March 2025 (Thirteenth Assessment) Semi-Annual Sampling Analytical Results
RPL Whitewater Valley Station
Richmond, Indiana

Chemical Name	Location ID:	UPGRADIENT				DOWNGRADIENT											
		MW-AS	MW-FS	MW-FS DUP	MW-GSR	MW-BS	MW-CS	MW-DS	MW-ES	MW-HS	MW-IS	MW-JS	MW-KS[1]	MW-LS[1]	MW-MS[1]	MW-NS[1]	MW-OS[1]
	Sample Date:	3/19/2025	3/19/2025	3/19/2025	3/19/2025	3/18/2025	3/18/2025	3/19/2025	3/18/2025	3/18/2025	3/19/2025	3/18/2025	3/18/2025	3/18/2025	3/18/2025	3/18/2025	3/19/2025
	Unit																
Antimony, Total[2]	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic, Total[2]	mg/L	ND	ND	ND	ND	ND	0.0018	ND	0.0028	0.0029	ND	ND	0.0125	0.0016	0.0021	ND	0.0051
Barium, Total[2]	mg/L	0.0997	0.0184	0.0183	0.0110	0.0180	0.0218	0.0194	0.0432	0.0517	0.0184	0.0779	0.0781	0.0336	0.0399	0.0253	0.0686
Beryllium, Total[2]	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00031	ND	ND	ND	ND
Boron, Total	mg/L	0.212	11.1	11.2	1.09	4.34	2.27	5.1	4.57	1.08	2.1	0.615	8.25	3.6	2.54	1.59	2.26
Cadmium, Total[2]	mg/L	ND	ND	ND	ND	ND	ND	ND	0.00024	ND	ND	ND	0.00039	ND	ND	ND	ND
Calcium, Total	mg/L	108	326	325	509	283	248	347	312	231	294	123	431	290	257	152	232
Chloride	mg/L	157	32.6	32.3	54.1	145	49.6	154	40.0	149	484	217	99.5	92.5	79.4	79.4	68.3
Chromium, Total[2]	mg/L	ND	ND	ND	ND	ND	ND	ND	0.0036	ND	ND	ND	0.0132	0.0027	0.0031	ND	0.0050
Cobalt, Total[2]	mg/L	ND	0.0014	0.0013	0.0103	0.0011	ND	ND	0.0022	0.0019	0.0066	0.0025	0.0068	0.0016	0.0026	ND	0.0029
Fluoride[2]	mg/L	0.11	ND	ND	0.18	0.31	0.25	ND	0.11	0.39	0.36	0.10	0.17	ND	ND	ND	0.17
Lead, Total[2]	mg/L	ND	ND	ND	ND	ND	ND	ND	0.0031	ND	ND	ND	0.0139	0.0019	0.0027	ND	0.0046
Lithium, Total[2]	mg/L	ND	0.215	0.219	0.128	0.0756	0.0642	0.0461	0.0928	0.0532	0.0287	ND	0.168	0.0722	0.0543	0.0377	0.0347
Mercury, Total[2]	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum, Total[2]	mg/L	0.0042	0.0683	0.0677	ND	0.108	0.0559	0.0072	0.0150	0.0320	0.0092	0.0091	0.0348	0.0140	0.0091	0.0171	0.0150
pH, Lab	s.u.	7.2	7.2	7.2	6.8	7.7	7.5	7.2	7.1	7.2	7.4	7.5	7.6	7.4	7.5	7.5	7.1
Radium-226[2]	pCi/L	1.02	0.0487	0.623	0.0472	-0.0452	0.0983	-0.135	-0.204	0.462	0.473	0.274	0.418	-0.153	0.208	0.319	-0.188
Radium-228[2]	pCi/L	0.326	1.29	0.376	0.788	0.849	0.698	0.345	0.258	0.703	0.640	-0.0236	0.122	0.351	-0.323	0.0278	0.320
Total Radium[2]	pCi/L	1.35	1.34	0.999	0.835	0.849	0.796	0.345	0.258	1.17	1.11	0.274	0.540	0.351	0.208	0.347	0.320
Selenium, Total[2]	mg/L	ND	ND	ND	ND	ND	0.0107	0.0011	0.0016	0.0397	ND	0.0073	0.0030	0.0014	0.0027	0.0030	0.0017
Sulfate	mg/L	91.4	843	850	1820	893	570	825	731	451	809	491	957	563	510	527	454
Thallium, Total[2]	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Dissolved Solids, Lab	mg/L	633	1440	1440	2890	1800	1280	1690	1580	1340	2280	580	1940	1400	1300	812	1080
Field Parameters[3]																	
Temperature	°C	13.37	12.60	12.60	12.77	12.88	10.58	11.17	17.14	12.29	12.36	13.56	7.00	8.90	9.90	10.56	12.65
Conductivity	mS/cm	1.36	2.15	2.15	3.79	2.76	2.08	2.75	2.18	2.08	3.50	1.18	2.89	1.46	1.99	1.33	1.75
pH	s.u.	6.60	6.53	6.53	6.18	6.69	6.47	6.48	7.19	6.16	6.52	6.64	6.42	6.14	6.61	6.91	6.84
Turbidity	NTU	0.0	0.00	0.00	0	1.76	0.00	0.00	150	0	7.39	12.3	383.0	132	84.5	5.1	330
Total Dissolved Solids	g/L	0.873	1.38	1.38	2.42	3.30	1.33	1.76	1.36	1.34	2.24	0.757	1.85	78.2	1.27	0.849	1.12
Dissolved Oxygen	mg/L	0.00	2.91	2.91	0	NA[4]	0.53	5.40	12	178	11.43	5.32	24.53	12.13	18.60	22.23	15.75
Oxygen-Reduction Potential	mV	-18	170	170	235	49	211	14	152	0.10	222	250	-5	235	239	212	215

Notes:

1 MW-KS, MW-LS, MW-MS, MW-NS, and MW-OS were installed in July 2020.

2 Shading of the chemical name indicates that the parameter is included in "Appendix IV to Part 257-Consituents for Assessment Monitoring" of the CCR Rule.

3 Field measurements recorded when the readings stabilized during purging.

4 An error occurred with the Dissolved Oxygen reading.

mg/L - milligrams per liter
$CaCO_3$ - calcium carbonate
s.u. - Standard Units
pCi/L - Picocuries per liter
°C - degrees Celsius
NTU - Nephelometric Turbidity Unit
g/L - grams per liter
mV - millivolts

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