## Fourth Annual Groundwater Monitoring and Corrective Action Report

Richmond Power and Light Whitewater Valley Station Impoundment Richmond, Indiana

GAI Project Number: C151119.25, Task 004.004

August 2022



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#### 1.0 Introduction

Title 40 Code of Federal Regulations (CFR) §257.90 mandates that existing Coal Combustion Residual (CCR) landfills and surface impoundments, also known as CCR units, be subject to groundwater monitoring and corrective action requirements as further detailed in §257.90 through §257.98. These requirements are part of the overall CCR Rule (Rule) which was published in the Federal Register on April 17, 2015 and which became effective on October 19, 2015. Specific obligations for Owners and Operators of existing CCR units regarding the preparation of "Annual Groundwater Monitoring and Corrective Action Reports (Annual Report)" are outlined in §257.90(e)(1-5). The Richmond Power and Light (RPL) inactive surface impoundment (Impoundment) was addressed under Section §257.100, which allowed for an exemption from many of the Rule requirements and compliance deadlines.

The Rule was amended on August 5, 2016 and the amendment became effective on October 4, 2016. It amended Section §257.100 by removing the exemptions for inactive CCR surface impoundments. The amendment changed the status of inactive CCR impoundments such that they were treated as other CCR units. They were therefore given an extension of the compliance deadlines of 547 days. As a result, the first Annual Report for the Impoundment was placed within the facility's operating record in August 2019. The second and third Annual Reports were placed within the facility's operating record in July 2020 and August 2021, respectively. The fourth Annual Report will be placed within the facility's operating record in August 2022.

The Annual Report must provide information to address the following aspects for the preceding calendar year:

- document the status of the groundwater monitoring and corrective action program for the respective CCR units;
- summarize key actions completed;
- describe any problems encountered and actions taken to resolve the problems; and
- offer a projection of key activities for the upcoming year.

At a minimum, the Annual Report must contain the following information to the extent applicable and available:

- a map, aerial image, or diagram showing the CCR unit and all background/upgradient and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program;
- identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;
- in addition to all the monitoring data obtained under §257.90 through §257.98, a summary including the number of groundwater samples that were collected for analysis for each background/upgradient and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring (DM) or assessment monitoring (AM) programs;
- a narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from DM to AM in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and
- any other information required to be included as specified in §257.90 through §257.98.



The RPL Whitewater Valley Station (Station), is a coal-fired power plant located in Richmond, Wayne County, Indiana (see Figure 1). The Rule applies to this facility because the Station is in operation and has an inactive CCR Surface Impoundment. The CCR unit has a dedicated groundwater monitoring system that was originally installed to comply with Indiana Department of Environmental Management (IDEM) recommendations and was subsequently evaluated and modified (as needed) for use under the CCR program.

In summary, this fourth Annual Report has been prepared to comply with the requirements of §257.90(e), addressing the Whitewater Valley Station's CCR Unit with respect to the groundwater monitoring and corrective actions undertaken from July 2021 through July 2022. This fourth Annual Report and all subsequent reports thereto will be placed in the Station's operating record per §257.105(h)(1), noticed to the State Director per §257.106(h)(1), and posted to the publicly accessible internet site per §257.107(h)(1).

## 2.0 Impoundment

#### 2.1 Groundwater Monitoring Network

The CCR groundwater monitoring system for the Impoundment is a subset of the larger site groundwater monitoring system established during original interactions with IDEM regarding the groundwater characterization and monitoring for the site. That larger site system, which is shown on Figure 2, is composed of:

- eight monitoring well (MW) pairs (shallow and deep wells designated as S and D) at locations A through H;
  - there is a third well at location G, a shallow well designated as MW-GSR, installed in place of MW-GS, which was found to have insufficient water for monitoring purposes.
  - it was determined during the characterization that the deep wells in each well pair would only be used as piezometers.
- seven single, shallow monitoring wells at locations IS through OS;
- two older, shallow wells designated as MW-1 and MW-2 (used only as piezometers);
- nine staff gauges and/or piezometers associated with the groundwater MWs are:
  - five staff gauges (A-1, A-2, A-3, A-4, and P-4) to monitor pond levels; and
  - four piezometers (PZ-1703, PZ-1704, PZ-1705, and PZ-1706).

Piezometers PZ-1701 and PZ-1702 have been abandoned.

The monitoring wells at locations A through H were installed in 2016. The monitoring wells at locations IS and JS were installed in March 2018. The monitoring wells at locations KS through OS were installed in July 2020.

The CCR groundwater monitoring system is comprised of six wells within the larger site groundwater monitoring system, including one upgradient well (MW-AS) and four downgradient wells (MW-BS, MW-CS, MW-DS, and MW-JS). Note that MW-FS and MW-GSR were previously used as background wells but have since been discontinued as background wells based off IDEM's comments that background wells should be unaffected by facility operations. The screened intervals of the wells monitor the uppermost aquifer on site, a soil aquifer composed of a continuous confined, sand or sand and gravel layer located within or at the base of the glacial till which blankets the site. Figure 3 shows a potentiometric map of the uppermost aquifer based upon water level readings taken during the last round of AM samples in March 2022.



Off-site downgradient monitoring wells (KS, LS, MS, NS, and OS) were installed as part of ongoing groundwater characterization to delineate the extent of the identified release from the CCR unit.

#### 2.2 Data Collection

Per the requirements of §257.95, AM sampling began in September 2019. Samples were collected and analyzed for all Appendix III and Appendix IV parameters. The second AM sampling occurred in December 2019 and samples were analyzed for the Appendix III parameters and for Appendix IV parameters that were detected during the first AM. The third AM sampling occurred in March 2020 and samples were analyzed for the Appendix III parameters and for Appendix IV parameters that were detected during the second AM. The fourth AM sampling occurred in September 2020 and samples were analyzed for all Appendix III and Appendix IV parameters. The fifth AM sampling occurred in March 2021 and samples were analyzed for the Appendix III parameters and for Appendix IV parameters that were detected during the fourth AM. The sixth AM sampling occurred in September 2021 and samples were analyzed for all Appendix III and for Appendix IV parameters that were detected during the fifth AM. The seventh AM sampling occurred in March 2022 and samples were analyzed for all Appendix III and Appendix IV parameters. Due to uncharacteristically high radium-226. radium-228, and total radium results at wells MW-ES, MW-KS, MW-LS, MW-MS, and MW-OS, resamples were collected in June 2022 for those parameters. The results from all seven AM samplings for the Appendix III and Appendix IV parameters are summarized in the attached Tables 1 and 2, respectively.

Groundwater Protection Standards (GPSs) were determined for the Appendix IV parameters for samples collected in September 2021 and March 2022 and are summarized in Table 3. During the December 2021 and June 2022 reviews of the sixth and seventh AM sampling events, Lower Confidence Limits (LCLs) were determined and compared to the GPSs, as shown in Table 4. It was determined that there were statistically significant levels (SSLs) of total lithium in downgradient wells MW-BS, MW-CS, and MW-DS; and total molybdenum in downgradient monitoring well MW-BS.

#### 2.3 Monitoring Program Transitions

The Impoundment has been transitioned into the Assessment of Corrective Measures (ACMs), based upon the May 2020 review of the March 2020 AM sampling results.

#### 2.4 Corrective Actions

Completed 2021-2022 activities included the following:

- A public meeting was held on June 28, 2021 to discuss the ACM Report completed in September 2020.
- Semi-Annual Progress Reports describing the progress in selecting and designing a remedy based on the ACM were placed into the operating record in April 2021, September 2021 and May 2022, as required by §257.97(a).
- Site investigations occurred in December 2021. Investigations consisted of drilling borings along the perimeter of the impoundment and through the interior to determine parameters such as depth and extent of CCR material, depth and extent of clay material, and permeability of material underlying the CCR.
- The commencement of initial design activities for Impoundment closure.



### 2.5 2022-2023 Projected Activities

Projected key activities for the upcoming year include the following:

- Semi-Annual Progress Reports detailing progress in selecting and designing corrective measure(s).
- Preparation of closure plan for Impoundment. The closure plan will include proposed corrective measure(s) for groundwater. The closure plan will be submitted to IDEM for approval.
- Semi-annual groundwater sampling events to be initiated in September 2022 and March 2023.



## **TABLES**



Table 1

Groundwater Analytical Assessment Monitoring Data - CCR Appendix III Constituents

	Parameter:	Boron, Total	Calcium, Total	Chloride	Fluoride	рН	Sulfate	Total Dissolved Solids
Well	Date Unit <sup>1</sup> :	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
	9/16/2019	0.206	93.9	112	0.12	7.3	78.4	568
	12/3/2019	0.213	95.9	116	0.13	7.4	71.2	548
	3/17/2020	0.199	91.2	113	0.1	7.7	77.3	522
MW-AS	9/16/2020	0.186	101	148	0.1	7.6	72	602
	3/16/2021	0.195	103	138	0.1	7.4	82.6	624
	9/8/2021	0.202	105	145	0.13	7.2	83.9	629
	3/15/2022	0.239	118	142	< 0.10 <sup>2</sup>	7.5	87.8	654
	9/16/2019	4.4	400	224	0.25	7.4	1,300	2,430
	12/3/2019	4.12	393	191	0.23	7.4	1,180	2,280
	3/18/2020	4.38	371	212	0.27	7.7	1,210	2,180
MW-BS	9/16/2020	4	356	197	0.23	7.6	1,200	2,120
	3/16/2021	4.01	333	188	0.24	7.5	1,140	2,150
	9/8/2021	4.11	365	188	0.25	7.4	1,030	2,060
	3/16/2022	4.35	345	162	0.23	7.5	1,010	2,070
	9/16/2019	2.23	275	97.4	0.37	7.2	838	1,600
	12/4/2019	2.35	248	90.2	0.2	7.3	640	1,460
	3/18/2020	2.08	271	107	0.33	7.6	843	1,670
MW-CS	9/16/2020	2.73	261	93.3	0.36	7.5	772	1,530
	3/16/2021	2.73	261	89.6	0.34	7.4	738	1,550
	9/8/2021	2.82	260	73.8	0.39	7.3	675	1,430
	3/16/2022	2.4	249	51.4	0.32	7.3	519	1,290
	9/16/2019	7.46	432	173	0.11	7.0	1,100	2,320
	12/4/2019	7.15	417	178	< 0.10	7.3	1,110	2,310
	3/17/2020	6.3	365	137	< 0.10	7.4	960	1,960
MW-DS	9/17/2020	6.75	387	149	0.11	7.6	1,020	2,190
	3/17/2021	5.57	379	144	< 0.10	7.6	1,000	2,050
	9/9/2021	6.06	409	168	0.11	7.2	1,360	2,120
	3/16/2022	5.03	344	131	< 0.10	7.7	809	1,860
	9/17/2019	1.44	226	49.3	0.18	7.0	351	1,060
	12/3/2019	0.844	152	14.3	0.15	7.1	80.9	561
	3/17/2020	0.837	159	8.7	0.12	7.6	62.1	493
MW-JS <sup>1</sup>	9/17/2020	1.64	344	234	0.19	7.3	714	1,740
	3/17/2021	0.763	158	34	0.12	7.1	100	498
	9/8/2021	1.62	504	555	0.16	7.0	1,060	3,480
	3/16/2022	1.17	408	676	< 0.10	7.1	1,020	2,530

- mg/L milligrams per liter; and s.u. standard units.
- 2 < Represents non-detect. Values are shown at the laboratory reporting limit.</p>
- Well was installed on March 23, 2018.



Table 2

Groundwater Analytical Assessment Monitoring Data - CCR Appendix IV Constituents

	Parameter:	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Chromium, Total	Cobalt, Total	Fluoride	Lead, Total	Lithium, Total	Mercury, Total	Molybdenum, Total	Total Radium <sup>1</sup>	Selenium, Total	Thallium, Total
Well	Date Unit <sup>2</sup> :	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L
	9/16/2019	< 0.0010 <sup>3</sup>	< 0.0010	0.0913	< 0.00020	< 0.00020	< 0.00020	< 0.0010	0.12	< 0.0010	< 0.020	< 0.0020	0.0055	1.83	< 0.0010	< 0.0010
	12/3/2019		< 0.0010	0.087		< 0.00020	< 0.00020	< 0.0010	0.13	< 0.0010	< 0.020		0.0055	0.776	< 0.0010	
	3/17/2020		0.0010	0.0826		< 0.00020	< 0.0020	< 0.0010	0.10	< 0.0010	< 0.020		0.005	0.783	< 0.0010	
MW-AS	9/16/2020	< 0.0010	< 0.0010	0.0971	< 0.00020	< 0.00020	< 0.0020	< 0.0010	0.10	< 0.0010	< 0.020	< 0.0020	0.0042	0.199	< 0.0010	< 0.0010
	3/16/2021	< 0.0010	0.0017	0.0886	< 0.00020	< 0.00020	< 0.0020	< 0.0010	0.10	< 0.0010	< 0.020	< 0.0020	0.0037	0.693	< 0.0010	< 0.0010
	9/8/2021	< 0.0010	< 0.0010	0.103	< 0.00020	< 0.00020	< 0.0020	< 0.0010	0.13	< 0.0010	< 0.020	< 0.0020	0.004	0.549	< 0.0010	< 0.0010
	3/15/2022	< 0.0010	0.0017	0.103	< 0.00020	< 0.00020	< 0.0020	< 0.0010	< 0.10	< 0.0010	< 0.020	< 0.0020	0.0036	0.695	< 0.0010	< 0.0010
	9/16/2019	< 0.0010	< 0.0010	0.0202	< 0.00020	< 0.00020	< 0.00020	0.0014	0.25	< 0.0010	0.0608	< 0.0020	0.116	1.76	< 0.0010	< 0.0010
	12/3/2019		< 0.0010	0.0193		< 0.00020	< 0.00020	0.0012	0.23	< 0.0010	0.0827		0.119	1.04	< 0.0010	
	3/18/2020		< 0.0010	0.0195		< 0.00020	< 0.0020	0.0013	0.27	< 0.0010	0.0803		0.108	0.564	< 0.0010	
MW-BS	9/16/2020	< 0.0010	< 0.0010	0.0189	< 0.00020	< 0.00020	< 0.0020	0.0013	0.23	< 0.0010	0.0842	< 0.0020	0.116	1.62	< 0.0010	< 0.0010
	3/16/2021	< 0.0010	< 0.0010	0.0173	< 0.00020	< 0.00020	< 0.0020	0.0013	0.24	< 0.0010	0.0779	< 0.0020	0.113	0.37	< 0.0010	< 0.0010
	9/8/2021	< 0.0010	< 0.0010	0.0181	< 0.00020	< 0.00020	< 0.0020	0.0012	0.25	< 0.0010	0.0666	< 0.0020	0.116	0.854	< 0.0010	< 0.0010
	3/16/2022	< 0.0010	< 0.0010	0.0182	< 0.00020	< 0.00020	< 0.0020	0.0012	0.23	< 0.0010	0.0765	< 0.0020	0.115	0.651	< 0.0010	< 0.0010
	9/16/2019	< 0.0010	0.0017	0.0248	< 0.00020	< 0.00020	< 0.00020	0.0023	0.37	< 0.0010	0.0432	< 0.0020	0.126	0.937	< 0.0010	< 0.0010
	12/4/2019		0.0014	0.0211		< 0.00020	< 0.00020	0.0014	0.2	< 0.0010	0.0598		0.11	0.195	0.0022	
	3/18/2020		0.0013	0.0248		< 0.00020	< 0.0020	0.0013	0.33	< 0.0010	0.0505		0.102	0.43	0.0053	
MW-CS	9/16/2020	< 0.0010	0.0017	0.0244	< 0.00020	< 0.00020	< 0.0020	0.0014	0.36	< 0.0010	0.0705	< 0.0020	0.126	0.946	0.0035	< 0.0010
	3/16/2021	< 0.0010	0.0015	0.022	< 0.00020	< 0.00020	< 0.0020	0.0015	0.34	< 0.0010	0.0603	< 0.0020	0.108	0.875	0.0057	< 0.0010
	9/8/2021	< 0.0010	0.0019	0.023	< 0.00020	< 0.00020	< 0.0020	0.0012	0.39	< 0.0010	0.0625	< 0.0020	0.101	0.272	0.0039	< 0.0010
	3/16/2022	< 0.0010	0.0018	0.0207	< 0.00020	< 0.00020	< 0.0020	0.0011	0.32	< 0.0010	0.0580	< 0.0020	0.0831	1.13	0.0108	< 0.0010
	9/16/2019	< 0.0010	< 0.0010	0.0306	< 0.00020	< 0.00020	< 0.00020	< 0.0010	0.11	< 0.0010	0.0422	< 0.0020	0.0091	1.4	< 0.0010	< 0.0010
	12/4/2019		< 0.0010	0.0267		< 0.00020	< 0.00020	< 0.0010	< 0.10	< 0.0010	0.0602		0.0083	0.464	< 0.0010	
	3/17/2020		< 0.0010	0.0233		< 0.00020	< 0.0020	< 0.0010	< 0.10	< 0.0010	0.0489		0.0062	0.336	< 0.0010	
MW-DS	9/17/2020	< 0.0010	< 0.0010	0.0302	< 0.00020	< 0.00020	< 0.0020	< 0.0010	0.11	< 0.0010	0.0620	< 0.0020	0.0073	0.567	< 0.0010	< 0.0010
	3/17/2021	< 0.0010	< 0.0010	0.0206	< 0.00020	< 0.00020	< 0.0020	< 0.0010	< 0.10	< 0.0010	0.0454	< 0.0020	0.0058	0.809	< 0.0010	< 0.0010
	9/9/2021	< 0.0010	< 0.0010	0.0272	< 0.00020	< 0.00020	< 0.0020	< 0.0010	0.11	< 0.0010	0.0431	< 0.0020	0.0063	0.511	< 0.0010	< 0.0010
	3/16/2022	< 0.0010	< 0.0010	0.0176	< 0.00020	< 0.00020	< 0.0020	< 0.0010	< 0.10	< 0.0010	0.0327	< 0.0020	0.0071	1.13	< 0.0010	< 0.0010
	9/17/2019	< 0.0010	0.0041	0.172	< 0.00020	0.0004	0.004	0.0052	0.18	0.0028	0.0348	< 0.0020	0.0265	1.33	0.0015	< 0.0010
	12/3/2019		0.0064	0.134		< 0.00020	0.0124	0.0046	0.15	0.0036	0.025		0.0176	1.2	0.0032	
	3/17/2020		0.0071	0.147		< 0.00020	0.0073	0.0051	0.12	0.0041	0.0282		0.017	0.976	0.0093	
MW-JS <sup>4</sup>	9/17/2020	< 0.0010	0.0052	0.145	< 0.00020	0.00039	0.0039	0.0056	0.19	0.0024	0.0782	< 0.0020	0.03	2.05	0.0012	< 0.0010
	3/17/2021	< 0.0010	0.0016	0.0727	< 0.00020	< 0.00020	< 0.0020	0.0016	0.12	< 0.0010	0.0258	< 0.0020	0.0109	0.62	0.0084	< 0.0010
	9/8/2021	< 0.0010	0.0086	0.170	0.00021	0.00057	0.0067	0.0093	0.16	0.004	0.0636	< 0.0020	0.0278	2.05	0.0021	< 0.0010
	3/16/2022	< 0.0010	0.0015	0.245	< 0.00020	0.00062	0.0022	0.0046	< 0.10	< 0.0010	0.0392	< 0.0020	0.0114	1.27	0.0048	< 0.0010

- <sup>1</sup> Total Radium is Radium-226 and Radium-228 combined
- <sup>2</sup> mg/L milligrams per liter; and pCi/L Picocuries per liter.
- < Represents non-detect. Values are shown at the laboratory reporting limit.</li>
- Well was installed on March 23, 2018.



Table 3
Groundwater Protection Standards Development

Chemical Name	Unit <sup>1</sup>	Samples	Detected	% Non-Detect	Transformed	Method	Upper Tolerance Limit	Federal Limit	Federal Limit Type <sup>2</sup>	GPS <sup>3</sup>
Antimony, Total	mg/L	11	0	100	No	Non-Parametric	0.001	0.006	MCL	0.006
Arsenic, Total	mg/L	13	3	76.9	No	Non-Parametric	0.0017	0.01	MCL	0.01
Barium, Total	mg/L	13	13	0.0	No	Parametric	0.134	2	MCL	2
Beryllium, Total	mg/L	11	0	100	No	Non-Parametric	0.0002	0.004	MCL	0.004
Cadmium, Total	mg/L	13	0	100	No	Non-Parametric	0.0002	0.005	MCL	0.005
Chromium, Total	mg/L	13	0	100	No	Non-Parametric	0.002	0.1	MCL	0.1
Cobalt, Total	mg/L	13	0	100	No	Non-Parametric	0.001	0.006	RSL	0.006
Fluoride	mg/L	14	11	21.4	No	Parametric	0.168	4	MCL	4
Lead, Total	mg/L	13	0	100	No	Non-Parametric	0.001	0.015	RSL	0.015
Lithium, Total	mg/L	13	0	100	No	Non-Parametric	0.02	0.040	RSL	0.040
Mercury, Total	mg/L	11	0	100	No	Non-Parametric	0.002	0.002	MCL	0.002
Molybdenum, Total	mg/L	13	13	0.0	No	Parametric	0.006	0.1	RSL	0.1
Total Radium	pCi/l	13	13	0.0	No	Parametric	2.363	5	MCL	5
Selenium, Total	mg/L	13	0	100	No	Non-Parametric	0.001	0.05	MCL	0.05
Thallium, Total	mg/L	11	0	100	No	Non-Parametric	0.001	0.002	MCL	0.002

- <sup>1</sup> mg/L milligrams per liter; and pCi/L Picocuries per liter.
- MCL United States Environmental Protection Agency (USEPA) Maximum Contaminant Level; and RSL USEPA Regional Screening Level.
- <sup>3</sup> GPS is defined as the higher of the federal limit and the calculated site specific background.



Table 4
Groundwater Protection Standard and Lower Confidence Level Comparison

			LCL <sup>1</sup>										
		Location ID:	MW-BS		MW-CS		MW-DS		MW-JS				
Parameter	GPS	Units <sup>2</sup>	September 2021	March 2022	September 2021	March 2022	September 2021	March 2022	September 2021	March 2022			
Antimony, Total	0.006	mg/L	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
Arsenic, Total	0.01	mg/L	0.001	0.001	0.0013	0.0013	0.001	0.001	0.002	0.002			
Barium, Total	2	mg/L	0.019	0.019	0.0210	0.0205	0.0263	0.0233	0.117	0.121			
Beryllium, Total	0.004	mg/L	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002			
Cadmium, Total	0.005	mg/L	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002			
Chromium, Total	0.1	mg/L	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.0013			
Cobalt, Total	0.006	mg/L	0.0014	0.0014	0.0017	0.0016	0.001	0.001	0.002	0.002			
Fluoride	4	mg/L	0.183	0.186	0.250	0.255	0.10	0.10	0.145	0.116			
Lead, Total	0.015	mg/L	0.001	0.001	0.001	0.001	0.001	0.001	0.0014	0.0014			
Lithium, Total	0.040	mg/L	0.0772 <sup>3</sup>	0.0772	0.058	0.058	0.0494	0.0477	0.0243	0.026			
Mercury, Total	0.002	mg/L	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002			
Molybdenum, Total	0.1	mg/L	0.116	0.116	0.0996	0.0979	0.007	0.007	0.0181	0.0170			
Total Radium	5	pCi/l	0.813	0.799	0.447	0.488	0.433	0.472	0.966	1.00			
Selenium, Total	0.05	mg/L	0.001	0.001	0.0015	0.0018	0.001	0.001	0.003	0.003			
Thallium, Total	0.002	mg/L	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			

- LCLs were determined for samples collected during the sixth and seventh Assessment Monitoring events in September 2021 and March 2022, respectively.
- <sup>2</sup> mg/L milligrams per liter; and pCi/L Picocuries per liter.
- <sup>3</sup> Highlighted values indicate a SSL.



## **FIGURES**







