.474 J	4.50
	2018 (September)	**11.9 J**	0.677 J	9.29 J
	2019 (March)	**11.9**	0.696 J	5.44
	2019 (September)	**12.8 J**	0.2 U	8.98 J
	2020 (March)	**13.5**	0.5 U	5.74
	2020 (September)	**16**	0.5 U	5.18
	2021 (March)	**11.3**	1.0 U	5.44
	2021(September)	**17.8**	1.0 U	5.69
	2022 (March)	**16.0**	1.0 U	5.77
	2022 (September)	**17.83**	1.0 U	5.15
	2023 (March)	**13.00**	1.0 U	4.77
	2023 (September)	**13 J**	1.0 U	5.25
	2024 (May)	**15**	1.0 J	5.86
	2024 (September)	**8.8**	1.0 J	5.28

Notes:	
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UJ	The analyte was analyzed for but not detected. The associated limit of detection is an estimate.
R	Result was rejected because of quality issues
J	Result is estimated
B	Constituent also detected in laboratory blank
blank cells	Not analyzed
bold entries highlighted orange	Result exceeds USEPA Maximum Contaminant Level (MCL) for protection of drinking water
µg/L	micrograms per liter
1	Anomalous result; should not be used in data trending.

Field duplicate sample results were averaged with parent sample results.

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
MW-18(I)	2017	0.1 U	1.01	1.34
	2018 (April)	0.1 U	0.704 J	2.42
	2018 (September)	0.0412 UJ	0.647 J	4.61 U J
	2019 (April)	0.05 J	1.64	6.45
	2019 (September)	0.05 U	0.789 J	6.85 J
	2020 (March)	0.5 U	0.5 U	4.20
	2020 (September)	0.5 U	0.8 U	4.57
	2021 (March)	0.4 U	0.798 J	3.27
	2021(September)	0.4U	1.0 U	3.44
	2022 (March)	0.2 U	6.53	5.33
	2022 (September)	0.2 U	1.0 U	1.02
	2023 (March)	1.0 U	1.0 U	1.0 U
	2023 (September)	1.0 U	1.0 U	1.49 J
	2024 (May)	1.0 U	1.0 J	5.19
	2024 (September)	1.0 U	2.0 J	1.30 J
MW-18(I) (Filtered)	2017	0.1 U	0.89	1.38
	2018 (April)	0.1 U	2.23	2.38
	2018 (September)	0.0412 UJ	0.548 J	4.23 J
	2019 (April)	0.05 J	1.19	6.71
	2019 (September)	0.05 U	0.466 J	6.61 J
	2020 (March)	0.5 U	0.5 U	5.53
	2020 (September)	0.5 U	0.696 U	4.59
	2021 (March)	0.4 U	0.81 J	3.05
	2021(September)	0.4U	1.0 U	3.36
	2022 (March)	0.2 U	1.0 U	4.63
	2022 (September)	0.2 U	1.0 U	1.09
	2023 (March)	1.0 U	1.0 U	1.0 U
	2023 (September)	1.0 U	1.0 U	1.55 J
	2024 (May)	1.0 U	1.0 U	5.26
	2024 (September)	1.0 U	1.0 U	1.36 J

Notes:	
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J	Result is estimated
B	Constituent also detected in laboratory blank
blank cells	Not analyzed
bold entries highlighted orange	Result exceeds USEPA Maximum Contaminant Level (MCL) for protection of drinking water
µg/L	micrograms per liter
1	Anomalous result; should not be used in data trending.

Field duplicate sample results were averaged with parent sample results.

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		**µg/L**	**µg/L**	**µg/L**
USEPA MCL		*4*	*15*	*30*
MW-21(I)	2002	0.0 U	**34**	27.60
	2004	0.158 U	**32.5**	13.57
	2005	0.63 U	**25.5**	14.90
	2006	0.088 U	**32.7**	**35.0**
	2007	1.0 U	**27.1**	
	2008	1.0 U	**39.6**	**37.7**
	2009	0.056 U	**84**	
	2009			**34.1**
	2010	2.6	**62**	**44.4**
	2011	0.5 U	**38**	**37.7**
	2013	0.25 U	**66**	**34.7**
	2014	1.0 U	**24**	**43.2**
	2017	0.1 U	**32.7**	**37.2**
	2018 (April)	0.1 U	**23.5**	**38.2**
	2018 (September)	0.049 J	**20.7 J**	**42.7 J**
	2019 (March)	0.185 J	**34.9**	**33.9**
	2019 (September)	0.05 U	**26.2**	**45.4 J**
	2020 (March)	0.5 U	**33.5**	26.1
	2020 (September)	0.5 U	**19.9**	22.8
	2021 (March)	0.4 U	**25.7 J**	15.2
	2021(September)	0.4 U	**17.2**	17.1
	2022 (March)	0.2 U	**16.8**	18.9
	2022 (September)	0.20 U	10.32	16.26
	2023 (March)	1.0 U	7.0	14.48
	2023 (September)	1.0 U	5.23	14.76
	2024 (May)	1.0 U	12.5	15.41
	2024 (September)	1.0 U	13.0	15.40

Notes:	
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J	Result is estimated
B	Constituent also detected in laboratory blank
blank cells	Not analyzed
bold entries highlighted orange	Result exceeds USEPA Maximum Contaminant Level (MCL) for protection of drinking water
µg/L	micrograms per liter
1	Anomalous result; should not be used in data trending.

Field duplicate sample results were averaged with parent sample results.

Luckey FUSRAP Site
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Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
MW-21(I) (Filtered)	2002	0.0 U	**29**	
	2004	0.158 U	**37.5**	
	2005	0.63 U	**25.7**	
	2006	0.088 U	**31.7**	
	2007	1.0 U	**25.7**	
	2008	1.0 U	**32.9**	
	2009	0.028 U	**58**	
	2010	0.28 U	**53**	
	2011	0.5 U	**36**	**37.2**
	2013	0.25 U	**54**	**41**
	2014	0.5 U	**23**	**45**
	2017	0.1 U	**31.3**	**37.8**
	2018 (April)	0.1 U	**22.9**	**38**
	2018 (September)	0.067 J	**18.1 J**	**44.5 J**
	2019 (March)	0.061 J	**31.3**	**34.5**
	2019 (September)	0.05 U	**25.5**	**44.2 J**
	2020 (March)	0.5 U	**27.6**	26.8
	2020 (September)	0.5 U	**18.6**	23.5
	2021 (March)	0.4 U	14.6	17.3
	2021(September)	0.4 U	**17.5**	16.8
	2022 (March)	0.2 U	**15.2**	18.6
	2022 (September)	0.2 U	9.77	16.47
	2023 (March)	1.0 U	7.0	15.35
	2023 (September)	1.0 U	8.5	14.22
	2024 (May)	1.0 U	11.5	15.43
	2024 (September)	1.0 U	12.4	15.24

Notes:	
U	The analyte was analyzed for but not detected. The associated value is the compound limit of detection.
UJ	The analyte was analyzed for but not detected. The associated limit of detection is an estimate.
R	Result was rejected because of quality issues
J	Result is estimated
B	Constituent also detected in laboratory blank
blank cells	Not analyzed
bold entries highlighted orange	Result exceeds USEPA Maximum Contaminant Level (MCL) for protection of drinking water
µg/L	micrograms per liter
1	Anomalous result; should not be used in data trending.

Field duplicate sample results were averaged with parent sample results.

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
MW-22R(I)	2013	**75**	2.2	5.07
	2014	**52**	2.4	6.85
	2017	**13.7**	4.85	10.2
	2018 (April)	**66.7**	1.5	5.08
	2018 (September)	**76.8 J**	1.43 J	9.16 J
	2019 (March)	**61.8**	1.3	5.33
	2019 (September)	**57.6 J**	1.99 J	11.1 J
	2020 (March)	**67.8**	1.17	4.81
	2020 (September)	**66.6**	2.42	5.10
	2021 (March)	**63.9**	2.59	4.65
	2021(September)	**76.9**	1.54J	4.55
	2022 (March)	**59.3**	2.04	5.66
	2022 (September)	**71.93**	2.07	5.28
	2023 (March)	**60**	1.5 J	6.49
	2023 (September)	**53.3 J**	1.88 J	6.18
	2024 (May)	**58.5**	3	6.11
	2024 (September)	**46.8**	1.0 J	5.58
MW-22R(I) (Filtered)	2013	**71**	1.7	5.02
	2014	**51**	2.4	6.76
	2017	**42.6**	4.66	10.5
	2018 (April)	**64.2**	1.44	5.05
	2018 (September)	**69.6 J**	1.38 J	9.32 J
	2019 (March)	**61.3**	1.22	5.58
	2019 (September)	**60 J**	2.33	12.3 J
	2020 (March)	**67.1**	1.11	4.90
	2020 (September)	**60.6**	1.38	5.56
	2021 (March)	**62.3**	1.16 J	4.58
	2021(September)	**77.9**	1.39 J	4.71
	2022 (March)	**57.5**	1.32 J	5.79
	2022 (September)	**70.17**	1.48 J	5.70
	2023 (March)	**64.50**	1.0 J	6.90
	2023 (September)	**51.4 J**	1.0 J	6.91
	2024 (May)	**48.5**	3	6.52
	2024 (September)	**43.0**	1.0 J	5.60

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J	Result is estimated
B	Constituent also detected in laboratory blank
blank cells	Not analyzed
bold entries highlighted orange	Result exceeds USEPA Maximum Contaminant Level (MCL) for protection of drinking water
µg/L	micrograms per liter
1	Anomalous result; should not be used in data trending.

Field duplicate sample results were averaged with parent sample results.

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
MW-25(I)	2008	1.0 U	2.5 U	1.28
	2009	0.2 J	0.59	
	2009			0.700 U
	2010	0.056 J	0.42	3.30
	2011	0.1 U	0.53	2.68
	2013	1.2	0.47 J	2.32
	2014	0.5 U	0.5 U	1.15
	2017	0.1 U	0.17 J	0.65
	2018 (April)	0.1 U	0.1 U	0.725
	2018 (September)	0.083 J	0.328 UJ	1.35 J
	2019 (March)	0.278 J	0.257 J	1.17
	2019 (September)	0.05 U	0.2 U	0.967 J
	2020 (March)	0.5 U	0.5 U	1.25 U
	2020 (September)	0.5 U	0.5 U	1.25 U
	2021 (March)	0.4 U	1.0 U	0.606
	2021(September)	0.4 U	1.0 U	0.595
	2022 (March)	0.21 J	1.0 U	0.67
	2022 (September)	0.20 U	1.0 U	0.53
	2023 (March)	1.0 U	1.0 U	1.0 U
	2023 (September)	1.0 UJ	1.0 U	1.0 U
	2024 (May)	1.0 U	1.0 U	1.0 U
	2024 (September)	1.0 U	1.0 U	1.0 U

Notes:	
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UJ	The analyte was analyzed for but not detected. The associated limit of detection is an estimate.
R	Result was rejected because of quality issues
J	Result is estimated
B	Constituent also detected in laboratory blank
blank cells	Not analyzed
bold entries highlighted orange	Result exceeds USEPA Maximum Contaminant Level (MCL) for protection of drinking water
µg/L	micrograms per liter
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Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
MW-25(I) (Filtered)	2008	1.0 U	5.9 B	
	2009	0.21	0.11 J	
	2010	0.056 U	0.072 J	
	2011	0.1 U	0.32 J	2.64
	2013	1.4	0.24 U	2.29
	2014	0.5 U	0.5 U	1.23
	2017	0.1 U	0.11 J	0.67
	2018 (April)	0.1 U	0.1 U	0.691
	2018 (September)	0.0412 UJ	0.328 UJ	1.28 J
	2019 (March)	0.071 J	0.2 U	1.14
	2019 (September)	0.113 J	0.2 U	1.12 J
	2020 (March)	0.5 U	0.5 U	1.25 U
	2020 (September)	0.5 U	0.5 U	1.25 U
	2021 (March)	0.4 U	1.0 U	0.59
	2021(September)	0.4 U	1.0 U	0.594
	2022 (March)	0.2 U	1.0 U	0.63
	2022 (September)	0.20 U	1.0 U	0.53
	2023 (March)	1.0 U	1.0 U	1.0 U
	2023 (September)	1.0 UJ	1.0 U	1.0 U
	2024 (May)	1.0 U	1.0 U	1.0 U
	2024 (September)	**12.9**[1]	1.0 J	1.0 U

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Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
MW-50(I)	2010	0.082 J	0.72	2.17
	2011	0.1 U	1.6	1.16
	2013	0.25 U	0.25 J	1.17
	2014	0.5 U	0.45 J	0.929
	2017	0.1 U	0.63	1.31
	2018 (April)	0.1 U	0.338 J	1.22
	2018 (September)	0.060 UJ	0.328 UJ	2.55 J
	2019 (April)	0.05 U	0.996 J	2.85
	2019 (September)	0.05 U	0.378 J	1.89 J
	2020 (March)	0.5 U	0.549 J	2.57
	2020 (September)	0.5 U	0.752 J	1.41 J
	2021 (March)	0.4 U	0.959 J	1.7
	2021(September)	0.4 U	1.57 J	3.19
	2022 (March)	0.2 U	1.0 U	1.56
	2022 (September)	0.2 U	1.0 U	1.17
	2023 (March)	1.0 U	1.0 U	1.75 J
	2023 (September)	1.0 U	1.0 J	1.48 J
	2024 (May)	1.0 U	1.0	1.34 J
	2024 (September)	1.0 U	1.0 U	1.03 J
MW-50(I) (Filtered)	2010	0.06 J	0.15 J	
	2011	0.1 U	0.62	1.16
	2013	0.25 U	0.24 U	1.06
	2014	0.5 U	0.32 J	1.19
	2017	0.1 U	0.62	1.47
	2018 (April)	0.1 U	0.410 J	1.28
	2018 (September)	0.0412 UJ	0.368 J	2.67 J
	2019 (April)	0.05 U	1.14	2.94
	2019 (September)	0.05 U	0.2 U	1.48 J
	2020 (March)	0.5 U	0.5 U	2.54
	2020 (September)	0.5 U	0.69 J	1.52 J
	2021 (March)	0.4 U	0.882 J	1.79
	2021(September)	0.4 U	1.0 J	3.03
	2022 (March)	0.2 U	1.0 U	1.68
	2022 (September)	0.2 U	1.0 U	1.23
	2023 (March)	1.0 U	1.0 U	1.83 J
	2023 (September)	1.0 U	1.0 J	1.85 J
	2024 (May)	1.0 U	1.0 J	1.80 J
	2024 (September)	1.0 U	1.0 U	1.3 J

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blank cells	Not analyzed
bold entries highlighted orange	Result exceeds USEPA Maximum Contaminant Level (MCL) for protection of drinking water
µg/L	micrograms per liter
1	Anomalous result; should not be used in data trending.

Field duplicate sample results were averaged with parent sample results.

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
MW-51(S)	2010	0.35 U	1.4 J	
	2011	0.1 U	0.13 J	4.73
	2012	0.25 U	0.24 U	9.36
	2013	0.25 U	0.24 U	9.32
	2014	0.5 U	0.5 U	5.3
	2017	0.1 U	0.13	6.5
	2018 (April)	0.1 U	0.1 U	8.04
	2018 (September)	0.0412 UJ	0.328 UJ	17.6 J
	2019 (March)	0.05 U	0.2 U	9.35
	2019 (September)	0.05 U	0.2 U	9.26 J
	2020 (March)	0.5 U	0.5 U	9.39
	2020 (September)	0.5 U	0.5 U	5.87
	2021 (March)	0.4 U	1.0 U	7.12
	2021(September)	0.4 U	1.0 U	8.91
	2022 (March)	0.2 U	1.0 U	7.67
	2022 (September)	0.2 U	1.0 U	8.55
	2023 (March)	1.0 U	1.0 U	6.89
	2023 (September)	1.0 U	1.0 U	7.5
	2024 (May)	1.0 U	1.0 U	8.31
	2024 (September)	1.0 U	1.0 U	7.47
MW-51(S) (Filtered)	2010	0.35 U	0.17 U	
	2011	0.1 U	0.15 J	0.94
	2012	0.25 U	0.24 U	7.53
	2013	0.25 U	0.24 U	8.37
	2014	0.5 U	0.5 U	2.05
	2017	0.1 U	0.1	6.8
	2018 (April)	0.1 U	0.1 U	8.4
	2018 (September)	0.0412 UJ	0.328 UJ	15.3 J
	2019 (March)	0.05 U	0.2 U	7.58
	2019 (September)	0.05 U	0.2 U	10.4 J
	2020 (March)	0.5 U	0.5 U	8.47
	2020 (September)	0.5 U	0.5 U	3.28
	2021 (March)	0.4 U	1.0 U	6.91
	2021(September)	0.4 U	1.0 U	8.49
	2022 (March)	0.2 U	1.0 U	8.54
	2022 (September)	0.2 U	1.0 U	8.01
	2023 (March)	1.0 U	1.0 U	7.05
	2023 (September)	1.0 U	1.0 J	1.45 J
	2024 (May)	1.0 U	1.0 U	6.57
	2024 (September)	1.0 U	1.0 U	6.77

Notes:	
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J	Result is estimated
B	Constituent also detected in laboratory blank
blank cells	Not analyzed
bold entries highlighted orange	Result exceeds USEPA Maximum Contaminant Level (MCL) for protection of drinking water
µg/L	micrograms per liter
1	Anomalous result; should not be used in data trending.

Field duplicate sample results were averaged with parent sample results.

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
MW-52(I)	2010	0.35 U	6.8	
	2011	0.37 J	0.74	2.76
	2012	0.25 U	0.5 J	2.76
	2013	0.25 U	0.76 J	2.6
	2014	0.5 U	0.94 J	2.71
	2017	0.1 U	0.85	2.76
	2018 (April)	0.1 U	0.786 J	2.45
	2018 (September)	0.0412 UJ	0.87 J	4.95 J
	2019 (March)	0.05 U	0.999 J	4.27
	2019 (September)	0.104 J	0.71 J	4.42 J
	2020 (March)	0.5 U	0.504 J	2.07 J
	2020 (September)	0.5 U	8.91	2.71
	2021 (March)	0.4 U	1.16 J	2.35
	2021(September)	0.4 U	1.33 J	2.51
	2022 (March)	0.2 U	1.0 U	2.53
	2022 (September)	0.2 U	1.15 J	2.33
	2023 (March)	1.0 U	2.0 J	2.48
	2023 (September)	1.0 U	1.0 J	2.35
	2024 (May)	1.0 U	2	2.61
	2024 (September)	1.0 U	1.0 J	2.64
MW-52(I) (Filtered)	2010	0.35 U	7.3	
	2011	0.1 U	0.4	2.68
	2012	0.25 U	0.35 J	2.69
	2013	0.25 U	0.46 J	2.66
	2014	0.5 U	0.47 J	2.56
	2017	0.1 U	0.68	2.7
	2018 (April)	0.1 U	0.676 J	2.5
	2018 (September)	0.0412 UJ	0.683 J	4.90 J
	2019 (March)	0.05 U	0.535 J	4.3
	2019 (September)	0.083 J	0.547 J	4.29 J
	2020 (March)	0.5 U	0.721 J	2.02 J
	2020 (September)	0.5 U	0.654 J	2.62
	2021 (March)	0.4 U	1.0 U	2.32
	2021(September)	0.4 U	1.0 J	2.52
	2022 (March)	0.2 U	1.0 U	2.52
	2022 (September)	0.2 U	1.0 U	2.32
	2023 (March)	1.0 U	1.0 J	2.64
	2023 (September)	1.0 J	2.0	5.57
	2024 (May)	1.0 U	1.0 J	2.69
	2024 (September)	1.0 U	1.0 J	2.64

Notes:	
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J	Result is estimated
B	Constituent also detected in laboratory blank
blank cells	Not analyzed
bold entries highlighted orange	Result exceeds USEPA Maximum Contaminant Level (MCL) for protection of drinking water
µg/L	micrograms per liter
1	Anomalous result; should not be used in data trending.

Field duplicate sample results were averaged with parent sample results.

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
MW-52A(I)	2012	0.64 J	11	15.2
	2013	0.75 J	10	15.4
	2014	0.6 J	9.4	14.9
	2017	1.23	10.4	15.2
	2018 (April)	1.3	9.05	16.1
	2018 (September)	0.735 J	6.39 J	18.9 J
	2019 (March)	0.903 J	9.49	16.9
	2019 (September)	0.354 J	5.87	25.5
	2020 (March)	0.5 U	0.5 U	1.25 U
	2020 (September)	0.5 U	0.594	9.19
	2021 (March)	1.24	6.73	12.5
	2021(September)	0.86	5.49	10.5
	2022 (March)	0.88	5.32	10.8
	2022 (September)	0.84	5.07	9.49
	2023 (March)	1.0 U	4	8.89
	2023 (September)	1.0 J	2.0	5.56
	2024 (May)	1.0 J	1.0 J	3.82
	2024 (September)	1.0 U	2.0	4.13
MW-52A(I) (Filtered)	2012	0.67 J	10	15.4
	2013	0.8 J	9.4	16.0
	2014	0.5 U	9.4	15.2
	2017	1.51	10.3	16.2
	2018 (April)	1.43	9.32	16.3
	2018 (September)	1.01 J	11 J	19.3 J
	2019 (March)	0.974 J	9.63	16.8
	2019 (September)	0.501 J	7.51	26.8
	2020 (March)	0.5 U	0.5 U	1.25 U
	2020 (September)	0.5 U	6.33	10
	2021 (March)	1.62	6.49	12.5
	2021(September)	0.71	5.37	10.3
	2022 (March)	1.28	5.39	11.1
	2022 (September)	0.94	5.09	9.54
	2023 (March)	1.0 U	4	8.83
	2023 (September)	1.0 U	1.0 U	7.84
	2024 (May)	1.0 J	1.0 J	3.82
	2024 (September)	1.0 U	2.0	4.26

Notes:	
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µg/L	micrograms per liter
1	Anomalous result; should not be used in data trending.

Field duplicate sample results were averaged with parent sample results.

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
MW-53(I)	2010	0.056 U	0.17 J	1.00 U
	2011	0.1 U	0.87	0.408
	2012	0.25 U	0.66 J	0.432
	2013	3.7	8.7	0.458
	2014	0.5 U	0.5 U	0.452
	2017	0.1 U	0.49	0.380
	2018 (April)	0.1 U	0.544 J	0.362
	2018 (September)	0.412 UJ	0.328 UJ	0.756 J
	2019 (March)	0.05 U	0.525 J	0.68 J
	2019 (September)	0.05 U	0.582 J	0.212 J
	2020 (March)	0.5 U	0.5 U	1.25 U
	2020 (September)	0.5 U	0.721 U	1.25 U
	2021 (March)	0.4 U	1.0 U	0.31
	2021(September)	0.4 U	1.0 U	0.34
	2022 (March)	0.2 U	1.0 U	0.38
	2022 (September)	0.2 U	1.0 U	0.37
	2023 (March)	1.0 U	1.0 U	1.0 U
	2023 (September)	1.0 U	1.0 U	1.0 U
	2024 (May)	1.0 U	1.0 U	1.0 U
	2024 (September)	1.0 U	1.0 U	1.0 U
MW-53(I) (Filtered)	2010	0.056 U	0.07 J	
	2011	0.1 U	0.096 U	0.404
	2012	0.25 U	0.24 U	0.398
	2013	3.4	0.24 U	0.451
	2014	0.5 U	0.5 U	0.560
	2017	0.1 U	0.63	0.370
	2018 (April)	0.1 U	0.1 U	0.362
	2018 (September)	0.412 UJ	0.328 UJ	0.718 J
	2019 (March)	0.05 U	0.2 U	0.646 J
	2019 (September)	0.05 U	0.2 U	0.218 J
	2020 (March)	0.5 U	0.5 U	1.25 U
	2020 (September)	0.5 U	2.28	1.25 U
	2021 (March)	0.4 U	1.0 U	0.325
	2021(September)	0.4 U	1.0 U	0.341
	2022 (March)	0.2 U	1.0 U	0.39
	2022 (September)	0.2 U	1.0 U	0.36
	2023 (March)	1.0 U	1.0 U	1.0 U
	2023 (September)	1.0 U	1.0 J	1.86 J
	2024 (May)	1.0 U	1.0 U	1.0 U
	2024 (September)	1.0 U	1.0 U	1.0 U

Notes:	
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µg/L	micrograms per liter
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Field duplicate sample results were averaged with parent sample results.

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
MW-54(S)	2010	0.11 J	0.21 J	4.98
	2011	0.1 U	0.096 U	7.0
	2012	0.25 U	0.24 U	4.39
	2013	0.25 U	0.77 J	5.21
	2014	0.5 U	0.54 J	5.67
	2017	0.1 U	0.1 U	5.72
	2018 (April)	0.1 U	0.1 U	4.73
	2018 (September)	0.412 UJ	0.328 UJ	8.88 J
	2019 (March)	0.05 U	0.2 U	5.32
	2019 (September)	0.05 U	0.2 U	9.42 J
	2020 (March)	0.5 U	0.5 U	2.00 J
	2020 (September)	0.5 U	0.5 U	5.77
	2021 (March)	0.4 U	1.0 U	4.8
	2021(September)	0.4 U	1.0 U	5.62
	2022 (March)	0.2 U	1.0 U	6.25
	2022 (September)	0.2 U	1.0 U	6.2
	2023 (March)	1.0 U	1.0 U	6.15
	2023 (September)	1.0 UJ	1.0 U	6.81
	2024 (May)	1.0 U	1.0 U	8.26
	2024 (September)	1.0 U	1.0 U	5.52
MW-54(S) (Filtered)	2010	0.056 U	0.072 J	
	2011	0.1 U	0.096 U	8.14
	2012	0.25 U	0.24 U	4.57
	2013	0.25 U	0.24 U	4.42
	2014	0.5 U	0.5 U	4.65
	2017	0.1 U	0.1 U	5.34
	2018 (April)	0.1 U	0.1 U	4.21
	2018 (September)	0.412 UJ	0.328 UJ	9.86 J
	2019 (March)	0.06 J	0.2 U	5.94
	2019 (September)	0.05 U	0.2 U	8.56 J
	2020 (March)	0.5 U	0.5 U	2.01 J
	2020 (September)	0.5 U	0.5 U	5.5
	2021 (March)	0.4 U	1.0 U	4.95
	2021(September)	0.4 U	1.0 U	6.12
	2022 (March)	0.2 U	1.0 U	6.29
	2022 (September)	0.2 U	1.0 U	5.87
	2023 (March)	1.0 U	1.0 U	6.26
	2023 (September)	1.0 UJ	1.0 U	6.91
	2024 (May)	1.0 U	1.0 U	7.20
	2024 (September)	1.0 U	1.0 U	4.53

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Field duplicate sample results were averaged with parent sample results.

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
MW-55(I)	2010	0.056 U	0.06 J	1.00 U
	2011	0.1 U	0.096 U	0.684
	2012	0.25 U	0.24 U	0.437
	2013	0.25 U	1.0	0.442
	2014	0.5 U	0.5 U	0.486
	2017	0.1 U	0.1 U	0.43
	2018 (April)	0.1 U	0.1 U	0.415
	2018 (September)	0.412 UJ	0.328 UJ	0.820 J
	2019 (March)	0.092 J	0.226 J	0.844 J
	2019 (September)	0.05 U	0.2 U	0.28 J
	2020 (March)	0.5 U	0.5 U	2.27 J
	2020 (September)	0.5 U	0.5 U	1.25 U
	2021 (March)	0.4 U	1.0 U	0.368
	2021(September)	0.4 U	1.0 U	0.435
	2022 (March)	0.2 U	1.0 U	0.50
	2022 (September)	0.2 U	1.0 U	0.43
	2023 (March)	1.0 U	1.0 U	1.0 U
	2023 (September)	1.0 UJ	1.0 U	1.0 U
	2024 (May)	1.0 U	1.0 U	1.0 U
	2024 (September)	1.0 U	1.0 U	1.0 U
MW-55(I) (Filtered)	2010	0.056 U	0.064 J	
	2011	0.1 U	0.096 U	0.391
	2012	0.25 U	0.24 U	0.436
	2013	0.25 U	0.24 U	0.438
	2014	0.5 U	0.5 U	0.502
	2017	0.1 U	0.1 U	0.42
	2018 (April)	0.1 U	0.1 U	0.425
	2018 (September)	0.412 UJ	0.328 UJ	0.802 J
	2019 (March)	0.05 U	0.2 U	0.734 J
	2019 (September)	0.05 U	0.2 U	0.244 J
	2020 (March)	0.5 U	2.18	3.90
	2020 (September)	0.5 U	0.5 U	1.25 U
	2021 (March)	0.4 U	1.0 U	0.382
	2021(September)	0.4 U	1.0 U	0.433
	2022 (March)	0.2 U	1.0 U	0.50
	2022 (September)	0.2 U	1.0 U	0.43
	2023 (March)	1.0 U	1.0 U	1.0 U
	2023 (September)	1.0 U	1.0 U	1.0 U
	2024 (May)	1.0 U	1.0 U	1.0 U
	2024 (September)	1.0 U	1.0 U	1.0 U

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1	Anomalous result; should not be used in data trending.

Field duplicate sample results were averaged with parent sample results.

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
OMW-27(I)	2008	1.0 U	2.5 U	1.89
	2009	0.056 U	0.73	1.41
	2010	0.056 U	1.20	2.09
	2011	0.1 U	1.20	1.88
	2012	0.25 U	0.32 J	2.02
	2013	0.25 U	0.9 J	2.03
	2014	0.62 J	0.94 J	2.14
	2017	0.1 U	1.18	1.91
	2018 (April)	0.1 U	0.378 J	1.89
	2018 (September)	0.0412 UJ	0.375 J	3.87 J
	2019 (March)	0.05 UJ	0.557 J	3.32
	2019 (September)	0.05 U	0.2 U	2.96
	2020 (March)	0.5 U	0.5 U	5.3
	2020 (September)	0.5 U	0.5 U	2.18 J
	2021 (March)	0.4 U	1.0 U	1.87
	2021(September)	0.4 U	1.0 U	2.08
	2022 (March)	0.2 U	1.0 U	2.02
	2022 (September)	0.2 U	1.0 U	1.83
	2023 (March)	1.0 U	1.0 U	1.84 J
	2023 (September)	1.0 U	1.0 J	2.37
	2024 (May)	1.0 U	1.0 J	1.96 J
	2024 (September)	1.0 U	1.0 J	1.95 J
OMW-27(I) (Filtered)	2008	1.0 U	2.5 U	
	2009	0.028 U	0.54	
	2010	0.056 U	0.55	
	2011	0.1 U	0.49	1.73
	2012	0.25 U	0.24 U	1.98
	2013	0.25 U	1.10	2.06
	2014	0.5 U	0.5 J	2.07
	2017	0.1 U	2.27	1.99
	2018 (April)	0.1 U	0.375 J	1.85
	2018 (September)	0.0412 UJ	0.484 J	3.97 J
	2019 (March)	0.05 UJ	0.611 J	3.29
	2019 (September)	0.05 U	0.2 U	3.17
	2020 (March)	0.5 U	0.5 U	4.97
	2020 (September)	0.5 U	0.5 U	2.13 J
	2021 (March)	0.4 U	1.0 U	1.8
	2021(September)	0.4 U	1.0 U	2.11
	2022 (March)	0.2 U	1.0 U	2.07
	2022 (September)	0.2 U	1.0 U	1.85
	2023 (March)	1.0 U	1.0 U	1.80 J
	2023 (September)	1.0 U	1.0 U	1.0 U
	2024 (May)	1.0 U	1.0 J	1.98 J
	2024 (September)	1.0 U	1.0 J	1.91 J

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Field duplicate sample results were averaged with parent sample results.

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		**µg/L**	**µg/L**	**µg/L**
USEPA MCL		*4*	*15*	*30*
OMW-31(I)	2002	0.0 U	2.0 U	0.67
	2004	0.158 U	1.72 U	0.982
	2005	0.13 U	0.57 U	1.42
	2006	0.088 U	0.49 U	1.81 J
	2007	1.0 U	4.8 U	
	2008	1.0 U	2.5 U	0.525 U
	2009	0.056 U	0.27 J	0.469 U
	2010	0.056 U	0.66	1.00 U
	2011	0.1 U	1.2	1.25
	2012	0.25 U	0.3 J	0.423
	2013	0.25 U	0.24 U	0.335
	2014	1.8	1.9	0.159 J
	2017	0.1 U	0.13	0.61
	2018 (April)	0.1 U	0.1 U	0.493
	2018 (September)	0.0412 UJ	0.328 UJ	0.8 J
	2019 (March)	0.05 UJ	0.2 U	0.796 J
	2019 (September)	0.05 U	0.2 U	0.2 U
	2020 (March)	0.5 U	0.5 U	1.25 U
	2020 (September)	0.5 U	0.5 U	1.25 U
	2021 (March)	0.4 U	1.0 U	0.172 J
	2021(September)	0.4 U	1.0 U	0.205
	2022 (March)	0.2 U	1.0 U	0.44
	2022 (September)	0.2 U	1.0 U	0.45
	2023 (March)	1.0 U	1.0 U	1.0 U
	2023 (September)	1.0 U	1.0 U	1.0 U
	2024 (May)	1.0 U	1.0 U	1.0 U
	2024 (September)	1.0 U	1.0 U	1.0 U

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Field duplicate sample results were averaged with parent sample results.

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
OMW-31(I) (Filtered)	2002	0.0 U	2.0 U	
	2004	0.158 U	1.72 U	
	2005	0.13 U	0.57 U	
	2006	0.088 U	0.49 U	
	2007	1.0 U	4.8 U	
	2008	1.0 U	2.5 U	
	2009	0.035 J	0.35	
	2010	0.056 U	0.22 J	
	2011	0.1 U	0.25 J	0.59
	2012	0.25 U	0.24 U	0.517
	2013	0.25 U	0.24 U	0.392
	2014	0.5 U	0.32 J	0.453
	2017	0.1 U	0.1 U	0.59
	2018 (April)	0.1 U	0.1 U	0.563
	2018 (September)	0.0412 UJ	0.328 UJ	0.892 J
	2019 (March)	0.05 UJ	0.2 U	0.924 J
	2019 (September)	0.05 U	0.2 U	0.2 U
	2020 (March)	0.5 U	0.5 U	1.25 U
	2020 (September)	0.5 U	0.5 U	1.25 U
	2021 (March)	0.4 U	1.0 U	0.231
	2021(September)	0.4 U	1.0 U	0.211
	2022 (March)	0.2 U	1.0 U	0.48
	2022 (September)	0.2 U	1.0 U	0.46
	2023 (March)	1.0 U	1.0 U	1.0 U
	2023 (September)	1.0 U	1.0 U	1.0 U
	2024 (May)	1.0 U	1.0 U	1.0 U
	2024 (September)	1.0 U	1.0 U	1.0 U

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Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
OMW-32(B)	2008	1.0 U	2.5 U	0.258 U
	2009	0.056 U	0.13 J	0.016 U
	2010	0.056 U	0.18 J	1.00 U
	2011	0.36 J	0.57	0.178 J
	2012	0.25 U	0.48 J	0.145 J
	2013	0.25 U	0.29 J	0.089 J
	2014	0.5 U	0.64 J	0.113 J
	2017	0.1 U	0.5	0.04
	2018 (April)	0.1 U	0.1 U	0.047 J
	2018 (September)	0.412 UJ	0.328 UJ	0.086 J
	2019 (March)	0.05 UJ	0.2 U	0.2 U
	2019 (September)	0.05 U	0.2 U	0.2 U
	2020 (March)	0.5 U	0.5 U	1.25 U
	2020 (September)	0.5 U	0.5 U	1.25 U
	2021 (March)	0.4 U	1.0 U	0.134 U
	2021(September)	0.4 U	1.01 J	1.04
	2022 (March)	0.2 U	1.0 U	0.10 J
	2022 (September)	0.2 U	1.0 U	0.10 U
	2023 (March)	1.0 U	1.0 U	1.0 U
	2023 (September)	1.0 U	1.0 U	1.0 U
	2024 (May)	1.0 U	1.0 U	1.0 U
	2024 (September)	1.0 U	1.0 U	1.0 U
OMW-32(B) (Filtered)	2008	1.0 U	2.5 U	
	2009	0.028 U	0.28	
	2010	0.056 U	0.18 J	
	2011	0.1 U	0.18 J	0.085 J
	2012	0.25 U	0.24 U	0.146 J
	2013	0.25 U	0.25 J	0.086 J
	2014	0.5 U	0.5 U	0.179 J
	2017	0.1 U	0.65	0.04
	2018 (April)	0.1 U	0.1 U	0.044 J
	2018 (September)	0.412 UJ	0.328 UJ	0.107 J
	2019 (March)	0.05 UJ	0.2 U	0.2 U
	2019 (September)	0.05 U	0.2 U	0.2 U
	2020 (March)	0.5 U	0.5 U	1.25 U
	2020 (September)	0.5 U	0.5 U	1.25 U
	2021 (March)	0.4 U	1.0 U	0.134 U
	2021(September)	0.4 U	3.48	1.03
	2022 (March)	0.2 U	1.0 U	0.16 J
	2022 (September)	0.2 U	1.0 U	0.10 U
	2023 (March)	1.0 U	1.0 U	1.0 U
	2023 (September)	1.0 U	1.0 U	1.0 U
	2024 (May)	1.0 U	1.0 U	1.0 U
	2024 (September)	1.0 U	1.0 U	1.0 U

Notes:	
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Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
PW(E)	2002	0.0 U	2.0 U	0.52
	2004	0.158 U	1.72 U	0.502
	2008	1.0 U	**26.2**	0.249 U
	2009	0.17 J	**26**	0.103 U
	2010	0.098 J	**16**	1.00 U
	2011	0.1 U	0.54	0.157 J
	2013	0.25 U	6.9	0.273
	2014	0.5 U	10	0.268
	2017	0.1 U	2.82	0.14
	2018 (April)	0.1 U	1.65	0.031 U
	2018 (September)	0.412 UJ	0.328 UJ	0.0521 UJ
	2019 (April)	0.05 U	0.212 J	0.329 J
	2019 (September)	0.086 J	3.52 J	0.784 J
	2020 (March)	0.5 U	0.92 J	1.25 U
	2020 (September)	0.5 U	7.33	1.25 U
	2021 (March)	0.4 U	1.43 J	0.702
	2021(September)	0.4 U	1.31 J	0.271
	2022 (March)	0.2 U	1.0 U	0.22
	2022 (September)	0.2 U	1.0 U	0.37
	2023 (March)	1.0 U	1.0 U	1.0 U
	2023 (September)	1.0 U	1.0 U	1.0 U
	2024 (May)	1.0 U	1.0 U	1.0 U
	2024 (September)	1.0 U	1.0 U	1.0 U
PW(E) (Filtered)	2002	0.0 U	2.0 U	
	2004	0.158 U	3.2 J	
	2008	1.0 U	4.0 B	
	2009	0.028 J	0.56	
	2010	0.056 U	0.18 J	
	2011	0.1 U	0.12 J	0.332
	2013	0.25 U	0.24 U	0.266
	2014	0.5 U	0.5 U	0.28
	2017	0.1 U	0.24	0.14
	2018 (April)	0.1 U	0.1 U	0.032 J
	2018 (September)	0.412 UJ	0.328 UJ	0.0521 UJ
	2019 (April)	0.05 U	0.214 J	0.309 J
	2019 (September)	0.271 J	0.801 J	0.917 J
	2020 (March)	0.5 U	0.5 U	1.25 U
	2020 (September)	0.5 U	0.566 J	1.25 U
	2021 (March)	0.4 U	0.998 J	0.645
	2021(September)	0.4 U	1.0 U	0.267
	2022 (March)	0.2 U	1.0 U	0.21
	2022 (September)	0.2 U	1.0 U	0.37
	2023 (March)	1.0 U	1.0 U	1.0 U
	2023 (September)	1.0 U	1.0 U	1.0 U
	2024 (May)	1.0 U	1.0 U	1.0 U
	2024 (September)	1.0 U	1.0 U	1.0 U

Notes:	
U	The analyte was analyzed for but not detected. The associated value is the compound limit of detection.
UJ	The analyte was analyzed for but not detected. The associated limit of detection is an estimate.
R	Result was rejected because of quality issues
J	Result is estimated
B	Constituent also detected in laboratory blank
blank cells	Not analyzed
bold entries highlighted orange	Result exceeds USEPA Maximum Contaminant Level (MCL) for protection of drinking water
µg/L	micrograms per liter
1	Anomalous result; should not be used in data trending.

Field duplicate sample results were averaged with parent sample results.

Table 2: Analytical Results

Well	Year	Beryllium	Lead	Total Uranium
Units		µg/L	µg/L	µg/L
USEPA MCL		*4*	*15*	*30*
PW(W)	2004	**4.1 J**	1.72 U	8.04
	2008	**11.3**	2.5 U	4.14
	2009	**13**	2.20	3.74
	2010	**7.5**	1.30	3.73
	2011	**6.8**	0.91	3.64
	2013	**7.5**	1.20	2.90
	2014	**4.6**	0.55 J	2.60
	2017	1.18	2.69	6.60
	2018 (April)	0.1 U	8.85	0.416
	2018 (September)	0.052 UJ	**22 J**	0.734 J
	2019 (April)	0.05 U	8.68	1.01
	2019 (September)	0.303 J	6.88 J	0.77 J
	2020 (March)	0.5 U	7.52	1.25 U
	2020 (September)	0.5 U	5.51	1.25 U
	2021 (March)	0.4 U	1.9 J	0.734
	2021(September)	0.4 U	3.4	0.996
	2022 (March)	0.2 U	4.46	0.90
	2022 (September)	0.2 U	1.82 J	0.89
	2023 (March)	1.0 U	5	2.42
	2023 (September)	1.0 U	2.0	.83 J
	2024 (May)	1.0 U	5	1.56 J
	2024 (September)	1.0 U	2.8	0.85 J
PW(W) (Filtered)	2004	**4.4 J**	6.50	
	2008	**11**	2.5 U	
	2009	**18**	1.60	
	2010	**8.7**	0.85	
	2011	**6.6**	0.71	3.58
	2013	**7.1**	0.42 J	2.89
	2014	**5.3**	0.38 J	3.01
	2017	0.74	0.60 J	6.50
	2018 (April)	0.1 U	1.04	0.449
	2018 (September)	0.412 UJ	2.10 J	0.683 J
	2019 (April)	0.05 U	1	1.02
	2019 (September)	0.216 J	0.736 J	0.723 J
	2020 (March)	0.5 U	0.567 J	1.25 U
	2020 (September)	0.5 U	1.06	1.25 U
	2021 (March)	0.4 U	1.0 U	0.726
	2021(September)	0.4 U	1.0 J	1.02
	2022 (March)	0.2 U	1.51 J	0.94
	2022 (September)	0.2 U	1.0 U	0.88
	2023 (March)	1.0 U	2	2.39
	2023 (September)	1.0 U	1.0 J	.84 J
	2024 (May)	1.0 U	2	1.67 J
	2024 (September)	1.0 U	1.0 U	0.86 J

Notes:	
U	The analyte was analyzed for but not detected. The associated value is the compound limit of detection.
UJ	The analyte was analyzed for but not detected. The associated limit of detection is an estimate.
R	Result was rejected because of quality issues
J	Result is estimated
B	Constituent also detected in laboratory blank
blank cells	Not analyzed
bold entries highlighted orange	Result exceeds USEPA Maximum Contaminant Level (MCL) for protection of drinking water
µg/L	micrograms per liter
1	Anomalous result; should not be used in data trending.

Field duplicate sample results were averaged with parent sample results.

Table 3: Summary of Mann-Kendall Test Results for Large Sample Size

Well	Constituent	Sample Size (n)	Test Statistic (z)	Critical Value ($Z_{1-\alpha}$)[1]	Conclusion	Notes
GW0002	total beryllium	27	test not performed[2]		No discernable trend	All results < MCL; 24 of 27 results < detection limit
GW0002	filtered beryllium	27	test not performed[2]		No discernable trend	All results < MCL; 25 of 27 results < detection limit
GW0002	total lead	27	-0.82	-1.28	No trend	All results < MCL; 11 of 27 results < detection limit
GW0002	filtered lead	27	-1.28	-1.28	No trend	All results < MCL; 18 of 27 results < detection limit
GW0002	total uranium	26	0.09	1.28	No trend	All results < MCL; 10 of 26 results < detection limit
GW0002	filtered uranium	19	0.04	1.28	No trend	All results < MCL; 6 of 19 results < detection limit
MW-01(I)	total beryllium	26	-1.17	-1.28	No trend	All results > MCL
MW-01(I)	filtered beryllium	26	-0.37	-1.28	No trend	All results > MCL
MW-02(S)	total beryllium	26	-1.54	-1.28	Downward trend	All results > MCL
MW-02(S)	filtered beryllium	27	-1.48	-1.28	Downward trend	26 of 27 results > MCL; Zero results < detection limit
MW-21(I)	total lead	26	-3.99	-1.28	Downward trend	21 of 26 results > MCL; Zero results < detection limit
MW-21(I)	filtered lead	26	-4.37	-1.28	Downward trend	20 of 26 results > MCL; Zero results < detection limit
MW-21(I)	total uranium	25	-2.06	-1.28	Downward trend	12 of 25 results > MCL; Zero results < detection limit
MW-21(I)	filtered uranium	18	-4.24	-1.28	Downward trend	8 of 18 results > MCL; Zero results < detection limit
MW-22R(I)	total beryllium	17	-0.95	1.28	No trend	All results > MCL
MW-22R(I)	filtered beryllium	18	-1.36	1.28	No trend	All results > MCL
PW(E)	total lead	23	-3.23	-1.28	Downward trend	3 of 23 results > MCL; 9 of 23 results < detection limit
PW(E)	filtered lead	23	-0.82	-1.28	No trend	All results < MCL; 13 of 23 results < detection limit

1 Critical values at 90% level of confidence

2 The Mann-Kendall Test was not performed on beryllium at GW0002 since the majority of the results have been below the detection limit and the few results above the detection limit have all been below the MCL.