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January 30, 2026

Mr. Brian Rath
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6200 Park Avenue, Suite 200
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2025 IDNR Template Tables
Neal South Energy Center Coal Combustion Residual (CCR) Monofill
Salix, Iowa
Permit 97-SDP-13-98C

Dear Mr. Rath:

GHD Services Inc. (GHD) has prepared Table 7 and Table 9 using the general format provided in the Iowa Department of Natural Resources' (IDNR's) *Annual Water Quality Report Template for Non-Municipal Landfills*. Table 7 and Table 9, provided in Attachment 1, are modified as approved during our January 23, 2025, telephone conversation with Geoffrey Spain (IDNR) and Josh Love of MidAmerican Energy Company. A comparison of the IDNR Action Levels from 567 Iowa Administrative Code (IAC) Chapter 103 to the criteria specified in the federal CCR rule (40 Code of Federal Regulations [CFR] §257) is provided in Attachment 2.

In Attachment 3, the 2025 groundwater monitoring results are compared to the Maximum Contaminant Level (MCL) or Health Advisory Lifetime (HAL) as described in 567 IAC Chapter 103, Paragraph 103.1(4)d.

Attachment 4 provides a crosswalk table to reference the items provided in the Annual Groundwater Monitoring and Corrective Action Report prepared under the Federal CCR rule with the IDNR's *Annual Water Quality Report Template for Non-Municipal Landfills*.

Should you have any questions or require additional information regarding these tables, please do not hesitate to contact Kevin Armstrong of GHD.

Regards,



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Encl.: Attachment 1 - IDNR Template Table 7 and Table 9
Attachment 2 - Iowa CCR Rule and Federal CCR Rule Criteria Summary
Attachment 3 - MCL/HAL Comparison Table
Attachment 4 - IDNR Template to AGWMCAR Cross Reference Table

Copy to: Kenna Anderson, MidAmerican Energy Company
Josh Love, MidAmerican Energy Company

Attachments

Attachment 1

IDNR Template Table 7 and Table 9

Table 7

Summary of Ongoing and Newly Identified Control Limit Exceedances
2025 Annual Water Quality Report
Neal South Energy Center - CCR Monofill
Permit No. 97-SDP-13-98C

Well	Constituent	Units	Most recent result	Background Standard	Groundwater Protection Standard 40 CFR §257.95(h)
MW-2	Boron	mg/L	0.435/0.411	0.259	None
MW-4	Chloride	mg/L	22.1	21.79	None
MW-8	Boron	mg/L	2.29	0.259	None
	Molybdenum	mg/L	0.0115	0.00350	0.100
MW-10	Barium	mg/L	0.373	0.121 - 0.322	2.0
	Boron	mg/L	0.443	0.259	None
	Molybdenum	mg/L	0.00422	0.00350	0.100
MW-11	Chloride	mg/L	23.1	21.8	None
	Boron	mg/L	0.303	0.259	None
MW-12	Boron	mg/L	1.24	0.259	None
	Chloride	mg/L	89.2	21.79	None
	Sulfate	mg/L	438	409	None
	Selenium	mg/L	0.0593	0.0403	0.05
MW-13	Boron	mg/L	1.48	0.259	None
MW-14	Boron	mg/L	0.347	0.259	None
MW-15 (Background)	Boron	mg/L	0.339	0.259	None
	Chloride	mg/L	26	21.79	None
MW-16 (Background)	Barium	mg/L	0.324	0.121 - 0.322	2.0
MW-17 (Background)	None	--	--	--	--
MW-18 (Background)	None	--	--	--	--
MW-19	Boron	mg/L	0.487	0.259	None
	Chloride	mg/L	34.5	21.79	None
MW-20	Boron	mg/L	1.07	0.259	None
	Chloride	mg/L	61.5	21.79	None
	Sulfate	mg/L	423	409	None
	Total Dissolved Solids (TDS)	mg/L	1310	30.0 U - 1280	None
MW-21	Barium	mg/L	0.372	0.121 - 0.322	2.0

Comments:

Statistics are based on the background concentration (95/95 UTL Inter-well) developed in accordance with the Federal CCR rule.

Table 4.7 of the Annual Groundwater Monitoring and Corrective Action Report compares the MCL, GWPS, and background concentrations for the Appendix IV Parameters. The background concentration is used as the site-specific GWPS when higher than the MCL or GWPS.

Table 4.3 of the Annual Groundwater Monitoring and Corrective Action Report provides the 95/95 UTL background concentrations established for the Appendix III and IV analytes.

The following Appendix III/IV analyte(s) are compared to the 95/95 UTL background concentrations, no IDNR Action Level has been established: calcium, cobalt, and lithium.

The following Appendix III analyte(s) are compared to the 95/95 UTL background concentrations, which are higher than the IDNR Action Level: sulfate and TDS.

The following Appendix IV analyte(s) are compared to the 95/95 UTL background concentration, which is higher than the IDNR action level: arsenic and molybdenum.

Table 9
Historical Control Limit & GWPS Exceedances
2025 Annual Water Quality Report
Neal South Energy Center - CCR Monofill
Permit No. 97-SDP-13-98C

Key: gray =CL; black =GWPS		March 2020	September 2020	March 2021	September 2021	March 2022	September 2022	March 2023	September 2023	March 2024	June 2024	September 2024	March 2025	September 2025
Well	Constituent													
MW-2	Boron										ns			
	Chloride										ns			
	Arsenic										ns			
MW-4 (Background)	Boron										ns			
	Chloride										ns			
MW-8	Boron										na			
	Sulfate										na			
	Molybdenum										na			
	Selenium										na			
MW-10	Boron			ns							ns			
	pH, lab			ns							ns			
	Arsenic			ns							ns			
	Barium			ns							ns			
	Molybdenum			ns							ns			
	Radium-226 & 228			ns							ns			
MW-11	Boron										ns			
	Calcium										ns			
	Chloride										ns			
	Sulfate										ns			
	Total Dissolved Solids (TDS)										ns			
MW-12	Boron										na			
	Chloride										na			
	Sulfate										na			
	Total Dissolved Solids (TDS)										na			
	Cadmium										na			
	Cobalt										na			
	Lead										na			
	Lithium										na			
	Selenium										na			
MW-13	Boron										ns			
	Calcium										ns			
	Chloride										ns			
	Sulfate										ns			
	Total Dissolved Solids (TDS)										ns			
	Selenium										ns			
MW-14	Boron										na			
	Calcium										na			
	Chloride										na			
	Sulfate										na			
	Total Dissolved Solids (TDS)										na			
	Lead										na			
	Lithium										na			
	Radium-226 & 228										na			
MW-15 (Background)	Boron										na			
	Chloride										na			
	Sulfate										na			
	Total Dissolved Solids (TDS)										na			
	Selenium										na			
MW-16 (Background)	Boron										ns			
	Barium										ns			
	Selenium										ns			
MW-17 (Background)	Chloride										ns			
	Molybdenum										ns			
MW-18 (Background)	Sulfate										ns			
	Total Dissolved Solids (TDS)										ns			
	Arsenic										ns			
	Lithium										ns			
	Radium-226 & 228										ns			
MW-19	Boron										ns			
	Calcium										ns			
	Chloride										ns			
	pH, lab										ns			
	Sulfate										ns			
	Total Dissolved Solids (TDS)										ns			
	Cobalt										ns			
	Lithium										ns			
MW-20	Boron										ns			
	Sulfate										ns			
	Total Dissolved Solids (TDS)										ns			
	Chloride										ns			
MW-21	Barium										ns			
	Radium-226 & 228										ns			
	Thallium										ns			

Comments:

ns - No sample collected during this sampling event.

na - Constituent not analyzed.

Statistics are based on the background concentration (95/95 UTL Inter-well) developed in accordance with the Federal CCR rule.

Table 4.7 of the Annual Groundwater Monitoring and Corrective Action Report compares the MCL, GWPS, and background concentrations for the Appendix IV Parameters. The background concentration is used as the site-specific GWPS when higher than the MCL or GWPS.

Table 4.3 of the Annual Groundwater Monitoring and Corrective Action Report provides the 95/95 UTL background concentrations established for the Appendix III and IV analytes.

The following Appendix III/IV analyte(s) are compared to the 95/95 UTL background concentrations, no IDNR Action Level has been established: calcium, cobalt, and lithium.

The following Appendix III analyte(s) are compared to the 95/95 UTL background concentrations, which are higher than the IDNR Action Level: sulfate and TDS.

The following Appendix IV analyte(s) are compared to the 95/95 UTL background concentration, which is higher than the IDNR action level: arsenic and molybdenum.

 Grey shading indicates exceedance of the 95/95 UTL background concentration.

 Black shading indicates exceedance of the site-specific GWPS.

Attachment 2

Iowa CCR Rule and Federal CCR Rule Criteria Summary

Iowa CCR Rule and Federal CCR Rule Criteria Summary for Neal South Monofill Groundwater
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

		IDNR CCR Rule			Federal CCR Rule				Proposed Basis for Comparison on IDNR Template Tables
		567 IAC Chapter 103, paragraph 103.1(4)d			40 CFR 257.95(h)(1) - 40 CFR 257.95(h)(3)				
Analytes	Units	MCL ^a	HAL ^b	SDWR ^c	MCL ^a	CCR Rule GWPS ^d	Site-Specific Background ^e	Site-Specific GWPS	
Appendix III									
Boron	mg/L	--	6	--	--	--	0.259	none	Use HAL.
Calcium	mg/L	--	--	--	--	--	112 - 278	none	No MCL or HAL, so use background for comparison.
Chloride	mg/L	--	--	250	--	--	21.79	none	Use secondary MCL.
pH, lab	s.u.	--	--	6.5-8.5	--	--	6.9 - 7.8	none	Use secondary MCL.
Sulfate	mg/L	--	--	250	--	--	409	none	Use background for comparison (higher than secondary MCL)
TDS	mg/L	--	--	500	--	--	30.0 U - 1280	none	Use background for comparison (higher than secondary MCL)
Appendix IV									
Antimony	mg/L	0.006	0.006	--	0.006	--	0.00200 U	0.006 ^a	Federal site-specific GWPS equal to the MCL and HAL.
Arsenic	mg/L	0.01	--	--	0.01	--	0.0667	0.0667 ^a	Federal site-specific GWPS based on background (higher than the MCL).
Barium	mg/L	2.0	--	--	2.0	--	0.121 - 0.322	2.0 ^a	Federal site-specific GWPS equal to the MCL.
Beryllium	mg/L	0.004	--	--	0.004	--	0.00100 U	0.004 ^a	Federal site-specific GWPS equal to the MCL.
Cadmium	mg/L	0.005	0.005	--	0.005	--	0.000500 U	0.005 ^a	Federal site-specific GWPS equal to the MCL and HAL.
Chromium	mg/L	0.1	--	--	0.1	--	0.00500 U	0.1 ^a	Federal site-specific GWPS equal to the MCL.
Cobalt	mg/L	--	--	--	--	0.006	0.00724	0.00724 ^a	Federal site-specific GWPS based on background (no MCL or HAL).
Fluoride	mg/L	4.0	--	--	4.0	--	0.729	4.0 ^a	Federal site-specific GWPS equal to the MCL.
Lead	mg/L	0.015 ^f	--	2.0	--	0.015	0.000638	0.015 ^d	Federal site-specific GWPS equal to the MCL.
Lithium	mg/L	--	--	--	--	0.040	0.164	0.164 ^a	Federal site-specific GWPS based on background (no MCL or HAL).
Mercury	mg/L	0.002	0.002	--	0.002	--	0.000600 U	0.002 ^a	Federal site-specific GWPS equal to the MCL and HAL.
Molybdenum	mg/L	--	0.04	--	--	0.100	0.0035	0.100 ^d	Federal GWPS (higher than the HAL).
Radium-226 & 228	pCi/L	5	--	--	5	--	2.01	5 ^a	Federal site-specific GWPS equal to the MCL.
Selenium	mg/L	0.05	0.05	--	0.05	--	0.0403	0.05 ^a	Federal site-specific GWPS equal to the MCL.
Thallium	mg/L	0.002	--	--	0.002	--	0.00100 U	0.002 ^a	Federal site-specific GWPS equal to the MCL.

Notes:

-- - Not applicable.

U - Not detected at the associated reporting limit.

^a Maximum contaminant level (MCL) - used in both IDNR and Federal CCR rules.

^b Drink Water Health Advisory - Lifetime (HAL).

^c Secondary Drinking Water Regulation (SDWR).

^d Groundwater protection standard (GWPS) established under 40 CFR 257.95(h)(2).

^e Background concentration (95/95UTL) developed in accordance with the Federal CCR rule, determined from baseline data set for MW-16, MW-17, and MW-18 (40 CFR 257.95(h)(3)).

^f Action level for lead (treatment technique).

409 Federal site-specific GWPS varies from state action levels (MCL, HAL, SDWR).

Attachment 3

MCL/HAL Comparison Table

2025 Monitoring Analytical Results Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:					MW-2	MW-2	MW-2	MW-2	MW-4	MW-4	MW-8
Sample ID:	Units	MCL ^a	HAL ^b	SDWR ^c	MW02-GW-0325	DP01-GW-0325	MW02-GW-0925	DP01-GW-0925	MW04-GW-0325	MW04-GW-0925	MW08-GW-0325
Sample Date:					3/31/2025	3/31/2025	9/3/2025	9/3/2025	3/31/2025	9/4/2025	4/1/2025
Parameters						(Duplicate)		(Duplicate)			
Appendix III											
Boron	mg/L	--	6	--	0.440	0.424	0.435	0.411	0.242	0.195	2.27
Calcium	mg/L	--	--	--	178	173	168	152	93.3	84.6	177
Chloride	mg/L	--	--	250	<5.00	5.26	<5.00	<5.00	23.4	22.1	6.76
Fluoride	mg/L	4.0	--	2.0	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
pH, lab	s.u.	--	--	6.5 - 8.5	7.7 J	7.7 J	7.6 J	7.6 J	7.8 J	7.2 J	7.7 J
Sulfate ^e	mg/L	--	--	250	210	202	163	168	130	137	291
Total dissolved solids (TDS) ^e	mg/L	--	--	500	858	876	810	850	546	562	1080
Appendix IV											
Antimony	mg/L	0.006	0.006	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Arsenic ^e	mg/L	0.01	--	--	0.0166	0.0174	0.0165	0.0165	<0.00200	<0.00200	<0.00200
Barium	mg/L	2.0	--	--	0.184	0.184	0.221	0.201	0.0504	0.0496	0.0856
Beryllium	mg/L	0.004	--	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	0.005	0.005	--	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.000209
Chromium	mg/L	0.1	--	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	--	--	--	0.00573	0.00572	0.00377	0.00367	0.00163	0.00178	0.00147
Lead	mg/L	0.015 ^d	--	--	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	--	--	--	0.111	0.107	0.123	0.114	0.0501	0.0501	0.120
Mercury	mg/L	0.002	0.002	--	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum ^e	mg/L	--	0.04	--	0.00225	<0.00200	0.00245	0.00235	<0.00200	<0.00200	0.0104
Radium-226 & 228	pCi/L	5	--	--	1.31	0.272	1.31	1.19	0.829	0.558	0.983
Selenium	mg/L	0.05	0.05	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	mg/L	0.002	--	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

2025 Monitoring Analytical Results Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-8	MW-10	MW-10	MW-11	MW-11	MW-12	MW-12	MW-13	MW-13
Sample ID:		MW08-GW-0925	MW10-GW-0325	MW10-GW-0925	MW11-GW-0325	MW11-GW-0925	MW12-GW-0325	MW12-GW-0925	MW13-GW-0325	MW13-GW-0925
Sample Date:		9/4/2025	3/31/2025	9/3/2025	4/1/2025	9/3/2025	4/1/2025	9/3/2025	4/1/2025	9/3/2025
Parameters		Units								
Appendix III										
Boron	mg/L	2.29	0.435	0.443	0.340	0.303	1.23	1.24	1.51	1.48
Calcium	mg/L	147	111	113	206	202	255	210	214	181
Chloride	mg/L	9.45	9.56	8.59	17.8	23.1	72.7	89.2	12.3	9.15
Fluoride	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
pH, lab	s.u.	7.7 J	7.9 J	7.8 J	7.7 J	7.5 J	7.6 J	7.6 J	7.7 J	7.7 J
Sulfate °	mg/L	211	42.3	47.4	437	420	564	438	469	382
Total dissolved solids (TDS) °	mg/L	978	660	650	1170	1150	1460	1270	1270	1120

Appendix IV										
Antimony	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Arsenic °	mg/L	<0.00200	0.0355	0.0393	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Barium	mg/L	0.0947	0.301	0.373	0.0361	0.0305	0.0537	0.0417	0.0310	0.0277
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	0.00204	0.00132	0.00115	0.00692	0.00547	<0.000500	<0.000500	0.000515	0.000780
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.114	0.0680	0.0809	0.0935	0.0930	0.141	0.124	0.113	0.0991
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum °	mg/L	0.0115	0.00442	0.00422	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Radium-226 & 228	pCi/L	0.963	0.568	1.04	0.329	0.962	0.346	0.888	0.431	0.797
Selenium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0739	0.0593	0.0178	<0.00500
Thallium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

2025 Monitoring Analytical Results Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-14	MW-14	MW-15	MW-15	MW-16	MW-16	MW-17	MW-17	MW-18
Sample ID:		MW14-GW-0325	MW14-GW-0925	MW15-GW-0325	MW15-GW-0925	MW16-GW-0325	MW16-GW-0925	MW17-GW-0325	MW17-GW-0925	MW18-GW-0325
Sample Date:		3/31/2025	9/3/2025	3/31/2025	9/4/2025	3/31/2025	9/3/2025	3/31/2025	9/4/2025	3/31/2025
Parameters		Units								
Appendix III										
Boron	mg/L	0.346	0.347	1.25	0.339	0.203	0.180	0.233	0.204	0.249
Calcium	mg/L	190	201	116	105	139	133	147	143	171
Chloride	mg/L	6.10	<5.00	24.4	26.0	6.27	<5.00	14.2	15.5	<5.00
Fluoride	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
pH, lab	s.u.	7.6 J	7.5 J	7.8 J	7.1 J	7.7 J	7.6 J	7.8 J	7.6 J	7.8 J
Sulfate °	mg/L	205	248	279	186	51.7	63.7	105	97.9	127
Total dissolved solids (TDS) °	mg/L	934	1060	972	658	698	748 J	714	748	840

Appendix IV										
Antimony	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Arsenic °	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00395	0.00291	0.0237
Barium	mg/L	0.0609	0.0589	0.120	0.0816	0.295	0.324	0.124	0.104	0.123
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	0.00499	0.00264	0.00219	0.00316	0.000838	0.00110	0.000649	<0.000500	0.00265
Lead	mg/L	0.000880	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.122	0.130	0.0538	0.0617	0.0604	0.0556	0.0845	0.0772	0.139
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum °	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00336	0.00302	0.00233
Radium-226 & 228	pCi/L	0.718	0.351	0.865	1.15	0.548	1.08	1.67	1.68	1.26
Selenium	mg/L	<0.00500	0.00582	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

2025 Monitoring Analytical Results Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-18	MW-19	MW-19	MW-20	MW-20	MW-21	MW-21
Sample ID:		MW18-GW-0925	MW19-GW-0325	MW19-GW-0925	MW20-GW-0325	MW20-GW-0925	MW21-GW-0325	MW21-GW-0925
Sample Date:		9/4/2025	3/31/2025	9/3/2025	3/31/2025	9/3/2025	3/31/2025	9/3/2025
Parameters								
Appendix III								
Boron	mg/L	0.236	0.585	0.487	1.17	1.07	0.241	0.189
Calcium	mg/L	170	277	202	205	205	182	187
Chloride	mg/L	<5.00	57.7	34.5	80.0	61.5	8.72	8.32
Fluoride	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
pH, lab	s.u.	7.6 J	7.7 J	7.5 J	7.8 J	7.7 J	7.7 J	7.4 J
Sulfate ^e	mg/L	130	456	311	352	423	140	135
Total dissolved solids (TDS) ^e	mg/L	830	1490	1130	1170	1310	778	816

Appendix IV

Antimony	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Arsenic ^e	mg/L	0.0200	<0.00200	<0.00200	0.0136	0.0148	0.00786	0.00794
Barium	mg/L	0.119	0.137	0.0781	0.0886	0.0833	0.399	0.372
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	0.00356	0.00697	0.00280	0.00255	0.00109	0.00338	0.00600
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.140	0.169	0.148	0.110	0.118	0.0816	0.0864
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum ^e	mg/L	0.00219	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Radium-226 & 228	pCi/L	1.37	1.56	0.822	0.304	1.51	1.84	1.88
Selenium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Notes:

^a Maximum contaminant level (MCL) established in the 2018 Edition of the Drinking Water Standards and Health Advisories (EPA 822-F-18-001).

^b Drink Water Health Advisory - Life-time established in the 2018 Edition of the Drinking Water Standards and Health Advisories (EPA 822-F-18-001).

^c Secondary Drinking Water Regulation (SDWR) established in the 2018 Edition of the Drinking Water Standards and Health Advisories (EPA 822-F-18-001).

^d Action level for lead (treatment technique).

^e Federal statistics (95/95 UTL Background Standard or GWPS, whichever is higher) exceeds the DNR Action Level.

1.00 Value exceeds the MCL, or HAL/SDWR where MCL not established.

J - Estimated concentration.

< - Not detected at the associated reporting limit.

Attachment 4

**IDNR Template to AGWMCAR Cross
Reference Table**

IDNR Template to AGWMCAR Cross Reference Table

Neal South Energy Center - CCR Monofill
Permit No. 97-SDP-13-98C

Annual Water Quality Report Template for Non-Municipal Landfills	Annual Groundwater Monitoring and Corrective Action Report	Notes
Table 1 Monitoring Program Summary	Table 2.1 Groundwater Monitoring Well Network	Lists all wells in monitoring network.
	Table 2.6 Summary of Groundwater Monitoring Events	Lists total number of samples from monitoring programs since December 2015.
	Table 4.5 Inter-Well Comparisons for Assessment Monitoring Data vs. Upgradient Background UTLs	Compares current reporting period groundwater data to the pooled background data (control limit).
	Section 1 Introduction	States the current monitoring program.
	Section 2.1 Groundwater Monitoring Network	Describes the aquifer characteristics.
	Section 6.4 Recommendations	Provides recommended changes, if any, to the monitoring network.
Table 2 Monitoring Program Implementation Schedule	Table 2.6 Summary of Groundwater Monitoring Events	Provides summary of sampling events since December 2015.
Table 3 Monitoring Well Maintenance and Performance Reevaluation Schedule	Section 2.2 Monitoring Well Inspection	States the frequency of total depth measurements (annually).
Table 4 Monitoring Well Maintenance and Performance Summary	Table 2.2 Well Construction Details	Provides well coordinates and elevations for TOC, original total depth, ground surface, top of screen, and bottom of screen.
	Table 2.3 Monitoring Well Screen Occlusion Evaluation	Provides TOC elevation, original total depth below TOC, screen length, annual total depth measurements, and percent of screen occluded.
	Table 3.1 Groundwater Elevation Data	Provides groundwater elevation data, past elevations through elevations during the current reporting period.
Table 5 Background Summary	Table 4.3 Inter-Well Comparison Values	Summary of inter-well evaluation from pooled background well data. Provides the baseline 95/95 UTL (background level).
Table 6 Summary of Well/Detected Constituent Pairs With No Immediately Preceding Control Limit Exceedances	Table 4.5 Inter-Well Comparisons for Assessment Monitoring Data vs. Upgradient Background UTLs	Compares current reporting period's groundwater data to the pooled background data (control limit).
Table 7 Summary of Ongoing and Newly Identified Control Limit Exceedances	--	Table 7 is provided to IDNR.
Table 8 Analytical Data Summary	Table 4.1 Baseline Period Groundwater Monitoring Data	Provides groundwater analytical data from the baseline period at the CCR Monofill.
	Table 4.2 Monitoring Analytical Results Summary	Provides groundwater analytical data for the current reporting period at the CCR Monofill.
Table 9 Historic Control Limit & GWPS Exceedances	--	Table 9 is provided to IDNR.
Table 10 Groundwater Quality Assessment Plan Trend Analysis	Section 4 Groundwater Monitoring	Section 4 discusses trends in groundwater data, during baseline monitoring and current reporting period.
Table 11 Leachate Management Summary	Annual Leachate Report	The Annual Leachate Report documents the leachate management activities for the current reporting period. Provides analytical data, leachate head, and leachate volume measurements.
Table 12 Gas Monitoring Summary	Not applicable	Not applicable since the CCR Monofill holds CCR and does not generate gas.



Annual Groundwater Monitoring and Corrective Action Report for the Neal South CCR Monofill

**Permit 97-SDP-13-98C
Neal South Energy Center
Salix, Iowa**

MidAmerican Energy Company

January 30, 2026

Certification

Annual Groundwater Monitoring and Corrective Action Report for the Neal South CCR Monofill
Permit 97-SDP-13-98C
Neal South Energy Center
Salix, Iowa
MidAmerican Energy Company

I certify this Annual Groundwater Monitoring and Corrective Action Report meets the requirements of 40 CFR §257.90(e).

	I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.	
	 Michael J. Alowitz, P.E.	 Date
	License Number:	18160
	My license renewal date is:	December 31, 2026
	Pages or sheets covered by this seal:	Entire Document

Executive summary

In compliance with 40 CFR §257.90(e)(6), this executive summary provides an overview of the current status of groundwater monitoring and corrective action programs for Neal South Energy Center coal combustion residual (CCR) Monofill located near Salix, Iowa.

Item	Current Status
(e)(6)(i) At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95;	At the start of the current annual reporting period, this CCR unit was operating under the assessment monitoring program (40 CFR §257.95).
(e)(6)(ii) At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95;	At the end of the current annual reporting period, this CCR unit was operating under the assessment monitoring program (40 CFR §257.95).
(e)(6)(iii) If it was determined that there was a statistically significant increase over background for one or more constituents listed in appendix III to this part pursuant to §257.94(e):	
(A) Identify those constituents listed in appendix III to this part and the names of the monitoring wells associated with such an increase; and	During the calendar year 2025 annual reporting period, verified statistically significant increases over background were detected for the following Appendix III constituents: – Boron at MW-2, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-19, and MW-20 – Calcium at MW-21 – Chloride at MW-4, MW-12, MW-15, MW-19, and MW-20 – pH at MW-2, MW-8, MW-10, MW-12, MW-13 – TDS at MW-16, MW-20, and MW-21 – Sulfate at MW-11, MW-12, MW-17, MW-18, MW-20, and MW-21
(B) Provide the date when the assessment monitoring program was initiated for the CCR unit.	The assessment monitoring program for this CCR unit was initiated in April 2018.
(e)(6)(iv) If it was determined that there was a statistically significant level above the groundwater protection standard for one or more constituents listed in appendix IV to this part pursuant to §257.95(g) include all of the following:	

Item	Current Status
(A) Identify those constituents listed in appendix IV to this part and the names of the monitoring wells associated with such an increase;	During this reporting period, the following Appendix IV constituents were detected at a verified statistically significant level above the groundwater protection standards in the assessment network: – Selenium at MW-12 Arsenic was detected above the groundwater protection standard at Performance Monitoring Evaluation (PME) monitoring wells MW-30 (March only) and MW-43.
(B) Provide the date when the assessment of corrective measures was initiated for the CCR unit;	Assessment of corrective measures associated with arsenic at MW-2 and MW-10 was initiated on January 28, 2019. The corrective measures assessment associated with selenium at MW-8 was initiated on January 15, 2025.
(C) Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and	A public meeting was held for the assessment of corrective measures for arsenic at MW-2 and MW-10 for this CCR unit on June 25, 2019. For the assessment of corrective measures for selenium at MW-8, a public meeting was held on June 25, 2025.
(D) Provide the date when the assessment of corrective measures was completed for the CCR unit.	The assessment of corrective measures for arsenic at MW-2 and MW-10 was completed on May 28, 2019. The assessment of corrective measures for selenium at MW-8 was completed on April 14, 2025.
(e)(6)(v) Whether a remedy was selected pursuant to §257.97 during the current annual reporting period, and if so, the date of remedy selection; and	The remedy selection for arsenic at MW-2 and MW-10 was selected pursuant to 40 CFR §257.97 on October 1, 2019. The remedy selection for selenium at MW-8 was selected on September 17, 2025.
(e)(6)(vi) Whether remedial activities were initiated or are ongoing pursuant to §257.98 during the current annual reporting period.	The remedial activities for arsenic at MW-2 and MW-10 were initiated in August 2020 with the in situ injection of calcium polysulfide into groundwater. The remedial activities are ongoing. Monitored natural attenuation (MNA) activities for selenium at MW-8 are scheduled to start in March 2026.

Contents

Certification	i
Executive summary	ii
1. Introduction	1
2. Groundwater Monitoring Activities	1
2.1 Groundwater Monitoring Network	1
2.2 Monitoring Well Inspection	2
2.3 Sample Collection	2
2.4 Analytical Parameters	3
3. Groundwater Flow Conditions	3
3.1 Drought and Flood Conditions	3
3.2 Horizontal Groundwater Flow	5
3.3 Horizontal Hydraulic Gradient and Groundwater Flow Velocity	6
3.4 Vertical Hydraulic Gradient	6
3.5 Monitoring Well Network Assessment	6
4. Groundwater Monitoring	7
4.1 Statistical Analysis Approach	7
4.1.1 Spatial Variability	8
4.1.2 Temporal Variability	8
4.1.3 Summary of Statistical Analysis Approach	9
4.2 Assessment of Baseline Data	9
4.2.1 Stability Assessment/Baseline Period Trend Analysis	9
4.2.2 Inter-well Comparisons – Upgradient Background Values	10
4.2.3 Intra-well Comparisons – Well-specific Baseline Values	10
4.3 Evaluation of 2025 Assessment Monitoring Data	11
4.3.1 Inter-well Comparisons (vs. Upgradient Background)	11
4.3.2 Intra-well Comparisons (vs. Well-Specific Baseline Values)	11
4.4 Comparison to Groundwater Protection Standards (GWPSs)	12
4.4.1 Appendix III Analytes	12
4.4.2 Appendix IV Analytes	13
5. Corrective Action	14
6. Conclusions and Recommendations	14
6.1 Groundwater Flow and Evaluation of the Monitoring Network	14
6.2 Groundwater Quality	14
6.3 Corrective Action	15
6.4 Recommendations	15
7. References	15

Figure index

Figure 1.1	Site Location
Figure 1.2	Site Map and Monitoring Well Locations
Figure 3.1	Shallow Alluvial Groundwater Flow Map – March 18, 2025
Figure 3.2	Shallow Alluvial Groundwater Flow Map – March 31, 2025
Figure 3.3	Shallow Alluvial Groundwater Flow Map – September 2, 2025

Table index

Table 2.1	Groundwater Monitoring Well Network
Table 2.2	Well Construction Details
Table 2.3	Monitoring Well Screen Occlusion Evaluation
Table 2.4	Appendix III Parameters (Detection Monitoring)
Table 2.5	Appendix IV Parameters (Assessment Monitoring)
Table 2.6	Summary of Groundwater Monitoring Events
Table 3.1	Groundwater Elevation Data
Table 3.2	Horizontal Gradients and Average Linear Groundwater Flow Velocities
Table 4.1	Baseline Period Groundwater Monitoring Data
Table 4.2	2025 Monitoring Analytical Results Summary
Table 4.3	Inter-Well Comparison Values
Table 4.4	Intra-Well Comparisons Values
Table 4.5	Inter-Well Comparisons for 2025 Assessment Monitoring Data vs. Upgradient Background UTLs
Table 4.6	Intra-Well Comparisons for 2025 Assessment Monitoring Data
Table 4.7	Groundwater Protection Standards for Neal South Monofill Groundwater

Appendices

Appendix A	Groundwater Sample Collection Records
Appendix B	Laboratory Analytical Reports
Appendix C	Time Series Graphs for Assessment Monitoring Wells
Appendix D	Groundwater Analytical Data Summary
Appendix E	Performance Monitoring Evaluation Report

1. Introduction

This Annual Groundwater Monitoring and Corrective Action Report (AGWMCAR) was prepared by GHD on behalf of MidAmerican Energy Company (MidAmerican) in compliance with the Federal Coal Combustion Residual (CCR) rule (40 Code of Federal Regulations [CFR] Part 257) for the Neal South Energy Center (Neal South) CCR Monofill (Neal South Monofill) located near Salix, Iowa. The Neal South Monofill is located in Section 24, Township 86N, Range 47W in Woodbury County, Iowa. The Site Location Map (Figure 1.1) also shows the location of MidAmerican's Neal North Energy Center facility. The Neal South Monofill extent and monitoring well locations are shown on Figure 1.2.

MidAmerican initiated baseline groundwater monitoring in accordance with the Federal CCR rule in December 2015. The initial eight rounds of baseline monitoring sampling and analysis were completed prior to the October 17, 2017 deadline established in the Federal CCR rule (40 CFR §257.94). Data for the eight required baseline monitoring events and the first detection monitoring event were presented in the first annual report, dated January 31, 2018 (GHD, 2018a). One limited verification sampling event was conducted on January 30, 2018. Based on the results of the January 2018 sampling, statistically significant increases (SSIs) were verified in groundwater; therefore, the Neal South Monofill entered into assessment monitoring during 2018 (GHD, 2018b) in compliance with 40 CFR §257.96. The Neal South Monofill was closed in 2018 by capping.

Arsenic was detected in groundwater at a statistically significant level above background (GHD, 2018c). In compliance with 40 CFR §257.96 of the Federal CCR rule, an assessment of corrective measures was initiated (GHD, 2019a). The corrective measures assessment was summarized in May 2019 (GHD, 2019b) and the remedy selection was reported in October 2019 (GHD, 2019c). In situ injections were completed during the summer of 2020 as outlined in the Corrective Measures Work Plan (GHD, 2020a). Further description of the corrective measures is provided in Corrective Measures Summary Report (GHD, 2020c). In 2024, selenium was also detected in groundwater at a statistically significant level above background (GHD, 2024). As assessment of corrective measures was initiated in January 2025 and summarized in April 2025 (GHD, 2025a) with remedy selection completed in September 2025 (GHD, 2025b).

Two semiannual assessment monitoring events were conducted during 2025, on March 18 to April 1, 2025 and September 2 to 4, 2025. The 2025 semiannual assessment monitoring events were completed in accordance with 40 CFR §257. Groundwater monitoring events specific to the corrective action were also completed during 2025 as described in the Performance Monitoring Evaluation (PME) Plan (GHD, 2020b). Corrective action (PME) monitoring events were completed on March 18, 2025 and September 2 to 3, 2025, concurrent with the assessment monitoring events.

The uppermost aquifer in the vicinity is the Missouri River alluvial aquifer. The water table is located within either fine sand or overlying silts and clays that extend to the surface (Montgomery Watson, 1999). The deeper monitoring wells are screened in alluvial sand and gravel. The uppermost bedrock in the area is the Cretaceous-age Dakota Formation.

2. Groundwater Monitoring Activities

2.1 Groundwater Monitoring Network

The routine groundwater monitoring network (Table 2.1) consists of 23 monitoring wells (MW-1 through MW-5 and MW-7 through MW-24). As part of corrective action measures, 29 monitoring wells (MW-25 through MW-53) were constructed from late 2019 through the spring of 2020, expanding the network to 52 monitoring wells. Monitoring wells

MW-25 through MW-53 are not included in the assessment monitoring program but are part of the corrective action well network sampled under the PME Plan (GHD, 2020b).

In August 2022, four new wells (MW-54 through MW-57) were constructed for delineation purposes (Table 2.1). At MW-12, there was a detection of cobalt and selenium at a statistically significant level above the groundwater protection standards established by 40 CFR §257.95(g) of the Federal CCR rule which required the delineation activities. An alternate source determination (GHD, 2022a) was completed to address the cobalt and selenium detected at MW-12, and is summarized in the 2022 AGWMCAR (GHD, 2023). These four wells are not routinely monitored.

In November 2024, seven additional wells were installed in the vicinity of MW-8 and MW-10 (MW-58 through MW-64) for delineation purposes (Table 2.1). At MW-8, selenium was detected at a statistically significant level above the groundwater protection standard (GHD, 2024). MW-58 through MW-62 were installed near MW-8 to assist in delineating selenium impact. MW-63 and MW-64 were installed near MW-10 to assist in the delineation of arsenic impact in the area. Some of these seven wells will be monitored as part of the MW-8 corrective measures beginning in 2026 (Table 2.1).

Groundwater elevation data were collected during each monitoring event from the 63 site-wide monitoring wells (MW-1 through MW-64). There are 23 monitoring wells included in the assessment monitoring network (MW-1 through MW-24). Groundwater samples were collected from 15 of the 23 monitoring wells. These 15 sampled monitoring wells, plus three additional assessment monitoring network wells, are screened at the water table (approximately 9 to 23 feet below ground surface [bgs]). Five monitoring wells in the routine monitoring network are screened in a deeper portion (approximately 46 to 56 feet bgs) of the alluvial aquifer and routinely gauged for water elevation.

Horizontal spacing between the downgradient shallow alluvial aquifer monitoring wells ranges from approximately 200 to 300 feet. Groundwater samples are used to assess potential impacts of the Neal South Monofill on surrounding groundwater. Groundwater elevation data are used to identify upgradient and downgradient monitoring points and to determine the potential influence of the Missouri River on groundwater conditions at the Neal South Monofill. Well construction details are provided in Table 2.2.

2.2 Monitoring Well Inspection

During each sampling event, the monitoring wells were inspected, and deficient conditions (if present) of the monitoring wells were noted in the field notes. Wells are maintained with a well cap and a lockable protective casing. Observations include the condition of the protective casing/vault and surrounding ground surface.

Monitoring wells in the groundwater monitoring system consist of 2-inch nominal inner-diameter polyvinyl chloride (PVC) casing and screen. Monitoring well surface completions consist of either a lockable stick-up surface casing set in a concrete pad and placement of protective bollards in locations where traffic may be of concern, or a flushmount cover with a watertight well plug in high traffic areas where a stick-up well is not suitable. In November 2025, the PVC casing at MW-44 was cut 0.24 foot to allow the lid to properly close and lock. All other wells were found to be in generally good condition with no issues affecting well or sample integrity. Due to the surrounding topography, sediment has accumulated on top of some of the monitoring well pads.

The total well depth of each well in the monitoring network is measured on an annual basis to evaluate the well condition and potential sediment accumulation in the well. Total well depth measurements and screen occlusion calculations from recent total depth measurements are presented in Table 2.3. If screen occlusion greater than 10 percent is determined to be present, the well will be redeveloped prior to the next sampling event. No screen occlusion greater than 10 percent was measured during the 2025 monitoring events.

2.3 Sample Collection

Low-flow sampling was conducted using dedicated bladder pumps to purge water and collect samples. Prior to sample collection, the temperature, conductivity, pH, oxidation-reduction potential (ORP), dissolved oxygen, and turbidity of the purge water were measured using a calibrated multiparameter water quality instrument and flow cell. The readings

were recorded on well sampling records. Following stabilization, unfiltered samples were collected in laboratory-supplied containers. Copies of the groundwater sampling records for the 2025 events are included in Appendix A. During the March and September 2025 assessment events, field duplicate samples were collected from MW-2 for quality assurance/quality control (QA/QC) purposes. For the PME samples, a duplicate was collected from MW-50 (March and September 2025).

2.4 Analytical Parameters

Groundwater samples were analyzed for the parameters specified in 40 CFR Part 257 Appendix III and Appendix IV (Table 2.4 and 2.5, respectively) for the two semiannual assessment monitoring events. A subset of these parameters was analyzed for the corrective action samples. The laboratory analyses were conducted by Eurofins Environment Testing North Central, LLC (Eurofins) in Cedar Falls, Iowa with the exception of the Radium 226 and 228 (combined) analyses which were conducted by Eurofins in St. Louis, Missouri. Analyses were conducted by the laboratory in accordance with the procedures and methods described in the United States Environmental Protection Agency (USEPA) Manual SW-846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (September 1986)," as updated and/or in accordance with other approved testing procedures. Eurofins provided prepared sample containers for each monitoring event. Analytical reports from each sampling event report total (i.e., unfiltered) sample results in accordance with the Federal CCR rule.

Table 2.6 summarizes the number of groundwater samples collected for analysis from each monitoring well, the dates the samples were collected, and whether the sample was required by the baseline, detection monitoring, assessment monitoring, or corrective action programs.

Following receipt of the final laboratory analytical reports from each round of sampling, GHD completed an analytical data quality assessment and validation for the groundwater and field quality assurance samples collected during the monitoring events. Based on these assessments, the data are acceptable for use as reported by the laboratories.

3. Groundwater Flow Conditions

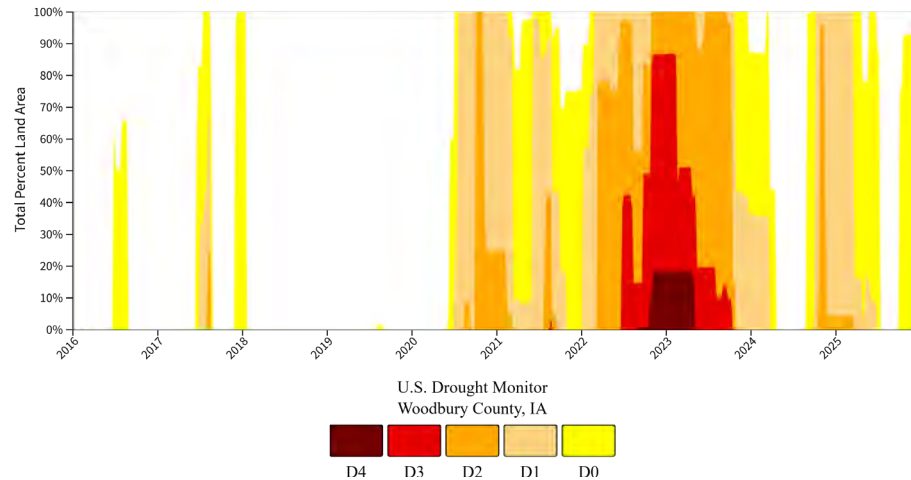
Groundwater levels were measured at each of the monitoring wells included in the monitoring network during each monitoring event. Four of the Neal South Monofill groundwater monitoring wells are in a nested pair with one shallow and one deep well, as illustrated on Figure 1.2 and in Table 3.1. Table 3.1 presents groundwater elevations measured in wells during the March and September 2025 monitoring events.

The groundwater elevations measured during the latter portion of 2025 increased relative to the groundwater levels affected by drought conditions from approximately mid-2020 through mid-2024. Groundwater elevations measured after August 2024 are comparable to pre-drought groundwater elevations measured in March and July 2020. From July 2020 to June 2024, groundwater elevations were some of the lowest recorded at each monitoring well location since the inception of the Federal CCR monitoring program in December 2015. Drought conditions and low Missouri River stage contributed to the low groundwater level conditions.

3.1 Drought and Flood Conditions

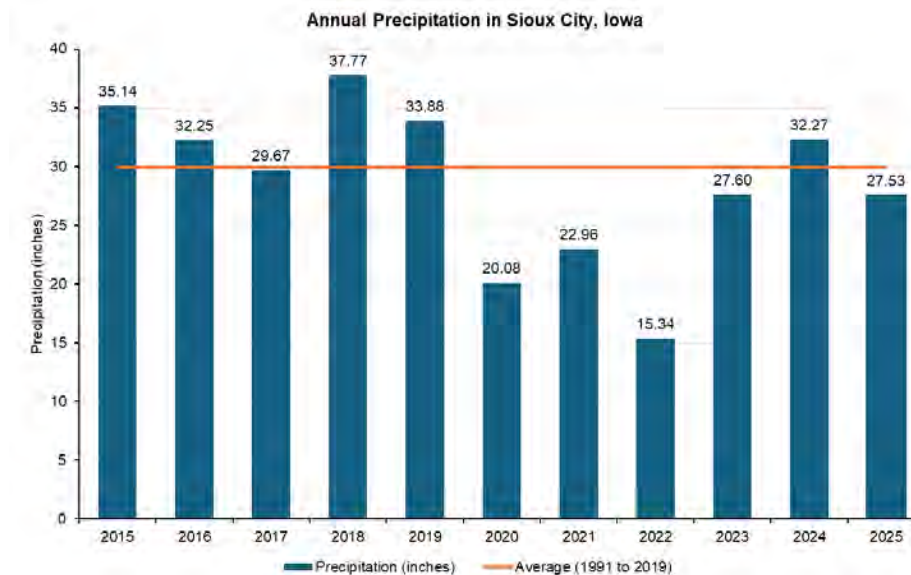
Groundwater levels at Neal South declined over the last few years due to regional drought conditions. Drought conditions for Woodbury County from 2016 through December 16, 2025 reported by the U.S. Drought Monitor are shown on Inset 1. In mid-2020, 100 percent of the area of Woodbury County was recorded as D0 Abnormally Dry, which then intensified into D1 Moderate Drought and then D2 Severe Drought for a period of time. In early 2021, approximately 80 percent of Woodbury County was in drought. During early 2022 through late 2023, the entire county was reported as at least D1 Moderate Drought, with significant periods of time where all or most of the county was in D2 Severe Drought or D3 Extreme Drought. During late 2022 and early 2023, almost 20 percent of the county, including Neal South, was reported as D4 Exceptional Drought. Beginning mid-April 2024, all of Woodbury County

was out of drought conditions until September 2024. Since October 2024, nearly all of Woodbury County has been reported as at least D0 Abnormally Dry, with a short period of time from mid-July through September where all of Woodbury County was no longer in drought conditions.



Inset 1. Drought conditions for Woodbury County. <https://www.drought.gov/states/iowa/county/Woodbury>

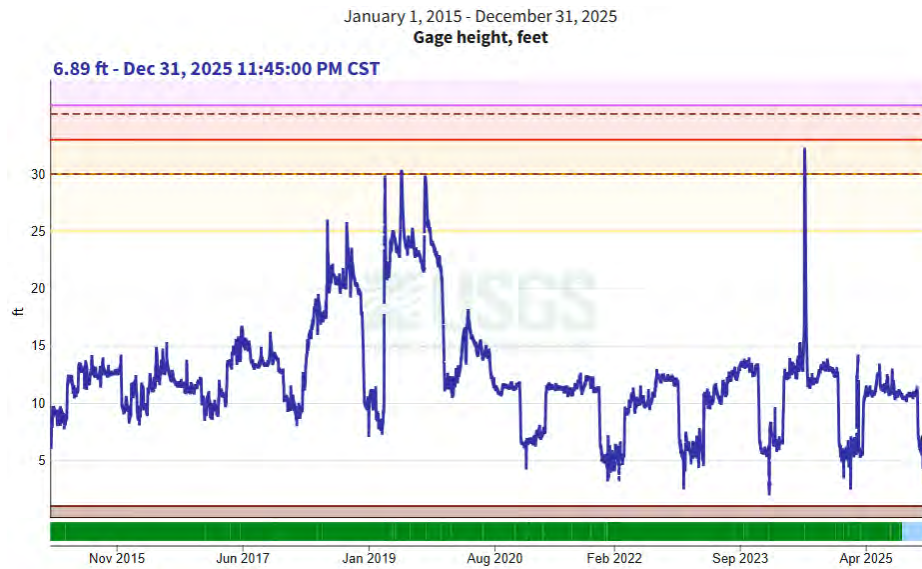
The annual precipitation for the Sioux City, Iowa area is shown on Inset 2. The average annual rainfall (1991 through 2019) at Sioux City, Iowa is 29.90 inches. Rainfall was near normal from 2016 through 2019. From 2020 through 2023, rainfall was below the annual average. 2024 was above average for the first time since 2019 but decreased in 2025. Throughout 2025, the accumulated precipitation compared to the 30 year normal to date has been variable, but is generally below average for most of the year. Through December 31, 2025, the annual precipitation is 27.53 inches, which is 1.74 inches below average for the date.



Inset 2. Annual precipitation in Sioux City, Iowa, 2015 through 2025.
<https://hprcc.unl.edu/stationtool/explore.php?sid=USW00014943%27>

During 2018 and 2019, releases from the Missouri River reservoir system upstream to the site were higher-than average. During 2020 through 2023, releases into the Missouri River from the reservoir system decreased river stage near the site (Inset 3) and reduced precipitation occurred (Inset 2). In mid-2024, the river stage began to increase. The

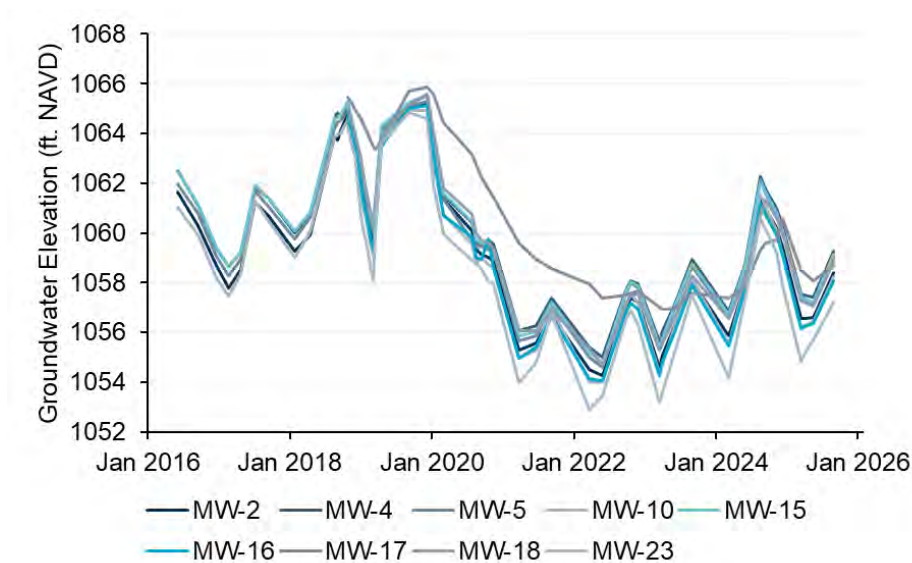
flood event that occurred mid-June is recorded on Inset 3. The river stage increased to levels higher than was recorded in 2019. After June 2024, the river stage returned to similar levels as those observed since 2023.



Inset 3. Missouri River stage at Sioux City, Iowa.

<https://waterdata.usgs.gov/monitoring-location/06486000/#parameterCode=00065&period=P2742D>

Groundwater elevations since monitoring began in late 2015 are shown on Inset 4 for select monitoring wells at Neal South. The highest observed groundwater elevations occurred in 2019 and were on a generally decreasing trend though 2023, corresponding with below average precipitation in the area and reduced flows in the Missouri River. Corresponding with an increase in precipitation in the area, groundwater elevations have been showing an increasing trend since 2023.



Inset 4. Hydrograph for select wells at Neal South.

3.2 Horizontal Groundwater Flow

Groundwater flow maps were prepared using water level measurements from each monitoring event for the alluvial aquifer (Figures 3.1 through 3.3). The groundwater flow direction for each of the monitoring events was inferred to be

to the west. The minor variations in groundwater elevation and flow direction observed during the monitoring events are likely a result of seasonal variability in the amount and rate of infiltration of precipitation.

3.3 Horizontal Hydraulic Gradient and Groundwater Flow Velocity

Hydraulic conductivity data for the alluvial aquifer have not been collected at the Neal South Monofill; however, hydraulic conductivity estimates are available for the alluvial aquifer at the Neal North CCR Monofill, which is located to the northwest in a similar depositional environment (i.e., Missouri River alluvial deposits). Hydraulic conductivity estimates for the shallow alluvial aquifer at the Neal North CCR Monofill range from a low of approximately 0.3 meter per day (m/day) to 12.0 m/day (MWH, 2006). The geometric mean hydraulic conductivity for the shallow portion of the alluvial aquifer is 2.3 m/day (MWH, 2006).

The average linear groundwater velocity at the water table was estimated based on hydraulic conductivity, horizontal gradient, and the estimated porosity of the formation using the following equation:

$$V = Ki/n$$

Where V equals the average linear velocity; K equals the geometric mean hydraulic conductivity (2.3 m/day); i equals the average horizontal hydraulic gradient; and n equals the effective porosity (estimated at 0.3). During the 2025 monitoring events at the Neal South Monofill, the average linear groundwater velocity at the water table (shallow alluvial aquifer) was estimated to range between 0.005 m/day (approximately 6 feet per year), calculated for the September 2025 monitoring event, and 0.006 m/day (approximately 8 feet per year), calculated for the March 2025 monitoring event. The estimated horizontal gradients and average linear groundwater flow velocities for each of the monitoring events are summarized in Table 3.2.

3.4 Vertical Hydraulic Gradient

Water levels measured in monitoring well pairs MW-1/MW-2, MW-3/MW-4, MW-7/MW-8, and MW-9/MW-10 during the two assessment events were used to calculate vertical hydraulic gradients. The vertical hydraulic gradients were calculated by the following equation:

$$\text{Water Elevation in Deep Well} - \text{Water Elevation in Shallow Well}$$

$$\text{Elevation of Middle of Saturated Zone of Shallow Well Screen} - \text{Elevation of Middle of Saturated Zone of Deep Well Screen}$$

The difference in groundwater elevations between nested pairs of wells is generally slight, ranging from 0.0 (at the MW-7/MW-8 well pair during March 2025 and MW-9/MW-10 well pair during September 2025) to a maximum difference of 0.33 feet (at the MW-3/MW-4 well pair during the March 2025 gauging event).

The vertical hydraulic gradients ranged from -0.01 (downward-directed flow) in well cluster MW-3/MW-4 to 0.001 (upward-directed flow) in well cluster MW-9/MW-10. At well clusters MW-1/MW-2 and MW-3/MW-4, a downward vertical gradient was measured during the 2025 gauging events. Vertical gradients were in the upward direction (March 2025) to no distinct direction (September 2025) during the 2025 monitoring events at well cluster MW-9/MW-10. Well cluster MW-7/MW-8 had no measured vertical hydraulic gradient (0.00) during any of the 2025 gauging events.

3.5 Monitoring Well Network Assessment

The Neal South Monofill groundwater monitoring network meets the Federal CCR rule requirements of having at least one upgradient monitoring well and three downgradient monitoring wells, and the groundwater monitoring network meets the design and construction requirements of 40 CFR §257.91. Monitoring wells MW-16, MW-17, and MW-18 have been identified as background or upgradient sampling locations.

4. Groundwater Monitoring

Groundwater sample collection records for the 2025 monitoring events are provided in Appendix A and the associated laboratory analytical reports are provided in Appendix B. Appendix C includes time series graphs of concentration versus time for each analyte in the assessment monitoring program. Analytical results for groundwater samples collected during the updated baseline (see discussion below) and the 2025 monitoring events are summarized in Tables 4.1 and 4.2, respectively. The cumulative database (December 2015 through 2025) for the Neal South assessment monitoring network is provided in Appendix D.

As part of assessment and reporting requirements under the Federal CCR rule, the groundwater monitoring data are subjected to statistical evaluation to demonstrate compliance with monitoring goals. Evaluation components include:

- Statistical summaries for the data sets obtained (on a per-well, per-parameter basis)
- Preparation of trend plots (concentration vs. time)
- Inter-well comparisons (downgradient vs. upgradient)
- Intra-well comparisons (vs. baseline conditions at a given well)

The statistical methods used in these evaluation steps for Neal South are presented in the Groundwater Statistical Methods Certification (Methods Certification) (GHD, 2017). The procedures in the Methods Certification were selected in accordance with the Federal CCR rule, utilizing methodology presented in the USEPA's Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Unified Guidance (Unified Guidance) (USEPA, 2009). The present evaluation utilizes the statistical methods presented therein to evaluate monitoring data from groundwater samples collected during the 2025 assessment monitoring events.

Originally, baseline monitoring under the Federal CCR rule occurred at Neal South during eight monitoring events conducted between December 2015 and July 2017. These first eight events represented the baseline period from wells MW-4 and MW-15, that at the time represented upgradient conditions. These two wells appeared to be affected by the Monofill and therefore three additional upgradient monitoring wells were installed in October 2018 (MW-16, MW-17, and MW-18). Originally, eight baseline monitoring events for these upgradient wells were completed between October 2018 and March 2019. However, a change in regional conditions has been observed since that time, with parameter concentrations significantly increasing in upgradient wells compared to baseline values (i.e., not a site-related effect). Therefore, the baseline data sets were extended to update the inter-well and intra-well comparison values in the 2021 Annual Report (GHD, 2021a). Consequently, consistent with the 2021 report, the present assessment considers data from October 2018 through September 2021 as baseline for the inter-well (comparing downgradient vs. upgradient conditions) comparisons and data from December 2015 through September 2020 as the intra-well baseline period. Arsenic data at upgradient wells MW-16, MW-17, and MW-18 were identified with a statistically significant trend over time (violating the stationarity assumption of the tolerance limit calculations), therefore a recent period was selected that represented a more stable condition. The arsenic upper tolerance limit (UTL) was then calculated using data from 2020 through to 2024 as the inter-well baseline period. In 2025, arsenic and lithium UTLs were updated, therefore the baseline period for arsenic is currently from January 2019 through September 2025 (representing a more stable condition), and for lithium, the baseline period was extended to September 2025.

4.1 Statistical Analysis Approach

Groundwater monitoring at Neal South is currently conducted under assessment monitoring status per the Federal CCR rule. The 2025 assessment monitoring data for Neal South are presented in Table 4.2. During both 2025 semiannual assessment monitoring events all Appendix III and Appendix IV parameters were analyzed in accordance with 40 CFR §257.95(d)(1).

No single method of statistical analysis is appropriate for each groundwater constituent dataset; instead, the statistical methods selected for use are dependent upon the data and distributions and should consider the specific constituents

and the nature of local hydrogeologic conditions. Depending on characteristics of the site and the groundwater monitoring data, a mix of inter-well (comparison vs. upgradient conditions) and intra-well (comparison vs. baseline) tests may be warranted. The statistical methods used for the inter-well and intra-well approaches are selected based on these factors as well as consideration of natural temporal or spatial variability of the concentrations of the groundwater constituents. Substantial natural spatial variability may necessitate intra-well methods. This statistical analysis was completed using both inter-well and intra-well approaches for the purpose of determining if an SSI has occurred at Neal South.

An initial statistical analysis was previously conducted to assess the constituent data and determine the most appropriate statistical approach(es) for the data (GHD, 2020d). The data were examined for outliers, the percentage of non-detect values, and to determine the statistical distribution. Time series plots, box plots of upgradient data, and maps were used to evaluate the potential presence of temporal or spatial variations in constituent concentrations. The baseline analysis update in 2021 utilized the same assessment strategy and considered additional data for the inter-well and intra-well baseline periods (GHD, 2021a). Arsenic and lithium baseline UTLs were updated in 2025, using the same assessment strategy described in Section 4.

Appendix III and IV constituents occur naturally in the environment. For constituents that occur naturally and may vary substantially in concentration across the monitoring network due to natural hydrogeologic or geochemical factors (i.e., exhibiting spatial variability), an inter-well analysis is not appropriate. Constituent concentrations greater than upgradient conditions might be incorrectly attributed to impact from the Neal South Monofill when the differences are actually natural and unrelated to Neal South due to locally varying distributions of groundwater constituents. In such cases, an intra-well approach is appropriate.

4.1.1 Spatial Variability

The concentration of naturally occurring constituents such as the Appendix III and IV constituents can be affected by the presence of differing aquifer material or geochemistry between monitoring well locations. At the Neal South Monofill, the uppermost groundwater occurs in alluvial deposits, which consist primarily of sands and gravels, with zones of finer-grained silts and clays. The natural geochemistry of groundwater can vary between these zones and affect the detected concentrations of natural constituents. In the case of the Neal South Monofill, these differing geological materials are intersected by the screened zones of the monitoring wells and may result in spatial variability for some constituents.

Based on the evaluation of the original baseline data (GHD, 2020d), the presence of spatial variability among Neal South Monofill background wells (MW-16, MW-17, and MW-18) was found, and this continues to be evident for many detected constituents.

As noted, this spatial variability affects inter-well comparisons for downgradient wells since observed differences between downgradient and upgradient conditions could be due to natural variability or could be due to effects of the Neal South Monofill. An inter-well comparison alone could not distinguish between these two possibilities.

4.1.2 Temporal Variability

The Federal CCR rule considers the occurrence of temporal trends in groundwater monitoring data. Where trends are observed, the statistical method selected must take these into account.

For inter-well baseline UTLs where data from background wells (MW-16, MW-17, and MW-18) were combined, trends were assessed using the Regional Kendall test (see Table 4.3). This test is a modified Seasonal Kendall test described in detail in USEPA, 2009, Section 14.3.4, substituting the individual wells in the place of the separate seasons. In the test, individual Mann-Kendall statistics are calculated for each analyte at each well separately, and then summed to perform the overall test. Statistically significant increasing trends in the background data were found for calcium, total dissolved solids (TDS), and barium. For these constituents, the statistically significant trends impact or invalidate inter-well comparisons, since the statistical methods presented in the Federal CCR rule (40 CFR §257.93 (f)) assumes no trends are present in the upgradient data.

4.1.3 Summary of Statistical Analysis Approach

The statistical analysis included both inter-well and intra-well approaches for the purpose of determining if SSIs in constituent concentrations in groundwater have occurred at the Neal South Monofill. This approach could change as additional data are collected during future monitoring. If new information warrants such a change, a modification to the statistical approach will be recommended for one or more constituents and/or monitoring wells.

4.2 Assessment of Baseline Data

4.2.1 Stability Assessment/Baseline Period Trend Analysis

Statistically significant regional trends were found during the inter-well baseline period (October 2018 – September 2021) considering the combined background well data. In particular, increasing trends were found for calcium, TDS, and barium, as shown in Table 4.3. For updated arsenic (January 2019 – September 2025) and lithium (October 2018 – September 2025) baseline periods, no statistically significant trends were found. In addition, there were also significant trends identified for some of the intra-well baseline (December 2015 – September 2020) data sets (see results in Table 4.4), specifically:

Increasing trends were found for the following wells/constituents:

- Arsenic at MW-10
- Barium at MW-2, MW-10, and MW-17
- Boron at MW-17
- Calcium at MW-17
- Chloride at MW-4, MW-8, MW-15, MW-19, and MW-21
- Lithium at MW-17
- pH at MW-2, MW-4, MW-10, MW-12, MW-13, MW-14, MW-15, and MW-21
- Radium 226 and 228 (combined) at MW-2
- Sulfate at MW-11 and MW-13
- TDS at MW-11 and MW-17

Decreasing trends were found for the following wells/constituents:

- Barium at MW-14
- Boron at MW-4, MW-10, MW-12, and MW-15
- Calcium at MW-4, MW-8, MW-14, and MW-21
- Chloride at MW-17
- Cobalt at MW-10 and MW-17
- Lithium at MW-2 and MW-4
- Radium 226 and 228 (combined) at MW-16 and MW-17
- Selenium at MW-12, MW-13, and MW-16
- Sulfate at MW-4, MW-12, MW-14, MW-15, MW-16, and MW-20
- TDS at MW-2, MW-4, MW-15, and MW-21

Where trends have been identified in a baseline data set, the methods for intra-well and inter-well comparisons performed below were adjusted to account for non-stationarity during the baseline period.

4.2.2 Inter-well Comparisons – Upgradient Background Values

The Federal CCR rule provides a list of alternate statistical procedures applicable to inter-well and intra-well comparisons (see 40 CFR §257.93(f)). In the Methods Certification, the use of UTLs was selected as being appropriate for assessment of groundwater monitoring data for Neal South. A UTL is a statistically-based limit above which a given sample measurement is unlikely to occur if conditions are consistent with the reference population. For inter-well comparisons, the reference population is the data set of constituent concentrations in upgradient background well(s). Since there are three upgradient background wells (MW-16, MW-17, and MW-18), the data from these three wells have been pooled to calculate the upgradient background UTLs for each constituent.

Calculations of UTLs for inter-well comparisons were completed using the logic and methodology presented in the USEPA's Technical Guide for its ProUCL software (USEPA, 2022, version 5.2). The results of the inter-well UTL calculations are provided in Table 4.3. As previously discussed, increasing trends in calcium, TDS, and barium concentrations invalidate inter-well comparisons of background and downgradient wells for these analytes. The UTLs presented in Table 4.3 represent the range of observed concentrations for these analytes. As noted in the 2021 Annual Report (GHD, 2021a), the arsenic inter-well 95/95 UTL was updated due to an outlier value retained in the calculations and interpreted as a valid representative of the range of conditions occurring in groundwater upgradient of the Monofill. However, a recent review of the March 2021 arsenic concentration at MW-18 identified it as an outlier due to additional subsequent sample results and consequently, the arsenic background data set was reassessed in order to calculate a new 95/95 UTL.

The arsenic baseline update in 2025 initially evaluated adding data up to and including September 2025. This addition resulted in statistically significant increasing trends over time (violating the stationarity assumption of the tolerance limit calculations). Therefore, data collected between October 2019 and January 2019 were excluded from calculations in an attempt to avoid a trend in the data set, in addition to the removal of the March 2021 outlier arsenic concentration at MW-18. The combined data set consisted of a total of 53 arsenic analyses (18 per upgradient well, except for MW-18) and did not have a statistically significant trend. Therefore, this data set was used to calculate updated background values. The combined arsenic data set without the outlier was lognormally distributed, therefore the Student's *t* log-UTL with Kaplan–Meier (KM) treatment for non-detects for lognormal distribution was selected. The arsenic 95/95 UTL was 0.0667 mg/L and the 99/95 UTL was 0.1554 mg/L. The lithium baseline update in 2025 consisted of adding data up to and including September 2025. The combined data set consisted of a total of 66 lithium analyses (22 per upgradient well) and did not have a statistically significant trend. Therefore, this data set was used to calculate updated background values. The combined lithium data set was lognormally distributed, therefore the Student's *t* log-UTL lognormal distribution was selected. The lithium 95/95 UTL was 0.164 mg/L and the 99/95 UTL was 0.210 mg/L.

4.2.3 Intra-well Comparisons – Well-specific Baseline Values

As noted in the Methods Certification, the statistical methods (i.e., UTLs) for intra-well comparisons are analogous to those for inter-well comparisons. In this case, the reference population is the data set of constituent concentrations in a given well observed during the baseline period. Calculation of the upgradient background 95/95 UTL and 99/95 UTL values is performed using the same methods used for the inter-well comparisons.

Where temporal trends were identified over the baseline period, tolerance limits are not calculated (due to violation of the statistical assumptions of the UTL calculations) and a baseline range is provided as a reference. For such data sets, future sample results are to be compared both against the baseline range and what would be expected based on the observed trend over the baseline period.

The calculated intra-well baseline values (UTLs) for each constituent at each well are provided in Table 4.4. Final baseline values were calculated for wells MW-19, MW-20, and MW-21, which have a maximum of nine results for some parameters prior to 2022. Final baseline values were calculated for antimony, beryllium, cadmium, chromium, lead, mercury, and thallium at wells MW-19, MW-20, and MW-21 using 2022 and 2023 data.

4.3 Evaluation of 2025 Assessment Monitoring Data

4.3.1 Inter-well Comparisons (vs. Upgradient Background)

Inter-well comparisons of current monitoring data are conducted by comparing monitoring data from the 2025 monitoring events to the upgradient background UTLs derived from the upgradient baseline period data (October 2018 to September 2021, January 2019 to September 2025 for arsenic, and October 2018 to September 2025 for lithium). These comparisons are presented in Table 4.5.

The inter-well comparisons found observations in groundwater samples collected from the twelve downgradient monitoring wells where one or both of the 2025 monitoring events had at least one constituent concentration or measurement outside of baseline conditions in the upgradient wells (MW-16, MW-17, and MW-18). These included:

- Boron at MW-2, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-19, and MW-20
- pH at MW-10
- Chloride at MW-4, MW-11, MW-12, MW-15, MW-19, and MW-20
- Sulfate at MW-11, MW-12, MW-13, MW-19, and MW-20
- TDS at MW-12, MW-19, and MW-20
- Barium at MW-10, MW-16 (background), and MW-21
- Lead at MW-14
- Lithium at MW-19
- Molybdenum at MW-8 and MW-10
- Selenium at MW-12

The fluoride reporting limit (1 mg/L) was above the inter-well UTL of 0.729 mg/L for the March and September 2025 monitoring events. All of the March and September 2025 results were non-detect for fluoride (1.0 U mg/L).

4.3.2 Intra-well Comparisons (vs. Well-Specific Baseline Values)

Intra-well comparisons of current monitoring data are conducted by comparing monitoring data from the two 2025 assessment monitoring events to the baseline period UTLs for each given well. These comparisons are presented in Table 4.6.

The results of the intra-well comparisons indicate the following constituent concentrations are above those observed during the baseline period:

- Boron at MW-19
- Calcium at MW-21
- Chloride at MW-15, MW-16 (background), MW-19, and MW-20
- pH at MW-2, MW-4, MW-8, MW-10, MW-11, MW-12, MW-13, MW-15, MW-18 (background), and MW-19
- Sulfate at MW-17 (background), MW-18 (background), MW-19, MW-20, and MW-21
- TDS at MW-16 (background), MW-19, MW-20, and MW-21
- Arsenic at MW-21
- Barium at MW-4, MW-15, MW-16 (background), and MW-21
- Cobalt at MW-2, MW-11, MW-13, and MW-21
- Lead at MW-14
- Lithium at MW-12
- Molybdenum at MW-10 and MW-17 (background)
- Radium 226 and 228 (combined) at MW-2, MW-11, and MW-12

The fluoride reporting limit (1 mg/L) was above the intra-well 99/95 UTL for the March and September 2025 monitoring event for all wells. All of the March and September 2025 fluoride results were non-detect for fluoride (1.0 U mg/L).

4.4 Comparison to Groundwater Protection Standards (GWPSs)

During the March and September 2025 semi-annual assessment monitoring events, Appendix III and Appendix IV parameters were analyzed. Two constituents were detected at concentrations above the corresponding site-specific GWPS during at least one sampling event in 2025. The 2025 sample results are compared to the GWPSs, as described in 40 CFR §257.95(h):

(h) The owner or operator of the CCR unit must establish a groundwater protection standard for each constituent in appendix IV to this part detected in the groundwater. The groundwater protection standard shall be:

(1) For constituents for which a maximum contaminant level (MCL) has been established under §§141.62 and 141.66 of this title, the MCL for that constituent;

(2) For the following constituents:

- (i) Cobalt 6 micrograms per liter (µg/l)*
- (ii) Lead 15 µg/l;*
- (iii) Lithium 40 µg/l; and*
- (iv) Molybdenum 100 µg/l.*

(3) For constituents for which the background level is higher than the levels identified under paragraphs (h)(1) and (h)(2) of this section, the background concentration.

The resulting site-specific GWPS values for Appendix IV parameters at the Neal South Monofill are summarized in Table 4.7. In three cases (arsenic, cobalt, and lithium), the inter-well background value was selected as the site-specific GWPS. Comparisons of the 2025 monitoring data to the GWPS values are presented below for Appendix III and Appendix IV parameters.

4.4.1 Appendix III Analytes

- Boron: No MCL has been established for boron. The maximum boron concentration detected during 2025 was 2.29 milligrams per liter (mg/L) at MW-8.
- Calcium: No MCL has been established for calcium. The maximum calcium concentration detected during 2025 was 277 mg/L at MW-19.
- Chloride: No MCL has been established for chloride. The maximum chloride concentration detected during 2025 was 89.2 mg/L at MW-12.
- Fluoride: Fluoride has an MCL of 4 mg/L and is included on both the Appendix III and Appendix IV analyte lists. No fluoride was detected above the associated reporting limit (1.00 mg/L) during any sampling event in 2025.
- pH: No MCL has been established for pH. The highest and lowest pH recorded during the 2025 monitoring events were 7.1 J (at MW-15) and 7.9 J (at MW-10).
- Sulfate: No MCL has been established for sulfate. The maximum sulfate concentration detected during 2025 was 564 mg/L at monitoring well MW-12.
- TDS: No MCL has been established for TDS. The maximum TDS concentration detected during 2025 was 1,490 mg/L at monitoring well MW-19.

4.4.2 Appendix IV Analytes

- Antimony: No detectable concentrations of antimony were reported in any of the samples collected during the 2025 monitoring events. The antimony method reporting limit is 0.00200 mg/L which is below the established MCL of 0.006 mg/L.
- Arsenic: Arsenic has a site-specific background GWPS of 0.0667 mg/L. Arsenic was detected below this value at all compliance monitoring well locations during the 2025 sampling events. However, arsenic concentrations exceeded the MCL of 0.01 mg/L in groundwater collected from MW-2 (March and September 2025), MW-10 (March and September 2025), MW-18 (background; March and September 2025), and MW-20 (March and September 2025). Arsenic was also detected at concentrations below the site-specific GWPS and MCL, but above the method reporting limit (0.00200 mg/L) during one or more sampling event, at wells MW-17 and MW-21. Arsenic was not detected in wells MW-4, MW-8, MW-11, MW-12, MW-14, MW-15, MW-16, and MW-19 during events in 2025. Arsenic was detected above the site-specific GWPS in PME monitoring wells MW-30 (March 2025 only) and MW-43 (March and September 2025) (Appendix E).
- Barium: Barium was detected in all monitored wells during the 2025 monitoring events; however, the detected levels were below the barium MCL (2.0 mg/L) with a maximum concentration of 0.399 mg/L at MW-21 during the March 2025 monitoring event.
- Beryllium: No detectable concentrations of beryllium were reported in any of the samples collected during the 2025 monitoring events. The beryllium reporting limit is 0.00100 mg/L, which is below the established MCL (0.004 mg/L).
- Cadmium: No detectable concentrations of cadmium were reported in any of the samples collected during the 2025 monitoring events, except MW-8 in April 2025 (0.000209 mg/L). The cadmium reporting limit is 0.000200 mg/L, which is below the established MCL (0.005 mg/L).
- Chromium: Chromium concentrations were below the method reporting limit (0.00500 mg/L) and the established MCL (0.1 mg/L) during 2025 monitoring events.
- Cobalt: The site-specific GWPS for cobalt in groundwater at the Neal South Monofill is 0.00724 mg/L. The highest cobalt concentrations detected during 2025 was at MW-19 (0.00697 mg/L in March 2025).
- Lead: Lead concentrations were below the method reporting limit (0.000500 mg/L), and were below the established CCR Rule GWPS of 0.015 mg/L in most samples from all wells during the 2025 monitoring events. One monitoring well, MW-14, had a detectable lead concentration of 0.00088 mg/L in March 2025 which was below the GWPS.
- Lithium: Lithium was detected in all wells during 2025 above the CCR Rule GWPS of 0.040 mg/L. The maximum lithium concentration detected was 0.169 mg/L at monitoring well MW-19 in March 2025, which was above the site-specific GWPS of 0.164 mg/L, but was below the GWPS in September 2025 (0.148 mg/L). All other lithium concentrations were below the site-specific GWPS.
- Mercury: Mercury concentrations were below the method reporting limit (0.000200 mg/L) and the established MCL (0.002 mg/L) in all samples from all monitoring wells during the 2025 monitoring events.
- Molybdenum: The GWPS for molybdenum under the CCR Rule is 0.100 mg/L. Molybdenum was detected at MW-2, MW-8, MW-10, MW-17, and MW-18 with a maximum molybdenum concentration of 0.0115 mg/L at well MW-8, which is below the GWPS. All other wells had no detectable concentrations during the 2025 monitoring events.
- Radium 226 and 228 (combined): Radium 226 and 228 (combined) was detected in all monitoring wells during all of the 2025 monitoring events; however, detected concentrations were all below the MCL of 5 picocuries per liter (pCi/L), with a maximum concentration observed at MW-21 of 1.88 pCi/L in September 2025.
- Selenium: Selenium has an established MCL of 0.05 mg/L. The method reporting limit for selenium is 0.00500 mg/L. Selenium was detected at MW-12, MW-13, and MW-14 during the 2025 monitoring events. Concentrations at MW-12 (0.0739 mg/L in March 2025 and 0.0593 mg/L in September 2025) were above the established MCL. Monitoring at this location will continue for selenium. Selenium was not detected in any other wells during any of the 2025 monitoring events.

- Thallium: Thallium concentrations were below the method reporting limit (0.00100 mg/L) and the established MCL (0.002 mg/L) in all samples from monitoring wells during the 2025 monitoring events.

5. Corrective Action

Corrective measures were conducted in 2020 to address arsenic detected at a statistically significant level (SSL) above the groundwater protection standard (GWPS) at monitoring wells MW-2 and MW-10 in 2018 (GHD, 2019a; GHD, 2019b). Following approval from the USEPA for underground injection under Rule Authorization, in situ injections were performed from August 5 through 12, 2020 and August 17 through 19, 2020 as outlined in Work Plan (GHD, 2020b).

A PME Plan (GHD, 2020b) outlining additional monitoring locations to augment the routine monitoring at the Neal South Monofill to determine the performance of the in situ corrective action was issued. The PME Plan designates additional monitoring locations as water level gauging locations or both water level gauging locations and groundwater monitoring locations for arsenic and calcium by EPA Method 6020A and sulfate by EPA Method 9056A. Corrective action (PME) monitoring events were completed on March 18, 2025 and September 2 to 3, 2025 (concurrent with the assessment monitoring events). Appendix E provides the Performance Monitoring Evaluation Report focused on the groundwater monitoring related to corrective actions at the monofill. The following conclusions and recommendations are provided in the Performance Monitoring Evaluation Report (Appendix E):

- Arsenic concentrations at the Neal South Monofill have been variable, both within the MW-2 and MW-10 injection areas and in the upgradient, background wells. Distribution of calcium polysulfide in the subsurface is evident for increases in calcium and sulfate following the injections. Continued groundwater monitoring in accordance with the PME Plan is recommended.
- Arsenic concentrations at the Neal South Monofill groundwater are below the updated site-specific GWPS for arsenic, with the exception of MW-30 (March only) in the MW-2 area and MW-43 in the MW-10 area.
- Continued evaluation of upgradient, background concentrations of arsenic and other Appendix III and Appendix IV parameters will be completed in accordance with the requirements of 40 CFR §257.

Corrective measures to address selenium detected at an SSL above the GWPS at MW-8 is scheduled to begin in March 2026 with monitored natural attenuation (MNA) groundwater monitoring.

6. Conclusions and Recommendations

6.1 Groundwater Flow and Evaluation of the Monitoring Network

Groundwater flow in the vicinity of the Neal South Monofill is generally to the west. The groundwater flow evaluation (see Figures 3.1 through 3.3) indicates the monitoring network is sufficient and has appropriately located upgradient and downgradient well locations.

6.2 Groundwater Quality

A statistical evaluation of groundwater monitoring data collected during the updated intra-well baseline period (December 2015 to September 2020) and inter-well baseline period (October 2018 to September 2021) was conducted in accordance with the Federal CCR rule and Unified Guidance for assessing groundwater data (USEPA, 2009). The arsenic UTL was recalculated this reporting period using data from 2019 through to 2025 as the

inter-well baseline period, and in addition the lithium UTL was also recalculated this reporting period using data from 2018 through to 2025 as the inter-well baseline period. This evaluation was successful in characterizing the baseline data sets, assessing the baseline data for trends, and generating inter-well upgradient background reference values and intra-well baseline values against which future monitoring data were evaluated.

An assessment of monitoring data from samples collected during the 2025 assessment monitoring events has been conducted. Key results of the evaluation include:

- Significant concentration trends in groundwater over time were observed in some baseline data sets for both downgradient wells and upgradient wells.
- Inter-well baseline values (UTLs) use the baseline data from the three upgradient background wells (MW-16, MW-17, and MW-18) and the intra-well baseline values (UTLs) are calculated on a per-constituent, per-well basis.
- Evaluation of the data from the 2025 monitoring events indicate that:
 - Inter-well comparisons – The results of the inter-well comparisons indicate that all twelve downgradient wells had a constituent concentration or measurement outside of baseline conditions in the background wells for at least one analyte (boron, calcium, pH, chloride, sulfate, TDS, barium, cobalt, lead, lithium, molybdenum, radium 226 and 228 (combined), and selenium) during one or more sample events.
 - Intra-well comparisons – Intra-well comparisons indicated constituent concentrations above those observed during the baseline (boron, calcium, chloride, pH, sulfate, TDS, arsenic, barium, cobalt, lithium, molybdenum, and radium 226 and 228 combined) at downgradient wells MW-2, MW-4, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-19, MW-20 and MW-21. In addition, chloride, pH, sulfate, TDS, barium, and molybdenum were reported above intra-well baseline values at background monitoring wells MW-16, MW-17, and MW-18.

6.3 Corrective Action

In situ injections of a 29% calcium polysulfide (Remotox) solution were completed during August 2020 to address statistically significant levels of arsenic detected in the MW-2 and MW-10 areas. PME groundwater monitoring was completed to evaluate the effectiveness of the corrective action. Monitoring results collected during 2025 display expected variability in arsenic concentrations. Corrective measures relative to the 2025 arsenic groundwater results for MW-30 and MW-43 are currently being evaluated.

Corrective measures to address selenium detected at an SSL above the GWPS at MW-8 are scheduled to begin in March 2026 with MNA groundwater monitoring.

6.4 Recommendations

Based on the results of the 2025 sampling, the Neal South Monofill will remain in assessment monitoring and the corrective measures considerations will require an updated PME monitoring plan. In 2026, the MNA evaluation of selenium at MW-8 will begin.

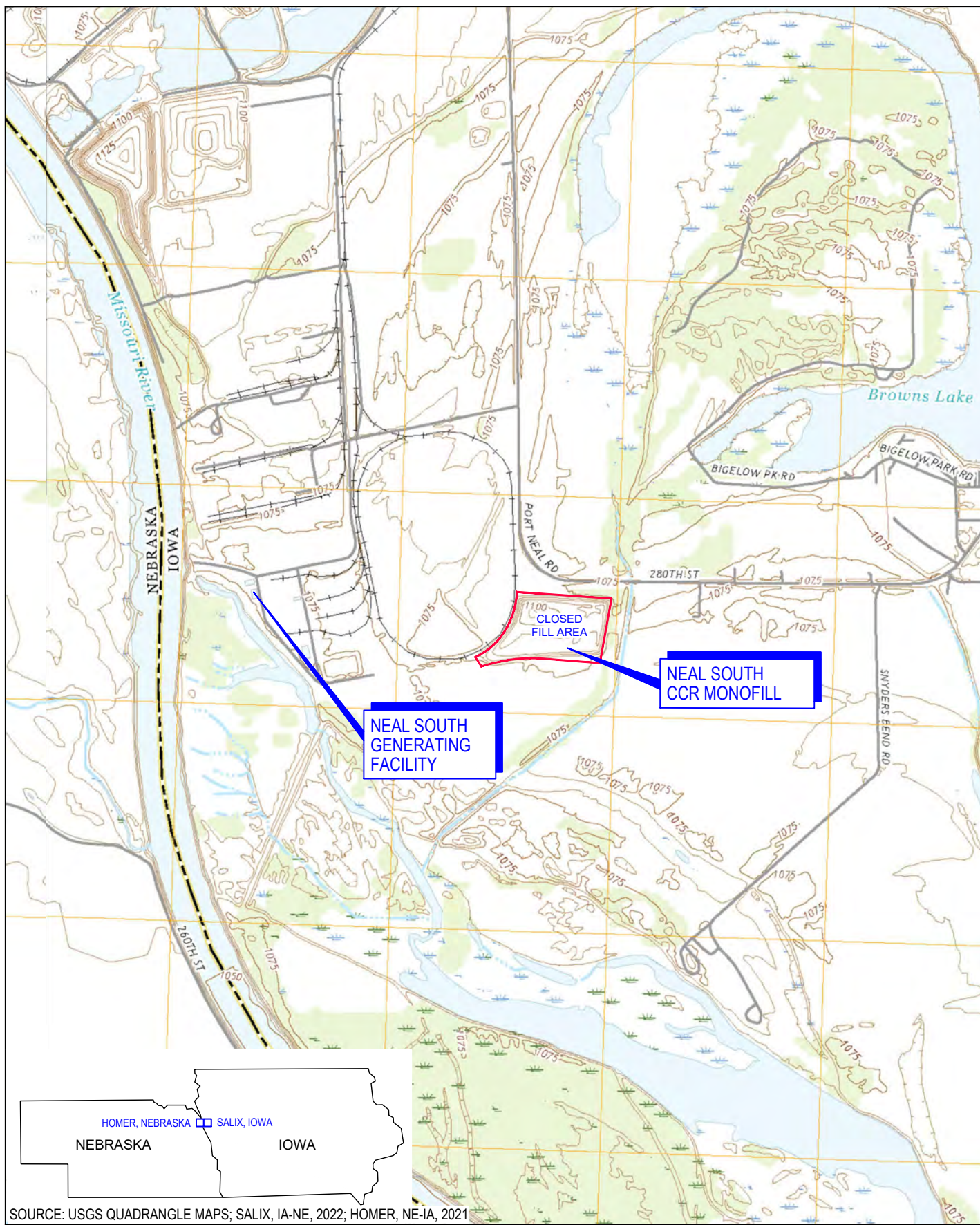
No changes to the monitoring network or sampling procedures are necessary at this time.

7. References

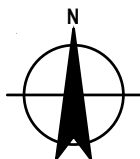
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Figures



0 1000 2000 ft
1" = 2000 ft



MIDAMERICAN ENERGY COMPANY
NEAL SOUTH CCR MONOFILL
SALIX, IOWA

Project No. 12576485
Date November 2025

SITE LOCATION

FIGURE 1.1



MW-8

MW-7

MW-6

SHALLOW GROUNDWATER MONITORING WELL

DEEP GROUNDWATER MONITORING WELL

ABANDONED MONITORING WELL

UPGRADIENT SAMPLING LOCATION

DOWNGRADIENT SAMPLING LOCATION

GAUGING LOCATION

0150300 ft

1" = 300 ft

Coordinate System:
NA83 STATE PLANE
IOWA NORTH

N

GHD

MIDAMERICAN ENERGY COMPANY
NEAL SOUTH CCR MONOFILL
SALIX, IOWA

SITE MAP AND MONITORING WELL
LOCATIONS

Project No. 12576485
Date November 2025

FIGURE 1.2

Filename: N:\US\Des Moines\Projects\5631\2576485\Digital_Design\ACAD\Figures\RPT008\12576485-GHD-00-00-RPT-EN-D102_DE-008.dwg
Plot Date: 26 November 2025 2:33 PM



LEGEND

● MW-21 SHALLOW GROUNDWATER MONITORING WELL

● MW-7 DEEP GROUNDWATER MONITORING WELL

1056.16 GROUNDWATER ELEVATION

* NOT USED FOR CONTOURING

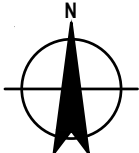
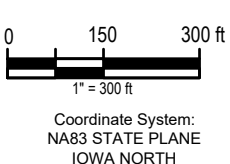
1056 GROUNDWATER CONTOUR

GROUNDWATER FLOW DIRECTION

UPGRADIENT SAMPLING LOCATION

DOWNGRADIENT SAMPLING LOCATION

GAUGING LOCATION

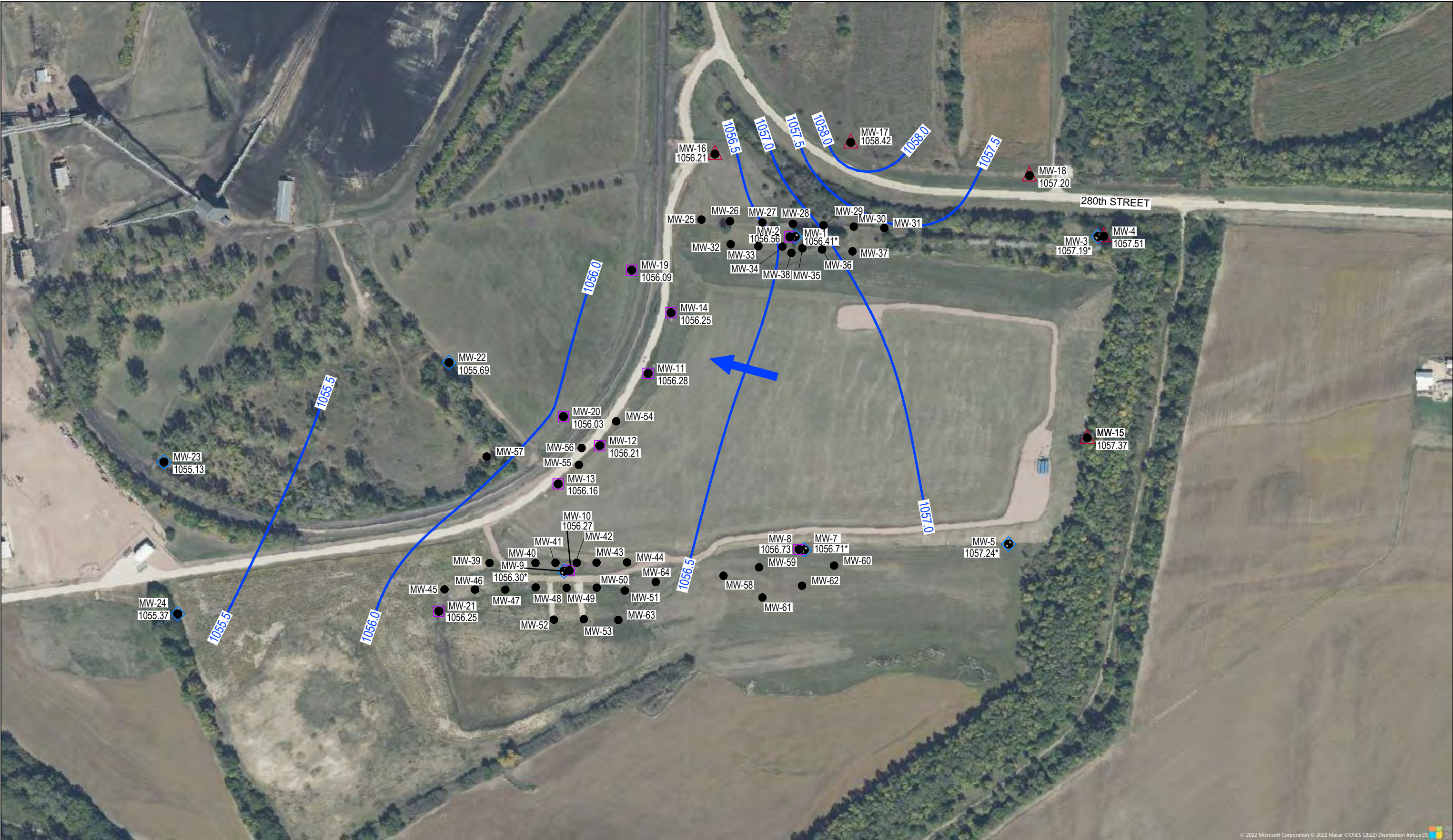


MIDAMERICAN ENERGY COMPANY
NEAL SOUTH CCR MONOFILL
SALIX, IOWA

SHALLOW ALLUVIAL GROUNDWATER
FLOW MAP - MARCH 18, 2025

Project No. 12576485
Date November 2025

FIGURE 3.1



LEGEND

- MW-21 SHALLOW GROUNDWATER MONITORING WELL
- MW-7 DEEP GROUNDWATER MONITORING WELL
- 1056.16 GROUNDWATER ELEVATION
- * NOT USED FOR CONTOURING

1056.0

GROUNDWATER CONTOUR

GROUNDWATER FLOW DIRECTION

UPGRADIENT SAMPLING LOCATION

DOWNGRADIENT SAMPLING LOCATION

GAUGING LOCATION

0 150 300 ft

1" = 300 ft

Coordinate System:
NA83 STATE PLANE
IOWA NORTH

N

GHD

MIDAMERICAN ENERGY COMPANY
NEAL SOUTH CCR MONOFILL
SALIX, IOWA

**SHALLOW ALLUVIAL GROUNDWATER
FLOW MAP - MARCH 31, 2025**

Project No. 12576485
Date November 2025

FIGURE 3.2



● MW-21

● MW-7

1058.27

*

SHALLOW GROUNDWATER MONITORING WELL

DEEP GROUNDWATER MONITORING WELL

GROUNDWATER ELEVATION

NOT USED FOR CONTOURING

— 1058.5

→

△

□

GROUNDWATER CONTOUR

GROUNDWATER FLOW DIRECTION

UPGRADIENT SAMPLING LOCATION

DOWNGRADIENT SAMPLING LOCATION

◇

GAUGING LOCATION

0150300

ft

1" = 300 ft

Coordinate System:
NA83 STATE PLANE
IOWA NORTH

N

↑

GHD

MIDAMERICAN ENERGY COMPANY

NEAL SOUTH CCR MONOFILL

SALIX, IOWA

SHALLOW ALLUVIAL GROUNDWATER

FLOW MAP - SEPTEMBER 2, 2025

Project No. 12576485

Date December 2025

FIGURE 3.3

Tables

**Groundwater Monitoring Well Network
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa**

Monitoring Wells	Use in Monitoring Network	Role in Monitoring Network
MW-1 ^a	Gauged Only	Gauging Location
MW-2	Gauged and Sampled	Downgradient Location
MW-3 ^a	Gauged Only	Gauging Location
MW-4	Gauged and Sampled	Upgradient Location
MW-5 ^a	Gauged Only	Gauging Location
MW-7 ^a	Gauged Only	Gauging Location
MW-8	Gauged and Sampled	Downgradient Location
MW-9 ^a	Gauged Only	Gauging Location
MW-10	Gauged and Sampled	Downgradient Location
MW-11	Gauged and Sampled	Downgradient Location
MW-12	Gauged and Sampled	Downgradient Location
MW-13	Gauged and Sampled	Downgradient Location
MW-14	Gauged and Sampled	Downgradient Location
MW-15	Gauged and Sampled	Upgradient Location
MW-16	Gauged and Sampled	Upgradient Location
MW-17	Gauged and Sampled	Upgradient Location
MW-18	Gauged and Sampled	Upgradient Location
MW-19	Gauged and Sampled	Downgradient Location
MW-20	Gauged and Sampled	Downgradient Location
MW-21	Gauged and Sampled	Downgradient Location
MW-22 ^b	Gauged Only	Gauging Location
MW-23 ^b	Gauged Only	Gauging Location
MW-24 ^b	Gauged Only	Gauging Location

**Groundwater Monitoring Well Network
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa**

Monitoring Wells	Use in Monitoring Network	Role in Monitoring Network
MW-25	Gauged Only	Performance Monitoring Only
MW-26	Gauged and Sampled	Performance Monitoring Only
MW-27	Gauged Only	Performance Monitoring Only
MW-28	Gauged and Sampled	Performance Monitoring Only
MW-29	Gauged Only	Performance Monitoring Only
MW-30	Gauged and Sampled	Performance Monitoring Only
MW-31	Gauged Only	Performance Monitoring Only
MW-32	Gauged and Sampled	Performance Monitoring Only
MW-33	Gauged and Sampled	Performance Monitoring Only
MW-34	Gauged and Sampled	Performance Monitoring Only
MW-35	Gauged Only	Performance Monitoring Only
MW-36	Gauged and Sampled	Performance Monitoring Only
MW-37	Gauged Only	Performance Monitoring Only
MW-38	Gauged Only	Performance Monitoring Only
MW-39	Gauged Only	Performance Monitoring Only
MW-40	Gauged Only	Performance Monitoring Only
MW-41	Gauged Only	Performance Monitoring Only
MW-42	Gauged Only	Performance Monitoring Only
MW-43	Gauged and Sampled	Performance Monitoring Only
MW-44	Gauged Only	Performance Monitoring Only
MW-45	Gauged Only	Performance Monitoring Only
MW-46	Gauged Only	Performance Monitoring Only
MW-47	Gauged Only	Performance Monitoring Only
MW-48	Gauged Only	Performance Monitoring Only
MW-49	Gauged and Sampled	Performance Monitoring Only
MW-50	Gauged and Sampled	Performance Monitoring Only
MW-51	Gauged and Sampled	Performance Monitoring Only
MW-52	Gauged and Sampled	Performance Monitoring Only
MW-53	Gauged and Sampled	Performance Monitoring Only

Notes:

^a Well is screened in deep portion of the alluvial aquifer.

^b Well was sampled for delineation purposes during the fall of 2018, 2022, and 2024 (MW-23 and MW-24).

Well Construction Details
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Well Identification	Northing	Easting	Monitoring Well Construction					
			Ground Surface Elevation (NAVD)	Top of Casing (NAVD)	Total Depth (feet BTOC)	Screen Length (feet)	Top of Screen (NAVD)	Bottom of Screen (NAVD)
MW-1 ^a	3585568.7	4151099.3	1,076.26	1079.10	56.10	5	1,028.00	1,023.00
MW-2	3585568.0	4151093.3	1,076.01	1079.05	30.30	15	1,063.75	1,048.75
MW-3 ^{ad}	3585569.1	4152099.9	1,074.22	1076.93	58.47	5	1,023.46	1,018.46
MW-4	3585569.6	4152105.9	1,074.38	1077.38	26.70	15	1,065.68	1,050.68
MW-5 ^{ab}	3584559.2	4151802.4	1,077.45	1080.66	52.41	5	1,033.25	1,028.25
MW-7 ^{ac}	3584541.0	4151128.0	1,074.00	1075.98	47.85	5	1,033.13	1,028.13
MW-8 ^c	3584542.4	4151122.3	1,074.00	1075.78	24.73	15	1,066.05	1,051.05
MW-9 ^{ab}	3584471.1	4150346.8	1,076.11	1079.85	59.85	5	1,025.00	1,020.00
MW-10 ^b	3584472.9	4150352.3	1,076.41	1080.28	29.59	15	1,065.69	1,050.69
MW-11	3585119.9	4150620.0	1,078.86	1081.32	37.10	25	1,069.22	1,044.22
MW-12 ^b	3584882.6	4150461.9	1,084.41	1087.46	35.84	10	1,061.62	1,051.62
MW-13	3584757.1	4150325.5	1,083.47	1085.58	35.10	10	1,060.48	1,050.48
MW-14	3585319.1	4150695.0	1,079.19	1081.04	29.78	15	1,066.26	1,051.26
MW-15	3584908.1	4152060.7	1,074.89	1076.85	25.19	15	1,066.66	1,051.66
MW-16	3585839.1	4150839.6	1,079.43	1082.37	33.65	15	1,063.72	1,048.72
MW-17	3585877.3	4151284.6	1,077.94	1080.64	28.58	15	1,067.06	1,052.06
MW-18	3585768.6	4151871.1	1,074.51	1077.11	28.54	15	1,063.57	1,048.57
MW-19	3585458.4	4150566.5	1,078.44	1081.18	33.65	15	1,062.53	1,047.53
MW-20	3584978.0	4150342.7	1,079.65	1082.07	33.15	15	1,063.92	1,048.92
MW-21	3584339.3	4149933.9	1,071.00	1074.00	23.17	15	1,065.83	1,050.83
MW-22	3585155.1	4149967.7	1,081.90	1084.71	33.62	15	1,066.09	1,051.09
MW-23	3584829.0	4149032.5	1,077.38	1080.01	28.09	15	1,066.92	1,051.92
MW-24	3584330.5	4149078.0	1,076.38	1078.92	28.41	15	1,065.51	1,050.51
MW-25	3585624.2	4150795.3	1,077.19	1080.09	31.64	15	1,063.45	1,048.45
MW-26	3585619.0	4150889.1	1,075.73	1078.56	29.80	15	1,063.76	1,048.76
MW-27	3585614.9	4150995.3	1,075.50	1078.17	29.68	15	1,063.49	1,048.49
MW-28	3585610.2	4151095.2	1,075.68	1078.83	30.14	15	1,063.69	1,048.69
MW-29	3585605.7	4151195.4	1,075.79	1078.81	29.77	15	1,064.04	1,049.04
MW-30	3585601.1	4151295.0	1,075.98	1078.73	30.09	15	1,063.64	1,048.64
MW-31	3585596.5	4151395.1	1,075.65	1078.70	29.90	15	1,063.80	1,048.80
MW-32	3585543.4	4150891.4	1,075.35	1078.53	29.76	15	1,063.77	1,048.77
MW-33	3585537.0	4150982.1	1,075.93	1078.66	30.08	15	1,063.58	1,048.58
MW-34	3585535.6	4151060.8	1,076.13	1078.85	30.07	15	1,063.78	1,048.78
MW-35	3585529.9	4151126.3	1,076.20	1078.26	30.10	15	1,063.16	1,048.16
MW-36	3585526.1	4151191.1	1,076.34	1078.76	30.10	15	1,063.66	1,048.66
MW-37	3585520.0	4151290.9	1,076.17	1079.16	29.95	15	1,064.21	1,049.21
MW-38	3585515.1	4151090.4	1,076.34	1079.27	30.50	15	1,063.77	1,048.77
MW-39	3584497.5	4150100.5	1,073.12	1076.32	27.50	15	1,063.82	1,048.82

Well Construction Details
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Well Identification	Northing	Easting	Monitoring Well Construction					
			Ground Surface Elevation (NAVD)	Top of Casing (NAVD)	Total Depth (feet BTOC)	Screen Length (feet)	Top of Screen (NAVD)	Bottom of Screen (NAVD)
MW-40	3584497.5	4150251.0	1,076.79	1079.73	31.25	15	1,063.48	1,048.48
MW-41	3584498.1	4150316.7	1,077.09	1079.49	30.86	15	1,063.63	1,048.63
MW-42	3584498.5	4150386.5	1,076.81	1079.85	31.19	15	1,063.66	1,048.66
MW-43	3584498.9	4150451.5	1,077.13	1080.18	31.43	15	1,063.75	1,048.75
MW-44 ^f	3584499.6	4150551.3	1,076.19	1078.79	30.07	15	1,063.72	1,048.72
MW-45	3584410.7	4149952.7	1,072.44	1075.15	25.70	15	1,064.45	1,049.45
MW-46	3584410.3	4150052.6	1,070.89	1074.00	26.65	15	1,062.35	1,047.35
MW-47 ^e	3584410.0	4150152.3	1,070.47	1073.22	25.74	15	1,062.48	1,047.48
MW-48	3584417.4	4150251.7	1,072.52	1075.51	26.16	15	1,064.35	1,049.35
MW-49	3584415.8	4150353.2	1,072.41	1075.16	26.05	15	1,064.11	1,049.11
MW-50	3584416.4	4150452.0	1,072.42	1075.43	26.15	15	1,064.28	1,049.28
MW-51	3584407.2	4150544.0	1072.11	1075.10	25.30	15	1,064.80	1,049.80
MW-52	3584311.6	4150311.5	1070.42	1073.37	25.59	15	1,062.78	1,047.78
MW-53	3584313.1	4150409.4	1070.38	1073.35	26.14	15	1,062.21	1,047.21
MW-54	3584962.3	4150516.0	1081.74	1081.59	34.65	15	1,061.94	1,046.94
MW-55	3584819.4	4150393.5	1083.56	1086.40	38.19	15	1,063.21	1,048.21
MW-56	3584874.8	4150402.5	1080.86	1080.97	34.10	15	1,061.87	1,046.87
MW-57	3584846.7	4150090.8	1071.40	1074.37	28.16	15	1,061.21	1,046.21
MW-58	3584455.7	4150867.6	1071.93	1074.93	30.28	15	1,059.65	1,044.65
MW-59	3584483.2	4150984.5	1072.36	1075.28	30.28	15	1,060.00	1,045.00
MW-60	3584489.0	4151230.5	1072.58	1075.32	30.28	15	1,060.04	1,045.04
MW-61	3584384.3	4150995.5	1070.13	1073.15	29.12	15	1,059.03	1,044.03
MW-62	3584422.7	4151125.2	1070.96	1073.97	28.85	15	1,060.12	1,045.12
MW-63	3584310.5	4150522.8	1068.81	1071.95	25.29	15	1,061.66	1,046.66
MW-64	3584435.3	4150645.3	1072.55	1075.32	27.86	15	1,062.46	1,047.46

Notes:

^a Well is screened in deep portion of the alluvial aquifer.

BTOC - Below top of casing.

NAVD - North American Vertical Datum 1988.

Updated survey performed October 2018 by Snoozy Surveying

^b Top of casing elevations at MW-5, MW-9, MW-10, MW-12 were changed during 2018 monofill capping project.

MW-5 top of casing elevation changed from 1077.15 to 1080.66 prior to Sept. 4, 2018 guaging event; MW-9 (from 1076.20 to 1079.85) and MW-10 (from 1076.29 to 1080.28) on Oct. 18, 2018.

MW-12 top of casing elevation was changed from 1086.79 to 1087.46 on Oct. 11, 2018.

^c Top of casing elevations at MW-7 and MW-8 were changed on December 6, 2019 as part of monofill closure project.

MW-7 top of casing elevation changed from 1078.62 to 1075.98; MW-8 changed from 1078.54 to 1075.78.

^d Top of casing elevation at MW-3 was changed in October 2022 to accommodate apparent settlement of the well pad. Approximately 4-inches of casing was removed.

^e Top of casing elevation at MW-47 was changed in November 2024 to accommodate apparent settlement of the well pad. Elevation changed from 1073.67 to 1073.22.

^f Top of casing elevation at MW-44 was changed in November 2025 to accommodate apparent settlement of the well pad. Approximately 2.9-inches of casing was removed.

Table 2.3

Monitoring Well Screen Occlusion Evaluation
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

				20-Aug-2018		29-Oct-2018		2-Mar-2020		19-Aug-2020		14-Sep-2020		7-Sep-2021		26-Sep-2022		11-Sep-2023		16-Sep-2024		2-Sep-2025	
Well	Top of Casing Elevation	Total Well Depth Below Top of Casing (TOC) (feet)	Screen Length (feet)	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded
MW-1 ^a	1079.10	56.10	5	56.18	-1.6%	NM	NM	56.30	-4.0%	NM	NM	56.15	-1.0%	56.29	-3.8%	56.27	-3.4%	56.26	-3.2%	56.26	-3.2%	56.27	-3.4%
MW-2	1079.05	30.30	15	30.48	-1.2%	NM	NM	30.44	-0.9%	NM	NM	30.45	-1.0%	30.44	-0.9%	30.44	-0.9%	30.44	-0.9%	30.43	-0.9%	30.44	-0.9%
MW-3 ^{ad}	1076.93	58.47	5	58.83	-0.6%	NM	NM	59.05	-5.0%	NM	NM	58.75	1.0%	59.02	-4.4%	NM	NM	58.5	-0.6%	58.70	-4.6%	58.70	-4.6%
MW-4	1077.38	26.70	15	26.50	1.3%	NM	NM	26.47	1.5%	NM	NM	26.70	0.0%	26.25	3.0%	26.17	3.5%	26.16	3.6%	26.64	0.4%	26.22	3.2%
MW-5 ^{ab}	1080.66	52.41	5	49.15	-5.0%	NM	NM	52.62	-4.2%	NM	NM	52.60	-3.8%	52.68	-5.4%	52.58	-3.4%	52.58	-3.4%	52.67	-5.2%	52.56	-3.0%
MW-7 ^{ac}	1075.98	47.85	5	50.68	-5.6%	NM	NM	47.85	0.0%	NM	NM	47.80	1.0%	47.98	-2.6%	48.03	-3.6%	48.04	-3.8%	48.14	-5.8%	47.85	0.0%
MW-8 ^c	1075.78	24.73	15	27.72	-0.8%	NM	NM	24.73	0.0%	NM	NM	24.60	0.9%	24.71	0.1%	24.68	0.3%	24.72	0.1%	24.72	0.1%	24.64	0.6%
MW-9 ^{ab}	1079.85	59.85	5	56.03	3.4%	NM	NM	60.13	-5.6%	NM	NM	59.90	-1.0%	60.00	-3.0%	60.1	-5.0%	60.1	-5.0%	60.16	-6.2%	60.09	-4.8%
MW-10 ^b	1080.28	29.59	15	25.75	-1.0%	NM	NM	29.73	-0.9%	NM	NM	29.75	-1.1%	29.75	-1.1%	29.75	-1.1%	29.72	-0.9%	29.77	-1.2%	29.69	-0.7%
MW-11	1081.32	37.10	25	37.40	-1.2%	NM	NM	37.46	-1.4%	NM	NM	37.35	-1.0%	37.36	-1.0%	37.38	-1.1%	37.39	-1.2%	37.37	-1.1%	37.36	-1.0%
MW-12 ^b	1087.46	35.84	10	34.98	-1.8%	35.51	3.3%	35.55	2.9%	NM	NM	35.50	3.4%	35.58	2.6%	35.55	2.9%	35.53	3.1%	35.57	2.7%	35.57	2.7%
MW-13	1085.58	35.10	10	35.10	0.0%	NM	NM	35.29	-1.9%	NM	NM	35.10	0.0%	35.28	-1.8%	35.28	-1.8%	35.28	-1.8%	35.36	-2.6%	35.27	-1.7%
MW-14	1081.04	29.78	10	29.20	5.8%	NM	NM	29.27	5.1%	NM	NM	29.20	5.8%	29.24	5.4%	29.25	5.3%	29.24	5.4%	29.30	4.8%	29.23	5.5%
MW-15	1076.85	25.19	10	25.07	1.2%	NM	NM	25.18	0.1%	NM	NM	25.20	-0.1%	25.18	0.1%	25.16	0.3%	25.17	0.2%	25.27	-0.8%	25.20	-0.1%
MW-16	1082.37	33.65	15	NI	NI	33.63	0.1%	33.61	0.3%	NM	NM	33.80	-1.0%	33.60	0.3%	33.61	0.3%	33.6	0.3%	33.62	0.2%	33.59	0.4%
MW-17	1080.64	28.58	15	NI	NI	28.55	0.2%	28.60	-0.1%	NM	NM	28.60	-0.1%	28.53	0.3%	28.54	0.3%	28.54	0.3%	28.54	0.3%	28.54 ^e	0.3%
MW-18	1077.11	28.54	15	NI	NI	28.50	0.3%	28.50	0.3%	NM	NM	28.50	0.3%	28.50	0.3%	28.5	0.3%	28.51	0.2%	28.59	-0.3%	28.52	0.1%
MW-19	1081.18	33.65	15	NI	NI	33.57	0.5%	33.62	0.2%	NM	NM	33.60	0.3%	33.50	1.0%	33.59	0.4%	33.61	0.3%	33.66	-0.1%	33.59	0.4%
MW-20	1082.07	33.15	15	NI	NI	33.13	0.1%	33.12	0.2%	NM	NM	33.15	0.0%	33.11	0.3%	33.12	0.2%	33.12	0.2%	33.19	-0.3%	33.11	0.3%
MW-21	1074.00	23.17	15	NI	NI	23.15	0.1%	23.53	-2.4%	NM	NM	23.18	-0.1%	23.13	0.3%	23.12	0.3%	23.13	0.3%	23.23	-0.4%	23.13	0.3%
MW-22	1084.71	33.6	15	NI	NI	33.56	0.4%	33.55	0.5%	NM	NM	33.60	0.1%	33.57	0.3%	33.55	0.5%	33.54	0.5%	33.54	0.5%	33.54	0.5%
MW-23	1080.01	28.09	15	NI	NI	28.07	0.1%	28.07	0.1%	NM	NM	28.05	0.3%	28.05	0.3%	28.02	0.5%	28.02	0.5%	28.02	0.5%	28.03	0.4%
MW-24	1078.92	28.41	15	NI	NI	28.39	0.1%	28.39	0.1%	NM	NM	28.40	0.1%	28.38	0.2%	28.34	0.5%	28.37	0.3%	28.37	0.3%	28.37	0.3%
MW-25	1080.09	31.64	15	NI	NI	NI	NI	31.64	0.0%	31.65	-0.1%	NM	NM	31.63	0.1%	31.61	0.2%	31.61	0.2%	31.61	0.2%	31.62	0.1%
MW-26	1078.56	29.80	15	NI	NI	NI	NI	29.80	0.0%	29.80	0.0%	NM	NM	29.78	0.1%	29.76	0.3%	29.78	0.1%	29.79	0.1%	29.80	0.0%
MW-27	1078.17	29.68	15	NI	NI	NI	NI	29.68	0.0%	29.66	0.1%	NM	NM	29.67	0.1%	29.61	0.5%	29.63	0.3%	29.65	0.2%	29.66	0.1%
MW-28	1078.83	30.14	15	NI	NI	NI	NI	30.14	0.0%	30.12	0.1%	NM	NM	30.11	0.2%	30.11	0.2%	30.1	0.3%	30.09	0.3%	30.12	0.1%
MW-29	1078.81	29.77	15	NI	NI	NI	NI	29.77	0.0%	29.77	0.0%	NM	NM	29.76	0.1%	29.75	0.1%	29.72	0.3%	29.75	0.1%	29.75	0.1%
MW-30	1078.73	30.09	15	NI	NI	NI	NI	30.09	0.0%	30.07	0.1%	NM	NM	30.09	0.0%	30.05	0.3%	30.04	0.3%	30.07	0.1%	30.08	0.1%
MW-31	1078.70	29.90	15	NI	NI	NI	NI	29.90	0.0%	29.94	-0.3%	NM	NM	29.92	-0.1%	29.87	0.2%	29.89	0.1%	29.91	-0.1%	29.92	-0.1%
MW-32	1078.53	29.76	15	NI	NI	NI	NI	29.76	0.0%	29.77	-0.1%	NM	NM	29.71	0.3%	29.75	0.1%	29.74	0.1%	29.75	0.1%	29.75	0.1%
MW-33	1078.66	30.08	15	NI	NI	NI	NI	30.08	0.0%	30.07	0.1%	NM	NM	30.05	0.2%	30.08	0.0%	30.09	-0.1%	30.08	0.0%	30.07	0.1%
MW-34	1078.85	30.07	15	NI	NI	NI	NI	30.07	0.0%	29.98	0.6%	NM	NM	30.09	-0.1%	30.07	0.0%	30.07	0.0%	30.07	0.0%	30.08	-0.1%
MW-35	1078.26	30.10	15	NI	NI	NI	NI	30.10	0.0%	30.12	-0.1%	NM	NM	30.10	0.0%	30.1	0.0%	30.1	0.0%	30.09	0.1%	30.09	0.1%

Table 2.3

Monitoring Well Screen Occlusion Evaluation
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

				20-Aug-2018		29-Oct-2018		2-Mar-2020		19-Aug-2020		14-Sep-2020		7-Sep-2021		26-Sep-2022		11-Sep-2023		16-Sep-2024		2-Sep-2025	
Well	Top of Casing Elevation	Total Well Depth Below Top of Casing (TOC) (feet)	Screen Length (feet)	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded	Measured Well Depth (feet)	Percent Screen Occluded
MW-36	1078.76	30.10	15	NI	NI	NI	NI	30.10	0.0%	30.10	0.0%	NM	NM	30.12	-0.1%	30.1	0.0%	30.1	0.0%	30.10	0.0%	30.10	0.0%
MW-37	1079.16	29.95	15	NI	NI	NI	NI	29.95	0.0%	29.98	-0.2%	NM	NM	29.95	0.0%	29.94	0.1%	29.95	0.0%	29.94	0.1%	29.95	0.0%
MW-38	1079.27	30.50	15	NI	NI	NI	NI	30.50	0.0%	30.50	0.0%	NM	NM	30.51	-0.1%	30.46	0.3%	30.49	0.1%	30.50	0.0%	30.48	0.1%
MW-39	1076.32	27.50	15	NI	NI	NI	NI	27.50	0.0%	27.51	-0.1%	NM	NM	27.50	0.0%	27.5	0.0%	27.51	-0.1%	27.58	-0.5%	27.49	0.1%
MW-40	1079.73	31.25	15	NI	NI	NI	NI	31.25	0.0%	31.25	0.0%	NM	NM	31.26	-0.1%	31.24	0.1%	31.24	0.1%	31.32	-0.5%	31.23	0.1%
MW-41	1079.49	30.86	15	NI	NI	NI	NI	30.86	0.0%	30.88	-0.1%	NM	NM	30.88	-0.1%	30.86	0.0%	30.86	0.0%	30.96	-0.7%	30.86	0.0%
MW-42	1079.85	31.19	15	NI	NI	NI	NI	31.19	0.0%	31.22	-0.2%	NM	NM	31.21	-0.1%	31.19	0.0%	31.18	0.1%	31.27	-0.5%	31.18	0.1%
MW-43	1080.18	31.43	15	NI	NI	NI	NI	31.43	0.0%	31.45	-0.1%	NM	NM	31.40	0.2%	31.41	0.1%	31.41	0.1%	31.40	0.2%	31.40	0.2%
MW-44	1079.03	30.31	15	NI	NI	NI	NI	30.31	0.0%	30.31	0.0%	NM	NM	30.20	0.7%	30.13	1.2%	29.54	5.1%	30.25	0.4%	29.41	6.0%
MW-45	1075.15	25.70	15	NI	NI	NI	NI	25.70	0.0%	25.68	0.1%	NM	NM	25.69	0.1%	25.69	0.1%	25.71	-0.1%	25.80	-0.7%	25.70	0.0%
MW-46	1074.00	26.65	15	NI	NI	NI	NI	26.65	0.0%	26.65	0.0%	NM	NM	26.68	-0.2%	26.64	0.1%	26.65	0.0%	26.74	-0.6%	26.64	0.1%
MW-47 ^f	1073.22	25.74	15	NI	NI	NI	NI	26.19	0.0%	26.15	0.3%	NM	NM	26.20	-0.1%	26.15	0.3%	26.12	0.5%	26.25	-0.4%	25.73	0.1%
MW-48	1075.51	26.16	15	NI	NI	NI	NI	26.16	0.0%	26.20	-0.3%	NM	NM	26.25	-0.6%	26.2	-0.3%	26.19	-0.2%	26.27	-0.7%	26.20	-0.3%
MW-49	1075.16	26.05	15	NI	NI	NI	NI	26.05	0.0%	26.06	-0.1%	NM	NM	26.05	0.0%	26.06	-0.1%	25.05	6.7%	26.05	0.0%	26.05	0.0%
MW-50	1075.43	26.15	15	NI	NI	NI	NI	26.15	0.0%	26.14	0.1%	NM	NM	26.10	0.3%	26.11	0.3%	26.11	0.3%	26.12	0.2%	26.12	0.2%
MW-51	1075.10	25.30	15	NI	NI	NI	NI	NI	NI	25.30	0.0%	NM	NM	25.41	-0.7%	25.36	-0.4%	25.33	-0.2%	25.34	-0.3%	25.31	-0.1%
MW-52	1073.37	25.59	15	NI	NI	NI	NI	NI	NI	25.59	0.0%	NM	NM	25.70	-0.7%	25.69	-0.7%	25.68	-0.6%	25.70	-0.7%	25.69	-0.7%
MW-53	1073.35	26.14	15	NI	NI	NI	NI	NI	NI	26.14	0.0%	NM	NM	26.11	0.2%	26.12	0.1%	26.13	0.1%	26.12	0.1%	26.13	0.1%

Notes:

Elevations in feet NAVD88 (North American Vertical Datum 1988).

NI - Well not installed at time of measurement.

NM - Not measured.

% - Percent.

^a Well is screened in deep portion of the alluvial aquifer.

^b Top of casing elevations at MW-5, MW-9, MW-10, MW-12 were changed during 2018 monofill capping project.

MW-5 top of casing elevation changed from 1077.15 to 1080.66 prior to Sept. 4, 2018 guaging event; MW-9 (from 1076.20 to 1079.85) and MW-10 (from 1076.29 to 1080.28) on Oct. 18, 2018.

Monitoring well MW-12 was modified on October 11, 2018; the above grade casing was replaced due to damage, changing the total depth from 34.80 feet to 35.84 feet below TOC.

^c Top of casing elevations at MW-7 and MW-8 were changed on December 6, 2019 as part of monofill closure project. MW-7 top of casing elevation changed from 1078.62 to 1075.98; MW-8 changed from 1078.54 to 1075.78.

^d Top of casing elevation at MW-3 was changed in October 2022 to accommodate apparent settlement of the well pad and allow the hinged lid to properly close. Approximately 4-inches of casing was removed.

^e Total depth measurement collected on December 10, 2024.

^f Top of casing elevation at MW-47 was changed in November 2024 to accommodate apparent settlement of the well pad. Elevation changed from 1073.67 to 1073.22.

Table 2.4

Appendix III Parameters (Detection Monitoring)
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Analyte	Analytical Method
Boron	EPA 6020A
Calcium	EPA 6020A
Chloride	EPA 9056A
Fluoride	EPA 9056A
pH	SM 4500 H+B
Sulfate	EPA 9056A
Total Dissolved Solids (TDS)	SM 2540C

Table 2.5

Appendix IV Parameters (Assessment Monitoring)
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Analyte	Analytical Method
Antimony	EPA 6020A
Arsenic	EPA 6020A
Barium	EPA 6020A
Beryllium	EPA 6020A
Cadmium	EPA 6020A
Chromium	EPA 6020A
Cobalt	EPA 6020A
Fluoride	EPA 9056A
Lead	EPA 6020A
Lithium	EPA 6020A
Mercury	EPA 7470A
Molybdenum	EPA 6020A
Selenium	EPA 6020A
Thallium	EPA 6020A
Radium 226 and 228 combined	EPA 9315/9320

Table 2.6												
Summary of Groundwater Monitoring Events												
MidAmerican Energy Company												
Neal South CCR Monofill												
Salix, Iowa												
	MW-4	MW-15	MW-2	MW-8	MW-10	MW-11	MW-12	MW-13	MW-14	MW-16 (Upgradient)	MW-17 (Upgradient)	MW-18 (Upgradient)
Sampling Dates												
December 9, 2015	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	-	-	-
February 29 - March 1, 2016	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	-	-	-
June 6, 2016	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	-	-	-
September 19-20, 2016	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	-	-	-
December 19, 2016	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	-	-	-
February 20-21, 2017	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	-	-	-
April 24-25, 2017	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	-	-	-
July 5, 2017	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	-	-	-
September 11, 2017	Detection	Detection	Detection	Detection	Detection	Detection	Detection	Detection	Detection	-	-	-
January 30, 2018	-	-	-	Verification	Verification	-	Verification	-	-	-	-	-
April 18, 2018	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	-	-	-
August 21, 2018	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	-	-	-
September 4, 2018	-	-	Supplemental	-	Supplemental	-	-	Supplemental	-	-	-	-
September 18, 2018	-	-	Supplemental	-	Supplemental	-	-	Supplemental	-	-	-	-
October 30-31, 2018	-	-	-	-	-	-	-	-	-	Baseline	Baseline	Baseline
November 19-21, 2018	-	-	-	-	-	-	-	-	-	Baseline	Baseline	Baseline
December 3-5, 2018	-	-	Supplemental	-	Supplemental	-	-	-	-	Baseline	Baseline	Baseline
January 3, 2019	-	-	-	-	-	-	-	-	-	Baseline	Baseline	Baseline
January 17, 2019	-	-	Supplemental	-	-	-	-	-	-	Baseline	Baseline	Baseline
January 28, 2019	-	-	-	-	-	-	-	-	-	Baseline	Baseline	Baseline
February 21, 2019	-	-	-	-	-	-	-	-	-	Baseline	Baseline	Baseline
March 7, 2019	-	-	-	-	-	-	-	-	-	Baseline	Baseline	Baseline
March 19-21, 2019	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
April 16-17, 2019	Verification	Verification	Verification	Verification	Verification	Verification	Verification	Verification	Verification	Verification	Verification	Verification
September 10-11, 2019	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
December 11-12, 2019	-	-	Corrective Action	-	Corrective Action	-	-	-	-	-	-	-
March 3-4, 2020	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
July 28-29, 2020	-	-	Corrective Action	-	Corrective Action	-	-	-	-	-	-	-
September 14-16, 2020	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
October 21-22, 2020	-	-	Corrective Action	-	Corrective Action	-	-	-	-	-	-	-
November 16-18, 2020	-	-	Corrective Action	-	Corrective Action	-	-	-	-	-	-	-
March 22-23 and 29, 2021	Assessment	Assessment	Assessment	Assessment	-	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
June 22-23, 2021	-	-	Corrective Action	-	Corrective Action	-	-	-	-	-	-	-
September 8-9, 2021	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
March 21-23, 2022	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
June 1-2, 2022	Verification	-	Verification	-	-	-	Verification	-	Verification	Verification	-	-
September 26-29, 2022	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
March 20-24, 2023 / April 4, 2023	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
June 5, 2023	-	-	-	-	-	-	Verification	-	-	-	-	-
September 5-7, 2023	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
March 11-13, 2024	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
June 3, 2024	-	Verification	-	Verification	-	-	Verification	-	Verification	-	-	-
September 3, 2024	-	-	-	Supplemental	-	-	Supplemental	-	-	-	-	-
September 16-18, 2024	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
November 13-15, 2024	-	-	-	Supplemental	-	-	-	-	-	-	-	-
December 10-11, 2024	-	-	-	Supplemental	-	-	-	-	-	-	-	-
March 18-April 1, 2025	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
September 2-4, 2025	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Number of Samples												
Appendix III Analytes	25	25	25	25	24	25	25	25	25	22	22	22
Appendix IV Analytes	24	24	24	24	23	24	24	24	24	22	22	22

Table 2.6

Summary of Groundwater Monitoring Events
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-27	MW-28	MW-29	MW-30
Sampling Dates												
December 9, 2015	-	-	-	-	-	-	-	-	-	-	-	-
February 29 - March 1, 2016	-	-	-	-	-	-	-	-	-	-	-	-
June 6, 2016	-	-	-	-	-	-	-	-	-	-	-	-
September 19-20, 2016	-	-	-	-	-	-	-	-	-	-	-	-
December 19, 2016	-	-	-	-	-	-	-	-	-	-	-	-
February 20-21, 2017	-	-	-	-	-	-	-	-	-	-	-	-
April 24-25, 2017	-	-	-	-	-	-	-	-	-	-	-	-
July 5, 2017	-	-	-	-	-	-	-	-	-	-	-	-
September 11, 2017	-	-	-	-	-	-	-	-	-	-	-	-
January 30, 2018	-	-	-	-	-	-	-	-	-	-	-	-
April 18, 2018	-	-	-	-	-	-	-	-	-	-	-	-
August 21, 2018	-	-	-	-	-	-	-	-	-	-	-	-
September 4, 2018	-	-	-	-	-	-	-	-	-	-	-	-
September 18, 2018	-	-	-	-	-	-	-	-	-	-	-	-
October 30-31, 2018	Characterization	Characterization	Characterization	Characterization	Characterization	Characterization	-	-	-	-	-	-
November 19-21, 2018	Characterization	Characterization	Characterization	Characterization	Characterization	Characterization	-	-	-	-	-	-
December 3-5, 2018	Characterization	Characterization	Characterization	Characterization	Characterization	Characterization	-	-	-	-	-	-
January 3, 2019	-	-	-	-	-	-	-	-	-	-	-	-
January 17, 2019	-	-	-	-	-	-	-	-	-	-	-	-
January 28, 2019	-	-	-	-	-	-	-	-	-	-	-	-
February 21, 2019	-	-	-	-	-	-	-	-	-	-	-	-
March 7, 2019	-	-	-	-	-	-	-	-	-	-	-	-
March 19-21, 2019	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	-	-	-	-	-	-
April 16-17, 2019	Verification	Verification	Verification	Verification	Verification	Verification	-	-	-	-	-	-
September 10-11, 2019	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	-	-	-	-	-	-
December 11-12, 2019	-	-	-	-	-	-	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
March 3-4, 2020	Assessment	Assessment	Assessment	-	-	-	-	-	-	-	-	-
July 28-29, 2020	-	-	-	-	-	-	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
September 14-16, 2020	Assessment	Assessment	Assessment	-	-	-	-	Corrective Action	-	Corrective Action	-	Corrective Action
October 21-22, 2020	-	-	-	-	-	-	-	Corrective Action	-	Corrective Action	-	Corrective Action
November 16-18, 2020	-	-	-	-	-	-	-	Corrective Action	-	Corrective Action	-	Corrective Action
March 22-23 and 29, 2021	Assessment	Assessment	Assessment	-	-	-	-	Corrective Action	-	Corrective Action	-	Corrective Action
June 22-23, 2021	-	-	-	-	-	-	-	Corrective Action	-	Corrective Action	-	Corrective Action
September 8-9, 2021	Assessment	Assessment	Assessment	-	-	-	-	Corrective Action	-	Corrective Action	-	Corrective Action
March 21-23, 2022	Assessment	Assessment	Assessment	-	-	-	-	Corrective Action	-	Corrective Action	-	Corrective Action
June 1-2, 2022	-	-	Verification	-	-	-	-	-	-	-	-	-
September 26-29, 2022	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	-	Corrective Action	-	Corrective Action	-	Corrective Action
March 20-24, 2023 / April 4, 2023	Assessment	Assessment	Assessment	-	-	-	-	Corrective Action	-	Corrective Action	-	Corrective Action
June 5, 2023	-	-	-	-	-	-	-	-	-	-	-	-
September 5-7, 2023	Assessment	Assessment	Assessment	-	-	-	-	Corrective Action	-	Corrective Action	-	Corrective Action
March 11-13, 2024	Assessment	Assessment	Assessment	-	-	-	-	Corrective Action	-	Corrective Action	-	Corrective Action
June 3, 2024	-	-	-	-	-	-	-	-	-	-	-	-
September 3, 2024	-	-	-	-	-	-	-	-	-	-	-	-
September 16-18, 2024	Assessment	Assessment	Assessment	-	-	-	-	Corrective Action	-	Corrective Action	-	Corrective Action
November 13-15, 2024	-	-	-	-	-	-	-	-	-	-	-	-
December 10-11, 2024	-	-	-	-	Supplemental	Supplemental	-	-	-	-	-	-
March 18-April 1, 2025	Assessment	Assessment	Assessment	-	-	-	-	Corrective Action	-	Corrective Action	-	Corrective Action
September 2-4, 2025	Assessment	Assessment	Assessment	-	-	-	-	Corrective Action	Supplemental	Corrective Action	Supplemental	Corrective Action
Number of Samples												
Appendix III Analytes	17	17	17	7	7	7	-	-	-	-	-	-
Appendix IV Analytes	17	17	17	7	7	7	-	-	-	-	-	-

Table 2.6

Summary of Groundwater Monitoring Events
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

	MW-31	MW-32	MW-33	MW-34	MW-35	MW-36	MW-37	MW-38	MW-39	MW-40	MW-41	MW-42
Sampling Dates												
December 9, 2015	-	-	-	-	-	-	-	-	-	-	-	-
February 29 - March 1, 2016	-	-	-	-	-	-	-	-	-	-	-	-
June 6, 2016	-	-	-	-	-	-	-	-	-	-	-	-
September 19-20, 2016	-	-	-	-	-	-	-	-	-	-	-	-
December 19, 2016	-	-	-	-	-	-	-	-	-	-	-	-
February 20-21, 2017	-	-	-	-	-	-	-	-	-	-	-	-
April 24-25, 2017	-	-	-	-	-	-	-	-	-	-	-	-
July 5, 2017	-	-	-	-	-	-	-	-	-	-	-	-
September 11, 2017	-	-	-	-	-	-	-	-	-	-	-	-
January 30, 2018	-	-	-	-	-	-	-	-	-	-	-	-
April 18, 2018	-	-	-	-	-	-	-	-	-	-	-	-
August 21, 2018	-	-	-	-	-	-	-	-	-	-	-	-
September 4, 2018	-	-	-	-	-	-	-	-	-	-	-	-
September 18, 2018	-	-	-	-	-	-	-	-	-	-	-	-
October 30-31, 2018	-	-	-	-	-	-	-	-	-	-	-	-
November 19-21, 2018	-	-	-	-	-	-	-	-	-	-	-	-
December 3-5, 2018	-	-	-	-	-	-	-	-	-	-	-	-
January 3, 2019	-	-	-	-	-	-	-	-	-	-	-	-
January 17, 2019	-	-	-	-	-	-	-	-	-	-	-	-
January 28, 2019	-	-	-	-	-	-	-	-	-	-	-	-
February 21, 2019	-	-	-	-	-	-	-	-	-	-	-	-
March 7, 2019	-	-	-	-	-	-	-	-	-	-	-	-
March 19-21, 2019	-	-	-	-	-	-	-	-	-	-	-	-
April 16-17, 2019	-	-	-	-	-	-	-	-	-	-	-	-
September 10-11, 2019	-	-	-	-	-	-	-	-	-	-	-	-
December 11-12, 2019	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
March 3-4, 2020	-	-	-	-	-	-	-	-	-	-	-	-
July 28-29, 2020	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
September 14-16, 2020	-	Corrective Action	Corrective Action	Corrective Action	-	Corrective Action	-	-	-	-	-	-
October 21-22, 2020	-	Corrective Action	Corrective Action	Corrective Action	-	Corrective Action	-	-	-	-	-	-
November 16-18, 2020	-	Corrective Action	Corrective Action	Corrective Action	-	Corrective Action	-	-	-	-	-	-
March 22-23 and 29, 2021	-	Corrective Action	Corrective Action	Corrective Action	-	Corrective Action	-	-	-	-	-	-
June 22-23, 2021	-	Corrective Action	Corrective Action	Corrective Action	-	Corrective Action	-	-	-	-	-	-
September 8-9, 2021	-	Corrective Action	Corrective Action	Corrective Action	-	Corrective Action	-	-	-	-	-	-
March 21-23, 2022	-	Corrective Action	Corrective Action	Corrective Action	-	Corrective Action	-	-	-	-	-	-
June 1-2, 2022	-	-	-	-	-	-	-	-	-	-	-	-
September 26-29, 2022	-	Corrective Action	Corrective Action	Corrective Action	-	Corrective Action	-	-	-	-	-	-
March 20-24, 2023 / April 4, 2023	-	Corrective Action	Corrective Action	Corrective Action	-	Corrective Action	-	-	-	-	-	-
June 5, 2023	-	-	-	-	-	-	-	-	-	-	-	-
September 5-7, 2023	-	Corrective Action	Corrective Action	Corrective Action	-	Corrective Action	-	-	-	-	-	-
March 11-13, 2024	-	Corrective Action	Corrective Action	Corrective Action	-	Corrective Action	-	-	-	-	-	-
June 3, 2024	-	-	-	-	-	-	-	-	-	-	-	-
September 3, 2024	-	-	-	-	-	-	-	-	-	-	-	-
September 16-18, 2024	-	Corrective Action	Corrective Action	Corrective Action	-	Corrective Action	-	-	-	-	-	-
November 13-15, 2024	-	-	-	-	-	-	-	-	-	-	-	-
December 10-11, 2024	-	-	-	-	-	-	-	-	-	-	-	-
March 18-April 1, 2025	-	Corrective Action	Corrective Action	Corrective Action	-	Corrective Action	-	-	-	-	-	-
September 2-4, 2025	Supplemental	Corrective Action	Corrective Action	Corrective Action	-	Corrective Action	-	-	-	-	-	-
Number of Samples												
Appendix III Analytes	-	-	-	-	-	-	-	-	-	-	-	-
Appendix IV Analytes	-	-	-	-	-	-	-	-	-	-	-	-

Table 2.6

Summary of Groundwater Monitoring Events
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

	MW-43	MW-44	MW-45	MW-46	MW-47	MW-48	MW-49	MW-50	MW-51	MW-52	MW-53
Sampling Dates											
December 9, 2015	-	-	-	-	-	-	-	-	-	-	-
February 29 - March 1, 2016	-	-	-	-	-	-	-	-	-	-	-
June 6, 2016	-	-	-	-	-	-	-	-	-	-	-
September 19-20, 2016	-	-	-	-	-	-	-	-	-	-	-
December 19, 2016	-	-	-	-	-	-	-	-	-	-	-
February 20-21, 2017	-	-	-	-	-	-	-	-	-	-	-
April 24-25, 2017	-	-	-	-	-	-	-	-	-	-	-
July 5, 2017	-	-	-	-	-	-	-	-	-	-	-
September 11, 2017	-	-	-	-	-	-	-	-	-	-	-
January 30, 2018	-	-	-	-	-	-	-	-	-	-	-
April 18, 2018	-	-	-	-	-	-	-	-	-	-	-
August 21, 2018	-	-	-	-	-	-	-	-	-	-	-
September 4, 2018	-	-	-	-	-	-	-	-	-	-	-
September 18, 2018	-	-	-	-	-	-	-	-	-	-	-
October 30-31, 2018	-	-	-	-	-	-	-	-	-	-	-
November 19-21, 2018	-	-	-	-	-	-	-	-	-	-	-
December 3-5, 2018	-	-	-	-	-	-	-	-	-	-	-
January 3, 2019	-	-	-	-	-	-	-	-	-	-	-
January 17, 2019	-	-	-	-	-	-	-	-	-	-	-
January 28, 2019	-	-	-	-	-	-	-	-	-	-	-
February 21, 2019	-	-	-	-	-	-	-	-	-	-	-
March 7, 2019	-	-	-	-	-	-	-	-	-	-	-
March 19-21, 2019	-	-	-	-	-	-	-	-	-	-	-
April 16-17, 2019	-	-	-	-	-	-	-	-	-	-	-
September 10-11, 2019	-	-	-	-	-	-	-	-	-	-	-
December 11-12, 2019	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	-	-	-
March 3-4, 2020	-	-	-	-	-	-	-	-	-	-	-
July 28-29, 2020	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
September 14-16, 2020	Corrective Action	-	-	-	-	-	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
October 21-22, 2020	Corrective Action	-	-	-	-	-	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
November 16-18, 2020	Corrective Action	-	-	-	-	-	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
March 22-23 and 29, 2021	Corrective Action	-	-	-	-	-	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
June 22-23, 2021	Corrective Action	-	-	-	-	-	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
September 8-9, 2021	Corrective Action	-	-	-	-	-	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
March 21-23, 2022	Corrective Action	-	-	-	-	-	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
June 1-2, 2022	-	-	-	-	-	-	-	-	-	-	-
September 26-29, 2022	Corrective Action	-	-	-	-	-	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
March 20-24, 2023 / April 4, 2023	Corrective Action	-	-	-	-	-	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
June 5, 2023	-	-	-	-	-	-	-	-	-	-	-
September 5-7, 2023	Corrective Action	-	-	-	-	-	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
March 11-13, 2024	Corrective Action	-	-	-	-	-	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
June 3, 2024	-	-	-	-	-	-	-	-	-	-	-
September 3, 2024	-	-	-	-	-	-	-	-	-	-	-
September 16-18, 2024	Corrective Action	-	-	-	-	-	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
November 13-15, 2024	-	-	-	-	-	-	-	-	-	-	-
December 10-11, 2024	-	-	-	-	-	-	-	-	-	-	-
March 18-April 1, 2025	Corrective Action	-	-	-	-	-	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
September 2-4, 2025	Corrective Action	-	-	-	-	-	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action
Number of Samples											
Appendix III Analytes	-	-	-	-	-	-	-	-	-	-	-
Appendix IV Analytes	-	-	-	-	-	-	-	-	-	-	-

- Notes:
1. Baseline monitoring events included analysis of both Appendix III (Detection Monitoring) and Appendix IV (Assessment Monitoring) analytes.
 2. Detection monitoring events include the analysis of Appendix III (Detection Monitoring) analytes only.
 3. Assessment monitoring events included analysis of both Appendix III (Detection Monitoring) and Appendix IV (Assessment Monitoring) analytes.
 4. Characterization monitoring events included analysis of select Appendix III (Detection Monitoring) and select Appendix IV (Assessment Monitoring) analytes.
 5. Supplemental monitoring events included analysis of analytes to aid in further understanding the geochemical conditions of the aquifer.
 6. Corrective Action monitoring events include analysis of arsenic and geochemical indicator parameters for monitoring the performance of the corrective action.
 7. On Dec. 1-2, 2022 Radium 226/228 (combined) samples were collected from MW-12, MW-17, and MW-18 to replace samples from Sep. 2022 that were lost during shipment.

Table 3.1
Groundwater Elevation Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Well Identificatio	Top of Casing (feet NAVD88) ^c	Total Depth (feet BTOC)	10/29/2018	11/19/2018	12/3/2018	1/3/2019	1/16/2019	1/29/2019	2/14/2019	2/21/2019	3/7/2019	3/18/2019	4/16/2019	9/9/2019	12/9/2019	1/9/2020	3/2/2020	7/27/2020	8/19/2020	9/14/2020	10/21/2020	11/16/2020	3/23/2021
MW-1 ^a	1079.10	56.1	1064.66	1063.95	1063.53	1062.10	1061.43	1060.83	1060.17	1059.97	1059.42	1060.33	1063.56	1064.92	1065.01	1063.14	1060.90	1059.86	1059.07	1059.01	1058.84	1058.61	1054.08
MW-2	1079.05	30.3	1064.80	1064.10	1063.72	1062.37	1061.71	1061.07	1060.45	1060.24	1059.70	1060.42	1063.63	1065.10	1065.22	1063.41	1061.37	1060.09	1059.35	1059.16	1059.03	1058.84	1055.27
MW-3 ^a	1076.93	58.5	1065.05	1064.36	1063.94	1062.72	1062.09	1061.52	1060.88	1060.63	1060.16	1061.09	1064.11	1065.21	1065.51	1063.82	1061.48	1060.41	1059.63	1059.54	1059.40	1059.25	1055.76
MW-4	1077.38	26.7	1065.05	1064.35	1063.94	1062.72	1062.12	1061.52	1060.92	1060.66	1060.20	1061.08	1064.11	1065.18	1065.52	1063.82	1061.50	1060.40	1059.64	1059.51	1059.71	1059.55	1056.07
MW-5 ^{ab}	1080.66	52.4	1064.96	1064.18	1063.79	1062.58	1061.93	1061.38	1060.70	1060.41	1060.01	1061.24	1064.14	1065.09	1065.27	1063.49	1061.34	1059.71	1059.43	1059.45	1059.35	1059.25	1055.66
MW-7 ^{ad}	1075.98	47.9	1064.77	1064.00	1063.63	1062.20	1061.58	1061.01	1060.35	1060.14	1059.62	1060.84	1063.94	1065.00	1065.08	1063.13	1061.00	1059.90	1059.08	1059.19	1059.04	1058.92	1055.24
MW-8 ^d	1075.78	24.7	1064.59	1063.82	1063.44	1062.03	1061.42	1060.82	1060.14	1059.96	1059.42	1060.57	1063.72	1064.94	1065.08	1063.13	1061.00	1059.89	1059.10	1058.92	1059.03	1058.91	1055.23
MW-9 ^{ab}	1079.85	59.8	1066.53	1063.80	1063.42	1061.71	1061.09	1060.50	1059.82	1059.56	1059.00	1060.52	1063.83	1064.94	1064.92	1062.82	1060.64	1059.60	1058.77	1059.07	1058.76	1058.65	1055.04
MW-10 ^b	1080.28	29.6	1064.55	1063.80	1063.44	1061.74	1061.10	1060.53	1059.84	1059.60	1059.05	1060.47	1063.79	1064.94	1064.92	1062.80	1060.72	1059.57	1058.77	1059.02	1058.75	1058.62	1054.95
MW-11	1081.32	37.1	1064.64	1063.94	1063.56	1061.98	1061.33	1060.72	1060.08	1059.85	1059.31	1060.27	1063.62	1065.01	1065.10	1063.09	1060.82	1059.81	1058.87	1059.02	1058.82	1058.63	1054.94
MW-12 ^b	1087.46	35.8	1064.57	1063.87	1063.49	1061.84	1061.22	1060.65	1060.00	1059.76	1059.19	1060.21	1063.69	1064.95	1064.94	1062.93	1060.71	1059.69	1058.87	1058.98	1058.75	1058.58	1054.91
MW-13	1085.58	35.1	1064.58	1063.80	1063.42	1061.73	1061.11	1060.55	1059.90	1059.65	1059.08	1060.22	1063.71	1064.93	1064.93	1062.81	1060.62	1059.59	1058.75	1058.97	1058.70	1058.56	1054.38
MW-14	1081.04	29.8	1064.64	1063.92	1063.51	1061.92	1061.29	1060.68	1060.03	1059.81	1059.27	1060.24	1063.55	1065.01	1065.08	1063.04	1060.83	1059.76	1058.98	1058.97	1058.76	1058.59	1054.93
MW-15	1076.85	25.2	1065.27	1064.50	1064.08	1062.91	1062.40	1061.68	1061.06	1060.83	1060.31	1061.33	1064.32	1065.24	1065.55	1063.89	1061.60	1060.44	1059.70	1059.60	1059.49	1059.37	1055.85
MW-16	1082.37	33.7	1064.69	1063.97	1063.57	1061.99	1061.32	1060.77	1060.14	1059.85	1059.30	1060.12	1063.50	1065.00	1065.14	1063.15	1060.71	1059.82	1059.02	1058.93	1059.76	1058.59	1054.95
MW-17	1080.64	28.6	1065.45	1065.22	1064.97	1064.59	1064.39	1064.16	1063.85	1063.75	1063.47	1063.38	1063.70	1065.68	1065.85	1065.56	1064.42	1063.14	1062.74	1062.27	1061.76	1061.42	1059.59
MW-18	1077.11	28.5	1065.06	1064.37	1063.94	1063.00	1062.32	1061.71	1061.11	1060.89	1060.51	1061.05	1063.90	1065.18	1065.56	1064.11	1061.82	1060.72	1060.01	1059.70	1059.59	1059.38	1056.05
MW-19	1081.18	33.7	1064.62	1063.88	1063.50	1061.84	1061.20	1060.63	1059.99	1059.71	1059.20	1060.13	1063.55	1065.00	1065.04	1062.91	1060.77	#N/A	#N/A	1058.91	1058.67	1058.53	1054.83
MW-20	1082.07	33.2	1064.57	1063.84	1063.46	1061.75	1061.12	1060.56	1059.90	1059.63	1059.11	1060.27	1063.68	1064.87	1064.95	1062.78	1060.65	#N/A	#N/A	1058.94	1058.66	1058.53	1054.77
MW-21	1074.00	23.2	1064.73	1064.01	1063.62	1061.97	1061.22	1060.61	1059.92	1059.61	1059.13	1061.01	1064.14	1065.24	1065.10	1062.97	1060.74	1059.67	1058.83	1059.18	1058.86	1058.75	1054.99
MW-22	1084.71	33.6	1064.48	1063.68	1063.31	1061.44	1060.85	1060.26	1059.58	1059.32	1058.76	1059.80	1063.48	1064.90	1064.84	1062.49	1060.44	#N/A	#N/A	1058.71	1058.40	1058.30	1054.49
MW-23	1080.01	28.1	1064.27	1063.52	1063.12	1060.70	1060.16	1059.65	1058.99	1058.66	1058.09	1060.06	1063.60	1064.85	1064.60	1061.92	1059.94	#N/A	#N/A	1058.57	1058.09	1057.96	1053.99
MW-24	1078.92	28.4	1064.31	1063.51	1063.13	1060.78	1060.26	1059.74	1059.05	1058.76	1058.19	1060.79	1063.77	1064.86	1064.63	1061.91	1059.99	1058.95	1058.11	1057.71	1058.21	1058.09	1054.19
MW-25	1080.09	31.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1065.20	1063.25	1060.94	1059.93	1059.14	1059.06	1058.89	1058.71	1055.06
MW-26	1078.56	29.8	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1065.25	1063.32	1061.01	1059.97	1059.17	1059.11	1058.94	1058.76	1055.06
MW-27	1078.17	29.7	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1065.31	1063.51	1061.57	1060.35	1059.50	1059.27	1059.15	1058.92	1055.28
MW-28	1078.83	30.1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1065.42	1064.26	1061.73	1060.39	1059.64	1059.39	1059.26	1059.04	1055.02
MW-29	1078.81	29.8	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1065.33	1063.62	1061.37	1060.26	1059.48	1059.29	1059.16	1058.96	1055.43
MW-30	1078.73	30.1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1065.41	1063.59	1061.37	1060.24	1059.49	1059.34	1059.20	1059.01	1055.48
MW-31	1078.70	29.9	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1065.36	1063.60	1061.45	1060.34	1059.57	1059.36	1059.26	1059.05	1055.54

Table 3.1
Groundwater Elevation Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Well Identificatio	6/21/2021	9/7/2021	3/21/2022	6/1/2022	9/26/2022	10/25/2022	12/1/2022	3/20/2023	4/4/2023	6/5/2023	9/5/2023	3/11/2024	6/3/2024	8/19/2024	9/16/2024	11/13/2024	12/10/2024	3/18/2025	3/31/2025	5/20/2025	9/2/2025
MW-1 ^a	1055.45	1056.65	1054.28	1054.16	1056.92	1057.28	1057.07	1054.46	1055.01	1056.18	1057.98	1055.69	1057.83	1061.32	1060.88	1060.06	1059.23	1056.38	1056.41	1056.47	1058.26
MW-2	1055.59	1056.71	1054.50	1054.28	1057.00	1057.37	1057.23	1054.60	1055.10	1056.29	1058.06	1055.88	1057.90	1061.44	1061.00	1060.22	1059.43	1056.56	1056.56	1056.61	1058.40
MW-3 ^a	1056.00	1057.13	1055.11	1054.68	#N/A	1057.79	1057.64	1055.28	1055.78	1056.84	1058.63	1056.49	1058.37	1061.90	1061.45	1060.64	1059.92	1057.23	1057.19	1057.05	1058.95
MW-4	1056.29	1057.39	1055.43	1055.00	1057.71	1058.08	1057.96	1055.62	1056.08	1057.15	1058.95	1056.85	1058.74	1062.27	1061.76	1060.97	1060.26	1057.56	1057.51	1057.40	1059.27
MW-5 ^{ab}	1055.87	1057.15	1055.01	1054.57	1057.54	1057.98	1057.79	1055.28	#N/A	1056.96	1058.63	1056.58	1058.54	1062.13	1061.62	1060.71	1060.02	1057.30	1057.24	1057.08	1059.03
MW-7 ^{ad}	1055.55	1056.99	1054.51	1054.25	1057.29	1057.72	1057.47	1054.78	#N/A	1056.64	1058.32	1056.05	1058.21	1061.80	1061.30	1060.36	1059.53	1056.75	1056.71	1056.71	1058.61
MW-8 ^d	1055.51	1056.98	1054.51	1054.21	1057.27	1057.72	1057.45	1054.79	#N/A	1056.60	1058.34	1056.06	1058.22	1061.79	1061.30	1060.36	1059.52	1056.75	1056.73	1056.70	1058.60
MW-9 ^{ab}	1055.32	1057.03	1054.05	1054.02	1057.14	1057.60	1057.21	1054.35	#N/A	1056.32	1058.18	1055.54	1058.02	1061.58	1061.08	1060.11	1059.10	1056.23	1056.30	1056.46	1058.24
MW-10 ^b	1055.28	1056.98	1054.02	1053.99	1057.11	1057.55	1057.19	1054.36	#N/A	1056.28	1058.14	1055.53	1057.97	1061.55	1061.06	1060.08	1059.08	1056.20	1056.27	1056.42	1058.24
MW-11	1055.40	1056.75	1054.18	1054.08	1056.99	1057.38	1057.16	1054.33	#N/A	1056.19	1058.02	1055.59	1057.88	1061.39	1060.95	1060.07	1059.18	1056.26	1056.28	1056.42	1058.23
MW-12 ^b	1055.30	1056.82	1054.06	1054.00	1057.01	1057.41	1057.11	1054.27	#N/A	1056.19	1058.01	1055.49	1057.85	1061.44	1060.97	1060.02	1059.10	1056.17	1056.21	1056.35	1058.17
MW-13	1055.23	1056.88	1053.98	1053.95	1057.00	1057.39	1057.07	1054.20	#N/A	1056.16	1058.06	1055.39	1057.79	1061.44	1060.93	1059.98	1059.01	1056.08	1056.16	1056.32	1058.12
MW-14	1055.37	1056.69	1054.14	1054.08	1056.90	1057.28	1057.05	1054.29	#N/A	1056.12	1057.95	1055.53	1057.82	1061.30	1060.86	1060.01	1059.12	1056.21	1056.25	1056.38	1058.17
MW-15	1056.04	1057.23	1055.19	1054.77	1057.61	1058.03	1057.86	1055.44	#N/A	1057.04	1058.79	1056.71	1058.64	1062.07	1061.66	1060.83	1060.10	1057.46	1057.37	1057.21	1059.13
MW-16	1055.39	1056.62	1054.12	1054.06	1056.81	1057.18	1056.92	1054.27	1054.82	1056.04	1057.91	1055.46	1057.74	1061.14	1060.75	1059.92	1059.08	1056.14	1056.21	1056.35	1058.09
MW-17	1058.93	1058.58	1057.94	1057.39	1057.49	1057.59	1057.65	1057.02	1056.94	1056.97	1057.60	1057.36	1057.87	1059.29	1059.61	1059.73	1060.56	1058.50	1058.42	1058.09	1058.67
MW-18	1056.06	1056.90	1055.37	1054.72	1057.14	1057.50	1057.55	1055.28	1055.56	1056.58	1058.27	1056.57	1058.10	1060.71	1061.30	1060.61	1060.01	1057.27	1057.20	1057.05	1058.86
MW-19	1055.33	1056.63	1054.07	1054.00	1056.81	1057.20	1056.92	1054.17	#N/A	#N/A	1057.90	1055.36	1057.70	1061.14	1060.73	1059.90	1059.07	1056.03	1056.09	1056.30	1058.01
MW-20	1055.24	1056.77	1053.98	1053.91	1056.90	1057.33	1057.00	1054.16	#N/A	#N/A	1057.96	1055.32	1057.78	1061.29	1060.84	1059.93	1059.02	1056.01	1056.03	1056.28	1058.02
MW-21	1055.41	1057.25	1054.04	1054.07	1057.26	1057.72	1057.29	1054.35	#N/A	#N/A	1058.28	1055.49	1058.13	1061.66	1061.16	1060.17	1059.03	1056.16	1056.25	1056.51	1058.27
MW-22	1055.07	1056.62	1053.57	1053.73	1056.67	1056.88	1056.69	1053.76	#N/A	#N/A	1057.71	1053.91	1057.53	1060.09	1060.53	1059.65	1058.67	1055.59	1055.69	1056.03	1057.68
MW-23	1054.80	1056.78	1052.91	1053.46	1056.51	1056.89	1056.32	1053.21	#N/A	#N/A	1057.52	1054.20	1057.32	1060.57	1060.16	1059.21	1057.89	1054.82	1055.13	1055.71	1057.20
MW-24	1054.83	1056.98	1053.00	1053.55	1056.72	1057.15	1056.52	1053.42	#N/A	#N/A	1057.70	1054.38	1057.54	1060.86	1060.42	1059.39	1057.94	1055.03	1055.37	1055.84	1057.39
MW-25	1055.50	1056.77	1054.25	1054.15	1056.94	1057.32	#N/A	1054.40	1054.96	#N/A	1058.03	1055.60	#N/A	1061.31	1060.90	#N/A	#N/A	1056.33	#N/A	#N/A	1058.24
MW-26	1055.54	1056.78	1054.30	1054.20	1056.97	1057.35	#N/A	1054.47	1055.01	#N/A	1058.04	1055.68	#N/A	1061.34	1060.93	#N/A	#N/A	1056.40	#N/A	#N/A	1058.19
MW-27	1055.64	1056.76	1054.50	1054.31	1056.95	1057.36	#N/A	1054.59	1055.10	#N/A	1058.03	1055.86	#N/A	1061.39	1061.01	#N/A	#N/A	1056.61	#N/A	#N/A	1058.27
MW-28	1055.76	1056.80	1054.73	1054.43	1057.06	1057.42	#N/A	1054.77	1055.22	#N/A	1058.10	1056.08	#N/A	1061.51	1061.11	#N/A	#N/A	1056.77	#N/A	#N/A	1058.46
MW-29	1055.71	1056.79	1054.75	1054.41	1057.07	1057.45	#N/A	1054.80	1055.22	#N/A	1058.14	1056.06	#N/A	1061.53	1061.13	#N/A	#N/A	1056.79	#N/A	#N/A	1058.49
MW-30	1055.77	1056.85	1054.76	1054.45	1057.14	1057.50	#N/A	1054.86	1055.32	#N/A	1058.23	1056.12	#N/A	1061.60	1061.17	#N/A	#N/A	1056.83	#N/A	#N/A	1058.56
MW-31	1055.77	1056.83	1054.82	1054.45	1057.15	1057.53	#N/A	1054.93	1055.37	#N/A	1058.24	1056.19	#N/A	1061.60	1061.18	#N/A	#N/A	1056.90	#N/A	#N/A	1058.58

Table 3.1
Groundwater Elevation Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Well Identificatio	Top of Casing (feet NAVD88) ^c	Total Depth (feet BTOC)																					
			10/29/2018	11/19/2018	12/3/2018	1/3/2019	1/16/2019	1/29/2019	2/14/2019	2/21/2019	3/7/2019	3/18/2019	4/16/2019	9/9/2019	12/9/2019	1/9/2020	3/2/2020	7/27/2020	8/19/2020	9/14/2020	10/21/2020	11/16/2020	3/23/2021
MW-32	1078.53	29.8	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1065.22	1063.32	1061.09	1060.03	1059.22	1059.13	1058.99	1058.77	1055.00
MW-33	1078.66	30.1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1065.19	1063.16	1061.16	1060.13	1059.40	1059.17	1058.86	1058.82	1054.56
MW-34	1078.85	30.1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1065.20	1063.62	1061.08	1060.04	1059.25	1059.14	1059.00	1058.80	1054.32
MW-35	1078.26	30.1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1065.18	1063.35	1061.11	1060.06	1059.29	1059.15	1059.04	1058.84	1053.21
MW-36	1078.76	30.1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1065.18	1063.36	1061.09	1060.05	1059.28	1059.17	1059.05	1058.86	1054.33
MW-37	1079.16	30.0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1065.23	1063.42	1061.15	1060.13	1059.34	1059.22	1059.10	1058.83	1055.33
MW-38	1079.27	30.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1065.25	1063.38	1061.12	1060.09	1059.31	1059.18	1059.05	1058.86	1055.25
MW-39	1076.32	27.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1064.84	1062.65	1060.50	1059.45	1058.62	1058.92	1058.61	1058.51	1054.74
MW-40	1079.73	31.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1064.80	1062.66	1060.48	1059.44	1058.60	1058.88	1058.58	1058.47	1054.80
MW-41	1079.49	30.9	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1064.83	1062.71	1060.52	1059.51	1058.65	1058.93	1058.62	1058.52	1054.81
MW-42	1079.85	31.2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1064.88	1062.78	1060.61	1059.55	1058.73	1058.99	1058.69	1058.58	1054.90
MW-43	1080.18	31.4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1064.86	1062.78	1060.62	1059.57	1058.74	1059.02	1058.73	1058.63	1054.83
MW-44	1079.03	30.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1065.16	1064.26	1062.13	1060.85	1060.88	1060.30	1059.98	1059.71	1059.28
MW-45	1075.15	25.7	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1064.77	1062.55	1060.37	1059.35	1058.50	1058.85	1058.52	1058.39	1054.61
MW-46	1074.00	26.7	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1064.81	1062.63	1060.40	1059.20	1058.56	1058.91	1058.60	1058.46	1054.76
MW-47	1073.22	25.7	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1064.79	1062.64	1060.46	1059.40	1058.58	1058.90	1058.57	1058.47	1054.76
MW-48	1075.51	26.2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1064.81	1062.69	1060.54	1059.46	1058.64	1058.92	1058.63	1058.53	1054.84
MW-49	1075.16	26.1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1064.85	1062.77	1060.60	1059.52	1058.71	1059.01	1058.67	1058.57	1054.86
MW-50	1075.43	26.2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1065.06	1064.17	1061.89	1060.60	1060.95	1060.03	1059.79	1059.57	1060.41
MW-51	1075.10	25.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1059.71	1058.92	1059.05	1058.78	1058.65	1054.80
MW-52	1073.37	25.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1059.55	1058.72	1058.97	1058.70	1058.61	1055.21
MW-53	1073.35	26.1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1059.46	1058.68	1058.94	1058.65	1058.57	1055.15
MW-54	1081.59	34.7	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
MW-55	1086.40	38.2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
MW-56	1080.97	34.1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
MW-57	1074.37	28.2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
MW-58	1074.93	30.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
MW-59	1075.28	30.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
MW-60	1075.32	30.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
MW-61	1073.15	29.1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
MW-62	1073.97	28.9	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
MW-63	1071.95	25.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
MW-64	1075.32	27.9	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Table 3.1
Groundwater Elevation Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Well Identificatio	6/21/2021	9/7/2021	3/21/2022	6/1/2022	9/26/2022	10/25/2022	12/1/2022	3/20/2023	4/4/2023	6/5/2023	9/5/2023	3/11/2024	6/3/2024	8/19/2024	9/16/2024	11/13/2024	12/10/2024	3/18/2025	3/31/2025	5/20/2025	9/2/2025
MW-32	1055.58	1056.81	1054.35	1054.24	1057.04	1057.40	#N/A	1054.50	1055.07	#N/A	1058.05	1055.74	#N/A	1061.41	1060.99	#N/A	#N/A	1056.46	#N/A	#N/A	1058.27
MW-33	1055.56	1056.77	1054.38	1054.22	1057.03	1057.40	#N/A	1054.54	1055.11	#N/A	1057.97	1055.77	#N/A	1061.47	1061.03	#N/A	#N/A	1056.51	#N/A	#N/A	1058.36
MW-34	1055.56	1056.74	1054.41	1054.24	1057.00	1057.37	#N/A	1054.56	1055.11	#N/A	1058.05	1055.82	#N/A	1061.44	1060.99	#N/A	#N/A	1056.55	#N/A	#N/A	1058.29
MW-35	1055.60	1056.78	1054.49	1053.79	1057.04	1057.41	#N/A	1054.63	1055.18	#N/A	1058.11	1055.89	#N/A	1061.50	1061.04	#N/A	#N/A	1056.62	#N/A	#N/A	1058.42
MW-36	1055.59	1056.77	1054.51	1054.76	1057.05	1057.41	#N/A	1054.61	1055.17	#N/A	1058.10	1055.87	#N/A	1061.52	1061.05	#N/A	#N/A	1056.65	#N/A	#N/A	1058.39
MW-37	1055.67	1056.85	1054.60	1054.36	1057.11	1057.49	#N/A	1054.74	1055.27	#N/A	1058.19	1056.00	#N/A	1061.58	1061.12	#N/A	#N/A	1056.74	#N/A	#N/A	1058.52
MW-38	1055.60	1056.78	1054.47	1054.26	1057.07	1057.43	#N/A	1054.59	1055.16	#N/A	1058.12	1055.86	#N/A	1061.50	1061.06	#N/A	#N/A	1056.61	#N/A	#N/A	1058.42
MW-39	1055.16	1056.90	1053.73	1053.86	1056.96	1057.41	#N/A	1054.13	#N/A	#N/A	1057.98	1055.29	#N/A	1061.42	1060.89	#N/A	#N/A	1055.96	#N/A	#N/A	1058.02
MW-40	1055.13	1056.83	1053.84	1053.83	1056.97	1057.39	#N/A	1054.14	#N/A	#N/A	1057.97	1055.31	#N/A	1061.39	1060.89	#N/A	#N/A	1056.00	#N/A	#N/A	1058.04
MW-41	1055.18	1056.87	1053.91	1053.90	1056.99	1057.42	#N/A	1054.22	#N/A	#N/A	1058.01	1055.38	#N/A	1061.44	1060.94	#N/A	#N/A	1056.07	#N/A	#N/A	1058.10
MW-42	1055.25	1056.93	1054.00	1053.96	1057.05	1057.49	#N/A	1054.30	#N/A	#N/A	1058.08	1055.47	#N/A	1061.49	1061.01	#N/A	#N/A	1056.16	#N/A	#N/A	1059.16
MW-43	1055.28	1056.94	1054.04	1053.97	1057.07	1057.52	#N/A	1054.36	#N/A	#N/A	1058.09	1055.52	#N/A	1061.52	1061.03	#N/A	#N/A	1056.21	#N/A	#N/A	1058.21
MW-44	1056.58	1057.24	1054.27	1054.12	1057.20	1057.60	#N/A	1054.51	#N/A	#N/A	1058.17	1056.41	#N/A	1062.12	1061.71	#N/A	#N/A	1057.56	#N/A	#N/A	1059.15
MW-45	1055.07	1056.91	1053.70	1053.74	1056.92	1057.38	#N/A	1054.01	#N/A	#N/A	1057.94	1055.15	#N/A	1061.32	1060.81	#N/A	#N/A	1055.82	#N/A	#N/A	1057.94
MW-46	1055.12	1056.93	1053.78	1053.81	1056.97	1057.44	#N/A	1054.10	#N/A	#N/A	1057.99	1055.24	#N/A	1061.39	1060.87	#N/A	#N/A	1055.92	#N/A	#N/A	1058.01
MW-47	1055.12	1056.88	1053.81	1053.83	1056.98	1057.43	#N/A	1054.13	#N/A	#N/A	1058.02	1055.30	#N/A	1061.40	1060.89	#N/A	#N/A	1055.93	#N/A	#N/A	1057.99
MW-48	1055.17	1056.90	1053.89	1053.87	1057.01	1057.46	#N/A	1054.20	#N/A	#N/A	1058.03	1055.38	#N/A	1061.45	1060.95	#N/A	#N/A	1056.05	#N/A	#N/A	1058.08
MW-49	1055.22	1056.95	1053.98	1053.91	1057.06	1057.51	#N/A	1054.28	#N/A	#N/A	1058.08	1055.46	#N/A	1061.53	1061.00	#N/A	#N/A	1056.15	#N/A	#N/A	1058.17
MW-50	1058.81	1058.29	1057.84	1057.84	1057.63	1057.73	#N/A	1058.24	#N/A	#N/A	1057.92	1059.11	#N/A	1062.02	1061.55	#N/A	#N/A	1058.92	#N/A	#N/A	1059.64
MW-51	1055.29	1056.87	1054.17	1054.00	1057.08	1057.52	#N/A	1054.42	#N/A	#N/A	1058.08	1055.66	#N/A	1061.83	1061.32	#N/A	#N/A	1056.32	#N/A	#N/A	1058.28
MW-52	1055.29	1056.95	1053.95	1053.88	1057.02	1057.50	#N/A	1054.41	#N/A	#N/A	1058.01	1055.51	#N/A	1061.55	1060.98	#N/A	#N/A	1056.20	#N/A	#N/A	1058.15
MW-53	1055.17	1056.87	1053.95	1053.83	1057.00	1057.47	#N/A	1054.27	#N/A	#N/A	1058.02	1055.47	#N/A	1061.52	1060.98	#N/A	#N/A	1056.15	#N/A	#N/A	1058.15
MW-54	#N/A	#N/A	#N/A	#N/A	1056.86	1057.24	#N/A	1054.15	#N/A	#N/A	1057.86	1055.38	#N/A	1061.28	1060.81	#N/A	1059.00	1056.04	#N/A	1056.24	1058.05
MW-55	#N/A	#N/A	#N/A	#N/A	1056.86	1057.26	#N/A	1054.09	#N/A	#N/A	1057.89	1055.22	#N/A	1061.31	1060.82	#N/A	#N/A	1055.99	#N/A	1056.33	1058.03
MW-56	#N/A	#N/A	#N/A	#N/A	1056.86	1057.24	#N/A	1054.07	#N/A	#N/A	1057.86	1055.31	#N/A	1061.26	1060.78	#N/A	#N/A	1055.96	#N/A	1055.21	1057.99
MW-57	#N/A	#N/A	#N/A	#N/A	1056.72	1057.19	#N/A	1053.94	#N/A	#N/A	1057.79	1055.05	#N/A	1060.63	1060.65	#N/A	#N/A	1055.73	#N/A	1055.88	1057.80
MW-58	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1060.25	1059.36	1056.58	#N/A	1056.62	1058.45
MW-59	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1060.25	1059.38	1056.61	#N/A	1056.61	1058.47
MW-60	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1060.44	1059.61	1056.87	#N/A	1056.78	1058.70
MW-61	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1060.30	1059.41	1056.64	#N/A	1056.64	1058.52
MW-62	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1060.41	1059.55	1056.80	#N/A	1056.77	1058.65
MW-63	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1060.17	1059.23	1056.37	#N/A	1056.49	1058.33
MW-64	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	1060.21	1059.28	1056.45	#N/A	1056.50	1058.38

Notes:

- ^a Well is screened in deep portion of the alluvial aquifer.
- ^b Top of casing elevations at MW-5, MW-9, and MW-10 were changed during 2018 monofill capping project.
- MW-5 top of casing elevation changed from 1077.15 to 1080.66 prior to Sept. 4, 2018 gauging event; MW-9 (from 1076.20 to 1079.85) and MW-10 (from 1076.29 to 1080.28) on Oct. 18, 2018.
- MW-12 top of casing elevation was changed from 1086.79 to 1087.46 on Oct. 11, 2018.
- ^c October 2018 survey completed by Snoozy Surveying.
- ^d Top of casing elevations at MW-7 and MW-8 were changed on December 6, 2019 as part of monofill closure project. MW-7 top of casing elevation changed from 1078.62 to 1075.98; MW-8 changed from 1078.54 to 1075.78.
- BTOC - Below top of casing.
- NAVD88 - North American Vertical Datum of 1988.

Baseline Period Groundwater Monitoring Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Appendix III Parameters

Well	Date		Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH, lab s.u.	Sulfate mg/L	TDS mg/L
Data Used for Calculations of Inter-Well Baseline Values (Table 4.3) - Pooled Upgradient Wells (MW-16, MW-17, MW-18)									
MW-16	10/30/2018		0.200 U	143	2.47	0.241	7.1 J	67.7	636
MW-16	10/30/2018	(Duplicate)	0.202	164	2.5	0.239	7.1 J	68.4	638
MW-16	11/20/2018		0.200 U	117	5.00 U	0.500 U	7.4 J	72.8	660
MW-16	12/04/2018		0.183	155	1.87	0.280	7.3 J	80.8	618
MW-16	01/03/2019		0.200 U	151	5.00 U	0.500 U	7.3	79.4	630
MW-16	01/16/2019		0.200 U	112	5.00 U	0.500 U	7.3 J	78.4	624
MW-16	01/28/2019		0.200 U	163	5.00 U	0.500 U	7.2 J	74.3	628
MW-16	02/21/2019		0.200 U	153	5.00 U	0.500 U	7.2 J	73.1	632
MW-16	03/07/2019		0.212	166	5.00 U	0.500 U	7.0 J	70.2	618
MW-16	03/20/2019		0.214	160	5.63	0.590	7.1 J	35.8	644
MW-16	09/10/2019		0.200 U	142	5.00 U	0.500 U	7.1 J	56.9	30.0 U
MW-16	03/04/2020		0.233	139	5.68	0.500 U	7.0 J	50.7	542
MW-16	09/15/2020		0.216	134	5.66	0.500 U	7.8 J	40.4	632
MW-16	03/23/2021		0.185	138	5.00 U	0.729	7.1 J	61.1	592
MW-16	09/09/2021		0.196	150	7.11	0.500 U	7.1 J	51.2	650
MW-16	03/21/2022		--	--	--	--	--	--	--
MW-16	09/27/2022		--	--	--	--	--	--	--
MW-16	03/22/2023		--	--	--	--	--	--	--
MW-16	09/06/2023		--	--	--	--	--	--	--
MW-16	03/12/2024		--	--	--	--	--	--	--
MW-16	09/18/2024		--	--	--	--	--	--	--
MW-16	03/31/2025		--	--	--	--	--	--	--
MW-16	09/04/2025		--	--	--	--	--	--	--
MW-17	10/30/2018		0.200 U	143	16.5	0.217	7.1 J	68.1	654
MW-17	11/20/2018		0.200 U	142	18.9	0.500 U	7.2 J	62.4	674
MW-17	12/04/2018		0.191	148	22.5	0.267	7.2 J	68.0	638
MW-17	01/03/2019		0.200 U	148	17.9	0.500 U	7.3	61.7	654
MW-17	01/16/2019		0.206	119	18.0	0.500 U	7.1 J	64.0	656
MW-17	01/28/2019		0.221	171	17.5	0.500 U	7.3 J	61.4	654
MW-17	02/21/2019		0.238	173	14.5	0.500 U	7.3 J	67.3	740
MW-17	03/07/2019		0.253	198	13.3	0.500 U	7.1 J	72.8	680
MW-17	03/21/2019		0.208	175	14.9	0.527	7.2 J	76.3	726
MW-17	09/10/2019		0.200 U	166	14.1	0.500 U	7.3 J	66.9	732
MW-17	03/03/2020		0.236	163	5.00 U	0.500 U	6.9 J	70.6	716
MW-17	09/14/2020		0.243	181	13.0	0.500 U	7.8 J	93.7	764
MW-17	03/24/2021		0.197	176	13.4	0.500 U	7.2 J	113	770
MW-17	09/08/2021		0.209	177	18.8	0.500 U	7.2 J	98.0	718
MW-17	03/23/2022		--	--	--	--	--	--	--
MW-17	09/27/2022		--	--	--	--	--	--	--
MW-17	03/22/2023		--	--	--	--	--	--	--
MW-17	09/06/2023		--	--	--	--	--	--	--
MW-17	03/12/2024		--	--	--	--	--	--	--
MW-17	09/18/2024		--	--	--	--	--	--	--
MW-17	03/31/2025		--	--	--	--	--	--	--
MW-17	09/04/2025		--	--	--	--	--	--	--
MW-18	10/31/2018		0.266	167	5.00 U	0.500 U	7.0 J	79.6	716
MW-18	11/20/2018		0.200 U	150	5.00 U	0.500 U	7.1 J	77.7	728
MW-18	11/20/2018	(Duplicate)	0.222	165	5.00 U	0.500 U	7.1 J	78.2	708
MW-18	12/04/2018		0.225	162	2.74	0.324	7.1 J	81.7	748
MW-18	12/04/2018	(Duplicate)	0.24	165	2.96	0.348	7.1 J	82.4	754
MW-18	01/03/2019		0.200 U	162	5.00 U	0.500 U	7.3	75.9	694
MW-18	01/03/2019	(Duplicate)	0.200 U	166	5.00 U	0.500 U	7.3 J	73.9	688
MW-18	01/16/2019		0.209	122	5.00 U	0.500 U	7.0 J	80.8	706
MW-18	01/16/2019	(Duplicate)	0.208	131	5.00 U	0.500 U	7.2 J	79.6	722
MW-18	01/28/2019		0.238	187	5.00 U	0.500 U	7.2 J	77.3	788
MW-18	01/28/2019	(Duplicate)	0.238	175	5.00 U	0.500 U	7.3 J	77.7	786
MW-18	02/21/2019		0.258	170	5.00 U	0.500 U	7.4 J	87.2	804
MW-18	02/21/2019	(Duplicate)	0.216	178	5.00 U	0.500 U	7.2 J	86.5	912
MW-18	03/07/2019		0.29	182	5.00 U	0.500 U	6.9 J	85	732
MW-18	03/07/2019	(Duplicate)	0.215	164	5.00 U	0.500 U	7.0 J	87	756
MW-18	03/21/2019		0.200 U	151	5.00 U	0.594	7.1 J	79.9	720
MW-18	03/21/2019	(Duplicate)	0.233	174	5.00 U	0.584	7.1 J	81.6	692
MW-18	09/10/2019		0.210	166	5.00 U	0.500 U	7.1 J	83.2	808
MW-18	03/03/2020		0.230	180	11.4	0.500 U	7.0 J	75.7	748
MW-18	09/14/2020		0.211	167	5.00 U	0.500 U	7.5 J	77.2	768
MW-18	03/24/2021		0.222	167	5.00 U	0.651	7.1 J	108	792
MW-18	09/08/2021		0.24	276	19.2	0.500 U	7.1 J	410	1260
MW-18	09/08/2021	(Duplicate)	0.241	278	18.9	0.500 U	7.1 J	408	1280
MW-18	03/23/2022		--	--	--	--	--	--	--
MW-18	09/27/2022		--	--	--	--	--	--	--
MW-18	09/27/2022	(Duplicate)	--	--	--	--	--	--	--
MW-18	03/22/2023		--	--	--	--	--	--	--
MW-18	09/06/2023		--	--	--	--	--	--	--
MW-18	03/12/2024		--	--	--	--	--	--	--
MW-18	09/18/2024		--	--	--	--	--	--	--
MW-18	03/31/2025		--	--	--	--	--	--	--
MW-18	09/04/2025		--	--	--	--	--	--	--

Table 4.1

Baseline Period Groundwater Monitoring Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Appendix III Parameters

Well	Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH, lab s.u.	Sulfate mg/L	TDS mg/L
Data Used for Calculations of Intra-Well Baseline Values (Table 4.4)								
MW-2	12/09/2015	0.780	287	6.47	0.500 U	6.88 J	360	1280
MW-2	03/01/2016	1.13	185	13.5	0.500 U	6.99 J	182	864
MW-2	06/06/2016	1.33	200	5.99	0.500 U	6.74 J	178	848 J
MW-2	09/20/2016	1.11	171	11.5	0.500 U	7.2 J	98.3	760
MW-2	12/19/2016	1.32	167	8.57	0.500 U	7.0 J	105	768
MW-2	02/20/2017	0.815	158	7.08	0.500 U	7.0 J	70.0	734
MW-2	04/25/2017	0.200 U	125	28.0	1.24	7.2 J	49.9	588
MW-2	07/05/2017	0.200 U	134	20.4	0.500 U	7.1 J	48.0	1390
MW-2	09/11/2017	0.583	151	12.1	0.500 U	7.0 J	82.3	740
MW-2	04/18/2018	0.216	141	30.1 J	0.500 U	7.1 J	51.2 J	566
MW-2	08/21/2018	0.243	140	16.5	0.100 U	7.4 J	52.7	590
MW-2	03/19/2019	0.268	135	14.0	0.500 U	7.1 J	35.5	596
MW-2	09/11/2019	0.496	144	9.40	0.500 U	7.2 J	54.3	642
MW-2	09/11/2019	(Duplicate)	147	9.20	0.500 U	7.1 J	55.2	646
MW-2	03/04/2020	1.23	164	7.05	0.500 U	7.3 J	70.6	696
MW-2	03/04/2020	(Duplicate)	158	6.18	0.500 U	6.9 J	68.3	680
MW-2	09/15/2020	0.663	172	8.45	0.500 U	7.0 J	77.5	756
MW-2	09/15/2020	(Duplicate)	167	8.28	0.500 U	7.2 J	77.1	738
MW-4	12/09/2015	3.30	366	18.3	0.500 U	6.87 J	996	2340
MW-4	03/01/2016	3.49	252	5.00 U	0.500 U	7.00 J	628	1830
MW-4	06/06/2016	2.32	324	15.2	0.500 U	6.73 J	852	1960 J
MW-4	09/20/2016	1.49	378	20.1	0.500 U	6.8 J	975	2310
MW-4	12/19/2016	1.32	323	18.7	0.500 U	6.9 J	844	2570
MW-4	02/20/2017	1.34	307	16.2	0.500 U	6.8 J	839	2220
MW-4	04/24/2017	0.972	279	15.8	0.500 U	6.9 J	681	1730
MW-4	07/05/2017	1.05	265	17.3	0.500 U	7.0 J	721	1760
MW-4	09/11/2017	0.898	245	18.6	0.500 U	6.9 J	608	1860
MW-4	04/18/2018	0.855	208	19.2 J	0.500 U	6.9 J	494 J	1190
MW-4	08/21/2018	0.397	128	17.0	0.100 U	7.3 J	262	850
MW-4	03/19/2019	0.926	197	29.3	0.500 U	6.9 J	496	1390
MW-4	09/11/2019	0.528	202	32.5	0.500 U	7.2 J	410	1210
MW-4	03/03/2020	0.848	199	41.5	0.500 U	7.3 J	409	1190
MW-4	09/14/2020	0.335	127	47.2	0.500 U	7.0 J	167	712
MW-8	12/09/2015	3.44	212	5.07	0.500 U	7.08 J	694	1590
MW-8	02/29/2016	4.01	204	5.90	0.500 U	7.23 J	734	1700
MW-8	06/06/2016	1.23	213	5.00 U	0.500 U	7.04 J	313	1060 J
MW-8	09/19/2016	4.91	187	5.00 U	0.500 U	7.4 J	803	1730
MW-8	12/19/2016	5.38	198	5.00 U	0.500 U	7.3 J	819	1790
MW-8	02/21/2017	4.00	190	8.69	2.31	7.2 J	690	1810
MW-8	04/24/2017	0.712	196	5.30	0.500 U	7.2 J	224	1160
MW-8	07/05/2017	0.703	167	5.00 U	0.500 U	7.1 J	169	1000
MW-8	09/11/2017	2.80	208	5.60	0.500 U	7.2 J	489	1610
MW-8	04/18/2018	0.999	171	8.23 J	0.500 U	7.1 J	190 J	870
MW-8	08/21/2018	1.14	153	4.80	0.100 U	7.3 J	198	920
MW-8	03/18/2019	2.47	163	7.19	0.500 U	7.2 J	375	1200
MW-8	09/10/2019	1.61	159	6.70	0.500 U	7.3 J	246	974
MW-8	03/03/2020	2.71	150	13.3	0.500 U	7.5 J	469	1120
MW-8	09/15/2020	3.14	161	7.99	0.500 U	7.3 J	349	1100
MW-10	12/09/2015	2.24	174	5.00 U	3.43	6.94 J	264	1130
MW-10	02/29/2016	2.13	174	5.00 U	0.500 U	7.02 J	250	1080
MW-10	06/06/2016	1.64	181	5.02	0.500 U	6.92 J	189	988 J
MW-10	09/19/2016	0.953	162	5.59	0.500 U	7.3 J	98.2	948
MW-10	12/19/2016	0.938	146	24.8	6.47	7.2 J	36.8	948
MW-10	02/21/2017	0.585	146	11.3	2.95	7.2 J	14.3	836
MW-10	04/24/2017	0.515	152	7.81	0.500 U	7.2 J	55.4	1150
MW-10	07/05/2017	0.271	154	5.00 U	0.500 U	7.3 J	134	1050
MW-10	09/11/2017	0.336	152	5.77	0.500 U	7.3 J	64.1	1040
MW-10	04/18/2018	0.530	159	7.15 J	0.500 U	7.1 J	128 J	832
MW-10	08/21/2018	2.15	148	3.23	0.100 U	7.3 J	267	1000
MW-10	08/21/2018	(Duplicate)	153	3.23	0.100 U	7.2 J	246	1060
MW-10	03/18/2019	0.361	155	6.92	1.99	7.4 J	171	922
MW-10	09/11/2019	0.633	140	5.00 U	0.500 U	7.3 J	136	894
MW-10	03/03/2020	0.553	142	5.00 U	0.500 U	7.4 J	131	864
MW-10	03/03/2020	(Duplicate)	144	5.00 U	0.500 U	7.2 J	122	868
MW-10	09/15/2020	0.611	166	6.00	0.500 U	7.3 J	149	984
MW-11	12/09/2015	0.697	225	12.9	0.500 U	6.93 J	303	1180
MW-11	12/09/2015	(Duplicate)	222	14.5	0.500 U	7.00 J	301	1170
MW-11	03/01/2016	0.322	243	7.24	0.500 U	7.02 J	315	1140
MW-11	03/01/2016	(Duplicate)	237	6.37	0.500 U	7.02 J	323	1190
MW-11	06/06/2016	0.221 J	238	37.5	0.500 U	6.88 J	240	1070 J
MW-11	06/06/2016	(Duplicate)	255	40.6	0.500 U	6.71 J	249	1100 J
MW-11	09/20/2016	0.602	279	16.8	0.500 U	7.1 J	352	1300
MW-11	09/20/2016	(Duplicate)	272	17.8	0.500 U	7.3 J	349	1260
MW-11	12/19/2016	0.524	264	20.0 U	2.00 U	7.3 J	309	1200
MW-11	12/19/2016	(Duplicate)	237	19.1	0.500 U	7.0 J	326	1190
MW-11	02/20/2017	0.268	243	7.39 J	1.20 J	7.0 J	340	1210
MW-11	02/20/2017	(Duplicate)	240	21.0 J	8.89 J	7.0 J	339	1180
MW-11	04/25/2017	0.238	239	11.2	2.11 J	6.9 J	321	1470
MW-11	04/25/2017	(Duplicate)	251	12.1	3.30 J	7.0 J	330	1300

Baseline Period Groundwater Monitoring Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Appendix III Parameters

Well	Date		Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH, lab s.u.	Sulfate mg/L	TDS mg/L
MW-11	07/05/2017		0.243	225	6.10	0.500 U	7.0 J	339	1210
MW-11	07/05/2017	(Duplicate)	0.241	218	5.91	0.500 U	7.1 J	354	1280
MW-11	09/11/2017		0.431	252	8.91	0.500 U	7.0 J	368	1350
MW-11	09/11/2017	(Duplicate)	0.477	246	8.54	0.500 U	6.9 J	370	1310
MW-11	04/18/2018		0.441	255	5.85 J	0.500 U	7.0 J	427 J	1190
MW-11	04/18/2018	(Duplicate)	0.470	253	5.00 U	0.500 U	7.2 J	435 J	1300
MW-11	08/21/2018		0.492	233	16.0	0.100 U	7.1 J	450	1340
MW-11	03/18/2019		0.455	210	17.2	0.501	7.0 J	406	1190
MW-11	03/18/2019	(Duplicate)	0.368	226	16.0	0.500 U	6.9 J	410	1210
MW-11	09/10/2019		0.797	265	122	0.500 U	7.0 J	321	1340
MW-11	03/04/2020		1.28	264	149	0.500 U	7.2 J	312	1340
MW-11	09/15/2020		0.585	251	11.0	0.500 U	7.6 J	397	1280
MW-12	12/09/2015		3.86	199	143	0.500 U	7.05 J	457	1460
MW-12	03/01/2016		5.14	235	149	0.500 U	7.09 J	511	1730
MW-12	06/06/2016		4.78	287	303	0.500 U	7.03 J	524	1590 J
MW-12	09/19/2016		4.81	225	86.3	0.500 U	7.2 J	526	1440
MW-12	12/19/2016		5.25	209	152	21.0	7.1 J	563	1800
MW-12	02/20/2017		5.39	199	42.1	1.78	7.1 J	585	1600
MW-12	04/25/2017		5.12	193	29.2	1.85	7.0 J	626	1960
MW-12	07/05/2017		1.94	186	10.2	0.500 U	7.1 J	446	1360
MW-12	09/11/2017		4.34	233	180	0.500 U	7.1 J	508	1990
MW-12	04/18/2018		2.40	208	18.8 J	0.500 U	7.1 J	514 J	1220
MW-12	08/21/2018		1.42	165	44.3	0.100 U	7.2 J	288	1040
MW-12	03/18/2019		4.28	184	118	0.500 U	7.1 J	504	1340
MW-12	09/10/2019		1.23	197	27.2	0.500 U	7.2 J	357	1110
MW-12	03/04/2020		2.85	217	248	0.500 U	7.4 J	274	1350
MW-12	09/15/2020		3.52	223	333	0.500 U	7.5 J	245	1390
MW-13	12/09/2015		0.694	230	6.18	0.500 U	6.90 J	352	1220
MW-13	03/01/2016		0.726	258	5.00 U	0.500 U	6.98 J	364	1280
MW-13	06/06/2016		0.200 U	194	13.1	0.775	6.91 J	484	1500 J
MW-13	09/19/2016		1.60	262	15.7	0.500 U	7.1 J	344	1270
MW-13	12/19/2016		1.33	239	54.9	8.21	7.1 J	324	1140
MW-13	02/20/2017		1.21	264	18.1	0.848	7.0 J	451	1330
MW-13	04/25/2017		0.747	230	17.6	1.89	6.9 J	461	1210
MW-13	07/05/2017		1.26	245	17.5	0.500 U	7.0 J	524	1590
MW-13	09/11/2017		1.19	286	21.3	0.500 U	6.9 J	485	1770
MW-13	04/18/2018		1.29	284	12.3 J	0.500 U	6.9 J	536 J	1250
MW-13	08/21/2018		1.37	175	9.24	0.100 U	7.2 J	543	1410
MW-13	03/18/2019		1.30	267	16.0	0.500 U	7.0 J	618	1380
MW-13	09/10/2019		1.15	203	9.29	0.500 U	7.2 J	495	1200
MW-13	03/04/2020		1.00	290	18.4	0.500 U	7.3 J	597	1640
MW-13	09/15/2020		1.58	231	48.6	0.500 U	7.6 J	469	1450
MW-14	12/09/2015		1.19	263	6.40	0.500 U	6.80 J	386	1370
MW-14	03/01/2016		1.11	256	5.00 U	0.500 U	6.91 J	346	1280
MW-14	06/06/2016		0.593	246	5.66	0.500 U	6.87 J	311	1160 J
MW-14	09/20/2016		1.47	246	5.47	0.500 U	7.0 J	324	1300
MW-14	12/19/2016		1.05	301	5.00 U	0.500 U	6.9 J	274	1810
MW-14	02/20/2017		0.883	270	8.67	2.17	6.9 J	428	1600
MW-14	04/25/2017		0.343	235	23.2	14.9	6.9 J	277	1220
MW-14	07/05/2017		0.281	198	8.21	3.01	6.9 J	220	1030
MW-14	09/11/2017		1.36	238	5.00 U	0.500 U	7.0 J	357	1420
MW-14	04/18/2018		0.322	231	5.00 U	0.500 U	7.0 J	279 J	1000
MW-14	08/21/2018		0.312	198	4.32	0.100 U	7.8 J	278	1100
MW-14	03/19/2019		0.855	224	5.77	0.500 U	7.0 J	239	1020
MW-14	09/10/2019		1.01	200	29.6	0.500 U	7.0 J	218	1060
MW-14	03/04/2020		2.64	193	54.2	0.500 U	7.3 J	252	1310
MW-14	09/15/2020		2.41	213	32.4	0.500 U	7.4 J	260	1300
MW-15	12/09/2015		2.88	188	8.00	0.500 U	6.80 J	501	1580
MW-15	02/29/2016		2.92	196	7.87	0.500 U	6.93 J	515	1560
MW-15	06/06/2016		2.31	231	8.63	0.500 U	6.78 J	642	1580 J
MW-15	09/19/2016		2.69	256	5.00 U	0.500 U	6.9 J	520	1570
MW-15	12/19/2016		3.05	264	5.87	0.500 U	7.0 J	507	1970
MW-15	02/21/2017		2.88	244	9.35	1.90	6.9 J	538	2000
MW-15	04/24/2017		1.72	212	14.8	0.913	6.9 J	316	1310
MW-15	07/05/2017		1.33	187	16.7	0.500 U	6.9 J	293	1020
MW-15	09/11/2017		2.58	195	10.5	0.500 U	6.9 J	422	1370
MW-15	04/18/2018		1.31	190	19.6 J	0.500 U	6.9 J	297 J	876
MW-15	08/21/2018		0.670	117	19.0	0.185	7.2 J	187	640
MW-15	03/18/2019		1.83	159	17.3	0.500 U	7.0 J	403	1180
MW-15	09/11/2019		0.386	130	19.9	0.500 U	7.2 J	186	694
MW-15	03/04/2020		2.02	200	13.5	0.500 U	7.2 J	437	1350
MW-15	09/15/2020		1.01	189	19.2	0.500 U	7.3 J	313	1000
MW-16	10/30/2018		0.200 U	143	2.47	0.241	7.1 J	67.7	636
MW-16	10/30/2018	(Duplicate)	0.202	164	2.50	0.239	7.1 J	68.4	638
MW-16	11/20/2018		0.200 U	117	5.00 U	0.500 U	7.4 J	72.8	660
MW-16	12/04/2018		0.183	155	1.87	0.280	7.3 J	80.8	618
MW-16	01/03/2019		0.200 U	151	5.00 U	0.500 U	7.3	79.4	630
MW-16	01/16/2019		0.200 U	112	5.00 U	0.500 U	7.3 J	78.4	624
MW-16	01/28/2019		0.200 U	163	5.00 U	0.500 U	7.2 J	74.3	628
MW-16	02/21/2019		0.200 U	153	5.00 U	0.500 U	7.2 J	73.1	632
MW-16	03/07/2019		0.212	166	5.00 U	0.500 U	7.0 J	70.2	618
MW-16	03/20/2019		0.214	160	5.63	0.590	7.1 J	35.8	644
MW-16	09/10/2019		0.200 U	142	5.00 U	0.500 U	7.1 J	56.9	30.0 U
MW-16	03/04/2020		0.233	139	5.68	0.500 U	7.0 J	50.7	542
MW-16	09/15/2020		0.216	134	5.66	0.500 U	7.8 J	40.4	632

Baseline Period Groundwater Monitoring Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Well	Date	Appendix III Parameters						
		Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH, lab s.u.	Sulfate mg/L	TDS mg/L
MW-17	10/30/2018	0.200 U	143	16.5	0.217	7.1 J	68.1	654
MW-17	11/20/2018	0.200 U	142	18.9	0.500 U	7.2 J	62.4	674
MW-17	12/04/2018	0.191	148	22.5	0.267	7.2 J	68.0	638
MW-17	01/03/2019	0.200 U	148	17.9	0.500 U	7.3	61.7	654
MW-17	01/16/2019	0.206	119	18.0	0.500 U	7.1 J	64.0	656
MW-17	01/28/2019	0.221	171	17.5	0.500 U	7.3 J	61.4	654
MW-17	02/21/2019	0.238	173	14.5	0.500 U	7.3 J	67.3	740
MW-17	03/07/2019	0.253	198	13.3	0.500 U	7.1 J	72.8	680
MW-17	03/21/2019	0.208	175	14.9	0.527	7.2 J	76.3	726
MW-17	09/10/2019	0.200 U	166	14.1	0.500 U	7.3 J	66.9	732
MW-17	03/03/2020	0.236	163	5.00 U	0.500 U	6.9 J	70.6	716
MW-17	09/14/2020	0.243	181	13.0	0.500 U	7.8 J	93.7	764
MW-18	10/31/2018	0.266	167	5.00 U	0.500 U	7.0 J	79.6	716
MW-18	11/20/2018	0.200 U	150	5.00 U	0.500 U	7.1 J	77.7	728
MW-18	11/20/2018	(Duplicate) 0.222	165	5.00 U	0.500 U	7.1 J	78.2	708
MW-18	12/04/2018	0.225	162	2.74	0.324	7.1 J	81.7	748
MW-18	12/04/2018	(Duplicate) 0.240	165	2.96	0.348	7.1 J	82.4	754
MW-18	01/03/2019	0.200 U	162	5.00 U	0.500 U	7.3	75.9	694
MW-18	01/03/2019	(Duplicate) 0.200 U	166	5.00 U	0.500 U	7.3 J	73.9	688
MW-18	01/16/2019	0.209	122	5.00 U	0.500 U	7.0 J	80.8	706
MW-18	01/16/2019	(Duplicate) 0.208	131	5.00 U	0.500 U	7.2 J	79.6	722
MW-18	01/28/2019	0.238	187	5.00 U	0.500 U	7.2 J	77.3	788
MW-18	01/28/2019	(Duplicate) 0.238	175	5.00 U	0.500 U	7.3 J	77.7	786
MW-18	02/21/2019	0.258	170	5.00 U	0.500 U	7.4 J	87.2	804
MW-18	02/21/2019	(Duplicate) 0.216	178	5.00 U	0.500 U	7.2 J	86.5	912
MW-18	03/07/2019	0.290	182	5.00 U	0.500 U	6.9 J	85.0	732
MW-18	03/07/2019	(Duplicate) 0.215	164	5.00 U	0.500 U	7.0 J	87.0	756
MW-18	03/21/2019	0.200 U	151	5.00 U	0.594	7.1 J	79.9	720
MW-18	03/21/2019	(Duplicate) 0.233	174	5.00 U	0.584	7.1 J	81.6	692
MW-18	09/10/2019	0.210	166	5.00 U	0.500 U	7.1 J	83.2	808
MW-18	03/03/2020	0.230	180	11.4	0.500 U	7.0 J	75.7	748
MW-18	09/14/2020	0.211	167	5.00 U	0.500 U	7.5 J	77.2	768
MW-19	10/30/2018	0.318	254	5.44	0.392	6.9 J	289	1150
MW-19	11/19/2018	0.272	186	5.51	0.500 U	6.9 J	298	1130
MW-19	12/03/2018	0.310	229	5.40	0.289	6.9 J	306	1180
MW-19	03/18/2019	0.272	197	11.6	1.78	7.0 J	278	1010
MW-19	09/11/2019	0.305	257	7.40	0.500 U	6.9 J	391	1330
MW-19	09/11/2019	(Duplicate) 0.300	256	7.36	0.500 U	6.9 J	391	1290
MW-19	03/02/2020	0.318	210	9.47	0.500 U	6.8 J	287	1040
MW-19	09/14/2020	0.230	173	10.4	0.500 U	7.5 J	253	936
MW-19	03/24/2021	0.286	218	10.9	0.560	7.1 J	373	1030
MW-19	09/07/2021	0.248	215	10.9	0.500 U	7.1 J	336	1030
MW-19	03/22/2022	--	--	--	--	--	--	--
MW-19	09/27/2022	--	--	--	--	--	--	--
MW-19	03/20/2023	--	--	--	--	--	--	--
MW-20	10/30/2018	0.812	179	19.4	0.233	7.1 J	184	808
MW-20	11/19/2018	0.516	144	11.1	0.500 U	7.3 J	151	716
MW-20	12/03/2018	0.637	149	7.58	0.227	7.1 J	146	674
MW-20	03/18/2019	1.04	180	23.8	0.500 U	7.1 J	236	908
MW-20	09/11/2019	0.527	143	5.00 U	0.500 U	7.2 J	112	624
MW-20	03/02/2020	0.665	141	5.00 U	0.500 U	7.0 J	106	632
MW-20	09/14/2020	0.566	131	5.00 U	0.500 U	7.6 J	103	628
MW-20	03/24/2021	0.349	117	5.00 U	0.521	7.3 J	60.3	486
MW-20	09/07/2021	0.611	152	6.66	0.500 U	7.2 J	112	636
MW-20	03/22/2022	--	--	--	--	--	--	--
MW-20	09/27/2022	--	--	--	--	--	--	--
MW-20	03/20/2023	--	--	--	--	--	--	--
MW-21	10/30/2018	0.225	154	4.36	0.215	6.9 J	37.4	574
MW-21	11/19/2018	0.200 U	149	5.00 U	0.500 U	7.0 J	41.0	568
MW-21	12/04/2018	0.194	154	3.68	0.325	7.0 J	38.3	626
MW-21	03/18/2019	0.200 U	151	5.36	0.500 U	7.1 J	59.6	560
MW-21	09/10/2019	0.200 U	140	7.82	0.500 U	7.0 J	51.6	544
MW-21	03/03/2020	0.200 U	136	8.61	0.500 U	7.1 J	64.4	552
MW-21	09/15/2020	0.165	140	7.89	0.500 U	7.7 J	74.8	552
MW-21	03/24/2021	0.141	125	8.95	0.553	7.1 J	13.8	452
MW-21	09/09/2021	0.162	130	8.89	0.500 U	7.1 J	8.46	424
MW-21	03/22/2022	--	--	--	--	--	--	--
MW-21	09/27/2022	--	--	--	--	--	--	--
MW-21	03/22/2023	--	--	--	--	--	--	--

Notes:
U - Not detected at the associated reporting limit.
J - Estimated concentration.
-- Concentration was not included in baseline range.
excluded A value was excluded to avoid an identified trend in the data set.
(1) Potential outlier (0.224 mg/L) was excluded from the baseline UTL calculation.

Baseline Period Groundwater Monitoring Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Appendix IV Parameters							
Well	Date		Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L
Data Used for Calculations of Inter-Well Baseline Values (Table 4.3) - Pooled Upgradient Wells (MW-16, MW-17, MW-18)							
MW-16	10/30/2018	(Duplicate)	0.00100 U	excluded	0.22	0.00100 U	0.000500 U
MW-16	10/30/2018		0.00100 U	excluded	0.255	0.00100 U	0.000500 U
MW-16	11/20/2018		0.00100 U	excluded	0.152	0.00100 U	0.000500 U
MW-16	12/04/2018		0.00100 U	excluded	0.189	0.00100 U	0.000500 U
MW-16	01/03/2019		0.00100 U	0.00200 U	0.181	0.00100 U	0.000500 U
MW-16	01/16/2019		0.00100 U	0.00200 U	0.164	0.00100 U	0.000500 U
MW-16	01/28/2019		0.00100 U	0.00200 U	0.188	0.00100 U	0.000500 U
MW-16	02/21/2019		0.00100 U	0.00200 U	0.195	0.00100 U	0.000500 U
MW-16	03/07/2019		0.00100 U	0.00200 U	0.194	0.00100 U	0.000500 U
MW-16	03/20/2019		0.00100 U	0.00200 U	0.201	0.00100 U	0.000500 U
MW-16	09/10/2019		0.00100 U	0.00200 U	0.242	0.00100 U	0.000100 U
MW-16	03/04/2020		0.00100 U	0.00200 U	0.163	0.00100 U	0.000100 U
MW-16	09/15/2020		--	0.00200 U	0.197	--	0.000100 U
MW-16	03/23/2021		0.00200 U	0.00200 U	0.233	0.00100 U	0.000160
MW-16	09/09/2021		0.00200 U	0.00200 U	0.322	0.00100 U	0.000226
MW-16	03/21/2022		--	0.00200 U	--	--	--
MW-16	09/27/2022		--	0.00200 U	--	--	--
MW-16	03/22/2023		--	0.00200 U	--	--	--
MW-16	09/06/2023		--	0.00200 U	--	--	--
MW-16	03/12/2024		--	0.00200 U	--	--	--
MW-16	09/18/2024		--	0.00200 U	--	--	--
MW-16	03/31/2025		--	0.00200 U	--	--	--
MW-16	09/04/2025		--	0.00200 U	--	--	--
MW-17	10/30/2018		0.00100 U	excluded	0.157	0.00100 U	0.000500 U
MW-17	11/20/2018		0.00100 U	excluded	0.154	0.00100 U	0.000500 U
MW-17	12/04/2018		0.00100 U	excluded	0.161	0.00100 U	0.000500 U
MW-17	01/03/2019		0.00100 U	excluded	0.167	0.00100 U	0.000500 U
MW-17	01/16/2019		0.00100 U	0.0104 J	0.171	0.00100 U	0.000500 U
MW-17	01/28/2019		0.00100 U	0.00933	0.178	0.00100 U	0.000500 U
MW-17	02/21/2019		0.00100 U	0.0103	0.197	0.00100 U	0.000500 U
MW-17	03/07/2019		0.00100 U	0.0123	0.204	0.00100 U	0.000500 U
MW-17	03/21/2019		0.00100 U	0.0176	0.181	0.00100 U	0.000500 U
MW-17	09/10/2019		0.00100 U	0.0113	0.185	0.00100 U	0.000100 U
MW-17	03/03/2020		0.00100 U	0.0065	0.166	0.00100 U	0.000100 U
MW-17	09/14/2020		--	0.0184	0.207	--	0.000100 U
MW-17	03/24/2021		0.00200 U	0.0158	0.188	0.00100 U	0.000100 U
MW-17	09/08/2021		0.00200 U	0.033	0.141	0.00100 U	0.000100 U
MW-17	03/23/2022		--	0.0264	--	--	--
MW-17	09/27/2022		--	0.026	--	--	--
MW-17	03/22/2023		--	0.0265	--	--	--
MW-17	09/06/2023		--	0.0143	--	--	--
MW-17	03/12/2024		--	0.0157	--	--	--
MW-17	09/18/2024		--	0.019	--	--	--
MW-17	03/31/2025		--	0.00395	--	--	--
MW-17	09/04/2025		--	0.00291	--	--	--
MW-18	10/31/2018	(Duplicate)	0.00100 U	excluded	0.132	0.00100 U	0.000500 U
MW-18	11/20/2018		0.00100 U	excluded	0.126	0.00100 U	0.000500 U
MW-18	11/20/2018		0.00100 U	excluded	0.136	0.00100 U	0.000500 U
MW-18	12/04/2018		0.00100 U	excluded	0.141	0.00100 U	0.000500 U
MW-18	12/04/2018		0.00100 U	excluded	0.145	0.00100 U	0.000500 U
MW-18	01/03/2019	(Duplicate)	0.00100 U	excluded	0.169	0.00100 U	0.000500 U
MW-18	01/03/2019	(Duplicate)	0.00100 U	excluded	0.167	0.00100 U	0.000500 U
MW-18	01/16/2019		0.00100 U	0.0126 J	0.133	0.00100 U	0.000500 U
MW-18	01/16/2019	(Duplicate)	0.00100 U	0.0126 J	0.143	0.00100 U	0.000500 U
MW-18	01/28/2019		0.00100 U	0.0141	0.149	0.00100 U	0.000500 U
MW-18	01/28/2019	(Duplicate)	0.00100 U	0.014	0.14	0.00100 U	0.000500 U
MW-18	02/21/2019		0.00100 U	0.0191	0.145	0.00100 U	0.000500 U
MW-18	02/21/2019	(Duplicate)	0.00100 U	0.02	0.148	0.00100 U	0.000500 U
MW-18	03/07/2019		0.00100 U	0.0181	0.137	0.00100 U	0.000500 U
MW-18	03/07/2019	(Duplicate)	0.00100 U	0.0165	0.123	0.00100 U	0.000500 U
MW-18	03/21/2019		0.00100 U	0.0045	0.121	0.00100 U	0.000500 U
MW-18	03/21/2019	(Duplicate)	0.00100 U	0.00468	0.133	0.00100 U	0.000500 U
MW-18	09/10/2019		0.00100 U	0.00523	0.164	0.00100 U	0.000100 U
MW-18	03/03/2020		0.00100 U	0.0078	0.206	0.00100 U	0.000100 U
MW-18	09/14/2020		--	0.0144	0.153	--	0.000100 U
MW-18	03/24/2021		0.00200 U	(1)	0.228	0.00100 U	0.000100 U
MW-18	09/08/2021		0.00200 U	0.028	0.155	0.00100 U	0.000100 U
MW-18	09/08/2021	(Duplicate)	0.00200 U	0.0287	0.158	0.00100 U	0.000100 U
MW-18	03/23/2022		--	0.0369	--	--	--
MW-18	09/27/2022		--	0.0252	--	--	--
MW-18	09/27/2022	(Duplicate)	--	0.0249	--	--	--
MW-18	03/22/2023		--	0.0206	--	--	--
MW-18	09/06/2023		--	0.0207	--	--	--
MW-18	03/12/2024		--	0.026	--	--	--
MW-18	09/18/2024		--	0.0243	--	--	--
MW-18	03/31/2025		--	0.0237	--	--	--
MW-18	09/04/2025		--	0.02	--	--	--

Baseline Period Groundwater Monitoring Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Well	Date	Appendix IV Parameters				
		Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L
Data Used for Calculations of Intra-Well Baseline Values (Table 4.4)						
MW-2	12/09/2015	0.00100 U	0.0509	0.193	0.00100 U	0.000500 U
MW-2	03/01/2016	0.00100 U	0.0632	0.130	0.00100 U	0.000500 U
MW-2	06/06/2016	0.00100 U	0.0694	0.136	0.00100 U	0.000500 U
MW-2	09/20/2016	0.00100 U	0.0539	0.125	0.00100 U	0.000500 U
MW-2	12/19/2016	0.00100 U	0.0720	0.129	0.00100 U	0.000500 U
MW-2	02/20/2017	0.00100 U	0.0386	0.137	0.00100 U	0.000500 U
MW-2	04/25/2017	0.00100 U	0.0214	0.137	0.00100 U	0.000500 U
MW-2	07/05/2017	0.00100 U	0.0156	0.159	0.00100 U	0.000500 U
MW-2	09/11/2017	--	--	--	--	--
MW-2	04/18/2018	0.00100 U	0.0210	0.173	0.00100 U	0.000500 U
MW-2	08/21/2018	--	0.0201	0.198	--	--
MW-2	03/19/2019	0.00100 U	0.230 J / 0.108 J	0.222	0.00100 U	0.000500 U
MW-2	09/11/2019	0.00100 U	0.0483	0.184	0.00100 U	0.000100 U
MW-2	09/11/2019	(Duplicate)	0.00100 U	0.0474	0.192	0.00100 U
MW-2	03/04/2020	0.00100 U	0.0580	0.203	0.00100 U	0.000100 U
MW-2	03/04/2020	(Duplicate)	0.00100 U	0.196	0.00100 U	0.000100 U
MW-2	09/15/2020	--	0.119	0.217	--	0.000100 U
MW-2	09/15/2020	(Duplicate)	--	0.210	--	0.000100 U
MW-4	12/09/2015	0.00100 U	0.00200 U	0.0275	0.00100 U	0.000500 U
MW-4	03/01/2016	0.00100 U	0.00200 U	0.0245	0.00100 U	0.000500 U
MW-4	06/06/2016	0.00100 U	0.00200 U	0.0374	0.00100 U	0.000500 U
MW-4	09/20/2016	0.00100 U	0.00200 U	0.0364	0.00100 U	0.000500 U
MW-4	12/19/2016	0.00100 U	0.00200 U	0.0355	0.00100 U	0.000500 U
MW-4	02/20/2017	0.00100 U	0.00200 U	0.0334	0.00100 U	0.000500 U
MW-4	04/24/2017	0.00100 U	0.00200 U	0.0364	0.00100 U	0.000500 U
MW-4	07/05/2017	0.00100 U	0.00200 U	0.0353	0.00100 U	0.000500 U
MW-4	09/11/2017	--	--	--	--	--
MW-4	04/18/2018	0.00100 U	0.00200 U	0.0376	0.00100 U	0.000500 U
MW-4	08/21/2018	--	0.00200 U	0.0325	--	--
MW-4	03/19/2019	0.00100 U	0.00200 U	0.0338	0.00100 U	0.000500 U
MW-4	09/11/2019	0.00100 U	0.00200 U	0.0444	0.00100 U	0.000100 U
MW-4	03/03/2020	0.00100 U	0.00200 U	0.0389	0.00100 U	0.000100 U
MW-4	09/14/2020	--	0.00200 U	0.0391	--	0.000100 U
MW-8	12/09/2015	0.00100 U	0.00200 U	0.111	0.00100 U	0.000500 U
MW-8	02/29/2016	0.00100 U	0.00200 U	0.0862	0.00100 U	0.000500 U
MW-8	06/06/2016	0.00100 U	0.00200 U	0.0926	0.00100 U	0.000500 U
MW-8	09/19/2016	0.00100 U	0.00200 U	0.0731	0.00100 U	0.000500 U
MW-8	12/19/2016	0.00100 U	0.00200 U	0.0736	0.00100 U	0.000500 U
MW-8	02/21/2017	0.00100 U	0.00200 U	0.0596	0.00100 U	0.000500 U
MW-8	04/24/2017	0.00100 U	0.00200 U	0.0751	0.00100 U	0.000500 U
MW-8	07/05/2017	0.00100 U	0.00200 U	0.0778	0.00100 U	0.000500 U
MW-8	09/11/2017	--	--	--	--	--
MW-8	04/18/2018	0.00100 U	0.00200 U	0.0714	0.00100 U	0.000500 U
MW-8	08/21/2018	--	0.00200 U	0.0782	--	--
MW-8	03/18/2019	0.00100 U	0.00200 U	0.0705	0.00100 U	0.000500 U
MW-8	09/10/2019	0.00100 U	0.00200 U	0.0819	0.00100 U	0.000100 U
MW-8	03/03/2020	0.00100 U	0.00200 U	0.0697	0.00100 U	0.000100 U
MW-8	09/15/2020	--	0.00200 U	0.0791	--	0.000100 U
MW-10	12/09/2015	0.00100 U	0.00312	0.179	0.00100 U	0.000500 U
MW-10	02/29/2016	0.00100 U	0.00551	0.208	0.00100 U	0.000500 U
MW-10	06/06/2016	0.00100 U	0.00200 U	0.111	0.00100 U	0.000500 U
MW-10	09/19/2016	0.00100 U	0.00489	0.255	0.00100 U	0.000500 U
MW-10	12/19/2016	0.00100 U	0.00938	0.276	0.00100 U	0.000500 U
MW-10	02/21/2017	0.00100 U	0.0165	0.399	0.00100 U	0.000500 U
MW-10	04/24/2017	0.00100 U	0.0192	0.569	0.00100 U	0.000500 U
MW-10	07/05/2017	0.00100 U	0.0136	0.618	0.00100 U	0.000500 U
MW-10	09/11/2017	--	--	--	--	--
MW-10	04/18/2018	0.00100 U	0.0251	0.416	0.00100 U	0.000500 U
MW-10	08/21/2018	--	0.00388	0.138	--	--
MW-10	08/21/2018	(Duplicate)	--	0.138	--	--
MW-10	03/18/2019	0.00100 U	0.0302 J	0.486	0.00100 U	0.000500 U
MW-10	09/11/2019	0.00100 U	0.0121	0.325	0.00100 U	0.000100 U
MW-10	03/03/2020	0.00100 U	0.0531	0.463	0.00100 U	0.000100 U
MW-10	03/03/2020	(Duplicate)	0.00100 U	0.472	0.00100 U	0.000100 U
MW-10	09/15/2020	--	0.0622	0.505	--	0.000100 U
MW-11	12/09/2015	0.00100 U	0.00200 U	0.0853	0.00100 U	0.000500 U
MW-11	12/09/2015	(Duplicate)	0.00100 U	0.0864	0.00100 U	0.000500 U
MW-11	03/01/2016	0.00100 U	0.00200 U	0.0651	0.00100 U	0.000500 U
MW-11	03/01/2016	(Duplicate)	0.00100 U	0.0757	0.00100 U	0.000500 U
MW-11	06/06/2016	0.00100 U	0.00200 U	0.121	0.00100 U	0.000500 U
MW-11	06/06/2016	(Duplicate)	0.00100 U	0.0752	0.00100 U	0.000500 U
MW-11	09/20/2016	0.00100 U	0.00200 U	0.0827	0.00100 U	0.000500 U
MW-11	09/20/2016	(Duplicate)	0.00100 U	0.0795	0.00100 U	0.000500 U
MW-11	12/19/2016	0.00100 U	0.00200 U	0.0835	0.00100 U	0.000500 U
MW-11	12/19/2016	(Duplicate)	0.00100 U	0.0767	0.00100 U	0.000500 U
MW-11	02/20/2017	0.00100 U	0.00200 U	0.0703	0.00100 U	0.000500 U
MW-11	02/20/2017	(Duplicate)	0.00100 U	0.0695	0.00100 U	0.000500 U
MW-11	04/25/2017	0.00100 U	0.00200 U	0.0808	0.00100 U	0.000500 U
MW-11	04/25/2017	(Duplicate)	0.00100 U	0.0824	0.00100 U	0.000500 U

Baseline Period Groundwater Monitoring Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Appendix IV Parameters

Well	Date		Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L
MW-11	07/05/2017		0.00100 U	0.00200 U	0.0717	0.00100 U	0.000500 U
MW-11	07/05/2017	(Duplicate)	0.00100 U	0.00200 U	0.0694	0.00100 U	0.000500 U
MW-11	09/11/2017		--	--	--	--	--
MW-11	09/11/2017	(Duplicate)	--	--	--	--	--
MW-11	04/18/2018		0.00100 U	0.00200 U	0.0813	0.00100 U	0.000500 U
MW-11	04/18/2018	(Duplicate)	0.00100 U	0.00200 U	0.0825	0.00100 U	0.000500 U
MW-11	08/21/2018		--	0.00200 U	0.0624	--	--
MW-11	03/18/2019		0.00100 U	0.00200 U	0.0546	0.00100 U	0.000500 U
MW-11	03/18/2019	(Duplicate)	0.00100 U	0.00200 U	0.0586	0.00100 U	0.000500 U
MW-11	09/10/2019		0.00100 U	0.00200 U	0.106	0.00100 U	0.000100 U
MW-11	03/04/2020		0.00100 U	0.00200 U	0.0989	0.00100 U	0.000100 U
MW-11	09/15/2020		--	0.00200 U	0.0551	--	0.000161
MW-12	12/09/2015		0.00100 U	0.00200 U	0.0838	0.00100 U	0.000500 U
MW-12	03/01/2016		0.00100 U	0.00200 U	0.0577	0.00100 U	0.000500 U
MW-12	06/06/2016		0.00100 U	0.00200 U	0.116	0.00100 U	0.000500 U
MW-12	09/19/2016		0.00100 U	0.00200 U	0.0509	0.00100 U	0.000500 U
MW-12	12/19/2016		0.00100 U	0.00200 U	0.0472	0.00100 U	0.000500 U
MW-12	02/20/2017		0.00100 U	0.00200 U	0.0440	0.00100 U	0.000500 U
MW-12	04/25/2017		0.00100 U	0.00200 U	0.0472	0.00100 U	0.000500 U
MW-12	07/05/2017		0.00100 U	0.00200 U	0.0454	0.00100 U	0.000500 U
MW-12	09/11/2017		--	--	--	--	--
MW-12	04/18/2018		0.00100 U	0.00200 U	0.0631	0.00100 U	0.000500 U
MW-12	08/21/2018		--	0.00200 U	0.0654	--	--
MW-12	03/18/2019		0.00100 U	0.00200 U	0.0566	0.00100 U	0.000500 U
MW-12	09/10/2019		0.00100 U	0.00200 U	0.0693	0.00100 U	0.000267
MW-12	03/04/2020		0.00100 U	0.00200 U	0.0655	0.00100 U	0.000103
MW-12	09/15/2020		--	0.00200 U	0.0706	--	0.000451
MW-13	12/09/2015		0.00100 U	0.00200 U	0.0530	0.00100 U	0.000500 U
MW-13	03/01/2016		0.00100 U	0.00200 U	0.0439	0.00100 U	0.000500 U
MW-13	06/06/2016		0.00100 U	0.00200 U	0.161	0.00100 U	0.000500 U
MW-13	09/19/2016		0.00100 U	0.00200 U	0.0418	0.00100 U	0.000500 U
MW-13	12/19/2016		0.00100 U	0.00388	0.0571	0.00100 U	0.000500 U
MW-13	02/20/2017		0.00100 U	0.00223	0.0477	0.00100 U	0.000500 U
MW-13	04/25/2017		0.00100 U	0.00339	0.0808	0.00100 U	0.000500 U
MW-13	07/05/2017		0.00100 U	0.00360	0.0768	0.00100 U	0.000500 U
MW-13	09/11/2017		--	--	--	--	--
MW-13	04/18/2018		0.00100 U	0.00200 U	0.0517	0.00100 U	0.000500 U
MW-13	08/21/2018		--	0.00200 U	0.0458	--	--
MW-13	03/18/2019		0.00100 U	0.00675 J	0.0579	0.00100 U	0.000500 U
MW-13	09/10/2019		0.00100 U	0.00251	0.0478	0.00100 U	0.000100 U
MW-13	03/04/2020		0.00100 U	0.00200 U	0.0389	0.00100 U	0.000100 U
MW-13	09/15/2020		--	0.00238	0.0368	--	0.000100 U
MW-14	12/09/2015		0.00100 U	0.00200 U	0.133	0.00100 U	0.000500 U
MW-14	03/01/2016		0.00100 U	0.00200 U	0.0798	0.00100 U	0.000500 U
MW-14	06/06/2016		0.00100 U	0.00200 U	0.0857	0.00100 U	0.000500 U
MW-14	09/20/2016		0.00100 U	0.00200 U	0.0656	0.00100 U	0.000500 U
MW-14	12/19/2016		0.00100 U	0.00200 U	0.0882	0.00100 U	0.000500 U
MW-14	02/20/2017		0.00100 U	0.00200 U	0.0768	0.00100 U	0.000500 U
MW-14	04/25/2017		0.00100 U	0.00200 U	0.0695	0.00100 U	0.000500 U
MW-14	07/05/2017		0.00100 U	0.00200 U	0.0604	0.00100 U	0.000500 U
MW-14	09/11/2017		--	--	--	--	--
MW-14	04/18/2018		0.00100 U	0.00200 U	0.0646	0.00100 U	0.000500 U
MW-14	08/21/2018		--	0.00200 U	0.0619	--	--
MW-14	03/19/2019		0.00100 U	0.00200 U	0.0605	0.00100 U	0.000500 U
MW-14	09/10/2019		0.00100 U	0.00200 U	0.0634	0.00100 U	0.000100 U
MW-14	03/04/2020		0.00100 U	0.00200 U	0.0640	0.00100 U	0.000100
MW-14	09/15/2020		--	0.00200 U	0.0655	--	0.000153
MW-15	12/09/2015		0.00100 U	0.00200 U	0.0583	0.00100 U	0.000500 U
MW-15	02/29/2016		0.00100 U	0.00200 U	0.0450	0.00100 U	0.000500 U
MW-15	06/06/2016		0.00100 U	0.00200 U	0.0428	0.00100 U	0.000500 U
MW-15	09/19/2016		0.00100 U	0.00200 U	0.0453	0.00100 U	0.000500 U
MW-15	12/19/2016		0.00100 U	0.00200 U	0.0683	0.00100 U	0.000500 U
MW-15	02/21/2017		0.00100 U	0.00286	0.0737	0.00100 U	0.000500 U
MW-15	04/24/2017		0.00100 U	0.00200 U	0.0611	0.00100 U	0.000500 U
MW-15	07/05/2017		0.00100 U	0.00200 U	0.0528	0.00100 U	0.000500 U
MW-15	09/11/2017		--	--	--	--	--
MW-15	04/18/2018		0.00100 U	0.00200 U	0.0489	0.00100 U	0.000500 U
MW-15	08/21/2018		--	0.00200 U	0.0454	--	--
MW-15	03/18/2019		0.00100 U	0.00200 U	0.0410	0.00100 U	0.000500 U
MW-15	09/11/2019		0.00100 U	0.00273	0.0559	0.00100 U	0.000151
MW-15	03/04/2020		0.00100 U	0.00200 U	0.0572	0.00100 U	0.000100 U
MW-15	09/15/2020		--	0.00200 U	0.0528	--	0.000116
MW-16	10/30/2018		0.00100 U	0.00200 U	0.220	0.00100 U	0.000500 U
MW-16	10/30/2018	(Duplicate)	0.00100 U	0.00200 U	0.255	0.00100 U	0.000500 U
MW-16	11/20/2018		0.00100 U	0.00200 U	0.152	0.00100 U	0.000500 U
MW-16	12/04/2018		0.00100 U	0.00200 U	0.189	0.00100 U	0.000500 U
MW-16	01/03/2019		0.00100 U	0.00200 U	0.181	0.00100 U	0.000500 U
MW-16	01/16/2019		0.00100 U	0.00200 U	0.164	0.00100 U	0.000500 U
MW-16	01/28/2019		0.00100 U	0.00200 U	0.188	0.00100 U	0.000500 U
MW-16	02/21/2019		0.00100 U	0.00200 U	0.195	0.00100 U	0.000500 U
MW-16	03/07/2019		0.00100 U	0.00200 U	0.194	0.00100 U	0.000500 U
MW-16	03/20/2019		0.00100 U	0.00200 U	0.201	0.00100 U	0.000500 U
MW-16	09/10/2019		0.00100 U	0.00200 U	0.242	0.00100 U	0.000100 U
MW-16	03/04/2020		0.00100 U	0.00200 U	0.163	0.00100 U	0.000100 U
MW-16	09/15/2020		--	0.00200 U	0.197	--	0.000100 U

Baseline Period Groundwater Monitoring Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Well	Date	Appendix IV Parameters				
		Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L
MW-17	10/30/2018	0.00100 U	0.00569	0.157	0.00100 U	0.000500 U
MW-17	11/20/2018	0.00100 U	0.0109	0.154	0.00100 U	0.000500 U
MW-17	12/04/2018	0.00100 U	0.0115	0.161	0.00100 U	0.000500 U
MW-17	01/03/2019	0.00100 U	0.00915	0.167	0.00100 U	0.000500 U
MW-17	01/16/2019	0.00100 U	0.0104 J	0.171	0.00100 U	0.000500 U
MW-17	01/28/2019	0.00100 U	0.00933	0.178	0.00100 U	0.000500 U
MW-17	02/21/2019	0.00100 U	0.0103	0.197	0.00100 U	0.000500 U
MW-17	03/07/2019	0.00100 U	0.0123	0.204	0.00100 U	0.000500 U
MW-17	03/21/2019	0.00100 U	0.0176	0.181	0.00100 U	0.000500 U
MW-17	09/10/2019	0.00100 U	0.0113	0.185	0.00100 U	0.000100 U
MW-17	03/03/2020	0.00100 U	0.00650	0.166	0.00100 U	0.000100 U
MW-17	09/14/2020	--	0.0184	0.207	--	0.000100 U
MW-18	10/31/2018	0.00100 U	0.0208	0.132	0.00100 U	0.000500 U
MW-18	11/20/2018	0.00100 U	0.0206	0.126	0.00100 U	0.000500 U
MW-18	11/20/2018 (Duplicate)	0.00100 U	0.0224	0.136	0.00100 U	0.000500 U
MW-18	12/04/2018	0.00100 U	0.0199	0.141	0.00100 U	0.000500 U
MW-18	12/04/2018 (Duplicate)	0.00100 U	0.0202	0.145	0.00100 U	0.000500 U
MW-18	01/03/2019	0.00100 U	0.00578	0.169	0.00100 U	0.000500 U
MW-18	01/03/2019 (Duplicate)	0.00100 U	0.00531	0.167	0.00100 U	0.000500 U
MW-18	01/16/2019	0.00100 U	0.0126 J	0.133	0.00100 U	0.000500 U
MW-18	01/16/2019 (Duplicate)	0.00100 U	0.0126 J	0.143	0.00100 U	0.000500 U
MW-18	01/28/2019	0.00100 U	0.0141	0.149	0.00100 U	0.000500 U
MW-18	01/28/2019 (Duplicate)	0.00100 U	0.0140	0.140	0.00100 U	0.000500 U
MW-18	02/21/2019	0.00100 U	0.0191	0.145	0.00100 U	0.000500 U
MW-18	02/21/2019 (Duplicate)	0.00100 U	0.0200	0.148	0.00100 U	0.000500 U
MW-18	03/07/2019	0.00100 U	0.0181	0.137	0.00100 U	0.000500 U
MW-18	03/07/2019 (Duplicate)	0.00100 U	0.0165	0.123	0.00100 U	0.000500 U
MW-18	03/21/2019	0.00100 U	0.00450	0.121	0.00100 U	0.000500 U
MW-18	03/21/2019 (Duplicate)	0.00100 U	0.00468	0.133	0.00100 U	0.000500 U
MW-18	09/10/2019	0.00100 U	0.00523	0.164	0.00100 U	0.000100 U
MW-18	03/03/2020	0.00100 U	0.00780	0.206	0.00100 U	0.000100 U
MW-18	09/14/2020	--	0.0144	0.153	--	0.000100 U
MW-19	10/30/2018	--	0.00444	0.181	--	--
MW-19	11/19/2018	--	0.00200 U	0.123	--	--
MW-19	12/03/2018	--	0.00245	0.160	--	--
MW-19	03/18/2019	0.00100 U	0.00200 U	0.153	0.00100 U	0.000500 U
MW-19	09/11/2019	0.00100 U	0.00200 U	0.122	0.00100 U	0.000108
MW-19	09/11/2019 (Duplicate)	0.00100 U	0.00200 U	0.119	0.00100 U	0.000105
MW-19	03/02/2020	0.00100 U	0.00200 U	0.120	0.00100 U	0.000100 U
MW-19	09/14/2020	--	0.00200 U	0.121	--	0.000100 U
MW-19	03/24/2021	0.00200 U	0.00200 U	0.184	0.00100 U	0.000100 U
MW-19	09/07/2021	0.00200 U	0.00200 U	0.143	0.00100 U	0.000100 U
MW-19	03/22/2022	0.00200 U	--	--	0.00100 U	0.000100 U
MW-19	09/27/2022	0.00200 U	--	--	0.00100 U	0.000113
MW-19	03/20/2023	0.00200 U	--	--	0.00100 U	--
MW-20	10/30/2018	--	0.0161	0.127	--	--
MW-20	11/19/2018	--	0.00988	0.108	--	--
MW-20	12/03/2018	--	0.00693	0.125	--	--
MW-20	03/18/2019	0.00100 U	0.0234 J	0.107	0.00100 U	0.000500 U
MW-20	09/11/2019	0.00100 U	0.00339	0.0930	0.00100 U	0.000100 U
MW-20	03/02/2020	0.00100 U	0.00371	0.107	0.00100 U	0.000100 U
MW-20	09/14/2020	--	0.00574	0.0962	--	0.000100 U
MW-20	03/24/2021	0.00200 U	0.00206	0.0954	0.00100 U	0.000100 U
MW-20	09/07/2021	0.00200 U	0.00835	0.114	0.00100 U	0.000100 U
MW-20	03/22/2022	0.00200 U	--	--	0.00100 U	0.000100 U
MW-20	09/27/2022	0.00200 U	--	--	0.00100 U	0.000100 U
MW-20	03/20/2023	0.00200 U	--	--	0.00100 U	--
MW-21	10/30/2018	--	0.00200 U	0.219	--	--
MW-21	11/19/2018	--	0.00200 U	0.204	--	--
MW-21	12/04/2018	--	0.00200 U	0.211	--	--
MW-21	03/18/2019	0.00100 U	0.00200 U	0.223	0.00100 U	0.000500 U
MW-21	09/10/2019	0.00100 U	0.00200 U	0.178	0.00100 U	0.000130
MW-21	03/03/2020	0.00100 U	0.00200 U	0.166	0.00100 U	0.000100 U
MW-21	09/15/2020	--	0.00200 U	0.212	--	0.000100 U
MW-21	03/24/2021	0.00200 U	0.00200 U	0.271	0.00100 U	0.000170
MW-21	09/09/2021	0.00200 U	0.00200 U	0.318	0.00100 U	0.000100 U
MW-21	03/22/2022	0.00200 U	--	--	0.00100 U	0.000100 U
MW-21	09/27/2022	0.00200 U	--	--	0.00100 U	0.000100 U
MW-21	03/22/2023	0.00200 U	--	--	0.00100 U	--

Notes:
U - Not detected at the associated reporting limit.
J - Estimated concentration.
-- Concentration was not included in baseline range.
excluded A value was excluded to avoid an identified trend in the data set.
(1) Potential outlier (0.224 mg/L) was excluded from the baseline UTL calculation.

Baseline Period Groundwater Monitoring Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Well	Date	Appendix IV Parameters					
		Chromium mg/L	Cobalt mg/L	Lead mg/L	Lithium mg/L	Mercury mg/L	
Data Used for Calculations of Inter-Well Baseline Values (Table 4.3) - Pooled Upgradient Wells (MW-16, MW-17, MW-18)							
MW-16	10/30/2018	(Duplicate)	0.00500 U	0.00187	0.000500 U	0.0596	0.000200 U
MW-16	10/30/2018		0.00500 U	0.00218	0.000500 U	0.0679	0.000200 U
MW-16	11/20/2018		0.00500 U	0.000500 U	0.000500 U	0.0458	0.000200 U
MW-16	12/04/2018		0.00500 U	0.000500 U	0.000500 U	0.0685	0.000200 U
MW-16	01/03/2019		0.00500 U	0.000500 U	0.000500 U	0.0591	0.000200 U
MW-16	01/16/2019		0.00500 U	0.000500 U	0.000500 U	0.0599	0.000200 U
MW-16	01/28/2019		0.00500 U	0.000500 U	0.000500 U	0.0632	0.000200 U
MW-16	02/21/2019		0.00500 U	0.000500 U	0.000500 U	0.0716	0.000200 U
MW-16	03/07/2019		0.00500 U	0.000500 U	0.000500 U	0.0706	0.000200 U
MW-16	03/20/2019		0.00500 U	0.000500 U	0.000500 U	0.07	0.000200 U
MW-16	09/10/2019		0.00500 U	0.000500 U	0.000500 U	0.0592	0.000200 U
MW-16	03/04/2020		0.00500 U	0.000500 U	0.000500 U	0.0573	0.000200 U
MW-16	09/15/2020		0.00500 U	0.000523	0.000500 U	0.0616	--
MW-16	03/23/2021		0.00500 U	0.000500 U	0.000500 U	0.0655	0.000200 U
MW-16	09/09/2021		0.00500 U	0.000736	0.000500 U	0.066	0.000200 U
MW-16	03/21/2022		--	--	--	0.0705	--
MW-16	09/27/2022		--	--	--	0.0614	--
MW-16	03/22/2023		--	--	--	0.0539	--
MW-16	09/06/2023		--	--	--	0.064	--
MW-16	03/12/2024		--	--	--	0.0573	--
MW-16	09/18/2024		--	--	--	0.0616	--
MW-16	03/31/2025		--	--	--	0.0604	--
MW-16	09/04/2025		--	--	--	0.0556	--
MW-17	10/30/2018		0.00500 U	0.00346	0.000500 U	0.0737	0.000200 U
MW-17	11/20/2018		0.00500 U	0.00396	0.000500 U	0.0724	0.000200 U
MW-17	12/04/2018		0.00500 U	0.00379	0.000500 U	0.0831	0.000200 U
MW-17	01/03/2019		0.00500 U	0.00335	0.000500 U	0.0721	0.000200 U
MW-17	01/16/2019		0.00500 U	0.0034	0.000500 U	0.0769	0.000200 U
MW-17	01/28/2019		0.00500 U	0.00344	0.000500 U	0.0764	0.000200 U
MW-17	02/21/2019		0.00500 U	0.00318	0.000500 U	0.0929	0.000200 U
MW-17	03/07/2019		0.00500 U	0.00328	0.000500 U	0.0867	0.000200 U
MW-17	03/21/2019		0.00500 U	0.00269	0.000500 U	0.0828	0.000200 U
MW-17	09/10/2019		0.00500 U	0.00313	0.000500 U	0.0771	0.000200 U
MW-17	03/03/2020		0.00500 U	0.00243	0.000500 U	0.114	0.000200 U
MW-17	09/14/2020		0.00500 U	0.00319	0.000500 U	0.0921	--
MW-17	03/24/2021		0.00500 U	0.00289	0.000638	0.089	0.000200 U
MW-17	09/08/2021		0.00500 U	0.00214	0.000500 U	0.0835	0.000200 U
MW-17	03/23/2022		--	--	--	0.091	--
MW-17	09/27/2022		--	--	--	0.0834	--
MW-17	03/22/2023		--	--	--	0.0881	--
MW-17	09/06/2023		--	--	--	0.0837	--
MW-17	03/12/2024		--	--	--	0.078	--
MW-17	09/18/2024		--	--	--	0.0752	--
MW-17	03/31/2025		--	--	--	0.0845	--
MW-17	09/04/2025		--	--	--	0.0772	--
MW-18	10/31/2018	(Duplicate)	0.00500 U	0.00511	0.000500 U	0.129	0.000200 U
MW-18	11/20/2018		0.00500 U	0.00661	0.000500 U	0.107	0.000200 U
MW-18	11/20/2018		0.00500 U	0.00724	0.000500 U	0.116	0.000200 U
MW-18	12/04/2018	(Duplicate)	0.00500 U	0.00586	0.000500 U	0.121	0.000200 U
MW-18	12/04/2018	(Duplicate)	0.00500 U	0.00605	0.000500 U	0.132	0.000200 U
MW-18	01/03/2019		0.00500 U	0.00306	0.000500 U	0.101	0.000200 U
MW-18	01/03/2019	(Duplicate)	0.00500 U	0.00303	0.000500 U	0.103	0.000600 U
MW-18	01/16/2019		0.00500 U	0.00278	0.000500 U	0.103	0.000200 U
MW-18	01/16/2019	(Duplicate)	0.00500 U	0.00303	0.000500 U	0.107	0.000200 U
MW-18	01/28/2019		0.00500 U	0.00324	0.000500 U	0.118	0.000200 U
MW-18	01/28/2019	(Duplicate)	0.00500 U	0.00335	0.000500 U	0.12	0.000200 U
MW-18	02/21/2019		0.00500 U	0.00286	0.000500 U	0.125	0.000200 U
MW-18	02/21/2019	(Duplicate)	0.00500 U	0.00295	0.000500 U	0.129	0.000200 U
MW-18	03/07/2019		0.00500 U	0.00294	0.000500 U	0.133	0.000200 U
MW-18	03/07/2019	(Duplicate)	0.00500 U	0.00266	0.000500 U	0.136	0.000200 U
MW-18	03/21/2019		0.00500 U	0.00154	0.000500 U	0.0991	0.000200 U
MW-18	03/21/2019	(Duplicate)	0.00500 U	0.0019	0.000500 U	0.115	0.000200 U
MW-18	09/10/2019		0.00500 U	0.00392	0.000500 U	0.118	0.000200 U
MW-18	03/03/2020		0.00500 U	0.00282	0.000500 U	0.0878	0.000200 U
MW-18	09/14/2020		0.00500 U	0.00457	0.000500 U	0.117	--
MW-18	03/24/2021		0.00500 U	0.00595	0.000500 U	0.141	0.000200 U
MW-18	09/08/2021		0.00500 U	0.00352	0.000500 U	0.145	0.000200 U
MW-18	09/08/2021	(Duplicate)	0.00500 U	0.00364	0.000500 U	0.146	0.000200 U
MW-18	03/23/2022		--	--	--	0.162	--
MW-18	09/27/2022		--	--	--	0.143	--
MW-18	09/27/2022	(Duplicate)	--	--	--	--	--
MW-18	03/22/2023		--	--	--	0.149	--
MW-18	09/06/2023		--	--	--	0.133	--
MW-18	03/12/2024		--	--	--	0.132	--
MW-18	09/18/2024		--	--	--	0.156	--
MW-18	03/31/2025		--	--	--	0.139	--
MW-18	09/04/2025		--	--	--	0.14	--

Baseline Period Groundwater Monitoring Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Appendix IV Parameters

Well	Date		Chromium mg/L	Cobalt mg/L	Lead mg/L	Lithium mg/L	Mercury mg/L
Data Used for Calculations of Intra-Well Baseline Values (Table 4.4)							
MW-2	12/09/2015		0.00500 U	0.00331	0.000500 U	0.131	0.000200 U
MW-2	03/01/2016		0.00500 U	0.00201	0.000500 U	0.100	0.000200 U
MW-2	06/06/2016		0.00500 U	0.00159	0.000500 U	0.108	0.000200 U
MW-2	09/20/2016		0.00500 U	0.00175	0.000500 U	0.0889	0.000200 UJ
MW-2	12/19/2016		0.00500 U	0.00198	0.000500 U	0.102	0.000200 U
MW-2	02/20/2017		0.00500 U	0.00164	0.000500 U	0.0821	0.000200 U
MW-2	04/25/2017		0.00500 U	0.00144	0.000500 U	0.0589	0.000200 U
MW-2	07/05/2017		0.00500 U	0.00192	0.000500 U	0.0739	0.000200 U
MW-2	09/11/2017		--	--	--	--	--
MW-2	04/18/2018		0.00500 U	0.00204	0.000500 U	0.0715	0.000200 U
MW-2	08/21/2018		0.00500 U	0.00246	--	0.0708	--
MW-2	03/19/2019		0.00500 U	0.00199	0.000500 U	0.0763	0.000200 U
MW-2	09/11/2019		0.00500 U	0.00170	0.000500 U	0.0737	0.000200 U
MW-2	09/11/2019	(Duplicate)	0.00500 U	0.00176	0.000500 U	0.0776	0.000200 U
MW-2	03/04/2020		0.00500 U	0.00200	0.000500 U	0.0863	0.000200 U
MW-2	03/04/2020	(Duplicate)	0.00500 U	0.00200	0.000500 U	0.0878	0.000200 U
MW-2	09/15/2020		0.00500 U	0.00162	0.000500 U	0.0807	--
MW-2	09/15/2020	(Duplicate)	0.00500 U	0.00162	0.000500 U	0.0805	--
MW-4	12/09/2015		0.00500 U	0.00154	0.000500 U	0.254	0.000200 U
MW-4	03/01/2016		0.00500 U	0.000500 U	0.000500 U	0.180	0.000200 U
MW-4	06/06/2016		0.00500 U	0.000997	0.000500 U	0.188	0.000200 U
MW-4	09/20/2016		0.00500 U	0.0104	0.000500 U	0.195	0.000200 UJ
MW-4	12/19/2016		0.00500 U	0.00841	0.000500 U	0.174	0.000200 U
MW-4	02/20/2017		0.00500 U	0.00855	0.000500 U	0.171	0.000200 U
MW-4	04/24/2017		0.00500 U	0.00791	0.000500 U	0.146	0.000200 U
MW-4	07/05/2017		0.00500 U	0.00758	0.000500 U	0.121	0.000200 U
MW-4	09/11/2017		--	--	--	--	--
MW-4	04/18/2018		0.00500 U	0.00493	0.000500 U	0.128	0.000200 U
MW-4	08/21/2018		0.00500 U	0.00252	--	0.0787	--
MW-4	03/19/2019		0.00500 U	0.00377	0.000500 U	0.149	0.000200 U
MW-4	09/11/2019		0.00500 U	0.00434	0.000500 U	0.104	0.000200 U
MW-4	03/03/2020		0.00500 U	0.00399	0.000500 U	0.114	0.000200 U
MW-4	09/14/2020		0.00500 U	0.00249	0.000500 U	0.0725	--
MW-8	12/09/2015		0.00500 U	0.00253	0.000500 U	0.0950	0.000200 U
MW-8	02/29/2016		0.00500 U	0.00344	0.000500 U	0.0743	0.000200 U
MW-8	06/06/2016		0.00500 U	0.00303	0.000500 U	0.106	0.000200 U
MW-8	09/19/2016		0.00500 U	0.00248	0.000500 U	0.0500 U	0.000200 UJ
MW-8	12/19/2016		0.00500 U	0.00272	0.000500 U	0.0585	0.000200 U
MW-8	02/21/2017		0.00500 U	0.00211	0.000500 U	0.0684	0.000200 U
MW-8	04/24/2017		0.00500 U	0.00287	0.000500 U	0.111	0.000200 U
MW-8	07/05/2017		0.00500 U	0.00313	0.000500 U	0.103	0.000200 U
MW-8	09/11/2017		--	--	--	--	--
MW-8	04/18/2018		0.00500 U	0.00351	0.000500 U	0.104	0.000200 U
MW-8	08/21/2018		0.00500 U	0.00297	--	0.0909	--
MW-8	03/18/2019		0.00500 U	0.00256	0.000500 U	0.0850	0.000200 U
MW-8	09/10/2019		0.00500 U	0.00276	0.000500 U	0.0884	0.000200 U
MW-8	03/03/2020		0.00500 U	0.00192	0.000500 U	0.0563	0.000200 U
MW-8	09/15/2020		0.00500 U	0.00395	0.000500 U	0.0720	--
MW-10	12/09/2015		0.00500 U	0.00394	0.000500 U	0.138	0.000200 U
MW-10	02/29/2016		0.00500 U	0.00311	0.000500 U	0.126	0.000200 U
MW-10	06/06/2016		0.00500 U	0.000854	0.000500 U	0.117	0.000200 U
MW-10	09/19/2016		0.00500 U	0.00262	0.000500 U	0.0958	0.000200 UJ
MW-10	12/19/2016		0.00500 U	0.00197	0.000500 U	0.0874	0.000200 U
MW-10	02/21/2017		0.00500 U	0.00198	0.000500 U	0.0619	0.000200 U
MW-10	04/24/2017		0.00500 U	0.00191	0.000500 U	0.0653	0.000200 U
MW-10	07/05/2017		0.00500 U	0.00138	0.000500 U	0.0533	0.000200 U
MW-10	09/11/2017		--	--	--	--	--
MW-10	04/18/2018		0.00500 U	0.00194	0.000500 U	0.0753	0.000200 U
MW-10	08/21/2018		0.00500 U	0.000592	--	0.0947	--
MW-10	08/21/2018	(Duplicate)	0.00500 U	0.000630	--	0.0954	--
MW-10	03/18/2019		0.00500 U	0.00128	0.000500 U	0.0746	0.000200 U
MW-10	09/11/2019		0.00500 U	0.00101	0.000500 U	0.0767	0.000200 U
MW-10	03/03/2020		0.00500 U	0.000876	0.000500 U	0.0766	0.000200 U
MW-10	03/03/2020	(Duplicate)	0.00500 U	0.000870	0.000500 U	0.0801	0.000200 U
MW-10	09/15/2020		0.00500 U	0.000834	0.000500 U	0.0883	--
MW-11	12/09/2015		0.00500 U	0.00238	0.000500 U	0.132	0.000200 U
MW-11	12/09/2015	(Duplicate)	0.00500 U	0.00240	0.000500 U	0.120	0.000200 U
MW-11	03/01/2016		0.00500 U	0.00153	0.000500 U	0.119	0.000200 U
MW-11	03/01/2016	(Duplicate)	0.00500 U	0.00182	0.000500 U	0.122	0.000200 U
MW-11	06/06/2016		0.00500 U	0.000500 U	0.000500 U	0.135	0.000200 U
MW-11	06/06/2016	(Duplicate)	0.00500 U	0.000792	0.000500 U	0.107	0.000200 U
MW-11	09/20/2016		0.00500 U	0.00155	0.000500 U	0.136	0.000200 UJ
MW-11	09/20/2016	(Duplicate)	0.00500 U	0.00163	0.000500 U	0.131	0.000200 UJ
MW-11	12/19/2016		0.00500 U	0.00212	0.000500 U	0.127	0.000200 U
MW-11	12/19/2016	(Duplicate)	0.00500 U	0.00204	0.000500 U	0.132	0.000200 U
MW-11	02/20/2017		0.00500 U	0.00282	0.000500 U	0.119	0.000200 U
MW-11	02/20/2017	(Duplicate)	0.00500 U	0.00271	0.000500 U	0.122	0.000200 U
MW-11	04/25/2017		0.00500 U	0.00279	0.000500 U	0.111	0.000200 U
MW-11	04/25/2017	(Duplicate)	0.00500 U	0.00293	0.000500 U	0.111	0.000200 U

Baseline Period Groundwater Monitoring Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Appendix IV Parameters

Well	Date		Chromium mg/L	Cobalt mg/L	Lead mg/L	Lithium mg/L	Mercury mg/L
MW-11	07/05/2017		0.00500 U	0.00331	0.000500 U	0.120	0.000200 U
MW-11	07/05/2017	(Duplicate)	0.00500 U	0.00321	0.000500 U	0.121	0.000200 U
MW-11	09/11/2017		--	--	--	--	--
MW-11	09/11/2017	(Duplicate)	--	--	--	--	--
MW-11	04/18/2018		0.00500 U	0.00323	0.000500 U	0.129	0.000200 U
MW-11	04/18/2018	(Duplicate)	0.00500 U	0.00322	0.000500 U	0.128	0.000200 U
MW-11	08/21/2018		0.00500 U	0.00251	--	0.109	--
MW-11	03/18/2019		0.00500 U	0.00137	0.000500 U	0.132	0.000200 U
MW-11	03/18/2019	(Duplicate)	0.00500 U	0.00171	0.000500 U	0.129	0.000200 U
MW-11	09/10/2019		0.00500 U	0.000588	0.000500 U	0.0987	0.000200 U
MW-11	03/04/2020		0.00500 U	0.000500 U	0.000500 U	0.0912	0.000200 U
MW-11	09/15/2020		0.00500 U	0.00253	0.000500 U	0.120	--
MW-12	12/09/2015		0.00500 U	0.000500 U	0.000500 U	0.136	0.000200 U
MW-12	03/01/2016		0.00500 U	0.000500 U	0.000500 U	0.109	0.000200 U
MW-12	06/06/2016		0.0340	0.000500 U	0.000500 U	0.108	0.000200 U
MW-12	09/19/2016		0.00500 U	0.000500 U	0.000500 U	0.0871	0.000200 UJ
MW-12	12/19/2016		0.00500 U	0.000500 U	0.000500 U	0.0893	0.000200 U
MW-12	02/20/2017		0.00500 U	0.000500 U	0.000500 U	0.0727	0.000200 U
MW-12	04/25/2017		0.00500 U	0.000567	0.000500 U	0.0814	0.000200 U
MW-12	07/05/2017		0.00500 U	0.00182	0.000500 U	0.102	0.000200 U
MW-12	09/11/2017		--	--	--	--	--
MW-12	04/18/2018		0.00500 U	0.000500 U	0.000500 U	0.101	0.000200 U
MW-12	08/21/2018		0.00500 U	0.00147	--	0.0957	--
MW-12	03/18/2019		0.00500 U	0.000500 U	0.000500 U	0.111	0.000200 U
MW-12	09/10/2019		0.00500 U	0.000500 U	0.000500 U	0.110	0.000200 U
MW-12	03/04/2020		0.00500 U	0.000500 U	0.000500 U	0.100	0.000200 U
MW-12	09/15/2020		0.00500 U	0.000500 U	0.000500 U	0.0986	--
MW-13	12/09/2015		0.00500 U	0.000796	0.000500 U	0.122	0.000200 U
MW-13	03/01/2016		0.00500 U	0.00139	0.000500 U	0.116	0.000200 U
MW-13	06/06/2016		0.00500 U	0.000500 U	0.000500 U	0.102	0.000200 U
MW-13	09/19/2016		0.00500 U	0.00103	0.000500 U	0.121	0.000200 UJ
MW-13	12/19/2016		0.00500 U	0.00105	0.000500 U	0.110	0.000200 U
MW-13	02/20/2017		0.00500 U	0.00187	0.000500 U	0.120	0.000200 U
MW-13	04/25/2017		0.00500 U	0.00624	0.000500 U	0.0830	0.000200 U
MW-13	07/05/2017		0.00500 U	0.00116	0.000500 U	0.105	0.000200 U
MW-13	09/11/2017		--	--	--	--	--
MW-13	04/18/2018		0.00500 U	0.00304	0.000500 U	0.120	0.000200 U
MW-13	08/21/2018		0.00500 U	0.00185	--	0.0745	--
MW-13	03/18/2019		0.00500 U	0.00158	0.000500 U	0.118	0.000200 U
MW-13	09/10/2019		0.00500 U	0.00191	0.000500 U	0.0937	0.000200 U
MW-13	03/04/2020		0.00500 U	0.000776	0.000500 U	0.134	0.000200 U
MW-13	09/15/2020		0.00500 U	0.00323	0.000500 U	0.0997	--
MW-14	12/09/2015		0.00500 U	0.00311	0.000500 U	0.162	0.000200 U
MW-14	03/01/2016		0.00500 U	0.00278	0.000500 U	0.143	0.000200 U
MW-14	06/06/2016		0.00500 U	0.00237	0.000500 U	0.129	0.000200 U
MW-14	09/20/2016		0.00500 U	0.00259	0.000500 U	0.152	0.000200 UJ
MW-14	12/19/2016		0.00500 U	0.00465	0.000500 U	0.133	0.000200 U
MW-14	02/20/2017		0.00500 U	0.00494	0.000500 U	0.142	0.000200 U
MW-14	04/25/2017		0.00500 U	0.00329	0.000500 U	0.0959	0.000200 U
MW-14	07/05/2017		0.00500 U	0.00327	0.000500 U	0.105	0.000200 U
MW-14	09/11/2017		--	--	--	--	--
MW-14	04/18/2018		0.00500 U	0.00277	0.000500 U	0.105	0.000200 U
MW-14	08/21/2018		0.00500 U	0.00319	--	0.0814	--
MW-14	03/19/2019		0.00500 U	0.00174	0.000500 U	0.125	0.000200 U
MW-14	09/10/2019		0.00500 U	0.000759	0.000500 U	0.104	0.000200 U
MW-14	03/04/2020		0.00500 U	0.00155	0.000500 U	0.128	0.000200 U
MW-14	09/15/2020		0.00500 U	0.00219	0.000500 U	0.130	--
MW-15	12/09/2015		0.00500 U	0.00212	0.000500 U	0.0652	0.000200 U
MW-15	02/29/2016		0.00500 U	0.00188	0.000500 U	0.0541	0.000200 U
MW-15	06/06/2016		0.00500 U	0.00165	0.000500 U	0.0540	0.000200 U
MW-15	09/19/2016		0.00500 U	0.00213	0.000500 U	0.0701	0.000200 UJ
MW-15	12/19/2016		0.00500 U	0.00212	0.000500 U	0.0923	0.000200 U
MW-15	02/21/2017		0.00500 U	0.00561	0.000500 U	0.0814	0.000200 U
MW-15	04/24/2017		0.00500 U	0.00199	0.000500 U	0.0847	0.000200 U
MW-15	07/05/2017		0.00500 U	0.00227	0.000500 U	0.0919	0.000200 U
MW-15	09/11/2017		--	--	--	--	--
MW-15	04/18/2018		0.00500 U	0.00172	0.000500 U	0.0833	0.000200 U
MW-15	08/21/2018		0.00500 U	0.00213	--	0.0576	--
MW-15	03/18/2019		0.00500 U	0.00196	0.000500 U	0.0616	0.000200 U
MW-15	09/11/2019		0.00500 U	0.00950	0.000500 U	0.0606	0.000200 U
MW-15	03/04/2020		0.00500 U	0.00141	0.000500 U	0.0586	0.000200 U
MW-15	09/15/2020		0.00500 U	0.000899	0.000500 U	0.0729	--
MW-16	10/30/2018		0.00500 U	0.00187	0.000500 U	0.0596	0.000200 U
MW-16	10/30/2018	(Duplicate)	0.00500 U	0.00218	0.000500 U	0.0679	0.000200 U
MW-16	11/20/2018		0.00500 U	0.000500 U	0.000500 U	0.0458	0.000200 U
MW-16	12/04/2018		0.00500 U	0.000500 U	0.000500 U	0.0685	0.000200 U
MW-16	01/03/2019		0.00500 U	0.000500 U	0.000500 U	0.0591	0.000200 U
MW-16	01/16/2019		0.00500 U	0.000500 U	0.000500 U	0.0599	0.000200 U
MW-16	01/28/2019		0.00500 U	0.000500 U	0.000500 U	0.0632	0.000200 U
MW-16	02/21/2019		0.00500 U	0.000500 U	0.000500 U	0.0716	0.000200 U
MW-16	03/07/2019		0.00500 U	0.000500 U	0.000500 U	0.0706	0.000200 U
MW-16	03/20/2019		0.00500 U	0.000500 U	0.000500 U	0.0700	0.000200 U
MW-16	09/10/2019		0.00500 U	0.000500 U	0.000500 U	0.0592	0.000200 U
MW-16	03/04/2020		0.00500 U	0.000500 U	0.000500 U	0.0573	0.000200 U
MW-16	09/15/2020		0.00500 U	0.000523	0.000500 U	0.0616	--

Baseline Period Groundwater Monitoring Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Well	Date	Appendix IV Parameters				
		Chromium mg/L	Cobalt mg/L	Lead mg/L	Lithium mg/L	Mercury mg/L
MW-17	10/30/2018	0.00500 U	0.00346	0.000500 U	0.0737	0.000200 U
MW-17	11/20/2018	0.00500 U	0.00396	0.000500 U	0.0724	0.000200 U
MW-17	12/04/2018	0.00500 U	0.00379	0.000500 U	0.0831	0.000200 U
MW-17	01/03/2019	0.00500 U	0.00335	0.000500 U	0.0721	0.000200 U
MW-17	01/16/2019	0.00500 U	0.00340	0.000500 U	0.0769	0.000200 U
MW-17	01/28/2019	0.00500 U	0.00344	0.000500 U	0.0764	0.000200 U
MW-17	02/21/2019	0.00500 U	0.00318	0.000500 U	0.0929	0.000200 U
MW-17	03/07/2019	0.00500 U	0.00328	0.000500 U	0.0867	0.000200 U
MW-17	03/21/2019	0.00500 U	0.00269	0.000500 U	0.0828	0.000200 U
MW-17	09/10/2019	0.00500 U	0.00313	0.000500 U	0.0771	0.000200 U
MW-17	03/03/2020	0.00500 U	0.00243	0.000500 U	0.114	0.000200 U
MW-17	09/14/2020	0.00500 U	0.00319	0.000500 U	0.0921	--
MW-18	10/31/2018	0.00500 U	0.00511	0.000500 U	0.129	0.000200 U
MW-18	11/20/2018	0.00500 U	0.00661	0.000500 U	0.107	0.000200 U
MW-18	11/20/2018	(Duplicate)	0.00724	0.000500 U	0.116	0.000200 U
MW-18	12/04/2018	0.00500 U	0.00586	0.000500 U	0.121	0.000200 U
MW-18	12/04/2018	(Duplicate)	0.00605	0.000500 U	0.132	0.000200 U
MW-18	01/03/2019	0.00500 U	0.00306	0.000500 U	0.101	0.000200 U
MW-18	01/03/2019	(Duplicate)	0.00303	0.000500 U	0.103	0.000600 U
MW-18	01/16/2019	0.00500 U	0.00278	0.000500 U	0.103	0.000200 U
MW-18	01/16/2019	(Duplicate)	0.00500 U	0.00303	0.107	0.000200 U
MW-18	01/28/2019	0.00500 U	0.00324	0.000500 U	0.118	0.000200 U
MW-18	01/28/2019	(Duplicate)	0.00335	0.000500 U	0.120	0.000200 U
MW-18	02/21/2019	0.00500 U	0.00286	0.000500 U	0.125	0.000200 U
MW-18	02/21/2019	(Duplicate)	0.00500 U	0.00295	0.129	0.000200 U
MW-18	03/07/2019	0.00500 U	0.00294	0.000500 U	0.133	0.000200 U
MW-18	03/07/2019	(Duplicate)	0.00500 U	0.00266	0.136	0.000200 U
MW-18	03/21/2019	0.00500 U	0.00154	0.000500 U	0.0991	0.000200 U
MW-18	03/21/2019	(Duplicate)	0.00500 U	0.00190	0.115	0.000200 U
MW-18	09/10/2019	0.00500 U	0.00392	0.000500 U	0.118	0.000200 U
MW-18	03/03/2020	0.00500 U	0.00282	0.000500 U	0.0878	0.000200 U
MW-18	09/14/2020	0.00500 U	0.00457	0.000500 U	0.117	--
MW-19	10/30/2018	--	0.00980	--	0.149	--
MW-19	11/19/2018	--	0.00567	--	0.102	--
MW-19	12/03/2018	--	0.00693	--	0.147	--
MW-19	03/18/2019	0.00500 U	0.00758	0.000500 U	0.121	0.000200 U
MW-19	09/11/2019	0.00500 U	0.00455	0.000500 U	0.146	0.000200 U
MW-19	09/11/2019	(Duplicate)	0.00456	0.000500 U	0.143	0.000200 U
MW-19	03/02/2020	0.00500 U	0.00502	0.000500 U	0.115	0.000200 U
MW-19	09/14/2020	0.00500 U	0.00714	0.000500 U	0.0930	--
MW-19	03/24/2021	0.00500 U	0.0102	0.000500 U	0.112	0.000200 U
MW-19	09/07/2021	0.00500 U	0.00847	0.000500 U	0.111	0.000200 U
MW-19	03/22/2022	0.00500 U	--	0.000500 U	--	0.000200 U
MW-19	09/27/2022	0.00500 U	--	0.000500 U	--	0.000200 U
MW-19	03/20/2023	--	--	--	--	0.000200 U
MW-20	10/30/2018	--	0.00370	--	0.0936	--
MW-20	11/19/2018	--	0.00227	--	0.0730	--
MW-20	12/03/2018	--	0.00190	--	0.0891	--
MW-20	03/18/2019	0.00500 U	0.00158	0.000500 U	0.111	0.000200 U
MW-20	09/11/2019	0.00500 U	0.00218	0.000500 U	0.0773	0.000200 U
MW-20	03/02/2020	0.00500 U	0.00432	0.000500 U	0.0782	0.000200 U
MW-20	09/14/2020	0.00500 U	0.00574	0.000500 U	0.0752	--
MW-20	03/24/2021	0.00500 U	0.00248	0.000500 U	0.0641	0.000200 U
MW-20	09/07/2021	0.00500 U	0.00407	0.000500 U	0.0883	0.000200 U
MW-20	03/22/2022	0.00500 U	--	0.000500 U	--	0.000200 U
MW-20	09/27/2022	0.00500 U	--	0.000500 U	--	0.000200 U
MW-20	03/20/2023	--	--	--	--	0.000200 U
MW-21	10/30/2018	--	0.00104	--	0.0806	--
MW-21	11/19/2018	--	0.000684	--	0.0707	--
MW-21	12/04/2018	--	0.000545	--	0.0841	--
MW-21	03/18/2019	0.00500 U	0.000683	0.000517	0.0768	0.000200 U
MW-21	09/10/2019	0.00500 U	0.000500 U	0.000500 U	0.0621	0.000200 U
MW-21	03/03/2020	0.00500 U	0.000500 U	0.000500 U	0.0686	0.000200 U
MW-21	09/15/2020	0.00500 U	0.00131	0.000500 U	0.0669	--
MW-21	03/24/2021	0.00500 U	0.000624	0.000500 U	0.0680	0.000200 U
MW-21	09/09/2021	0.00500 U	0.00187	0.000500 U	0.0701	0.000200 U
MW-21	03/22/2022	0.00500 U	--	0.000500 U	--	0.000200 U
MW-21	09/27/2022	0.00500 U	--	0.000500 U	--	0.000200 U
MW-21	03/22/2023	--	--	--	--	0.000200 U

Notes:
U - Not detected at the associated reporting limit.
J - Estimated concentration.
-- Concentration was not included in baseline range.
excluded A value was excluded to avoid an identified trend in the data set.
(1) Potential outlier (0.224 mg/L) was excluded from the baseline UTL calculation.

Baseline Period Groundwater Monitoring Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Appendix IV Parameters

Well	Date		Molybdenum mg/L	Radium-226 & 228 pCi/L	Selenium mg/L	Thallium mg/L
Data Used for Calculations of Inter-Well Baseline Values (Table 4.3) - Pooled Upgradient Wells (MW-16, MW-17, MW-18)						
MW-16	10/30/2018		0.00200 U	2.38	0.0334	0.00100 U
MW-16	10/30/2018	(Duplicate)	0.00200 U	2.02	0.0403	0.00100 U
MW-16	11/20/2018		0.00200 U	1.08	0.0268	0.00100 U
MW-16	12/04/2018		0.00200 U	0.844	0.0332	0.00100 U
MW-16	01/03/2019		0.00200 U	1.29	0.0299	0.00100 U
MW-16	01/16/2019		0.00200 U	0.739	0.0304	0.00100 U
MW-16	01/28/2019		0.00200 U	0.732	0.0333	0.00100 U
MW-16	02/21/2019		0.00200 U	0.656	0.0230	0.00100 U
MW-16	03/07/2019		0.00200 U	0.432	0.0167	0.00100 U
MW-16	03/20/2019		0.00200 U	0.584	0.00500 U	0.00100 U
MW-16	09/10/2019		0.00200 U	1.34	0.0169	0.00100 U
MW-16	03/04/2020		0.00200 U	0.301 U	0.0178	0.00100 U
MW-16	09/15/2020		0.00200 U	0.842	0.00500 U	--
MW-16	03/23/2021		0.00200 U	0.536	0.00500 U	0.00100 U
MW-16	09/09/2021		0.00200 U	1.25	0.00500 U	0.00100 U
MW-16	03/21/2022		--	--	--	--
MW-16	09/27/2022		--	--	--	--
MW-16	03/22/2023		--	--	--	--
MW-16	09/06/2023		--	--	--	--
MW-16	03/12/2024		--	--	--	--
MW-16	09/18/2024		--	--	--	--
MW-16	03/31/2025		--	--	--	--
MW-16	09/04/2025		--	--	--	--
MW-17	10/30/2018		0.00200 U	2.27	0.00500 U	0.00100 U
MW-17	11/20/2018		0.00200 U	1.21	0.00500 U	0.00100 U
MW-17	12/04/2018		0.00200 U	1.21	0.00500 U	0.00100 U
MW-17	01/03/2019		0.00200 U	1.19	0.00500 U	0.00100 U
MW-17	01/16/2019		0.00200 U	1.21	0.00500 U	0.00100 U
MW-17	01/28/2019		0.00200 U	0.943	0.00500 U	0.00100 U
MW-17	02/21/2019		0.00200 U	0.650	0.00500 U	0.00100 U
MW-17	03/07/2019		0.00200 U	0.778	0.00500 U	0.00100 U
MW-17	03/21/2019		0.00200 U	0.696	0.00500 U	0.00100 U
MW-17	09/10/2019		0.00200 U	1.20	0.00500 U	0.00100 U
MW-17	03/03/2020		0.00200 U	0.835	0.00500 U	0.00100 U
MW-17	09/14/2020		0.00200 U	1.10	0.00500 U	--
MW-17	03/24/2021		0.00200 U	0.872	0.00500 U	0.00100 U
MW-17	09/08/2021		0.00205	1.25	0.00500 U	0.00100 U
MW-17	03/23/2022		--	--	--	--
MW-17	09/27/2022		--	--	--	--
MW-17	03/22/2023		--	--	--	--
MW-17	09/06/2023		--	--	--	--
MW-17	03/12/2024		--	--	--	--
MW-17	09/18/2024		--	--	--	--
MW-17	03/31/2025		--	--	--	--
MW-17	09/04/2025		--	--	--	--
MW-18	10/31/2018		0.00200 U	1.61	0.00500 U	0.00100 U
MW-18	11/20/2018		0.00200 U	1.52	0.00500 U	0.00100 U
MW-18	11/20/2018	(Duplicate)	0.00200 U	1.61	0.00500 U	0.00100 U
MW-18	12/04/2018		0.00200 U	1.32	0.00500 U	0.00100 U
MW-18	12/04/2018	(Duplicate)	0.00200 U	1.75	0.00500 U	0.00100 U
MW-18	01/03/2019		0.00200 U	0.713	0.00500 U	0.00100 U
MW-18	01/03/2019	(Duplicate)	0.00200 U	1.28	0.00500 U	0.00100 U
MW-18	01/16/2019		0.00200 U	1.44	0.00500 U	0.00100 U
MW-18	01/16/2019	(Duplicate)	0.00263	1.84	0.00500 U	0.00100 U
MW-18	01/28/2019		0.00202	1	0.00500 U	0.00100 U
MW-18	01/28/2019	(Duplicate)	0.00202	0.84	0.00500 U	0.00100 U
MW-18	02/21/2019		0.00200 U	0.989	0.00500 U	0.00100 U
MW-18	02/21/2019	(Duplicate)	0.00200 U	0.822	0.00500 U	0.00100 U
MW-18	03/07/2019		0.00200 U	1.11	0.00500 U	0.00100 U
MW-18	03/07/2019	(Duplicate)	0.00200 U	0.807	0.00500 U	0.00100 U
MW-18	03/21/2019		0.00284	1.18	0.00500 U	0.00100 U
MW-18	03/21/2019	(Duplicate)	0.00207	1.07	0.00500 U	0.00100 U
MW-18	09/10/2019		0.00200 U	1.51	0.00500 U	0.00100 U
MW-18	03/03/2020		0.00200 U	0.856	0.00500 U	0.00100 U
MW-18	09/14/2020		0.00200 U	1.51	0.00500 U	--
MW-18	03/24/2021		0.00200 U	1.34	0.00500 U	0.00100 U
MW-18	09/08/2021		0.00227	1.87	0.00500 U	0.00100 U
MW-18	09/08/2021	(Duplicate)	0.0035	0.427 U	0.00500 U	0.00100 U
MW-18	03/23/2022		--	--	--	--
MW-18	09/27/2022		--	--	--	--
MW-18	09/27/2022	(Duplicate)	--	--	--	--
MW-18	03/22/2023		--	--	--	--
MW-18	09/06/2023		--	--	--	--
MW-18	03/12/2024		--	--	--	--
MW-18	09/18/2024		--	--	--	--
MW-18	03/31/2025		--	--	--	--
MW-18	09/04/2025		--	--	--	--

Baseline Period Groundwater Monitoring Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Appendix IV Parameters

Well	Date	Molybdenum mg/L	Radium-226 & 228 pCi/L	Selenium mg/L	Thallium mg/L
Data Used for Calculations of Intra-Well Baseline Values (Table 4.4)					
MW-2	12/09/2015	0.00266	0.234 U	0.00500 U	0.00100 U
MW-2	03/01/2016	0.00218	0.360 U	0.00500 U	0.00100 U
MW-2	06/06/2016	0.00243	0.896	0.00500 U	0.00100 U
MW-2	09/20/2016	0.00242	0.575	0.00500 U	0.00100 U
MW-2	12/19/2016	0.00269	0.791	0.00500 U	0.00100 U
MW-2	02/20/2017	0.00258	0.164 U	0.00500 U	0.00100 U
MW-2	04/25/2017	0.00200 U	0.239 U	0.00500 U	0.00100 U
MW-2	07/05/2017	0.00200 U	0.597	0.00500 U	0.00100 U
MW-2	09/11/2017	--	--	--	--
MW-2	04/18/2018	0.00211	0.501	0.00500 U	0.00100 U
MW-2	08/21/2018	0.00200 U	0.829	0.00500 U	--
MW-2	03/19/2019	0.00200 U	0.638	0.00500 U	0.00100 U
MW-2	09/11/2019	0.00229	0.476 U	0.00500 U	0.00100 U
MW-2	09/11/2019 (Duplicate)	0.00246	0.960	0.00500 U	0.00100 U
MW-2	03/04/2020	0.00246	0.697	0.00500 U	0.00100 U
MW-2	03/04/2020 (Duplicate)	0.00227	0.718	0.00500 U	0.00100 U
MW-2	09/15/2020	0.00206	0.832	0.00500 U	--
MW-2	09/15/2020 (Duplicate)	0.00200 U	1.00	0.00500 U	--
MW-4	12/09/2015	0.00200 U	0.228 U	0.00500 U	0.00100 U
MW-4	03/01/2016	0.00200 U	0.212 U	0.0113	0.00100 U
MW-4	06/06/2016	0.00200 U	0.460	0.00500 U	0.00100 U
MW-4	09/20/2016	0.00200 U	0.829	0.00500 U	0.00100 U
MW-4	12/19/2016	0.00200 U	0.748	0.00500 U	0.00100 U
MW-4	02/20/2017	0.00200 U	0.398	0.00500 U	0.00100 U
MW-4	04/24/2017	0.00200 U	0.375	0.00500 U	0.00100 U
MW-4	07/05/2017	0.00200 U	0.425	0.00500 U	0.00100 U
MW-4	09/11/2017	--	--	--	--
MW-4	04/18/2018	0.00200 U	0.241 U	0.00500 U	0.00100 U
MW-4	08/21/2018	0.00200 U	0.634	0.00500 U	--
MW-4	03/19/2019	0.00200 U	0.399 U	0.00500 U	0.00100 U
MW-4	09/11/2019	0.00200 U	0.442	0.00500 U	0.00100 U
MW-4	03/03/2020	0.00200 U	0.475 U	0.00500 U	0.00100 U
MW-4	09/14/2020	0.00200 U	0.594	0.00500 U	--
MW-8	12/09/2015	0.00589	0.535	0.0985	0.00100 U
MW-8	02/29/2016	0.0565	0.290 U	0.0620	0.00100 U
MW-8	06/06/2016	0.0184	0.644	0.00500 U	0.00100 U
MW-8	09/19/2016	0.143	0.641	0.0672	0.00100 U
MW-8	12/19/2016	0.0895	0.657	0.00768	0.00100 U
MW-8	02/21/2017	0.0398	0.377 U	0.00500 U	0.00100 U
MW-8	04/24/2017	0.0241	0.0102 U	0.00500 U	0.00100 U
MW-8	07/05/2017	0.0165	0.959	0.00500 U	0.00100 U
MW-8	09/11/2017	--	--	--	--
MW-8	04/18/2018	0.0233	0.481	0.00590	0.00100 U
MW-8	08/21/2018	0.00976	0.722	0.00500 U	--
MW-8	03/18/2019	0.0355	0.410	0.00500 U	0.00100 U
MW-8	09/10/2019	0.0135	0.589	0.00500 U	0.00100 U
MW-8	03/03/2020	0.0303	0.315 U	0.00500 U	0.00100 U
MW-8	09/15/2020	0.0311	0.932	0.00500 U	--
MW-10	12/09/2015	0.00346	0.627	0.00500 U	0.00100 U
MW-10	02/29/2016	0.00248	0.701	0.00500 U	0.00100 U
MW-10	06/06/2016	0.00239	0.256 U	0.00500 U	0.00100 U
MW-10	09/19/2016	0.00292	0.530	0.00500 U	0.00100 U
MW-10	12/19/2016	0.00267	1.06	0.00500 U	0.00100 U
MW-10	02/21/2017	0.00329	0.731	0.00500 U	0.00100 U
MW-10	04/24/2017	0.00296	0.740	0.00500 U	0.00100 U
MW-10	07/05/2017	0.00309	0.902	0.00500 U	0.00100 U
MW-10	09/11/2017	--	--	--	--
MW-10	04/18/2018	0.00269	0.776	0.00500 U	0.00100 U
MW-10	08/21/2018	0.00200 U	0.830	0.0152	--
MW-10	08/21/2018 (Duplicate)	0.00200 U	0.608	0.0167	--
MW-10	03/18/2019	0.00345	0.694	0.00500 U	0.00100 U
MW-10	09/11/2019	0.00314	0.313 U	0.00500 U	0.00100 U
MW-10	03/03/2020	0.00326	0.385 U	0.00500 U	0.00100 U
MW-10	03/03/2020 (Duplicate)	0.00322	0.628	0.00500 U	0.00100 U
MW-10	09/15/2020	0.00322	2.17	0.00500 U	--
MW-11	12/09/2015	0.00200 U	0.321 U	0.00500 U	0.00100 U
MW-11	12/09/2015 (Duplicate)	0.00200 U	0.827 U	0.00500 U	0.00100 U
MW-11	03/01/2016	0.00200 U	0.246 U	0.00500 U	0.00100 U
MW-11	03/01/2016 (Duplicate)	0.00200 U	0.0494 U	0.00500 U	0.00100 U
MW-11	06/06/2016	0.00200 U	-0.00864 U	0.0580 J	0.00100 U
MW-11	06/06/2016 (Duplicate)	0.00200 U	-0.0107 U	0.00609 J	0.00100 U
MW-11	09/20/2016	0.00200 U	0.163 U	0.00500 U	0.00100 U
MW-11	09/20/2016 (Duplicate)	0.00200 U	-0.0282 U	0.00500 U	0.00100 U
MW-11	12/19/2016	0.00200 U	0.659	0.00500 U	0.00100 U
MW-11	12/19/2016 (Duplicate)	0.00200 U	0.217 U	0.00500 U	0.00100 U
MW-11	02/20/2017	0.00200 U	0.0642 U	0.00500 U	0.00100 U
MW-11	02/20/2017 (Duplicate)	0.00200 U	0.0507 U	0.00500 U	0.00100 U
MW-11	04/25/2017	0.00200 U	0.0680 U	0.00500 U	0.00100 U
MW-11	04/25/2017 (Duplicate)	0.00200 U	0.120 U	0.00500 U	0.00100 U

Baseline Period Groundwater Monitoring Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Well	Date	Appendix IV Parameters			
		Molybdenum mg/L	Radium-226 & 228 pCi/L	Selenium mg/L	Thallium mg/L
MW-11	07/05/2017	0.00200 U	0.330	0.00500 U	0.00100 U
MW-11	07/05/2017	0.00200 U	0.576	0.00500 U	0.00100 U
MW-11	09/11/2017	--	--	--	--
MW-11	09/11/2017	--	--	--	--
MW-11	04/18/2018	0.00200 U	0.401 U	0.00500 U	0.00100 U
MW-11	04/18/2018	0.00200 U	0.595	0.00500 U	0.00100 U
MW-11	08/21/2018	0.00200 U	0.296 U	0.00500 U	--
MW-11	03/18/2019	0.00200 U	0.436	0.00500 U	0.00100 U
MW-11	03/18/2019	0.00200 U	-0.0335 U	0.00500 U	0.00100 U
MW-11	09/10/2019	0.00200 U	0.383 U	0.0213	0.00100 U
MW-11	03/04/2020	0.00200 U	0.0279 U	0.0100	0.00100 U
MW-11	09/15/2020	0.00200 U	0.379	0.00500 U	--
MW-12	12/09/2015	0.00200 U	0.209 U	0.0582	0.00100 U
MW-12	03/01/2016	0.00200 U	0.536	0.0674	0.00100 U
MW-12	06/06/2016	0.00234	0.448	0.0522	0.00100 U
MW-12	09/19/2016	0.00200 U	0.744	0.0766	0.00100 U
MW-12	12/19/2016	0.00200 U	0.161 U	0.0728	0.00100 U
MW-12	02/20/2017	0.00200 U	0.301 U	0.0701	0.00100 U
MW-12	04/25/2017	0.00200 U	0.288 U	0.0327	0.00100 U
MW-12	07/05/2017	0.00200 U	0.300 U	0.00500 U	0.00100 U
MW-12	09/11/2017	--	--	--	--
MW-12	04/18/2018	0.00477	0.297 U	0.00790	0.00100 U
MW-12	08/21/2018	0.00382	0.810	0.00500 U	--
MW-12	03/18/2019	0.00200 U	0.105 U	0.0202	0.00100 U
MW-12	09/10/2019	0.00200 U	0.351 U	0.00500 U	0.00100 U
MW-12	03/04/2020	0.00200 U	0.229 U	0.0242	0.00100 U
MW-12	09/15/2020	0.00200 U	0.649	0.0285	--
MW-13	12/09/2015	0.00200 U	1.25	0.0405	0.00100 U
MW-13	03/01/2016	0.00200 U	0.493	0.0624	0.00100 U
MW-13	06/06/2016	0.00208	0.486	0.0831	0.00100 U
MW-13	09/19/2016	0.00200 U	0.214 U	0.0258	0.00100 U
MW-13	12/19/2016	0.00200 U	0.370 U	0.00616	0.00100 U
MW-13	02/20/2017	0.00200 U	0.0861 U	0.0196	0.00100 U
MW-13	04/25/2017	0.00296	0.389	0.00500 U	0.00100 U
MW-13	07/05/2017	0.00235	0.579	0.00500 U	0.00100 U
MW-13	09/11/2017	--	--	--	--
MW-13	04/18/2018	0.00200 U	0.737	0.0205	0.00100 U
MW-13	08/21/2018	0.00205	0.653	0.00500 U	--
MW-13	03/18/2019	0.00276	0.00847 U	0.00500 U	0.00100 U
MW-13	09/10/2019	0.00200 U	0.255 U	0.00500 U	0.00100 U
MW-13	03/04/2020	0.00200 U	0.115 U	0.0326	0.00100 U
MW-13	09/15/2020	0.00273	0.622	0.00500 U	--
MW-14	12/09/2015	0.00207	1.79	0.0148	0.00100 U
MW-14	03/01/2016	0.00200 U	0.597	0.0216	0.00100 U
MW-14	06/06/2016	0.00200 U	0.789	0.0146	0.00100 U
MW-14	09/20/2016	0.00200 U	0.879	0.0289	0.00100 U
MW-14	12/19/2016	0.00222	1.05	0.0126	0.00100 U
MW-14	02/20/2017	0.00222	0.559	0.00695	0.00100 U
MW-14	04/25/2017	0.00209	0.324	0.00500 U	0.00100 U
MW-14	07/05/2017	0.00200 U	0.557	0.00500 U	0.00100 U
MW-14	09/11/2017	--	--	--	--
MW-14	04/18/2018	0.00200 U	0.445	0.00500 U	0.00100 U
MW-14	08/21/2018	0.00200 U	0.702	0.00500 U	--
MW-14	03/19/2019	0.00200 U	0.616	0.00500 U	0.00100 U
MW-14	09/10/2019	0.00200 U	0.311 U	0.0102	0.00100 U
MW-14	03/04/2020	0.00200 U	0.679	0.0176	0.00100 U
MW-14	09/15/2020	0.00224	1.18	0.0165	--
MW-15	12/09/2015	0.00200 U	0.894	0.00500 U	0.00100 U
MW-15	02/29/2016	0.00200 U	0.300 U	0.00799	0.00100 U
MW-15	06/06/2016	0.00200 U	0.454	0.00657	0.00100 U
MW-15	09/19/2016	0.00200 U	0.282 U	0.00500 U	0.00100 U
MW-15	12/19/2016	0.00200 U	0.506 U	0.00500 U	0.00100 U
MW-15	02/21/2017	0.00200 U	0.931	0.00500 U	0.00100 U
MW-15	04/24/2017	0.00200 U	0.385	0.00500 U	0.00100 U
MW-15	07/05/2017	0.00200 U	0.691	0.00500 U	0.00100 U
MW-15	09/11/2017	--	--	--	--
MW-15	04/18/2018	0.00200 U	0.773	0.00500 U	0.00100 U
MW-15	08/21/2018	0.00200 U	1.05	0.00500 U	--
MW-15	03/18/2019	0.00200 U	0.489	0.00500 U	0.00100 U
MW-15	09/11/2019	0.00200 U	0.686	0.00500 U	0.00100 U
MW-15	03/04/2020	0.00200 U	0.540	0.00500 U	0.00100 U
MW-15	09/15/2020	0.00200 U	0.830	0.00500 U	--
MW-16	10/30/2018	0.00200 U	2.38	0.0334	0.00100 U
MW-16	10/30/2018	0.00200 U	2.02	0.0403	0.00100 U
MW-16	11/20/2018	0.00200 U	1.08	0.0268	0.00100 U
MW-16	12/04/2018	0.00200 U	0.844	0.0332	0.00100 U
MW-16	01/03/2019	0.00200 U	1.29	0.0299	0.00100 U
MW-16	01/16/2019	0.00200 U	0.739	0.0304	0.00100 U
MW-16	01/28/2019	0.00200 U	0.732	0.0333	0.00100 U
MW-16	02/21/2019	0.00200 U	0.656	0.0230	0.00100 U
MW-16	03/07/2019	0.00200 U	0.432	0.0167	0.00100 U
MW-16	03/20/2019	0.00200 U	0.584	0.00500 U	0.00100 U
MW-16	09/10/2019	0.00200 U	1.34	0.0169	0.00100 U
MW-16	03/04/2020	0.00200 U	0.301 U	0.0178	0.00100 U
MW-16	09/15/2020	0.00200 U	0.842	0.00500 U	--

Baseline Period Groundwater Monitoring Data
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Well	Date	Appendix IV Parameters			
		Molybdenum mg/L	Radium-226 & 228 pCi/L	Selenium mg/L	Thallium mg/L
MW-17	10/30/2018	0.00200 U	2.27	0.00500 U	0.00100 U
MW-17	11/20/2018	0.00200 U	1.21	0.00500 U	0.00100 U
MW-17	12/04/2018	0.00200 U	1.21	0.00500 U	0.00100 U
MW-17	01/03/2019	0.00200 U	1.19	0.00500 U	0.00100 U
MW-17	01/16/2019	0.00200 U	1.21	0.00500 U	0.00100 U
MW-17	01/28/2019	0.00200 U	0.943	0.00500 U	0.00100 U
MW-17	02/21/2019	0.00200 U	0.650	0.00500 U	0.00100 U
MW-17	03/07/2019	0.00200 U	0.778	0.00500 U	0.00100 U
MW-17	03/21/2019	0.00200 U	0.696	0.00500 U	0.00100 U
MW-17	09/10/2019	0.00200 U	1.20	0.00500 U	0.00100 U
MW-17	03/03/2020	0.00200 U	0.835	0.00500 U	0.00100 U
MW-17	09/14/2020	0.00200 U	1.10	0.00500 U	--
MW-18	10/31/2018	0.00200 U	1.61	0.00500 U	0.00100 U
MW-18	11/20/2018	0.00200 U	1.52	0.00500 U	0.00100 U
MW-18	11/20/2018	(Duplicate)	1.61	0.00500 U	0.00100 U
MW-18	12/04/2018	0.00200 U	1.32	0.00500 U	0.00100 U
MW-18	12/04/2018	(Duplicate)	1.75	0.00500 U	0.00100 U
MW-18	01/03/2019	0.00200 U	0.713	0.00500 U	0.00100 U
MW-18	01/03/2019	(Duplicate)	1.28	0.00500 U	0.00100 U
MW-18	01/16/2019	0.00200 U	1.44	0.00500 U	0.00100 U
MW-18	01/16/2019	(Duplicate)	0.00263	0.00500 U	0.00100 U
MW-18	01/28/2019	0.00202	1.00	0.00500 U	0.00100 U
MW-18	01/28/2019	(Duplicate)	0.840	0.00500 U	0.00100 U
MW-18	02/21/2019	0.00200 U	0.989	0.00500 U	0.00100 U
MW-18	02/21/2019	(Duplicate)	0.822	0.00500 U	0.00100 U
MW-18	03/07/2019	0.00200 U	1.11	0.00500 U	0.00100 U
MW-18	03/07/2019	(Duplicate)	0.807	0.00500 U	0.00100 U
MW-18	03/21/2019	0.00284	1.18	0.00500 U	0.00100 U
MW-18	03/21/2019	(Duplicate)	0.00207	0.00500 U	0.00100 U
MW-18	09/10/2019	0.00200 U	1.51	0.00500 U	0.00100 U
MW-18	03/03/2020	0.00200 U	0.856	0.00500 U	0.00100 U
MW-18	09/14/2020	0.00200 U	1.51	0.00500 U	--
MW-19	10/30/2018	0.00200 U	1.90	0.00500 U	--
MW-19	11/19/2018	0.00200 U	1.39	0.00500 U	--
MW-19	12/03/2018	0.00200 U	0.987	0.00500 U	--
MW-19	03/18/2019	0.00200 U	0.612	0.00500 U	0.00100 U
MW-19	09/11/2019	0.00200 U	1.06	0.00500 U	0.00100 U
MW-19	09/11/2019	(Duplicate)	0.570	0.00500 U	0.00100 U
MW-19	03/02/2020	0.00200 U	0.764	0.00500 U	0.00100 U
MW-19	09/14/2020	0.00200 U	0.929	0.00500 U	--
MW-19	03/24/2021	0.00200 U	1.08	0.00500 U	0.00100 U
MW-19	09/07/2021	0.00200 U	0.859	0.00500 U	0.00100 U
MW-19	03/22/2022	--	--	--	0.00100 U
MW-19	09/27/2022	--	--	--	0.00100 U
MW-19	03/20/2023	--	--	--	0.00100 U
MW-20	10/30/2018	0.00200 U	2.11	0.00500 U	--
MW-20	11/19/2018	0.00200 U	1.12	0.00706	--
MW-20	12/03/2018	0.00200 U	1.07	0.0132	--
MW-20	03/18/2019	0.00200 U	0.331 U	0.00500 U	0.00100 U
MW-20	09/11/2019	0.00200 U	0.782	0.0109	0.00100 U
MW-20	03/02/2020	0.00200 U	0.440	0.00500 U	0.00100 U
MW-20	09/14/2020	0.00200 U	0.847	0.00500 U	--
MW-20	03/24/2021	0.00200 U	0.375 U	0.00500 U	0.00100 U
MW-20	09/07/2021	0.00200 U	0.992	0.00500 U	0.00100 U
MW-20	03/22/2022	--	--	--	0.00100 U
MW-20	09/27/2022	--	--	--	0.00100 U
MW-20	03/20/2023	--	--	--	0.00100 U
MW-21	10/30/2018	0.00243	2.21	0.00500 U	--
MW-21	11/19/2018	0.00200 U	0.934	0.00500 U	--
MW-21	12/04/2018	0.00200 U	1.03	0.00500 U	--
MW-21	03/18/2019	0.00200 U	0.952	0.00500 U	0.00100 U
MW-21	09/10/2019	0.00200 U	0.850	0.00500 U	0.00100 U
MW-21	03/03/2020	0.00200 U	0.825	0.00500 U	0.00100 U
MW-21	09/15/2020	0.00200 U	1.88	0.00500 U	--
MW-21	03/24/2021	0.00225	1.24	0.00500 U	0.00136
MW-21	09/09/2021	0.00200 U	1.69	0.00500 U	0.00100 U
MW-21	03/22/2022	--	--	--	0.00100 U
MW-21	09/27/2022	--	--	--	0.00100 U
MW-21	03/22/2023	--	--	--	0.00154

Notes:
U - Not detected at the associated reporting limit.
J - Estimated concentration.
-- Concentration was not included in baseline range.
excluded A value was excluded to avoid an identified trend in the data set.
(1) Potential outlier (0.224 mg/L) was excluded from the baseline UTL calculation.

Table 4.2

2025 Monitoring Analytical Results Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location: Sample ID: Sample Date:			MW-2 MW02-GW-0325 3/31/2025	MW-2 DP01-GW-0325 3/31/2025 (Duplicate)	MW-2 MW02-GW-0925 9/3/2025	MW-2 DP01-GW-0925 9/3/2025 (Duplicate)	MW-4 MW04-GW-0325 3/31/2025
Parameters	Units	Site-Specific GWPS					
Appendix III							
Boron	mg/L	--	0.440	0.424	0.435	0.411	0.242
Calcium	mg/L	--	178	173	168	152	93.3
Chloride	mg/L	--	<5.00	5.26	<5.00	<5.00	23.4
Fluoride	mg/L	4.0	<1.00	<1.00	<1.00	<1.00	<1.00
pH, lab	s.u.	--	7.7 J	7.7 J	7.6 J	7.6 J	7.8 J
Sulfate	mg/L	--	210	202	163	168	130
Total dissolved solids (TDS)	mg/L	--	858	876	810	850	546
Appendix IV							
Antimony	mg/L	0.006	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Arsenic	mg/L	0.0667	0.0166	0.0174	0.0165	0.0165	<0.00200
Barium	mg/L	2.0	0.184	0.184	0.221	0.201	0.0504
Beryllium	mg/L	0.004	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	0.005	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Chromium	mg/L	0.1	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	0.00724	0.00573	0.00572	0.00377	0.00367	0.00163
Lead	mg/L	0.015	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.164	0.111	0.107	0.123	0.114	0.0501
Mercury	mg/L	0.002	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum	mg/L	0.100	0.00225	<0.00200	0.00245	0.00235	<0.00200
Radium-226 & 228	pCi/L	5	1.31	0.272	1.31	1.19	0.829
Selenium	mg/L	0.05	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	mg/L	0.002	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 4.2

2025 Monitoring Analytical Results Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-4	MW-8	MW-8	MW-10	MW-10	MW-11	MW-11
Sample ID:		MW04-GW-0925	MW08-GW-0325	MW08-GW-0925	MW10-GW-0325	MW10-GW-0925	MW11-GW-0325	MW11-GW-0925
Sample Date:		9/4/2025	4/1/2025	9/4/2025	3/31/2025	9/3/2025	4/1/2025	9/3/2025
Parameters	Units							
Appendix III								
Boron	mg/L	0.195	2.27	2.29	0.435	0.443	0.340	0.303
Calcium	mg/L	84.6	177	147	111	113	206	202
Chloride	mg/L	22.1	6.76	9.45	9.56	8.59	17.8	23.1
Fluoride	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
pH, lab	s.u.	7.2 J	7.7 J	7.7 J	7.9 J	7.8 J	7.7 J	7.5 J
Sulfate	mg/L	137	291	211	42.3	47.4	437	420
Total dissolved solids (TDS)	mg/L	562	1080	978	660	650	1170	1150
Appendix IV								
Antimony	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Arsenic	mg/L	<0.00200	<0.00200	<0.00200	0.0355	0.0393	<0.00200	<0.00200
Barium	mg/L	0.0496	0.0856	0.0947	0.301	0.373	0.0361	0.0305
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	<0.000200	0.000209	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	0.00178	0.00147	0.00204	0.00132	0.00115	0.00692	0.00547
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.0501	0.120	0.114	0.0680	0.0809	0.0935	0.0930
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum	mg/L	<0.00200	0.0104	0.0115	0.00442	0.00422	<0.00200	<0.00200
Radium-226 & 228	pCi/L	0.558	0.983	0.963	0.568	1.04	0.329	0.962
Selenium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 4.2

2025 Monitoring Analytical Results Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-12	MW-12	MW-13	MW-13	MW-14	MW-14	MW-15
Sample ID:		MW12-GW-0325	MW12-GW-0925	MW13-GW-0325	MW13-GW-0925	MW14-GW-0325	MW14-GW-0925	MW15-GW-0325
Sample Date:		4/1/2025	9/3/2025	4/1/2025	9/3/2025	3/31/2025	9/3/2025	3/31/2025
Parameters	Units							
Appendix III								
Boron	mg/L	1.23	1.24	1.51	1.48	0.346	0.347	1.25
Calcium	mg/L	255	210	214	181	190	201	116
Chloride	mg/L	72.7	89.2	12.3	9.15	6.10	<5.00	24.4
Fluoride	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
pH, lab	s.u.	7.6 J	7.6 J	7.7 J	7.7 J	7.6 J	7.5 J	7.8 J
Sulfate	mg/L	564	438	469	382	205	248	279
Total dissolved solids (TDS)	mg/L	1460	1270	1270	1120	934	1060	972
Appendix IV								
Antimony	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Arsenic	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Barium	mg/L	0.0537	0.0417	0.0310	0.0277	0.0609	0.0589	0.120
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	<0.000500	<0.000500	0.000515	0.000780	0.00499	0.00264	0.00219
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	0.000880	<0.000500	<0.000500
Lithium	mg/L	0.141	0.124	0.113	0.0991	0.122	0.130	0.0538
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Radium-226 & 228	pCi/L	0.346	0.888	0.431	0.797	0.718	0.351	0.865
Selenium	mg/L	0.0739	0.0593	0.0178	<0.00500	<0.00500	0.00582	<0.00500
Thallium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 4.2

2025 Monitoring Analytical Results Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-15	MW-16	MW-16	MW-17	MW-17	MW-18	MW-18
Sample ID:		MW15-GW-0925	MW16-GW-0325	MW16-GW-0925	MW17-GW-0325	MW17-GW-0925	MW18-GW-0325	MW18-GW-0925
Sample Date:		9/4/2025	3/31/2025	9/3/2025	3/31/2025	9/4/2025	3/31/2025	9/4/2025
Parameters	Units							
Appendix III								
Boron	mg/L	0.339	0.203	0.180	0.233	0.204	0.249	0.236
Calcium	mg/L	105	139	133	147	143	171	170
Chloride	mg/L	26.0	6.27	<5.00	14.2	15.5	<5.00	<5.00
Fluoride	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
pH, lab	s.u.	7.1 J	7.7 J	7.6 J	7.8 J	7.6 J	7.8 J	7.6 J
Sulfate	mg/L	186	51.7	63.7	105	97.9	127	130
Total dissolved solids (TDS)	mg/L	658	698	748 J	714	748	840	830
Appendix IV								
Antimony	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Arsenic	mg/L	<0.00200	<0.00200	<0.00200	0.00395	0.00291	0.0237	0.0200
Barium	mg/L	0.0816	0.295	0.324	0.124	0.104	0.123	0.119
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	0.00316	0.000838	0.00110	0.000649	<0.000500	0.00265	0.00356
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.0617	0.0604	0.0556	0.0845	0.0772	0.139	0.140
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum	mg/L	<0.00200	<0.00200	<0.00200	0.00336	0.00302	0.00233	0.00219
Radium-226 & 228	pCi/L	1.15	0.548	1.08	1.67	1.68	1.26	1.37
Selenium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 4.2

2025 Monitoring Analytical Results Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-19	MW-19	MW-20	MW-20	MW-21	MW-21
Sample ID:		MW19-GW-0325	MW19-GW-0925	MW20-GW-0325	MW20-GW-0925	MW21-GW-0325	MW21-GW-0925
Sample Date:		3/31/2025	9/3/2025	3/31/2025	9/3/2025	3/31/2025	9/3/2025
Parameters	Units						
Appendix III							
Boron	mg/L	0.585	0.487	1.17	1.07	0.241	0.189
Calcium	mg/L	277	202	205	205	182	187
Chloride	mg/L	57.7	34.5	80.0	61.5	8.72	8.32
Fluoride	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
pH, lab	s.u.	7.7 J	7.5 J	7.8 J	7.7 J	7.7 J	7.4 J
Sulfate	mg/L	456	311	352	423	140	135
Total dissolved solids (TDS)	mg/L	1490	1130	1170	1310	778	816
Appendix IV							
Antimony	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Arsenic	mg/L	<0.00200	<0.00200	0.0136	0.0148	0.00786	0.00794
Barium	mg/L	0.137	0.0781	0.0886	0.0833	0.399	0.372
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	0.00697	0.00280	0.00255	0.00109	0.00338	0.00600
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.169	0.148	0.110	0.118	0.0816	0.0864
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Radium-226 & 228	pCi/L	1.56	0.822	0.304	1.51	1.84	1.88
Selenium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Notes:

< - Not detected at the associated reporting limit.

J - Estimated concentration.

0.0739

Value exceeds the site-specific GWPS.

Table 4.3

Inter-Well Comparison Values
(Statistical Upper Tolerance Limits based on Data from Upgradient Wells)
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Analyte	Unit	Date Range	Number of Samples	Percent ND	Summary Statistics		Statistical Outliers	Data Distribution	Mann-Kendall Trend Test Results			UTL Method	95/95 UTL	99/95 UTL
					Minimum	Maximum			Statistics	Probability	Conclusion			
Upgradient well (pooled MW-16, MW-17, and MW-18)														
Appendix III														
Boron	mg/L	10/2018 - 9/2021	42	26%	0.183	0.29	0	Normal	1.10	0.137	No significant trend	Normal (KM)	0.259	0.277
Calcium	mg/L	10/2018 - 9/2021	42	0%	112	278	2	Not Normal	2.09	0.018	Increasing	--	112 - 278	112 - 278
Chloride	mg/L	10/2018 - 9/2021	42	48%	1.87	22.5	0	Not Normal	1.26	0.104	No significant trend	Normal (KM)	21.79	27.22
Fluoride	mg/L	10/2018 - 9/2021	42	76%	0.217	0.729	0	--	--	--	--	Non-parametric	0.729	0.729
pH, lab	s.u.	10/2018 - 9/2021	42	0%	6.9 J	7.8 J	0	Not Normal	-0.50	0.691	No significant trend	Non-parametric	6.9 J - 7.8 J	6.9 J - 7.8 J
Sulfate	mg/L	10/2018 - 9/2021	42	0%	35.8	410	2	Not Normal	0.76	0.224	No significant trend	Non-parametric	409	409
TDS	mg/L	10/2018 - 9/2021	42	2%	30.0 U	1280	3	Not Normal	2.50	0.006	Increasing	--	30.0 U - 1280	30.0 U - 1280
Appendix IV														
Antimony	mg/L	10/2018 - 9/2021	39	100%	0.00100 U	0.00200 U	0	--	--	--	--	Detection Limit	0.00200 U	0.00200 U
Arsenic	mg/L	1/2019 - 9/2025	53	34%	0.00200 U	0.0369	3	Not Normal	1.95	0.051	No significant trend ⁽¹⁾	Lognormal (KM)	0.067	0.155
Barium	mg/L	10/2018 - 9/2021	42	0%	0.121	0.322	0	Gamma	3.35	4E-04	Increasing	--	0.121 - 0.322	0.121 - 0.322
Beryllium	mg/L	10/2018 - 9/2021	39	100%	0.00100 U	0.00100 U	0	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
Cadmium	mg/L	10/2018 - 9/2021	42	95%	0.000100 U	0.000500 U	0	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
Chromium	mg/L	10/2018 - 9/2021	42	100%	0.00500 U	0.00500 U	0	--	--	--	--	Detection Limit	0.00500 U	0.00500 U
Cobalt	mg/L	10/2018 - 9/2021	42	26%	0.000500 U	0.00724	0	Not Normal	-2.56	0.995	No significant trend	Non-parametric	0.00724	0.00724
Lead	mg/L	10/2018 - 9/2021	42	98%	0.000500 U	0.000638	0	--	--	--	--	Detection Limit	0.000638	0.000638
Lithium	mg/L	10/2018 - 9/2025	66	0%	0.0458	0.162	3	Approx. Gamma	1.66	0.097	No significant trend	Lognormal	0.164	0.210
Mercury	mg/L	10/2018 - 9/2021	39	100%	0.000200 U	0.000600 U	0	--	--	--	--	Detection Limit	0.000600 U	0.000600 U
Molybdenum	mg/L	10/2018 - 9/2021	42	88%	0.00200 U	0.0035	3	--	--	--	--	Non-parametric	0.0035	0.0035
Radium-226 & 228	pCi/L	10/2018 - 9/2021	42	2%	0.301 U	2.38	0	Normal	-2.15	0.984	No significant trend	Normal (KM)	2.01	2.36
Selenium	mg/L	10/2018 - 9/2021	42	76%	0.00500 U	0.0403	0	--	--	--	--	Non-parametric	0.0403	0.0403
Thallium	mg/L	10/2018 - 9/2021	39	100%	0.00100 U	0.00100 U	0	--	--	--	--	Detection Limit	0.00100 U	0.00100 U

Notes:

- 0.200 U - Not detected at the associated reporting limit.
- 6.9 J - Estimated concentration.
- UTLs were calculated using pooled data from Upgradient wells MW-16, MW-17, and MW-18
- For pH, two-sided tolerance limits are considered. The 95/95 coverage values are between the 2.5th (lower) and 97.5th (upper) percentiles, and the 99/95 coverage values are between the 0.5th (lower) and 99.5th (upper) percentiles.
- ⁽¹⁾ Data adjustments were made in order to obtain a stable data sets (no trends), by removing earlier results and extending the baseline period to include current conditions.
- TDS - Total dissolved solids

Table 4.4

Inter-Well Comparison Values
(Statistical Upper Tolreance Limits based on Data from Upgradient Wells)
MidAmerican Energy Company
Neal South CCR Monofill

Well	Analyte	Date Range	Number of Samples	Percent ND	Summary Statistics		Statistical Outliers	Salix, Iowa Data Distribution	Mann-Kendall Trend Test Results			UTL Method	95/95 UTL	99/95 UTL
					Minimum	Maximum			Statistics	Probability	Conclusion			
MW-2	Appendix III													
	Boron	12/2015 - 3/2020	15	13%	0.200 U	1.33	0	Normal	-20	0.346	No trend	Normal (KM)	1.78	2.18
	Calcium	12/2015 - 3/2020	15	0%	125	287	1	Gamma	-39	0.060	No trend	WH Approx. Gamma	235	319
	Chloride	12/2015 - 3/2020	15	0%	5.99	30.1 J	0	Normal	9	0.692	No trend	Normal	32.7	40.0
	Fluoride	12/2015 - 9/2020	15	93%	0.100 U	1.24	--	--	--	--	--	Non-parametric	1.24	1.24
	pH, lab	12/2015 - 9/2020	15	0%	6.74 J	7.4 J	0	Normal	41	0.042	Increasing	--	6.74 J - 7.4 J	6.74 J - 7.4 J
	Sulfate	12/2015 - 3/2020	15	0%	35.5	360	1	Gamma	-49	0.018	No trend	WH Approx. Gamma	247	512
	TDS	12/2015 - 9/2020	15	0%	566	1390	1	Not Normal	-41	0.048	Decreasing	--	566 - 1390	566 - 1390
	Appendix IV													
	Antimony	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Arsenic	12/2015 - 3/2020	14	0%	0.0156	0.230 J	1	Gamma	-1	1.000	No trend	WH Approx. Gamma	0.145	0.307
	Barium	12/2015 - 9/2020	14	0%	0.125	0.222	0	Not Normal	56	0.003	Increasing	--	0.125 - 0.222	0.125 - 0.222
	Beryllium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Cadmium	12/2015 - 9/2020	13	100%	ND(0.0001)	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Chromium	12/2015 - 9/2020	14	100%	0.00500 U	0.00500 U	--	--	--	--	--	Detection Limit	0.00500 U	0.00500 U
	Cobalt	12/2015 - 3/2020	14	0%	0.00144	0.00331	1	Lognormal	-7	0.743	No trend	Lognormal	0.00330	0.00404
	Lead	12/2015 - 9/2020	13	100%	0.000500 U	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Lithium	12/2015 - 9/2020	14	0%	0.0589	0.131	0	Normal	-37	0.049	Decreasing	--	0.0589 - 0.131	0.0589 - 0.131
	Mercury	12/2015 - 3/2020	12	100%	0.000200 U	0.000200 U	--	--	--	--	--	Detection Limit	0.000200 U	0.000200 U
	Molybdenum	12/2015 - 3/2020	14	29%	0.00200 U	0.00269	0	Normal	-31	0.096	No trend	Normal (KM)	0.00292	0.00317
	Radium-226 & 228	12/2015 - 9/2020	14	29%	0.164 U	0.96	0	Normal	39	0.035	Increasing	--	0.164 U - 0.96	0.164 U - 0.96
	Selenium	12/2015 - 9/2020	14	100%	0.00500 U	0.00500 U	--	--	--	--	--	Detection Limit	0.00500 U	0.00500 U
	Thallium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
MW-4	Appendix III													
	Boron	12/2015 - 9/2020	15	0%	0.335	3.49	0	Gamma	-87	0.000	Decreasing	--	0.335 - 3.49	0.335 - 3.49
	Calcium	12/2015 - 9/2020	15	0%	127	378	0	Normal	-79	0.000	Decreasing	--	127 - 378	127 - 378
	Chloride	12/2015 - 9/2020	15	7%	5.00 U	47.2	0	Not Normal	61	0.003	Increasing	--	5.00 U - 47.2	5.00 U - 47.2
	Fluoride	12/2015 - 9/2020	15	100%	0.100 U	0.500 U	--	--	--	--	--	Detection Limit	0.500 U	0.500 U
	pH, lab	12/2015 - 9/2020	15	0%	6.73 J	7.3 J	0	Not Normal	50	0.013	Increasing	--	6.73 J - 7.3 J	6.73 J - 7.3 J
	Sulfate	12/2015 - 9/2020	15	0%	167	996	0	Normal	-81	0.000	Decreasing	--	167 - 996	167 - 996
	TDS	12/2015 - 9/2020	15	0%	712	2570	0	Normal	-68	0.001	Decreasing	--	712 - 2570	712 - 2570
	Appendix IV													
	Antimony	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Arsenic	12/2015 - 9/2020	14	100%	0.00200 U	0.00200 U	--	--	--	--	--	Detection Limit	0.00200 U	0.00200 U
	Barium	12/2015 - 9/2020	14	0%	0.0245	0.0444	1	Normal	36	0.055	No trend	Normal	0.0480	0.0528
	Beryllium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Cadmium	12/2015 - 9/2020	13	100%	0.000100 U	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Chromium	12/2015 - 9/2020	14	100%	0.00500 U	0.00500 U	--	--	--	--	--	Detection Limit	0.00500 U	0.00500 U
	Cobalt	12/2015 - 9/2020	14	7%	0.000500 U	0.0104	0	Normal	-11	0.584	No trend	Normal (KM)	0.0129	0.0159
	Lead	12/2015 - 9/2020	13	100%	0.000500 U	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Lithium	12/2015 - 9/2020	14	0%	0.0725	0.254	0	Normal	-69	0.000	Decreasing	--	0.0725 - 0.254	0.0725 - 0.254
	Mercury	12/2015 - 3/2020	12	100%	0.000200 U	0.000200 U	--	--	--	--	--	Detection Limit	0.000200 U	0.000200 U
	Molybdenum	12/2015 - 9/2020	14	100%	0.00200 U	0.00200 U	--	--	--	--	--	Detection Limit	0.00200 U	0.00200 U
	Radium-226 & 228	12/2015 - 9/2020	14	36%	0.212 U	0.829	0	Normal	-1	1.000	No trend	Normal (KM)	0.946	1.13
	Selenium	12/2015 - 9/2020	14	93%	0.00500 U	0.0113	--	--	--	--	--	Non-parametric	0.0113	0.0113
	Thallium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U

Table 4.4

Inter-Well Comparison Values
(Statistical Upper Tolreance Limits based on Data from Upgradient Wells)
MidAmerican Energy Company
Neal South CCR Monofill

Well	Analyte	Date Range	Number of Samples	Percent ND	Summary Statistics		Statistical Outliers	Salix, Iowa Data Distribution	Mann-Kendall Trend Test Results			UTL Method	95/95 UTL	99/95 UTL
					Minimum	Maximum			Statistics	Probability	Conclusion			
MW-8														
Appendix III														
	Boron	12/2015 - 9/2020	15	0%	0.703	5.38	0	Normal	-17	0.428	No trend	Normal	6.54	8.00
	Calcium	12/2015 - 9/2020	15	0%	150	213	0	Normal	-69	0.001	Decreasing	--	150 - 213	150 - 213
	Chloride	12/2015 - 9/2020	15	27%	4.8	13.3	0	Normal	41	0.045	Increasing	--	4.8 - 13.3	4.8 - 13.3
	Fluoride	12/2015 - 9/2020	15	93%	0.100 U	2.31	--	--	--	--	--	Non-parametric	2.31	2.31
	pH, lab	12/2015 - 9/2020	15	0%	7.04 J	7.5 J	0	Normal	30	0.142	No trend	Normal	6.86 - 7.6	6.75 - 7.71
	Sulfate	12/2015 - 9/2020	15	0%	169	819	0	Normal	-31	0.138	No trend	Normal	1063	1291
	TDS	12/2015 - 9/2020	15	0%	870	1810	0	Gamma	-33	0.113	No trend	WH Approx. Gamma	2008	2898
Appendix IV														
	Antimony	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Arsenic	12/2015 - 9/2020	14	100%	0.00200 U	0.00200 U	--	--	--	--	--	Detection Limit	0.00200 U	0.00200 U
	Barium	12/2015 - 9/2020	14	0%	0.0596	0.111	1	Normal	-21	0.274	No trend	Normal	0.111	0.122
	Beryllium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Cadmium	12/2015 - 9/2020	13	100%	0.000100 U	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Chromium	12/2015 - 9/2020	14	100%	0.00500 U	0.00500 U	--	--	--	--	--	Detection Limit	0.00500 U	0.00500 U
	Cobalt	12/2015 - 9/2020	14	0%	0.00192	0.00395	0	Normal	5	0.827	No trend	Normal	0.00428	0.00481
	Lead	12/2015 - 9/2020	13	100%	0.000500 U	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Lithium	12/2015 - 9/2020	14	7%	0.0500 U	0.111	0	Normal	-11	0.584	No trend	Normal	0.135	0.155
	Mercury	12/2015 - 3/2020	12	100%	0.000200 U	0.000200 U	--	--	--	--	--	Detection Limit	0.000200 U	0.000200 U
	Molybdenum	12/2015 - 9/2020	14	0%	0.00589	0.143	1	Normal	-11	0.584	No trend	Normal	0.135	0.171
	Radium-226 & 228	12/2015 - 9/2020	14	29%	0.0102 U	0.959	0	Normal	9	0.657	No trend	Normal (KM)	1.32	1.64
	Selenium	12/2015 - 9/2020	14	64%	0.00500 U	0.0985	--	--	--	--	--	Non-parametric	0.0985	0.0985
	Thallium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
MW-10														
Appendix III														
	Boron	12/2015 - 9/2020	15	0%	0.271	2.24	0	Lognormal	-41	0.048	Decreasing	--	0.271 - 2.24	0.271 - 2.24
	Calcium	12/2015 - 9/2020	15	0%	140	181	0	Normal	-34	0.101	No trend	Normal	188	200
	Chloride	12/2015 - 3/2020	15	33%	3.23	24.8	1	Lognormal	-1	1.000	No trend	Lognormal (KM)	23.2	39.7
	Fluoride	12/2015 - 9/2020	15	73%	ND(0.1)	6.47	--	--	--	--	--	Non-parametric	6.47	6.47
	pH, lab	12/2015 - 9/2020	15	0%	6.92 J	7.4 J	0	Not Normal	53	0.007	Increasing	--	6.92 J - 7.4 J	6.92 J - 7.4 J
	Sulfate	12/2015 - 9/2020	15	0%	14.3	267	0	Normal	-3	0.921	No trend	Normal	339	414
	TDS	12/2015 - 9/2020	15	0%	832	1150	0	Normal	-40	0.053	No trend	Normal	1237	1333
Appendix IV														
	Antimony	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Arsenic	12/2015 - 9/2020	14	7%	0.00200 U	0.0622	1	Gamma	57	0.002	Increasing	--	0.00200 U - 0.0622	0.00200 U - 0.0622
	Barium	12/2015 - 9/2020	14	0%	0.111	0.618	0	Normal	43	0.021	Increasing	--	0.111 - 0.618	0.111 - 0.618
	Beryllium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Cadmium	12/2015 - 9/2020	13	100%	0.000100 U	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Chromium	12/2015 - 9/2020	14	100%	0.00500 U	0.00500 U	--	--	--	--	--	Detection Limit	0.00500 U	0.00500 U
	Cobalt	12/2015 - 9/2020	14	0%	0.000611	0.00394	0	Normal	-59	0.001	Decreasing	--	0.000611 - 0.00394	0.000611 - 0.00394
	Lead	12/2015 - 9/2020	13	100%	0.000500 U	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Lithium	12/2015 - 9/2020	14	0%	0.0533	0.138	0	Normal	-29	0.125	No trend	Normal	0.152	0.180
	Mercury	12/2015 - 3/2020	12	100%	0.000200 U	0.000200 U	--	--	--	--	--	Detection Limit	0.000200 U	0.000200 U
	Molybdenum	12/2015 - 9/2020	14	7%	0.002 U	0.00346	1	Normal	19	0.324	No trend	Normal	0.0041	0.0045
	Radium-226 & 228	12/2015 - 3/2020	14	14%	0.256 U	2.17	0	Not Normal	12	0.546	No trend	Non-parametric	2.17	2.17
	Selenium	12/2015 - 9/2020	14	93%	0.00500 U	0.0160	--	--	--	--	--	Non-parametric	0.0160	0.0160
	Thallium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U

Table 4.4

Inter-Well Comparison Values
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MidAmerican Energy Company
Neal South CCR Monofill

Well	Analyte	Date Range	Number of Samples	Percent ND	Summary Statistics		Statistical Outliers	Salix, Iowa Data Distribution	Mann-Kendall Trend Test Results			UTL Method	95/95 UTL	99/95 UTL
					Minimum	Maximum			Statistics	Probability	Conclusion			
MW-11														
Appendix III														
	Boron	12/2015 - 9/2020	15	0%	0.221 J	1.28	1	Normal	17	0.428	No trend	Normal	1.20	1.45
	Calcium	12/2015 - 9/2020	15	0%	210	279	0	Normal	19	0.373	No trend	Normal	287	303
	Chloride	12/2015 - 9/2020	15	0%	5.00 U	149	3	Not Normal	7	0.767	No trend	Non-parametric	149	149
	Fluoride	12/2015 - 9/2020	15	80%	0.100 U	8.89 J	--	--	--	--	--	Non-parametric	8.89 J	8.89 J
	pH, lab	12/2015 - 9/2020	15	0%	6.71 J	7.6 J	1	Not Normal	25	0.231	No trend	Non-parametric	6.71 J - 7.6 J	6.71 J - 7.6 J
	Sulfate	12/2015 - 9/2020	15	0%	240	450	0	Normal	41	0.048	Increasing	--	240 - 450	240 - 450
	TDS	12/2015 - 9/2020	15	0%	1070 J	1470	0	Normal	49	0.017	Increasing	--	1070 J - 1470	1070 J - 1470
Appendix IV														
	Antimony	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Arsenic	12/2015 - 9/2020	14	100%	0.00200 U	0.00200 U	--	--	--	--	--	Detection Limit	0.00200 U	0.00200 U
	Barium	12/2015 - 9/2020	14	0%	0.0546	0.121	0	Normal	-15	0.443	No trend	Normal	0.119	0.134
	Beryllium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Cadmium	12/2015 - 9/2020	13	92%	0.000100 U	0.000500 U	--	--	--	--	--	Non-parametric	0.000500 U	0.000500 U
	Chromium	12/2015 - 9/2020	14	100%	0.00500 U	0.00500 U	--	--	--	--	--	Detection Limit	0.00500 U	0.00500 U
	Cobalt	12/2015 - 9/2020	14	7%	0.000500 U	0.00331	0	Normal	-3	0.913	No trend	Normal (KM)	0.0044	0.0052
	Lead	12/2015 - 9/2020	13	100%	0.000500 U	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Lithium	12/2015 - 9/2020	14	0%	0.0912	0.136	0	Normal	-34	0.069	No trend	Normal	0.151	0.163
	Mercury	12/2015 - 3/2020	12	100%	0.000200 U	0.000200 U	--	--	--	--	--	Detection Limit	0.000200 U	0.000200 U
	Molybdenum	12/2015 - 9/2020	14	100%	0.00200 U	0.00200 U	--	--	--	--	--	Detection Limit	0.00200 U	0.00200 U
	Radium-226 & 228	12/2015 - 9/2020	14	64%	-0.0335 U	0.827 U	--	--	--	--	--	Non-parametric	0.827 U	0.827 U
	Selenium	12/2015 - 9/2020	14	79%	0.00500 U	0.0580 J	--	--	--	--	--	Non-parametric	0.0580 J	0.0580 J
	Thallium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
MW-12														
Appendix III														
	Boron	12/2015 - 9/2020	15	0%	1.23	5.39	0	Normal	-41	0.048	Decreasing	--	1.23 - 5.39	1.23 - 5.39
	Calcium	12/2015 - 9/2020	15	0%	165	287	1	Normal	-26	0.215	No trend	Normal	284	312
	Chloride	12/2015 - 9/2020	15	0%	10.2	333	0	Normal	-1	1.000	No trend	Normal	394	493
	Fluoride	12/2015 - 9/2020	15	80%	0.100 U	21	--	--	--	--	--	Non-parametric	21	21
	pH, lab	12/2015 - 9/2020	15	0%	7.0 J	7.5 J	1	Not Normal	57	0.004	Increasing	--	7.0 J - 7.5 J	7.0 J - 7.5 J
	Sulfate	12/2015 - 9/2020	15	0%	245	626	0	Normal	-43	0.038	Decreasing	--	245 - 626	245 - 626
	TDS	12/2015 - 9/2020	15	0%	1040	1990	0	Normal	-33	0.113	No trend	Normal	2224	2496
Appendix IV														
	Antimony	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Arsenic	12/2015 - 9/2020	14	100%	0.00200 U	0.00200 U	--	--	--	--	--	Detection Limit	0.00200 U	0.00200 U
	Barium	12/2015 - 9/2020	14	0%	0.044	0.116	1	Normal	12	0.546	No trend	Normal	0.113	0.131
	Beryllium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Cadmium	12/2015 - 9/2020	13	77%	0.000103	0.000500 U	--	--	--	--	--	Non-parametric	0.000500 U	0.000500 U
	Chromium	12/2015 - 9/2020	14	93%	0.00500 U	0.034	--	--	--	--	--	Non-parametric	0.034	0.034
	Cobalt	12/2015 - 9/2020	14	79%	0.000500 U	0.00182	--	--	--	--	--	Non-parametric	0.00182	0.00182
	Lead	12/2015 - 9/2020	13	100%	0.000500 U	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Lithium	12/2015 - 9/2020	14	0%	0.0727	0.136	0	Normal	-7	0.743	No trend	Normal	0.140	0.155
	Mercury	12/2015 - 3/2020	12	100%	0.000200 U	0.000200 U	--	--	--	--	--	Detection Limit	0.000200 U	0.000200 U
	Molybdenum	12/2015 - 9/2020	14	79%	0.00200 U	0.00477	--	--	--	--	--	Non-parametric	0.00477	0.00477
	Radium-226 & 228	12/2015 - 9/2020	14	64%	0.105 U	0.81	--	--	--	--	--	Non-parametric	0.81	0.81
	Selenium	12/2015 - 9/2020	14	21%	0.00500 U	0.0766	0	Normal	-38	0.042	Decreasing	--	0.00500 U - 0.0766	0.00500 U - 0.0766
	Thallium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U

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MidAmerican Energy Company
Neal South CCR Monofill

Well	Analyte	Date Range	Number of Samples	Percent ND	Summary Statistics		Statistical Outliers	Salix, Iowa Data Distribution	Mann-Kendall Trend Test Results			UTL Method	95/95 UTL	99/95 UTL
					Minimum	Maximum			Statistics	Probability	Conclusion			
MW-13	Appendix III													
	Boron	12/2015 - 9/2020	15	7%	0.200 U	1.6	0	Normal	29	0.166	No trend	Normal (KM)	2.04	2.39
	Calcium	12/2015 - 9/2020	15	0%	175	290	0	Normal	18	0.400	No trend	Normal	332	365
	Chloride	12/2015 - 9/2020	15	7%	5.00 U	54.9	1	Lognormal	25	0.235	No trend	Lognormal (KM)	76	138
	Fluoride	12/2015 - 9/2020	15	73%	0.100 U	8.21	--	--	--	--	--	Non-parametric	8.21	8.21
	pH, lab	12/2015 - 9/2020	15	0%	6.90 J	7.6 J	1	Not Normal	44	0.030	Increasing	--	6.90 J - 7.6 J	6.90 J - 7.6 J
	Sulfate	12/2015 - 9/2020	15	0%	324	618	0	Normal	59	0.004	Increasing	--	324 - 618	324 - 618
	TDS	12/2015 - 9/2020	15	0%	1140	1770	0	Normal	23	0.276	No trend	Normal	1846	2021
	Appendix IV													
	Antimony	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Arsenic	12/2015 - 9/2020	14	50%	0.00200 U	0.00675 J	1	Not Normal	18	0.318	No trend	Non-parametric	0.00675 J	0.00675 J
	Barium	12/2015 - 9/2020	14	0%	0.0368	0.161	1	Not Normal	-25	0.189	No trend	Non-parametric	0.161	0.161
	Beryllium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Cadmium	12/2015 - 9/2020	13	100%	0.000100 U	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Chromium	12/2015 - 9/2020	14	100%	0.00500 U	0.00500 U	--	--	--	--	--	Detection Limit	0.00500 U	0.00500 U
	Cobalt	12/2015 - 9/2020	14	7%	0.000500 U	0.00624	1	Gamma	33	0.080	No trend	WH Approx. Gamma (KM)	0.00065	0.00816
	Lead	12/2015 - 9/2020	13	100%	0.000500 U	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Lithium	12/2015 - 9/2020	14	0%	0.0745	0.134	0	Normal	-18	0.351	No trend	Normal	0.152	0.168
	Mercury	12/2015 - 3/2020	12	100%	0.000200 U	0.000200 U	--	--	--	--	--	Detection Limit	0.000200 U	0.000200 U
	Molybdenum	12/2015 - 9/2020	14	57%	0.00200 U	0.00296	--	--	--	--	--	Non-parametric	0.00296	0.00296
	Radium-226 & 228	12/2015 - 9/2020	14	43%	0.00847 U	1.25	0	Normal	-10	0.607	No trend	Normal (KM)	1.34	1.70
	Selenium	12/2015 - 9/2020	14	43%	0.00500 U	0.0831	0	Not Normal	-42	0.019	Decreasing	--	0.00500 U - 0.0831	0.00500 U - 0.0831
	Thallium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
MW-14	Appendix III													
	Boron	12/2015 - 9/2020	15	0%	0.281	2.64	0	Normal	-1	1.000	No trend	Normal	2.89	3.57
	Calcium	12/2015 - 9/2020	15	0%	193	301	0	Normal	-65	0.001	Decreasing	--	193 - 301	193 - 301
	Chloride	12/2015 - 9/2020	15	33%	4.32 u	54.2	0	Lognormal	31	0.130	No trend	Lognormal (KM)	76.5	171.0
	Fluoride	12/2015 - 9/2020	15	80%	0.100 U	14.9	--	--	--	--	--	Non-parametric	14.90	14.90
	pH, lab	12/2015 - 9/2020	15	0%	6.80 J	7.8 J	1	Not Normal	63	0.002	Increasing	--	6.80 J - 7.8 J	6.80 J - 7.8 J
	Sulfate	12/2015 - 9/2020	15	0%	218	428	0	Normal	-51	0.013	Decreasing	--	218 - 428	218 - 428
	TDS	12/2015 - 9/2020	15	0%	1000	1810	0	Normal	-24	0.254	No trend	Normal	1846	2062
	Appendix IV													
	Antimony	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Arsenic	12/2015 - 9/2020	14	100%	0.00200 U	0.00200 U	--	--	--	--	--	Detection Limit	0.00200 U	0.00200 U
	Barium	12/2015 - 9/2020	14	0%	0.0604	0.133	1	Not Normal	-47	0.012	Decreasing	--	0.0604 - 0.133	0.0604 - 0.133
	Beryllium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Cadmium	12/2015 - 9/2020	13	85%	0.000100 U	0.000500 U	--	--	--	--	--	Non-parametric	0.000500 U	0.000500 U
	Chromium	12/2015 - 9/2020	14	100%	0.00500 U	0.00500 U	--	--	--	--	--	Detection Limit	0.00500 U	0.00500 U
	Cobalt	12/2015 - 9/2020	14	0%	0.000759	0.00494	0	Normal	-33	0.080	No trend	Normal	0.0057	0.0068
	Lead	12/2015 - 9/2020	13	100%	0.000500 U	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Lithium	12/2015 - 9/2020	14	0%	0.0814	0.162	0	Normal	-36	0.055	No trend	Normal	0.184	0.206
	Mercury	12/2015 - 3/2020	12	100%	0.000200 U	0.000200 U	--	--	--	--	--	Detection Limit	0.000200 U	0.000200 U
	Molybdenum	12/2015 - 9/2020	14	64%	0.00200 U	0.00224	--	--	--	--	--	Non-parametric	0.00224	0.00224
	Radium-226 & 228	12/2015 - 9/2020	14	7%	0.311 U	1.79	1	Normal	-17	0.381	No trend	Normal (KM)	1.73	2.09
	Selenium	12/2015 - 9/2020	14	36%	0.00500 U	0.0289	0	Normal	-21	0.261	No trend	Normal (KM)	0.0308	0.0377
	Thallium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U

Table 4.4

Inter-Well Comparison Values
(Statistical Upper Tolreance Limits based on Data from Upgradient Wells)
MidAmerican Energy Company
Neal South CCR Monofill

Well	Analyte	Date Range	Number of Samples	Percent ND	Summary Statistics		Statistical Outliers	Salix, Iowa Data Distribution	Mann-Kendall Trend Test Results			UTL Method	95/95 UTL	99/95 UTL
					Minimum	Maximum			Statistics	Probability	Conclusion			
MW-15														
Appendix III														
	Boron	12/2015 - 9/2020	15	0%	0.386	3.05	0	Normal	-58	0.005	Decreasing	--	0.386 - 3.05	0.386 - 3.05
	Calcium	12/2015 - 9/2020	15	0%	117	264	0	Normal	-37	0.075	No trend	Normal	304	344
	Chloride	12/2015 - 9/2020	15	7%	5.00 U	19.9	0	Normal	65	0.002	Increasing	--	5.00 U - 19.9	5.00 U - 19.9
	Fluoride	12/2015 - 9/2020	15	80%	0.185	1.9	--	--	--	--	--	Non-parametric	1.90	1.90
	pH, lab	12/2015 - 9/2020	15	0%	6.78 J	7.3 J	0	Not Normal	58	0.003	Increasing	--	6.78 J - 7.3 J	6.78 J - 7.3 J
	Sulfate	12/2015 - 9/2020	15	0%	186	642	0	Normal	-49	0.018	Decreasing	--	186 - 642	186 - 642
	TDS	12/2015 - 9/2020	15	0%	640	2000	0	Normal	-52	0.012	Decreasing	--	640 - 2000	640 - 2000
Appendix IV														
	Antimony	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Arsenic	12/2015 - 9/2020	14	86%	0.00200 U	0.00286	1	--	--	--	--	Non-parametric	0.0029	0.0029
	Barium	12/2015 - 9/2020	14	0%	0.041	0.0737	0	Normal	0	1.000	No trend	Normal	0.0788	0.0883
	Beryllium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Cadmium	12/2015 - 9/2020	13	85%	0.000100 U	0.000500 U	--	--	--	--	--	Non-parametric	0.000500 U	0.000500 U
	Chromium	12/2015 - 9/2020	14	100%	0.00500 U	0.00500 U	--	--	--	--	--	Detection Limit	0.00500 U	0.00500 U
	Cobalt	12/2015 - 9/2020	14	0%	0.000899	0.0095	2	Not Normal	-11	0.583	No trend	Non-parametric	0.0095	0.0095
	Lead	12/2015 - 9/2020	13	100%	0.000500 U	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Lithium	12/2015 - 9/2020	14	0%	0.054	0.0923	0	Normal	1	1.000	No trend	Normal	0.107	0.120
	Mercury	12/2015 - 3/2020	12	100%	0.000200 U	0.000200 U	--	--	--	--	--	Detection Limit	0.000200 U	0.000200 U
	Molybdenum	12/2015 - 9/2020	14	100%	0.00200 U	0.00200 U	--	--	--	--	--	Detection Limit	0.00200 U	0.00200 U
	Radium-226 & 228	12/2015 - 9/2020	14	21%	0.282 U	1.05	0	Normal	17	0.328	No trend	Normal (KM)	1.26	1.49
	Selenium	12/2015 - 9/2020	14	86%	0.00500 U	0.00799	--	--	--	--	--	Non-parametric	0.00799	0.00799
	Thallium	12/2015 - 3/2020	12	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
MW-16														
Appendix III														
	Boron	10/2018 - 9/2020	12	50%	0.183	0.233	0	Not Normal	21	0.141	No trend	Non-parametric	0.233	0.233
	Calcium	10/2018 - 9/2020	12	0%	112	166	0	Normal	-6	0.732	No trend	Normal	193	210
	Chloride	10/2018 - 9/2020	12	58%	1.87	5.68	--	--	--	--	--	Non-parametric	5.68	5.68
	Fluoride	10/2018 - 9/2020	12	75%	0.24	0.59	--	--	--	--	--	Non-parametric	0.59	0.59
	pH, lab	10/2018 - 9/2020	12	0%	7.0 J	7.8 J	1	Not Normal	-20	0.183	No trend	Normal	6.53 - 7.93	6.33 - 8.14
	Sulfate	10/2018 - 9/2020	12	0%	35.8	80.8	0	Not Normal	-36	0.016	Decreasing	--	35.8 - 80.8	35.8 - 80.8
	TDS	10/2018 - 9/2020	12	8%	30.0 U	660	1	Not Normal	-16	0.301	No trend	Non-parametric	660	660
Appendix IV														
	Antimony	10/2018 - 3/2020	11	100%	0.001 U	0.001 U	--	--	--	--	--	Detection Limit	0.001 U	0.001 U
	Arsenic	10/2018 - 9/2020	12	100%	0.002 U	0.002 U	--	--	--	--	--	Detection Limit	0.002 U	0.002 U
	Barium	10/2018 - 9/2020	12	0%	0.152	0.242	0	Normal	16	0.304	No trend	Normal	0.266	0.293
	Beryllium	10/2018 - 3/2020	11	100%	0.001 U	0.001 U	--	--	--	--	--	Detection Limit	0.001 U	0.001 U
	Cadmium	10/2018 - 9/2020	12	100%	0.000100 U	0.0005 U	--	--	--	--	--	Detection Limit	0.0005 U	0.0005 U
	Chromium	10/2018 - 9/2020	12	100%	0.005 U	0.005 U	--	--	--	--	--	Detection Limit	0.005 U	0.005 U
	Cobalt	10/2018 - 9/2020	12	83%	0.000500 U	0.002025	--	--	--	--	--	Non-parametric	0.00203	0.00203
	Lead	10/2018 - 9/2020	12	100%	0.0005 U	0.0005 U	--	--	--	--	--	Detection Limit	0.0005 U	0.0005 U
	Lithium	10/2018 - 9/2020	12	0%	0.0458	0.0716	1	Normal	2	0.945	No trend	Normal	0.0824	0.0897
	Mercury	10/2018 - 3/2020	11	100%	0.0002 U	0.0002 U	--	--	--	--	--	Detection Limit	0.0002 U	0.0002 U
	Molybdenum	10/2018 - 9/2020	12	100%	0.00200 U	0.00200 U	--	--	--	--	--	Detection Limit	0.00200 U	0.00200 U
	Radium-226 & 228	10/2018 - 9/2020	12	8%	0.301 U	2.2	1	Normal	-32	0.034	Decreasing	--	0.301 U - 2.2	0.301 U - 2.2
	Selenium	10/2018 - 9/2020	12	17%	0.00500 U	0.0369	0	Normal	-39	0.009	Decreasing	--	0.00500 U - 0.0369	0.00500 U - 0.0369
	Thallium	10/2018 - 3/2020	11	100%	0.001 U	0.001 U	--	--	--	--	--	Detection Limit	0.001 U	0.001 U

Table 4.4

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MidAmerican Energy Company
Neal South CCR Monofill

Well	Analyte	Date Range	Number of Samples	Percent ND	Summary Statistics		Statistical Outliers	Salix, Iowa Data Distribution	Mann-Kendall Trend Test Results			UTL Method	95/95 UTL	99/95 UTL
					Minimum	Maximum			Statistics	Probability	Conclusion			
MW-17														
Appendix III														
	Boron	10/2018 - 9/2020	12	33%	0.191	0.253	0	Not Normal	34	0.021	Increasing	--	0.191 - 0.253	0.191 - 0.253
	Calcium	10/2018 - 9/2020	12	0%	119	198	0	Normal	33	0.028	Increasing	--	119 - 198	119 - 198
	Chloride	10/2018 - 9/2020	12	8%	5.00 U	22.5	1	Not Normal	-44	0.003	Decreasing	--	5.00 U - 22.5	5.00 U - 22.5
	Fluoride	10/2018 - 9/2020	12	75%	0.217	0.527	--	--	--	--	--	Non-parametric	0.53	0.53
	pH, lab	10/2018 - 9/2020	12	0%	6.9 J	7.8 J	1	Not Normal	12	0.433	No trend	Non-parametric	6.9 J - 7.8 J	6.9 J - 7.8 J
	Sulfate	10/2018 - 9/2020	12	0%	61.4	93.7	1	Not Normal	24	0.115	No trend	Not Normal	93.7	103
	TDS	10/2018 - 9/2020	12	0%	638	764	0	Normal	39	0.009	Increasing	--	638 - 764	638 - 764
Appendix IV														
	Antimony	10/2018 - 3/2020	11	100%	0.00100 U	0.00100 U	--	--	--	--	--	Non-parametric	0.00100 U	0.00100 U
	Arsenic	10/2018 - 9/2020	12	0%	0.00569	0.0184	0	Normal	22	0.150	No trend	Normal	0.0214	0.0252
	Barium	10/2018 - 9/2020	12	0%	0.154	0.207	0	Normal	42	0.005	Increasing	--	0.154 - 0.207	0.154 - 0.207
	Beryllium	10/2018 - 3/2020	11	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Cadmium	10/2018 - 9/2020	12	100%	0.000100 U	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Chromium	10/2018 - 9/2020	12	100%	0.00500 U	0.00500 U	--	--	--	--	--	Detection Limit	0.00500 U	0.00500 U
	Cobalt	10/2018 - 9/2020	12	0%	0.00243	0.00396	0	Normal	-44	0.003	Decreasing	--	0.00243 - 0.00396	0.00243 - 0.00396
	Lead	10/2018 - 9/2020	12	100%	0.000500 U	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Lithium	10/2018 - 9/2020	12	0%	0.0721	0.114	0	Lognormal	32	0.034	Increasing	--	0.0721 - 0.114	0.0721 - 0.114
	Mercury	10/2018 - 3/2020	11	100%	0.000200 U	0.000200 U	--	--	--	--	--	Detection Limit	0.000200 U	0.000200 U
	Molybdenum	10/2018 - 9/2020	12	100%	0.00200 U	0.00200 U	--	--	--	--	--	Detection Limit	0.00200 U	0.00200 U
	Radium-226 & 228	10/2018 - 9/2020	12	0%	0.65	2.27	1	Lognormal	-31	0.038	Decreasing	--	0.65 - 2.27	0.65 - 2.27
	Selenium	10/2018 - 9/2020	12	100%	0.00500 U	0.00500 U	--	--	--	--	--	Detection Limit	0.00500 U	0.00500 U
	Thallium	10/2018 - 3/2020	11	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
MW-18														
Appendix III														
	Boron	10/2018 - 3/2019	12	8%	ND(0.2)	0.266	0	Normal	-8	0.631	No trend	Normal (KM)	0.279	0.298
	Calcium	10/2018 - 9/2020	12	0%	122	187	1	Not Normal	15	0.336	No trend	Non-parametric	181	181
	Chloride	10/2018 - 9/2020	12	83%	2.85	11.4	--	--	--	--	--	Non-parametric	11.4	11.4
	Fluoride	10/2018 - 9/2020	12	83%	0.336	0.589	--	--	--	--	--	Non-parametric	0.589	0.589
	pH, lab	10/2018 - 9/2020	12	0%	6.95	7.5 J	0	Normal	8	0.615	No trend	Normal	6.64 - 7.66	6.5 - 7.8
	Sulfate	10/2018 - 9/2020	12	0%	74.9	86.85	0	Normal	0	1.000	No trend	Normal	90.6	94.4
	TDS	10/2018 - 3/2019	12	0%	691	858	1	Not Normal	18	0.244	No trend	Normal	883	932
Appendix IV														
	Antimony	10/2018 - 3/2020	11	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Arsenic	10/2018 - 9/2020	12	0%	0.0045	0.0224	0	Normal	-26	0.086	No trend	Normal	0.0312	0.0378
	Barium	10/2018 - 9/2020	12	0%	0.121	0.206	1	Normal	18	0.244	No trend	Normal	0.210	0.232
	Beryllium	10/2018 - 3/2020	11	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U
	Cadmium	10/2018 - 9/2020	12	100%	0.000100 U	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Chromium	10/2018 - 9/2020	12	100%	0.00500 U	0.00500 U	--	--	--	--	--	Detection Limit	0.00500 U	0.00500 U
	Cobalt	10/2018 - 9/2020	12	0%	0.00154	0.00724	0	Normal	-25	0.099	No trend	Normal	0.0080	0.0095
	Lead	10/2018 - 9/2020	12	100%	0.000500 U	0.000500 U	--	--	--	--	--	Detection Limit	0.000500 U	0.000500 U
	Lithium	10/2018 - 9/2020	12	0%	0.0878	0.136	0	Normal	-10	0.537	No trend	Normal	0.152	0.165
	Mercury	10/2018 - 3/2020	11	100%	0.000200 U	0.000600 U	--	--	--	--	--	Detection Limit	0.000600 U	0.000600 U
	Molybdenum	10/2018 - 9/2020	12	75%	0.00200 U	0.00284	--	--	--	--	--	Non-parametric	0.00284	0.00284
	Radium-226 & 228	10/2018 - 9/2020	12	0%	0.713	1.84	0	Not Normal	-23	0.130	No trend	Non-parametric	1.64	1.64
	Selenium	10/2018 - 9/2020	12	100%	0.00500 U	0.00500 U	--	--	--	--	--	Detection Limit	0.00500 U	0.00500 U
	Thallium	10/2018 - 3/2020	11	100%	0.00100 U	0.00100 U	--	--	--	--	--	Detection Limit	0.00100 U	0.00100 U

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Well	Analyte	Date Range	Number of Samples	Percent ND	Summary Statistics		Statistical Outliers	Salix, Iowa Data Distribution	Mann-Kendall Trend Test Results			UTL Method	95/95 UTL	99/95 UTL
					Minimum	Maximum			Statistics	Probability	Conclusion			
MW-19	Appendix III													
	Boron	10/2018 - 9/2021	9	0%	0.23	0.318	0	Normal	-12	0.260	No trend	Normal	0.379	0.414
	Calcium	10/2018 - 9/2021	9	0%	173	257	0	Normal	-4	0.762	No trend	Normal	301	333
	Chloride	10/2018 - 9/2021	9	0%	5.4	11.6	0	Normal	21	0.034	Increasing	--	5.4 - 11.6	5.4 - 11.6
	Fluoride	10/2018 - 9/2021	9	56%	0.289	1.78	--	>50% ND	--	--	>50% ND	Non-parametric	1.78	1.78
	pH, lab	10/2018 - 9/2021	9	0%	6.8 J	7.5 J	1	Not Normal	13	0.220	No trend	Non-parametric	6.8 J - 7.5 J	6.8 J - 7.5 J
	Sulfate	10/2018 - 9/2021	9	0%	253	391	0	Normal	4	0.762	No trend	Normal	450	501
	TDS	10/2018 - 9/2021	9	0%	936	1330	0	Normal	-13	0.220	No trend	Normal	1432	1557
	Appendix IV													
	Antimony	3/2019 - 3/2023	8	100%	0.00100 U	0.00200 U	--	100% ND	--	--	100% ND	Detection Limit	0.00200 U	0.00200 U
	Arsenic	10/2018 - 9/2021	9	78%	0.00200 U	0.00444	--	>50% ND	--	--	>50% ND	Non-parametric	0.00444	0.00444
	Barium	10/2018 - 9/2021	9	0%	0.119	0.184	0	Normal	-6	0.612	No trend	Normal	0.224	0.253
	Beryllium	3/2019 - 3/2023	8	100%	0.00100 U	0.00100 U	--	100% ND	--	--	100% ND	Detection Limit	0.00100 U	0.00100 U
	Cadmium	3/2019 - 9/2022	8	75%	0.000100 U	0.000500 U	--	>50% ND	--	--	>50% ND	Non-parametric	0.000500 U	0.000500 U
	Chromium	3/2019 - 9/2022	8	100%	0.00500 U	0.00500 U	--	100% ND	--	--	100% ND	Detection Limit	0.00500 U	0.00500 U
	Cobalt	10/2018 - 9/2021	9	0%	0.00455	0.0102	0	Normal	6	0.612	No trend	Normal	0.0133	0.0155
	Lead	3/2019 - 9/2022	8	100%	0.000500 U	0.000500 U	--	100% ND	--	--	100% ND	Detection Limit	0.000500 U	0.000500 U
	Lithium	10/2018 - 9/2021	9	0%	0.093	0.149	0	Normal	-18	0.076	No trend	Normal	0.184	0.207
	Mercury	3/2019 - 3/2023	8	100%	0.000200 U	0.000200 U	--	100% ND	--	--	100% ND	Detection Limit	0.000200 U	0.000200 U
	Molybdenum	10/2018 - 9/2021	9	100%	0.00200 U	0.00200 U	--	100% ND	--	--	100% ND	Detection Limit	0.00200 U	0.00200 U
	Radium-226 & 228	10/2018 - 9/2021	9	0%	0.57	1.9	0	Normal	-10	0.358	No trend	Normal	2.22	2.66
	Selenium	10/2018 - 9/2021	9	100%	0.00500 U	0.00500 U	--	100% ND	--	--	100% ND	Detection Limit	0.00500 U	0.00500 U
	Thallium	3/2019 - 3/2023	8	100%	0.00100 U	0.00100 U	--	100% ND	--	--	100% ND	Detection Limit	0.00100 U	0.00100 U
MW-20	Appendix III													
	Boron	10/2018 - 9/2021	9	0%	0.349	1.04	0	Normal	-8	0.476	No trend	Normal	1.23	1.45
	Calcium	10/2018 - 9/2021	9	0%	117	180	0	Normal	-16	0.120	No trend	Normal	210	233
	Chloride	10/2018 - 9/2021	9	44%	5.00 U	23.8	0	Gamma	-16	0.120	No trend	KM Normal	30.0	37.4
	Fluoride	10/2018 - 9/2021	9	67%	0.227	0.521	--	>50% ND	--	--	>50% ND	Non-parametric	0.52	0.52
	pH, lab	10/2018 - 9/2021	9	0%	7.0 J	7.6 J	1	Normal	7	0.544	No trend	Normal	6.68 - 7.84	6.48 - 8.01
	Sulfate	10/2018 - 9/2021	9	0%	60.3	236	0	Normal	-23	0.018	Decreasing	--	60.3 - 236	60.3 - 236
	TDS	10/2018 - 9/2021	9	0%	486	908	0	Normal	-18	0.076	No trend	Normal	1046	1181
	Appendix IV													
	Antimony	3/2019 - 3/2023	8	100%	0.00100 U	0.00200 U	--	100% ND	--	--	100% ND	Detection Limit	0.00200 U	0.00200 U
	Arsenic	10/2018 - 9/2021	9	0%	0.00206	0.0234 J	0	Normal	-14	0.180	No trend	Normal	0.030	0.037
	Barium	10/2018 - 9/2021	9	0%	0.093	0.127	0	Normal	-15	0.150	No trend	Normal	0.145	0.159
	Beryllium	3/2019 - 3/2023	8	100%	0.00100 U	0.00100 U	--	100% ND	--	--	100% ND	Detection Limit	0.00100 U	0.00100 U
	Cadmium	3/2019 - 9/2022	8	100%	0.000100 U	0.000500 U	--	100% ND	--	--	100% ND	Detection Limit	0.000500 U	0.000500 U
	Chromium	3/2019 - 9/2022	8	100%	0.00500 U	0.00500 U	--	100% ND	--	--	100% ND	Detection Limit	0.00500 U	0.00500 U
	Cobalt	10/2018 - 9/2021	9	0%	0.00158	0.00574	0	Normal	10	0.358	No trend	Normal	0.0073	0.0089
	Lead	3/2019 - 9/2022	8	100%	0.000500 U	0.000500 U	--	100% ND	--	--	100% ND	Detection Limit	0.000500 U	0.000500 U
	Lithium	10/2018 - 9/2021	9	0%	0.0641	0.111	0	Normal	-10	0.358	No trend	Normal	0.125	0.141
	Mercury	3/2019 - 3/2023	8	100%	0.000200 U	0.000200 U	--	100% ND	--	--	100% ND	Detection Limit	0.000200 U	0.000200 U
	Molybdenum	10/2018 - 9/2021	9	100%	0.00200 U	0.00200 U	--	100% ND	--	--	100% ND	Detection Limit	0.00200 U	0.00200 U
	Radium-226 & 228	10/2018 - 9/2021	9	22%	0.331 U	2.11	1	Normal	-15	0.150	No trend	KM Normal	2.47	3.04
	Selenium	10/2018 - 9/2021	9	67%	0.00500 U	0.0132	--	>50% ND	--	--	>50% ND	Non-parametric	0.0132	0.0132
	Thallium	3/2019 - 3/2023	8	100%	0.00100 U	0.00100 U	--	100% ND	--	--	100% ND	Detection Limit	0.00100 U	0.00100 U

Table 4.4

Inter-Well Comparison Values
(Statistical Upper Tolreance Limits based on Data from Upgradient Wells)
MidAmerican Energy Company
Neal South CCR Monofill

Well	Analyte	Date Range	Number of Samples	Percent ND	Summary Statistics		Statistical Outliers	Salix, Iowa Data Distribution	Mann-Kendall Trend Test Results			UTL Method	95/95 UTL	99/95 UTL
					Minimum	Maximum			Statistics	Probability	Conclusion			
MW-21	Appendix III													
	Boron	10/2018 - 9/2021	9	44%	0.141	0.225	0	Normal	-2	0.920	No trend	Normal	0.266	0.295
	Calcium	10/2018 - 9/2021	9	0%	125	154	0	Normal	-26	0.006	Decreasing	--	125 - 154	125 - 154
	Chloride	10/2018 - 9/2021	9	11%	3.68	8.95	0	Normal	28	0.002	Increasing	--	3.68 - 8.95	3.68 - 8.95
	Fluoride	10/2018 - 9/2021	9	67%	0.215	0.553	--	>50% ND	--	--	>50% ND	Non-parametric	0.55	0.55
	pH, lab	10/2018 - 9/2021	9	0%	6.9 J	7.7 J	1	Not Normal	21	0.034	Increasing	--	6.9 J - 7.7 J	6.9 J - 7.7 J
	Sulfate	10/2018 - 9/2021	9	0%	8.46	74.8	0	Normal	2	0.920	No trend	Normal	110	135
	TDS	10/2018 - 9/2021	9	0%	424	626	0	Normal	-27	0.004	Decreasing	--	424 - 626	424 - 626
	Appendix IV													
	Antimony	3/2019 - 3/2023	8	100%	0.00100 U	0.00200 U	--	100% ND	--	--	100% ND	Detection Limit	0.00200 U	0.00200 U
	Arsenic	10/2018 - 9/2021	9	100%	0.00200 U	0.00200 U	--	100% ND	--	--	100% ND	Detection Limit	0.00200 U	0.00200 U
	Barium	10/2018 - 9/2021	9	0%	0.166	0.318	0	Normal	10	0.358	No trend	Normal	0.363	0.415
	Beryllium	3/2019 - 3/2023	8	100%	0.00100 U	0.00100 U	--	100% ND	--	--	100% ND	Detection Limit	0.00100 U	0.00100 U
	Cadmium	3/2019 - 9/2022	8	75%	0.000100 U	0.000500 U	--	>50% ND	--	--	>50% ND	Non-parametric	0.000500 U	0.000500 U
	Chromium	3/2019 - 9/2022	8	100%	0.00500 U	0.00500 U	--	100% ND	--	--	100% ND	Detection Limit	0.00500 U	0.00500 U
	Cobalt	10/2018 - 9/2021	9	22%	0.000500 U	0.00187	0	Normal	1	1.000	No trend	KM Normal	0.00219	0.00268
	Lead	3/2019 - 9/2022	8	88%	0.000500 U	0.000517	--	>50% ND	--	--	>50% ND	Non-parametric	0.00052	0.00052
	Lithium	10/2018 - 9/2021	9	0%	0.0621	0.0841	0	Normal	-14	0.180	No trend	Normal	0.093	0.101
	Mercury	3/2019 - 3/2023	8	100%	0.000200 U	0.000200 U	--	100% ND	--	--	100% ND	Detection Limit	0.000200 U	0.000200 U
	Molybdenum	10/2018 - 9/2021	9	78%	0.00200 U	0.00243	--	>50% ND	--	--	>50% ND	Non-parametric	0.00243	0.00243
	Radium-226 & 228	10/2018 - 9/2021	9	0%	0.825	2.21	0	Normal	0	1.000	No trend	Normal	2.83	3.40
	Selenium	10/2018 - 9/2021	9	100%	0.00500 U	0.00500 U	--	100% ND	--	--	100% ND	Detection Limit	0.00500 U	0.00500 U
	Thallium	3/2019 - 3/2023	8	75%	0.00100 U	0.00154	--	>50% ND	--	--	>50% ND	Non-parametric	0.00154	0.00154

Notes:
0.200 U - Not detected at the associated reporting limit.
6.74 J - Estimated concentration.
KM - UTLs were calculated using Kaplan-Meyer estimates for non-detects.
WH - UTLs were calculated using gamma distribution and the Wilson-Hilferty method.
TDS - Total dissolved solids

The following actual confidence coefficients were achieved for the following number of baseline samples:

<i>n</i>	<i>at 95 percent coverage</i>	<i>at 99 percent coverage</i>
12	0.460 (46% confidence)	0.114 (11% confidence)
14	0.512 (51% confidence)	0.131 (13% confidence)
15	0.537 (54% confidence)	0.14 (14% confidence)
16	0.560 (56% confidence)	0.149 (15% confidence)

Table 4.5

Inter-Well Comparisons for 2025 Assessment Monitoring Data vs. Upgradient Background UTLs
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

			Appendix III Analytes						Appendix IV Analytes					
			Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH, lab s.u.	Sulfate mg/L	TDS mg/L	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	
Pooled Upgradient Wells (MW-16, MW-17, and MW-18)			Baseline 95/95 UTL:	0.259	112 - 278 †	21.8	0.729	6.9 J - 7.8 J	409	30.0 U - 1280 †	0.00200 U	0.0667	0.121 - 0.322 †	0.00100 U
			Baseline 99/95 UTL:	0.277	112 - 278 †	27.2	0.729	6.9 J - 7.8 J	409	30.0 U - 1280 †	0.00200 U	0.1554	0.121 - 0.322 †	0.00100 U
			MCL/GWPS	None	None	None	4.0 ^a	None	None	None	0.006 ^a	0.0249 ^c	2.0 ^a	0.004 ^a
Well	Observation	Monitoring Event												
MW-2	3/31/2025	Assessment	0.440 /0.424	178 /173	5.00 U /5.26	1.00 U /1.00 U	7.7 J /7.7 J	210 /202	858 /876	0.00200 U /0.00200 U	0.0166 /0.0174	0.184 /0.184	0.00100 U /0.00100 U	
	9/3/2025	Assessment	0.435 /0.411	168 /152	5.00 U /5.00 U	1.00 U /1.00 U	7.6 J /7.6 J	163 /168	810 /850	0.00200 U /0.00200 U	0.0165 /0.0165	0.221 /0.201	0.00100 U /0.00100 U	
MW-4	3/31/2025	Assessment	0.242	93.3	23.4	1.00 U	7.8 J	130	546	0.00200 U	0.00200 U	0.0504	0.00100 U	
	9/4/2025	Assessment	0.195	84.6	22.1	1.00 U	7.2 J	137	562	0.00200 U	0.00200 U	0.0496	0.00100 U	
MW-8	4/1/2025	Assessment	2.27	177	6.76	1.00 U	7.7 J	291	1080	0.00200 U	0.00200 U	0.0856	0.00100 U	
	9/4/2025	Assessment	2.29	147	9.45	1.00 U	7.7 J	211	978	0.00200 U	0.00200 U	0.0947	0.00100 U	
MW-10	3/31/2025	Assessment	0.435	111	9.56	1.00 U	7.9 J	42.3	660	0.00200 U	0.0355	0.301	0.00100 U	
	9/3/2025	Assessment	0.443	113	8.59	1.00 U	7.8 J	47.4	650	0.00200 U	0.0393	0.373	0.00100 U	
MW-11	4/1/2025	Assessment	0.34	206	17.8	1.00 U	7.7 J	437	1170	0.00200 U	0.00200 U	0.0361	0.00100 U	
	9/3/2025	Assessment	0.303	202	23.1	1.00 U	7.5 J	420	1150	0.00200 U	0.00200 U	0.0305	0.00100 U	
MW-12	4/1/2025	Assessment	1.23	255	72.7	1.00 U	7.6 J	564	1460	0.00200 U	0.00200 U	0.0537	0.00100 U	
	9/3/2025	Assessment	1.24	210	89.2	1.00 U	7.6 J	438	1270	0.00200 U	0.00200 U	0.0417	0.00100 U	
MW-13	4/1/2025	Assessment	1.51	214	12.3	1.00 U	7.7 J	469	1270	0.00200 U	0.00200 U	0.031	0.00100 U	
	9/3/2025	Assessment	1.48	181	9.15	1.00 U	7.7 J	382	1120	0.00200 U	0.00200 U	0.0277	0.00100 U	
MW-14	3/31/2025	Assessment	0.346	190	6.1	1.00 U	7.6 J	205	934	0.00200 U	0.00200 U	0.0609	0.00100 U	
	9/3/2025	Assessment	0.347	201	5.00 U	1.00 U	7.5 J	248	1060	0.00200 U	0.00200 U	0.0589	0.00100 U	
MW-15	3/31/2025	Assessment	1.25	116	24.4	1.00 U	7.8 J	279	972	0.00200 U	0.00200 U	0.12	0.00100 U	
	9/4/2025	Assessment	0.339	105	26	1.00 U	7.1 J	186	658	0.00200 U	0.00200 U	0.0816	0.00100 U	
MW-16 (Upgradient)	3/31/2025	Assessment	0.203	139	6.27	1.00 U	7.7 J	51.7	698	0.00200 U	0.00200 U	0.295	0.00100 U	
	9/3/2025	Assessment	0.18	133	5.00 U	1.00 U	7.6 J	63.7	748 J	0.00200 U	0.00200 U	0.324	0.00100 U	
MW-17 (Upgradient)	3/31/2025	Assessment	0.233	147	14.2	1.00 U	7.8 J	105	714	0.00200 U	0.00395	0.124	0.00100 U	
	9/4/2025	Assessment	0.204	143	15.5	1.00 U	7.6 J	97.9	748	0.00200 U	0.00291	0.104	0.00100 U	
MW-18 (Upgradient)	3/31/2025	Assessment	0.249	171	5.00 U	1.00 U	7.8 J	127	840	0.00200 U	0.0237	0.123	0.00100 U	
	9/4/2025	Assessment	0.236	170	5.00 U	1.00 U	7.6 J	130	830	0.00200 U	0.02	0.119	0.00100 U	
MW-19	3/31/2025	Assessment	0.585	277	57.7	1.00 U	7.7 J	456	1490	0.00200 U	0.00200 U	0.137	0.00100 U	
	9/3/2025	Assessment	0.487	202	34.5	1.00 U	7.5 J	311	1130	0.00200 U	0.00200 U	0.0781	0.00100 U	
MW-20	3/31/2025	Assessment	1.17	205	80	1.00 U	7.8 J	352	1170	0.00200 U	0.0136	0.0886	0.00100 U	
	9/3/2025	Assessment	1.07	205	61.5	1.00 U	7.7 J	423	1310	0.00200 U	0.0148	0.0833	0.00100 U	
MW-21	3/31/2025	Assessment	0.241	182	8.72	1.00 U	7.7 J	140	778	0.00200 U	0.00786	0.399	0.00100 U	
	9/3/2025	Assessment	0.189	187	8.32	1.00 U	7.4 J	135	816	0.00200 U	0.00794	0.372	0.00100 U	

Table 4.5

Inter-Well Comparisons for 2025 Assessment Monitoring Data vs. Upgradient Background UTLs
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

			Appendix IV Analytes										
			Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Radium-226 & 228 pCi/L	Selenium mg/L	Thallium mg/L	
Pooled Upgradient Wells (MW-16, MW-17, and MW-18)			Baseline 95/95 UTL:	0.000500 U	0.00500 U	0.00724	0.000638	0.164	0.000600 U	0.00350	2.01	0.0403	0.00100 U
			Baseline 99/95 UTL:	0.000500 U	0.00500 U	0.00724	0.000638	0.210	0.000600 U	0.00350	2.36	0.0403	0.00100 U
			MCL/GWPS	0.005 ^a	0.1 ^a	0.0168 ^c	0.015 ^b	0.157 ^c	0.002 ^a	0.100 ^b	5 ^a	0.05 ^a	0.002 ^a
Well	Observation	Monitoring Event											
MW-2	3/31/2025	Assessment	0.000200 U /0.000200 U	0.00500 U /0.00500 U	0.00573 /0.00572	0.000500 U/0.000500 U	0.111 /0.107	0.000200 U /0.000200 U	0.00225 /0.00200 U	1.31 /0.272	0.00500 U/0.00500 U	0.00100 U/0.00100 U	
	9/3/2025	Assessment	0.000200 U /0.000200 U	0.00500 U /0.00500 U	0.00377 /0.00367	0.000500 U/0.000500 U	0.123 /0.114	0.000200 U /0.000200 U	0.00245 /0.00235	1.31 /1.19	0.00500 U/0.00500 U	0.00100 U/0.00100 U	
MW-4	3/31/2025	Assessment	0.000200 U	0.00500 U	0.00163	0.000500 U	0.0501	0.000200 U	0.00200 U	0.829	0.00500 U	0.00100 U	
	9/4/2025	Assessment	0.000200 U	0.00500 U	0.00178	0.000500 U	0.0501	0.000200 U	0.00200 U	0.558	0.00500 U	0.00100 U	
MW-8	4/1/2025	Assessment	0.000209	0.00500 U	0.00147	0.000500 U	0.12	0.000200 U	0.0104	0.983	0.00500 U	0.00100 U	
	9/4/2025	Assessment	0.000200 U	0.00500 U	0.00204	0.000500 U	0.114	0.000200 U	0.0115	0.963	0.00500 U	0.00100 U	
MW-10	3/31/2025	Assessment	0.000200 U	0.00500 U	0.00132	0.000500 U	0.068	0.000200 U	0.00442	0.568	0.00500 U	0.00100 U	
	9/3/2025	Assessment	0.000200 U	0.00500 U	0.00115	0.000500 U	0.0809	0.000200 U	0.00422	1.04	0.00500 U	0.00100 U	
MW-11	4/1/2025	Assessment	0.000200 U	0.00500 U	0.00692	0.000500 U	0.0935	0.000200 U	0.00200 U	0.329	0.00500 U	0.00100 U	
	9/3/2025	Assessment	0.000200 U	0.00500 U	0.00547	0.000500 U	0.093	0.000200 U	0.00200 U	0.962	0.00500 U	0.00100 U	
MW-12	4/1/2025	Assessment	0.000200 U	0.00500 U	0.000500 U	0.000500 U	0.141	0.000200 U	0.00200 U	0.346	0.0739	0.00100 U	
	9/3/2025	Assessment	0.000200 U	0.00500 U	0.000500 U	0.000500 U	0.124	0.000200 U	0.00200 U	0.888	0.0593	0.00100 U	
MW-13	4/1/2025	Assessment	0.000200 U	0.00500 U	0.000515	0.000500 U	0.113	0.000200 U	0.00200 U	0.431	0.0178	0.00100 U	
	9/3/2025	Assessment	0.000200 U	0.00500 U	0.00078	0.000500 U	0.0991	0.000200 U	0.00200 U	0.797	0.00500 U	0.00100 U	
MW-14	3/31/2025	Assessment	0.000200 U	0.00500 U	0.00499	0.00088	0.122	0.000200 U	0.00200 U	0.718	0.00500 U	0.00100 U	
	9/3/2025	Assessment	0.000200 U	0.00500 U	0.00264	0.000500 U	0.130	0.000200 U	0.00200 U	0.351	0.00582	0.00100 U	
MW-15	3/31/2025	Assessment	0.000200 U	0.00500 U	0.00219	0.000500 U	0.0538	0.000200 U	0.00200 U	0.865	0.00500 U	0.00100 U	
	9/4/2025	Assessment	0.000200 U	0.00500 U	0.00316	0.000500 U	0.0617	0.000200 U	0.00200 U	1.15	0.00500 U	0.00100 U	
MW-16 (Upgradient)	3/31/2025	Assessment	0.000200 U	0.00500 U	0.000838	0.000500 U	0.0604	0.000200 U	0.00200 U	0.548	0.00500 U	0.00100 U	
	9/3/2025	Assessment	0.000200 U	0.00500 U	0.0011	0.000500 U	0.0556	0.000200 U	0.00200 U	1.08	0.00500 U	0.00100 U	
MW-17 (Upgradient)	3/31/2025	Assessment	0.000200 U	0.00500 U	0.000649	0.000500 U	0.0845	0.000200 U	0.00336	1.67	0.00500 U	0.00100 U	
	9/4/2025	Assessment	0.000200 U	0.00500 U	0.000500 U	0.000500 U	0.0772	0.000200 U	0.00302	1.68	0.00500 U	0.00100 U	
MW-18 (Upgradient)	3/31/2025	Assessment	0.000200 U	0.00500 U	0.00265	0.000500 U	0.139	0.000200 U	0.00233	1.26	0.00500 U	0.00100 U	
	9/4/2025	Assessment	0.000200 U	0.00500 U	0.00356	0.000500 U	0.14	0.000200 U	0.00219	1.37	0.00500 U	0.00100 U	
MW-19	3/31/2025	Assessment	0.000200 U	0.00500 U	0.00697	0.000500 U	0.169	0.000200 U	0.00200 U	1.56	0.00500 U	0.00100 U	
	9/3/2025	Assessment	0.000200 U	0.00500 U	0.0028	0.000500 U	0.148	0.000200 U	0.00200 U	0.822	0.00500 U	0.00100 U	
MW-20	3/31/2025	Assessment	0.000200 U	0.00500 U	0.00255	0.000500 U	0.11	0.000200 U	0.00200 U	0.304	0.00500 U	0.00100 U	
	9/3/2025	Assessment	0.000200 U	0.00500 U	0.00109	0.000500 U	0.118	0.000200 U	0.00200 U	1.51	0.00500 U	0.00100 U	
MW-21	3/31/2025	Assessment	0.000200 U	0.00500 U	0.00338	0.000500 U	0.0816	0.000200 U	0.00200 U	1.84	0.00500 U	0.00100 U	
	9/3/2025	Assessment	0.000200 U	0.00500 U	0.006	0.000500 U	0.0864	0.000200 U	0.00200 U	1.88	0.00500 U	0.00100 U	

Notes:

28.0 Value exceeds inter-well baseline 95/95 UTL or is outside of baseline range.

7.2 J Value exceeds inter-well baseline 99/95 UTL.

† - Trend present during baseline period, no UTL values calculated (baseline range listed for comparison).

368/370 - Field duplicate results.

U - Not detected at the associated reporting limit.

None - No MCL established.

J - Estimated concentration.

^a Maximum contaminant level (MCL).

NS - Not Sampled

^b Groundwater protection standard (GWPS) established under 40 CFR 257.95(h)(2).

Arsenic and Lithium baseline UTLs were updated in 2025.

Table 4.6

Intra-Well Comparisons for 2025 Assessment Monitoring Data												
MidAmerican Energy Company												
Neal South CCR Monofill												
Salix, Iowa												
Well	Observation	Monitoring Event	Appendix III Analytes						Appendix IV Analytes			
			Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH, lab s.u.	Sulfate mg/L	TDS mg/L	Antimony mg/L	Arsenic mg/L	Barium mg/L
		MCL/GWPS:	None	None	None	4.0 ^a	None	None	None	0.006 ^a	0.0249 ^c	2.0 ^a
MW-2		Baseline 95/95 UTL:	1.78	235	32.7	1.24	6.74 J - 7.4 J	247	566 - 1390 †	0.00100 U	0.145	0.125 - 0.222 †
		Baseline 99/95 UTL:	2.18	319	40.0	1.24	6.74 J - 7.4 J	512	566 - 1390 †	0.00100 U	0.307	0.125 - 0.222 †
	3/31/2025	Assessment	0.440 /0.424	178 /173	5.00 U /5.26	1.00 U /1.00 U	7.7 J /7.7 J	210 /202	858 /876	0.00200 U /0.00200 U	0.0166 /0.0174	0.184 /0.184
	9/3/2025	Assessment	0.435 /0.411	168 /152	5.00 U /5.00 U	1.00 U /1.00 U	7.6 J /7.6 J	163 /168	810 /850	0.00200 U /0.00200 U	0.0165 /0.0165	0.221 /0.201
MW-4		Baseline 95/95 UTL:	0.335 - 3.49 †	127 - 378 †	5.00 U - 47.2 †	0.500 U	6.73 J - 7.3 J	167 - 996 †	712 - 2570 †	0.00100 U	0.00200 U	0.0480
		Baseline 99/95 UTL:	0.335 - 3.49 †	127 - 378 †	5.00 U - 47.2 †	0.500 U	6.73 J - 7.3 J	167 - 996 †	712 - 2570 †	0.00100 U	0.00200 U	0.0528
	3/31/2025	Assessment	0.242	93.3	23.4	1.00 U	7.8 J	130	546	0.00200 U	0.00200 U	0.0504
	9/4/2025	Assessment	0.195	84.6	22.1	1.00 U	7.2 J	137	562	0.00200 U	0.00200 U	0.0496
MW-8		Baseline 95/95 UTL:	6.54	150 - 213 †	4.8 - 13.3 †	2.31	6.86 - 7.6	1063	2008	0.00100 U	0.00200 U	0.111
		Baseline 99/95 UTL:	8.00	150 - 213 †	4.8 - 13.3 †	2.31	6.86 - 7.6	1291	2898	0.00100 U	0.00200 U	0.122
	4/1/2025	Assessment	2.27	177	6.76	1.00 U	7.7 J	291	1080	0.00200 U	0.00200 U	0.0856
	9/4/2025	Assessment	2.29	147	9.45	1.00 U	7.7 J	211	978	0.00200 U	0.00200 U	0.0947
MW-10		Baseline 95/95 UTL:	0.271 - 2.24 †	188	23.2	6.47	6.92 J - 7.4 J	339	1237	0.00100 U	0.00200 U - 0.0622 †	0.111 - 0.618 †
		Baseline 99/95 UTL:	0.271 - 2.24 †	200	39.7	6.47	6.92 J - 7.4 J	414	1333	0.00100 U	0.00200 U - 0.0622 †	0.111 - 0.618 †
	3/31/2025	Assessment	0.435	111	9.56	1.00 U	7.9 J	42.3	660	0.00200 U	0.0355	0.301
	9/3/2025	Assessment	0.443	113	8.59	1.00 U	7.8 J	47.4	650	0.00200 U	0.0393	0.373
MW-11		Baseline 95/95 UTL:	1.20	287	149	8.89 J	6.71 J - 7.6 J	240 - 450 †	1070 J - 1470 †	0.00100 U	0.00200 U	0.119
		Baseline 99/95 UTL:	1.45	303	149	8.89 J	6.71 J - 7.6 J	240 - 450 †	1070 J - 1470 †	0.00100 U	0.00200 U	0.134
	4/1/2025	Assessment	0.34	206	17.8	1.00 U	7.7 J	437	1170	0.00200 U	0.00200 U	0.0361
	9/3/2025	Assessment	0.303	202	23.1	1.00 U	7.5 J	420	1150	0.00200 U	0.00200 U	0.0305
MW-12		Baseline 95/95 UTL:	1.23 - 5.39 †	284	394	21.0	7.0 J - 7.5 J	245 - 626 †	2224	0.00100 U	0.00200 U	0.113
		Baseline 99/95 UTL:	1.23 - 5.39 †	312	493	21.0	7.0 J - 7.5 J	245 - 626 †	2496	0.00100 U	0.00200 U	0.131
	4/1/2025	Assessment	1.23	255	72.7	1.00 U	7.6 J	564	1460	0.00200 U	0.00200 U	0.0537
	9/3/2025	Assessment	1.24	210	89.2	1.00 U	7.6 J	438	1270	0.00200 U	0.00200 U	0.0417
MW-13		Baseline 95/95 UTL:	2.04	332	76	8.21	6.90 J - 7.6 J	324 - 618 †	1846	0.00100 U	0.00675 J	0.161
		Baseline 99/95 UTL:	2.39	365	138	8.21	6.90 J - 7.6 J	324 - 618 †	2021	0.00100 U	0.00675 J	0.161
	4/1/2025	Assessment	1.51	214	12.3	1.00 U	7.7 J	469	1270	0.00200 U	0.00200 U	0.031
	9/3/2025	Assessment	1.48	181	9.15	1.00 U	7.7 J	382	1120	0.00200 U	0.00200 U	0.0277
MW-14		Baseline 95/95 UTL:	2.89	193 - 301 †	76.5	14.9	6.80 J - 7.8 J	218 - 428 †	1846	0.00100 U	0.00200 U	0.0604 - 0.133 †
		Baseline 99/95 UTL:	3.57	193 - 301 †	171	14.9	6.80 J - 7.8 J	218 - 428 †	2062	0.00100 U	0.00200 U	0.0604 - 0.133 †
	3/31/2025	Assessment	0.346	190	6.1	1.00 U	7.6 J	205	934	0.00200 U	0.00200 U	0.0609
	9/3/2025	Assessment	0.347	201	5.00 U	1.00 U	7.5 J	248	1060	0.00200 U	0.00200 U	0.0589

Table 4.6												
Intra-Well Comparisons for 2025 Assessment Monitoring Data												
MidAmerican Energy Company												
Neal South CCR Monofill												
Salix, Iowa												
Well	Observation	Monitoring Event	Appendix III Analytes						Appendix IV Analytes			
			Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH, lab s.u.	Sulfate mg/L	TDS mg/L	Antimony mg/L	Arsenic mg/L	Barium mg/L
		MCL/GWPS:	None	None	None	4.0 ^a	None	None	None	0.006 ^a	0.0249 ^c	2.0 ^a
MW-15		Baseline 95/95 UTL:	0.386 - 3.05 †	304	5.00 U - 19.9 †	1.90	6.78 J - 7.3 J	186 - 642 †	640 - 2000 †	0.00100 U	0.00286	0.0788
		Baseline 99/95 UTL:	0.386 - 3.05 †	344	5.00 U - 19.9 †	1.90	6.78 J - 7.3 J	186 - 642 †	640 - 2000 †	0.00100 U	0.00286	0.0883
	3/31/2025	Assessment	1.25	116	24.4	1.00 U	7.8 J	279	972	0.00200 U	0.00200 U	0.12
	9/4/2025	Assessment	0.339	105	26	1.00 U	7.1 J	186	658	0.00200 U	0.00200 U	0.0816
MW-16 (Upgradient)		Baseline 95/95 UTL:	0.233	193	5.68	0.590	6.53 - 7.93	35.8 - 80.8 †	660	0.001 U	0.002 U	0.266
		Baseline 99/95 UTL:	0.233	210	5.68	0.590	6.53 - 7.93	35.8 - 80.8 †	660	0.001 U	0.002 U	0.293
	3/31/2025	Assessment	0.203	139	6.27	1.00 U	7.7 J	51.7	698	0.00200 U	0.00200 U	0.295
	9/3/2025	Assessment	0.18	133	5.00 U	1.00 U	7.6 J	63.7	748 J	0.00200 U	0.00200 U	0.324
MW-17 (Upgradient)		Baseline 95/95 UTL:	0.191 - 0.253 †	119 - 198 †	5.00 U - 22.5 †	0.527	6.9 J - 7.8 J	93.7	638 - 764 †	0.00100 U	0.0214	0.154 - 0.207 †
		Baseline 99/95 UTL:	0.191 - 0.253 †	119 - 198 †	5.00 U - 22.5 †	0.527	6.9 J - 7.8 J	103	638 - 764 †	0.00100 U	0.0252	0.154 - 0.207 †
	3/31/2025	Assessment	0.233	147	14.2	1.00 U	7.8 J	105	714	0.00200 U	0.00395	0.124
	9/4/2025	Assessment	0.204	143	15.5	1.00 U	7.6 J	97.9	748	0.00200 U	0.00291	0.104
MW-18 (Upgradient)		Baseline 95/95 UTL:	0.279	181	11.4	0.589	6.64 - 7.66	90.6	883	0.00100 U	0.0312	0.210
		Baseline 99/95 UTL:	0.298	181	11.4	0.589	6.64 - 7.66	94.4	932	0.00100 U	0.0378	0.232
	3/31/2025	Assessment	0.249	171	5.00 U	1.00 U	7.8 J	127	840	0.00200 U	0.0237	0.123
	9/4/2025	Assessment	0.236	170	5.00 U	1.00 U	7.6 J	130	830	0.00200 U	0.02	0.119
MW-19		Baseline 95/95 UTL:	0.379	301	5.4 - 11.6	1.78	6.8 J - 7.5 J	450	1432	0.00200 U	0.00444	0.224
		Baseline 99/95 UTL:	0.414	333	5.4 - 11.6	1.78	6.8 J - 7.5 J	501	1557	0.00200 U	0.00444	0.253
	3/31/2025	Assessment	0.585	277	57.7	1.00 U	7.7 J	456	1490	0.00200 U	0.00200 U	0.137
	9/3/2025	Assessment	0.487	202	34.5	1.00 U	7.5 J	311	1130	0.00200 U	0.00200 U	0.0781
MW-20		Baseline 95/95 UTL:	1.23	210	30.0	0.521	6.68 - 7.84	60.3 - 236 †	1046	0.00200 U	0.0298	0.145
		Baseline 99/95 UTL:	1.45	233	37.4	0.521	6.68 - 7.84	60.3 - 236 †	1181	0.00200 U	0.0374	0.159
	3/31/2025	Assessment	1.17	205	80	1.00 U	7.8 J	352	1170	0.00200 U	0.0136	0.0886
	9/3/2025	Assessment	1.07	205	61.5	1.00 U	7.7 J	423	1310	0.00200 U	0.0148	0.0833
MW-21		Baseline 95/95 UTL:	0.266	125 - 154	3.68 - 8.95 †	0.553	6.9 J - 7.7 J	110	424 - 626	0.00200 U	0.00200 U	0.363
		Baseline 99/95 UTL:	0.295	125 - 154	3.68 - 8.95 †	0.553	6.9 J - 7.7 J	135	424 - 626	0.00200 U	0.00200 U	0.415
	3/31/2025	Assessment	0.241	182	8.72	1.00 U	7.7 J	140	778	0.00200 U	0.00786	0.399
	9/3/2025	Assessment	0.189	187	8.32	1.00 U	7.4 J	135	816	0.00200 U	0.00794	0.372

Table 4.6

Intra-Well Comparisons for 2025 Assessment Monitoring Data MidAmerican Energy Company Neal South CCR Monofill Salix, Iowa													
			Appendix IV Analytes										
Well	Observation	Monitoring Event	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Radium-226 & 228 pCi/L	Selenium mg/L	Thallium mg/L
			MCL/GWPS: 0.004 ^a	0.005 ^a	0.1 ^a	0.0168 ^c	0.015 ^b	0.157 ^c	0.002 ^a	0.100 ^b	5 ^a	0.05 ^a	0.002 ^a
MW-2	Baseline 95/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00330	0.000500 U	0.0589 - 0.131 †	0.000200 U	0.00292	0.164 U - 0.96 †	0.00500 U	0.00100 U
	Baseline 99/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00404	0.000500 U	0.0589 - 0.131 †	0.000200 U	0.00317	0.164 U - 0.96 †	0.00500 U	0.00100 U
	3/31/2025	Assessment	0.00100 U /0.00100 U	0.000200 U /0.000200 U	0.00500 U /0.00500 U	0.00573 /0.00572	0.000500 U /0.000500 U	0.111 /0.107	0.000200 U /0.000200 U	0.00225 /0.00200 U	1.31 /0.272	0.00500 U /0.00500 U	0.00100 U /0.00100 U
	9/3/2025	Assessment	0.00100 U /0.00100 U	0.000200 U /0.000200 U	0.00500 U /0.00500 U	0.00377 /0.00367	0.000500 U /0.000500 U	0.123 /0.114	0.000200 U /0.000200 U	0.00245 /0.00235	1.31/1.19	0.00500 U /0.00500 U	0.00100 U /0.00100 U
MW-4	Baseline 95/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.0129	0.000500 U	0.0725 - 0.254 †	0.000200 U	0.00200 U	0.946	0.0113	0.00100 U
	Baseline 99/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.0159	0.000500 U	0.0725 - 0.254 †	0.000200 U	0.00200 U	1.13	0.0113	0.00100 U
	3/31/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00163	0.000500 U	0.0501	0.000200 U	0.00200 U	0.829	0.00500 U	0.00100 U
	9/4/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00178	0.000500 U	0.0501	0.000200 U	0.00200 U	0.558	0.00500 U	0.00100 U
MW-8	Baseline 95/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00428	0.000500 U	0.135	0.000200 U	0.135	1.32	0.0985	0.00100 U
	Baseline 99/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00481	0.000500 U	0.155	0.000200 U	0.171	1.64	0.0985	0.00100 U
	4/1/2025	Assessment	0.00100 U	0.000209	0.00500 U	0.00147	0.000500 U	0.12	0.000200 U	0.0104	0.983	0.00500 U	0.00100 U
	9/4/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00204	0.000500 U	0.114	0.000200 U	0.0115	0.963	0.00500 U	0.00100 U
MW-10	Baseline 95/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.000611 - 0.00394 †	0.000500 U	0.152	0.000200 U	0.00410	2.17	0.0160	0.00100 U
	Baseline 99/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.000611 - 0.00394 †	0.000500 U	0.180	0.000200 U	0.00450	2.17	0.0160	0.00100 U
	3/31/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00132	0.000500 U	0.068	0.000200 U	0.00442	0.568	0.00500 U	0.00100 U
	9/3/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00115	0.000500 U	0.0809	0.000200 U	0.00422	1.04	0.00500 U	0.00100 U
MW-11	Baseline 95/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00440	0.000500 U	0.151	0.000200 U	0.00200 U	0.827 U	0.0580 J	0.00100 U
	Baseline 99/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00520	0.000500 U	0.163	0.000200 U	0.00200 U	0.827 U	0.0580 J	0.00100 U
	4/1/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00692	0.000500 U	0.0935	0.000200 U	0.00200 U	0.329	0.00500 U	0.00100 U
	9/3/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00547	0.000500 U	0.093	0.000200 U	0.00200 U	0.962	0.00500 U	0.00100 U
MW-12	Baseline 95/95 UTL:		0.00100 U	0.000500 U	0.0340	0.00182	0.000500 U	0.140	0.000200 U	0.00477	0.810	0.00500 U - 0.0766 †	0.00100 U
	Baseline 99/95 UTL:		0.00100 U	0.000500 U	0.0340	0.00182	0.000500 U	0.155	0.000200 U	0.00477	0.810	0.00500 U - 0.0766 †	0.00100 U
	4/1/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.000500 U	0.000500 U	0.141	0.000200 U	0.00200 U	0.346	0.0739	0.00100 U
	9/3/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.000500 U	0.000500 U	0.124	0.000200 U	0.00200 U	0.888	0.0593	0.00100 U
MW-13	Baseline 95/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00065	0.000500 U	0.152	0.000200 U	0.00296	1.34	0.00500 U - 0.0831 †	0.00100 U
	Baseline 99/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00816	0.000500 U	0.168	0.000200 U	0.00296	1.70	0.00500 U - 0.0831 †	0.00100 U
	4/1/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.000515	0.000500 U	0.113	0.000200 U	0.00200 U	0.431	0.0178	0.00100 U
	9/3/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00078	0.000500 U	0.0991	0.000200 U	0.00200 U	0.797	0.00500 U	0.00100 U
MW-14	Baseline 95/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00572	0.000500 U	0.184	0.000200 U	0.00224	1.73	0.031	0.00100 U
	Baseline 99/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00680	0.000500 U	0.206	0.000200 U	0.00224	2.09	0.038	0.00100 U
	3/31/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00499	0.00088	0.122	0.000200 U	0.00200 U	0.718	0.00500 U	0.00100 U
	9/3/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00264	0.000500 U	0.13	0.000200 U	0.00200 U	0.351	0.00582	0.00100 U

Table 4.6

Intra-Well Comparisons for 2025 Assessment Monitoring Data MidAmerican Energy Company Neal South CCR Monofill Salix, Iowa													
Well	Observation	Monitoring Event	Appendix IV Analytes										
			Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Radium-226 & 228 pCi/L	Selenium mg/L	Thallium mg/L
			MCL/GWPS: 0.004 ^a	0.005 ^a	0.1 ^a	0.0168 ^c	0.015 ^b	0.157 ^c	0.002 ^a	0.100 ^b	5 ^a	0.05 ^a	0.002 ^a
MW-15	Baseline 95/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00950	0.000500 U	0.107	0.000200 U	0.00200 U	1.26	0.00799	0.00100 U
	Baseline 99/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00950	0.000500 U	0.120	0.000200 U	0.00200 U	1.49	0.00799	0.00100 U
	3/31/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00219	0.000500 U	0.0538	0.000200 U	0.00200 U	0.865	0.00500 U	0.00100 U
	9/4/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00316	0.000500 U	0.0617	0.000200 U	0.00200 U	1.15	0.00500 U	0.00100 U
MW-16 (Upgradient)	Baseline 95/95 UTL:		0.001 U	0.0005 U	0.005 U	0.00203	0.0005 U	0.0824	0.0002 U	0.00200 U	0.301 U - 2.2 †	0.00500 U - 0.0369 †	0.001 U
	Baseline 99/95 UTL:		0.001 U	0.0005 U	0.005 U	0.00203	0.0005 U	0.0897	0.0002 U	0.00200 U	0.301 U - 2.2 †	0.00500 U - 0.0369 †	0.001 U
	3/31/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.000838	0.000500 U	0.0604	0.000200 U	0.00200 U	0.548	0.00500 U	0.00100 U
	9/3/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.0011	0.000500 U	0.0556	0.000200 U	0.00200 U	1.08	0.00500 U	0.00100 U
MW-17 (Upgradient)	Baseline 95/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00243 - 0.00396 †	0.000500 U	0.0721 - 0.114 †	0.000200 U	0.00200 U	0.65 - 2.27 †	0.00500 U	0.00100 U
	Baseline 99/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00243 - 0.00396 †	0.000500 U	0.0721 - 0.114 †	0.000200 U	0.00200 U	0.65 - 2.27 †	0.00500 U	0.00100 U
	3/31/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.000649	0.000500 U	0.0845	0.000200 U	0.00336	1.67	0.00500 U	0.00100 U
	9/4/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.000500 U	0.000500 U	0.0772	0.000200 U	0.00302	1.68	0.00500 U	0.00100 U
MW-18 (Upgradient)	Baseline 95/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.0080	0.000500 U	0.152	0.000600 U	0.00284	1.64	0.00500 U	0.00100 U
	Baseline 99/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.0095	0.000500 U	0.165	0.000600 U	0.00284	1.64	0.00500 U	0.00100 U
	3/31/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00265	0.000500 U	0.139	0.000200 U	0.00233	1.26	0.00500 U	0.00100 U
	9/4/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00356	0.000500 U	0.14	0.000200 U	0.00219	1.37	0.00500 U	0.00100 U
MW-19	Baseline 95/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.0133	0.000500 U	0.184	0.000200 U	0.00200 U	2.22	0.00500 U	0.00100 U
	Baseline 99/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.0155	0.000500 U	0.207	0.000200 U	0.00200 U	2.66	0.00500 U	0.00100 U
	3/31/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00697	0.000500 U	0.169	0.000200 U	0.00200 U	1.56	0.00500 U	0.00100 U
	9/3/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.0028	0.000500 U	0.148	0.000200 U	0.00200 U	0.822	0.00500 U	0.00100 U
MW-20	Baseline 95/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00735	0.000500 U	0.125	0.000200 U	0.00200 U	2.47	0.0132	0.00100 U
	Baseline 99/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00889	0.000500 U	0.141	0.000200 U	0.00200 U	3.04	0.0132	0.00100 U
	3/31/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00255	0.000500 U	0.11	0.000200 U	0.00200 U	0.304	0.00500 U	0.00100 U
	9/3/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00109	0.000500 U	0.118	0.000200 U	0.00200 U	1.51	0.00500 U	0.00100 U
MW-21	Baseline 95/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00219	0.000517	0.093	0.000200 U	0.00243	2.83	0.00500 U	0.00136
	Baseline 99/95 UTL:		0.00100 U	0.000500 U	0.00500 U	0.00268	0.000517	0.101	0.000200 U	0.00243	3.40	0.00500 U	0.00136
	3/31/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.00338	0.000500 U	0.0816	0.000200 U	0.00200 U	1.84	0.00500 U	0.00100 U
	9/3/2025	Assessment	0.00100 U	0.000200 U	0.00500 U	0.006	0.000500 U	0.0864	0.000200 U	0.00200 U	1.88	0.00500 U	0.00100 U

Notes:

J - Estimated concentration.

28.0

Value exceeds intra-well baseline 95/95 UTL or is outside of baseline range (for baseline data sets with temporal trends).

7.2 J

Value exceeds intra-well baseline 99/95 UTL.

† - Trend present during baseline period, no UTL values calculated (baseline range listed for comparison).

Table 4.7

Groundwater Protection Standards for Neal South Monofill Groundwater
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Analytes	Units	MCL ^a	CCR-Rule GWPS ^b	Background ^c	Site-Specific GWPS
		40 CFR 257.95(h)(1)	40 CFR 257.95(h)(2)	40 CFR 257.95(h)(3)	
Appendix IV					
Antimony	mg/L	0.006	NA	0.00200 U	0.006 ^a
Arsenic	mg/L	0.01	NA	0.0667	0.0667 ^c
Barium	mg/L	2.0	NA	0.121 - 0.322	2.0 ^a
Beryllium	mg/L	0.004	NA	0.00100 U	0.004 ^a
Cadmium	mg/L	0.005	NA	0.000500 U	0.005 ^a
Chromium	mg/L	0.1	NA	0.00500 U	0.1 ^a
Cobalt	mg/L	NA	0.006	0.00724	0.00724 ^c
Fluoride	mg/L	4.0	NA	0.729	4.0 ^a
Lead	mg/L	NA	0.015	0.000638	0.015 ^b
Lithium	mg/L	NA	0.040	0.164	0.164 ^c
Mercury	mg/L	0.002	NA	0.000600 U	0.002 ^a
Molybdenum	mg/L	NA	0.100	0.0035	0.100 ^b
Radium-226 & 228	pCi/L	5	NA	2.013	5 ^a
Selenium	mg/L	0.05	NA	0.0403	0.05 ^a
Thallium	mg/L	0.002	NA	0.00100 U	0.002 ^a

Notes:

MCL - Maximum Contaminant Level.

NA - Not applicable.

U - Not detected at the associated reporting limit.

^a Maximum contaminant level (MCL).^b Groundwater protection standard (GWPS) established under 40 CFR 257.95(h)(2).^c Determined from baseline data set for MW-16, MW-17, and MW-18.

Appendices

Appendix A

Groundwater Sample Collection Records

Low-Flow Test Report:

Test Date / Time: 3/31/2025 4:13:55 PM
Project: Neal South MW-2
Operator Name: Thao Larson

Location Name: MW-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 15.3 ft Total Depth: 30.3 ft Initial Depth to Water: 22.49 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 26 ft Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 11200 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: -0.04 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time 1750

Weather Conditions:
Sunny 42°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/31/2025 4:13 PM	00:00	6.82 pH	14.86 °C	1.19 mS/cm	8.57 mg/L	78.80 NTU	6.9 mV	22.49 ft	200.00 ml/min
3/31/2025 4:15 PM	02:00	6.74 pH	12.84 °C	1.39 mS/cm	1.85 mg/L	33.68 NTU	-51.5 mV	22.46 ft	200.00 ml/min
3/31/2025 4:17 PM	04:00	6.71 pH	12.67 °C	1.39 mS/cm	1.63 mg/L	32.66 NTU	-60.1 mV	22.46 ft	200.00 ml/min
3/31/2025 4:19 PM	06:00	6.70 pH	12.58 °C	1.37 mS/cm	1.61 mg/L	32.13 NTU	-64.9 mV	22.44 ft	200.00 ml/min
3/31/2025 4:21 PM	08:00	6.68 pH	12.59 °C	1.35 mS/cm	1.64 mg/L	31.28 NTU	-64.9 mV	22.44 ft	200.00 ml/min
3/31/2025 4:23 PM	10:00	6.69 pH	12.59 °C	1.32 mS/cm	1.60 mg/L	18.40 NTU	-68.4 mV	22.44 ft	200.00 ml/min
3/31/2025 4:25 PM	12:00	6.69 pH	12.46 °C	1.27 mS/cm	1.50 mg/L	15.44 NTU	-70.6 mV	22.45 ft	200.00 ml/min
3/31/2025 4:27 PM	14:00	6.70 pH	12.39 °C	1.37 mS/cm	1.47 mg/L	13.86 NTU	-72.8 mV	22.45 ft	200.00 ml/min
3/31/2025 4:29 PM	16:00	6.70 pH	12.46 °C	1.35 mS/cm	1.49 mg/L	13.54 NTU	-74.3 mV	22.45 ft	200.00 ml/min
3/31/2025 4:31 PM	18:00	6.70 pH	12.53 °C	1.34 mS/cm	1.43 mg/L	9.63 NTU	-75.5 mV	22.45 ft	200.00 ml/min
3/31/2025 4:33 PM	20:00	6.72 pH	12.48 °C	1.35 mS/cm	1.40 mg/L	13.85 NTU	-77.1 mV	22.45 ft	200.00 ml/min

3/31/2025 4:35 PM	22:00	6.73 pH	12.41 °C	1.32 mS/cm	1.42 mg/L	9.82 NTU	-78.7 mV	22.45 ft	200.00 ml/min
3/31/2025 4:37 PM	24:00	6.73 pH	12.35 °C	1.30 mS/cm	1.34 mg/L	9.78 NTU	-79.5 mV	22.45 ft	200.00 ml/min
3/31/2025 4:39 PM	26:00	6.74 pH	12.31 °C	1.29 mS/cm	1.41 mg/L	9.47 NTU	-80.8 mV	22.45 ft	200.00 ml/min
3/31/2025 4:41 PM	28:00	6.74 pH	12.37 °C	1.34 mS/cm	1.47 mg/L	10.28 NTU	-81.8 mV	22.45 ft	200.00 ml/min
3/31/2025 4:43 PM	30:00	6.75 pH	12.46 °C	1.33 mS/cm	1.44 mg/L	9.10 NTU	-83.0 mV	22.45 ft	200.00 ml/min
3/31/2025 4:45 PM	32:00	6.76 pH	12.46 °C	1.32 mS/cm	1.50 mg/L	8.47 NTU	-84.3 mV	22.45 ft	200.00 ml/min
3/31/2025 4:47 PM	34:00	6.78 pH	12.44 °C	1.31 mS/cm	1.49 mg/L	7.97 NTU	-85.6 mV	22.45 ft	200.00 ml/min
3/31/2025 4:49 PM	36:00	6.78 pH	12.46 °C	1.30 mS/cm	1.45 mg/L	7.54 NTU	-86.5 mV	22.45 ft	200.00 ml/min
3/31/2025 4:51 PM	38:00	6.79 pH	12.45 °C	1.29 mS/cm	1.44 mg/L	7.60 NTU	-87.4 mV	22.45 ft	200.00 ml/min
3/31/2025 4:53 PM	40:00	6.81 pH	12.41 °C	1.28 mS/cm	1.43 mg/L	7.64 NTU	-88.5 mV	22.45 ft	200.00 ml/min
3/31/2025 4:55 PM	42:00	6.81 pH	12.42 °C	1.34 mS/cm	1.42 mg/L	7.42 NTU	-89.3 mV	22.45 ft	200.00 ml/min
3/31/2025 4:57 PM	44:00	6.81 pH	12.42 °C	1.36 mS/cm	1.32 mg/L	8.67 NTU	-89.7 mV	22.45 ft	200.00 ml/min
3/31/2025 4:59 PM	46:00	6.82 pH	12.44 °C	1.36 mS/cm	1.11 mg/L	7.78 NTU	-90.4 mV	22.45 ft	200.00 ml/min
3/31/2025 5:01 PM	48:00	6.83 pH	12.35 °C	1.36 mS/cm	1.12 mg/L	6.88 NTU	-91.3 mV	22.45 ft	200.00 ml/min
3/31/2025 5:03 PM	50:00	6.83 pH	12.46 °C	1.35 mS/cm	1.12 mg/L	7.63 NTU	-92.0 mV	22.45 ft	200.00 ml/min
3/31/2025 5:05 PM	52:00	6.84 pH	12.44 °C	1.35 mS/cm	1.14 mg/L	6.04 NTU	-92.8 mV	22.45 ft	200.00 ml/min
3/31/2025 5:07 PM	54:00	6.85 pH	12.35 °C	1.35 mS/cm	1.10 mg/L	5.88 NTU	-93.7 mV	22.45 ft	200.00 ml/min
3/31/2025 5:09 PM	56:00	6.85 pH	12.21 °C	1.35 mS/cm	1.11 mg/L	4.85 NTU	-94.5 mV	22.45 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW02-GW-0325	APP III & IV
DP01-GW-0325	APP III & IV

Low-Flow Test Report:

Test Date / Time: 3/31/2025 3:27:14 PM
Project: Neal South MW-4
Operator Name: Thao Larson

Location Name: MW-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 11.7 ft Total Depth: 26.7 ft Initial Depth to Water: 19.87 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 22.4 ft Pump Intake From TOC: 24.4 ft Estimated Total Volume Pumped: 4867.5 ml Flow Cell Volume: 130 ml Final Flow Rate: 275 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time 1600

Weather Conditions:
Sunny 50°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/31/2025 3:27 PM	00:00	6.92 pH	14.87 °C	0.89 mS/cm	6.57 mg/L	115.23 NTU	36.2 mV	19.87 ft	275.00 ml/min
3/31/2025 3:29 PM	01:58	7.10 pH	12.28 °C	0.93 mS/cm	1.58 mg/L	71.35 NTU	27.8 mV	19.87 ft	275.00 ml/min
3/31/2025 3:31 PM	03:56	6.71 pH	11.93 °C	0.92 mS/cm	1.02 mg/L	44.54 NTU	42.6 mV	19.87 ft	275.00 ml/min
3/31/2025 3:33 PM	05:54	6.57 pH	12.01 °C	0.92 mS/cm	0.74 mg/L	14.93 NTU	30.6 mV	19.87 ft	275.00 ml/min
3/31/2025 3:35 PM	07:52	6.54 pH	11.85 °C	0.93 mS/cm	0.63 mg/L	23.59 NTU	15.1 mV	19.87 ft	275.00 ml/min
3/31/2025 3:37 PM	09:50	6.53 pH	11.84 °C	0.90 mS/cm	0.56 mg/L	20.82 NTU	1.3 mV	19.89 ft	275.00 ml/min
3/31/2025 3:39 PM	11:48	6.53 pH	11.80 °C	0.90 mS/cm	0.50 mg/L	9.77 NTU	-7.7 mV	19.89 ft	275.00 ml/min
3/31/2025 3:41 PM	13:46	6.53 pH	11.68 °C	0.92 mS/cm	0.46 mg/L	6.09 NTU	-13.4 mV	19.89 ft	275.00 ml/min
3/31/2025 3:42 PM	15:44	6.54 pH	11.58 °C	0.92 mS/cm	0.44 mg/L	3.80 NTU	-17.4 mV	19.89 ft	275.00 ml/min
3/31/2025 3:44 PM	17:42	6.54 pH	11.59 °C	0.92 mS/cm	0.42 mg/L	2.92 NTU	-20.7 mV	19.89 ft	275.00 ml/min

Samples

Sample ID:	Description:
MW04-GW-0325	APP III & IV

Low-Flow Test Report:

Test Date / Time: 4/1/2025 8:47:09 AM
Project: Neal South MW-8
Operator Name: Thao Larson

Location Name: MW-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 9.7 ft Total Depth: 24.7 ft Initial Depth to Water: 19.01 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 23.3 ft Pump Intake From TOC: 25.3 ft Estimated Total Volume Pumped: 3112.5 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time 0940

Weather Conditions:
Overcast 30°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
4/1/2025 8:47 AM	00:00	7.14 pH	9.95 °C	1.65 mS/cm	4.78 mg/L	2.35 NTU	102.2 mV	19.01 ft	150.00 ml/min
4/1/2025 8:49 AM	01:58	7.14 pH	10.32 °C	1.72 mS/cm	1.29 mg/L	2.25 NTU	95.5 mV	19.03 ft	150.00 ml/min
4/1/2025 8:50 AM	03:03	7.14 pH	10.42 °C	1.73 mS/cm	0.78 mg/L	2.17 NTU	92.6 mV	19.03 ft	150.00 ml/min
4/1/2025 8:52 AM	05:01	7.15 pH	10.39 °C	1.73 mS/cm	0.50 mg/L	1.57 NTU	87.3 mV	19.02 ft	150.00 ml/min
4/1/2025 8:54 AM	06:59	7.15 pH	10.30 °C	1.73 mS/cm	0.42 mg/L	1.61 NTU	80.0 mV	19.02 ft	150.00 ml/min
4/1/2025 8:56 AM	08:57	7.15 pH	10.25 °C	1.73 mS/cm	0.39 mg/L	1.48 NTU	69.6 mV	19.02 ft	150.00 ml/min
4/1/2025 8:58 AM	10:55	7.15 pH	10.27 °C	1.72 mS/cm	0.37 mg/L	1.65 NTU	52.0 mV	19.02 ft	150.00 ml/min
4/1/2025 9:00 AM	12:53	7.15 pH	10.19 °C	1.72 mS/cm	0.52 mg/L	1.54 NTU	30.4 mV	19.02 ft	150.00 ml/min
4/1/2025 9:02 AM	14:51	7.15 pH	10.20 °C	1.72 mS/cm	0.40 mg/L	1.57 NTU	11.0 mV	19.02 ft	150.00 ml/min
4/1/2025 9:03 AM	16:49	7.15 pH	10.17 °C	1.72 mS/cm	0.36 mg/L	1.51 NTU	-4.4 mV	19.02 ft	150.00 ml/min
4/1/2025 9:05 AM	18:47	7.15 pH	10.15 °C	1.71 mS/cm	0.35 mg/L	1.65 NTU	-14.8 mV	19.02 ft	150.00 ml/min

4/1/2025 9:07 AM	20:45	7.15 pH	10.13 °C	1.71 mS/cm	0.34 mg/L	1.46 NTU	-21.9 mV	19.02 ft	150.00 ml/min

Samples

Sample ID:	Description:
MW08-GW-0425	APP III & IV

Low-Flow Test Report:

Test Date / Time: 3/31/2025 6:18:28 PM
Project: Neal South MW-10
Operator Name: Paige Richards

Location Name: MW-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 10.6 ft Total Depth: 29.8 ft Initial Depth to Water: 24.04 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 27.3 ft Pump Intake From TOC: 29.3 ft Estimated Total Volume Pumped: 7058.333 ml Flow Cell Volume: 130 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time: 1900

Weather Conditions:
Sunny, 48 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/31/2025 6:18 PM	00:00	7.29 pH	12.25 °C	1.11 mS/cm	7.73 mg/L	53.16 NTU	3.4 mV	24.04 ft	400.00 ml/min
3/31/2025 6:20 PM	02:01	7.39 pH	12.33 °C	1.04 mS/cm	1.16 mg/L	33.11 NTU	-104.5 mV	24.04 ft	400.00 ml/min
3/31/2025 6:22 PM	04:02	7.38 pH	12.09 °C	1.04 mS/cm	1.02 mg/L	14.13 NTU	-125.1 mV	24.07 ft	300.00 ml/min
3/31/2025 6:24 PM	06:03	7.37 pH	11.99 °C	1.05 mS/cm	1.01 mg/L	14.74 NTU	-130.6 mV	24.07 ft	300.00 ml/min
3/31/2025 6:26 PM	08:04	7.36 pH	12.05 °C	1.05 mS/cm	1.05 mg/L	11.96 NTU	-132.8 mV	24.07 ft	300.00 ml/min
3/31/2025 6:28 PM	10:05	7.34 pH	12.07 °C	1.05 mS/cm	1.01 mg/L	11.94 NTU	-133.0 mV	24.07 ft	300.00 ml/min
3/31/2025 6:30 PM	12:06	7.32 pH	12.02 °C	1.06 mS/cm	1.04 mg/L	8.51 NTU	-130.4 mV	24.07 ft	300.00 ml/min
3/31/2025 6:32 PM	14:07	7.31 pH	12.01 °C	1.06 mS/cm	1.06 mg/L	6.99 NTU	-128.4 mV	24.07 ft	300.00 ml/min
3/31/2025 6:34 PM	16:08	7.32 pH	12.08 °C	1.06 mS/cm	0.92 mg/L	8.04 NTU	-129.5 mV	24.07 ft	300.00 ml/min
3/31/2025 6:36 PM	18:09	7.31 pH	12.16 °C	1.07 mS/cm	0.96 mg/L	6.26 NTU	-129.7 mV	24.07 ft	300.00 ml/min
3/31/2025 6:38 PM	20:10	7.32 pH	12.05 °C	1.07 mS/cm	0.94 mg/L	5.10 NTU	-130.1 mV	24.07 ft	300.00 ml/min

3/31/2025 6:40 PM	22:11	7.33 pH	12.03 °C	1.07 mS/cm	0.98 mg/L	2.59 NTU	-131.0 mV	24.07 ft	300.00 ml/min

Samples

Sample ID:	Description:
MW10-GW-0325	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 4/1/2025 11:40:46 AM
Project: Neal South MW-11
Operator Name: Thao Larson

Location Name: MW-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 25 ft Top of Screen: 12.1 ft Total Depth: 37.1 ft Initial Depth to Water: 24.92 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 32.8 ft Pump Intake From TOC: 34.8 ft Estimated Total Volume Pumped: 3125 ml Flow Cell Volume: 130 ml Final Flow Rate: 300 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time 1205

Weather Conditions:
Overcast 40°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
4/1/2025 11:40 AM	00:00	7.00 pH	13.08 °C	1.64 mS/cm	7.11 mg/L	3.46 NTU	68.4 mV	24.92 ft	300.00 ml/min
4/1/2025 11:42 AM	02:05	6.97 pH	12.17 °C	1.64 mS/cm	0.79 mg/L	2.36 NTU	65.6 mV	24.94 ft	300.00 ml/min
4/1/2025 11:44 AM	04:10	6.98 pH	12.13 °C	1.64 mS/cm	0.33 mg/L	1.41 NTU	63.1 mV	24.92 ft	300.00 ml/min
4/1/2025 11:47 AM	06:15	6.98 pH	12.13 °C	1.64 mS/cm	0.25 mg/L	1.42 NTU	61.8 mV	24.92 ft	300.00 ml/min
4/1/2025 11:49 AM	08:20	6.99 pH	12.02 °C	1.64 mS/cm	0.22 mg/L	1.39 NTU	60.8 mV	24.92 ft	300.00 ml/min
4/1/2025 11:51 AM	10:25	6.98 pH	12.03 °C	1.64 mS/cm	0.20 mg/L	1.31 NTU	60.3 mV	24.92 ft	300.00 ml/min

Samples

Sample ID:	Description:
MW11-GW-0425	APP III & IV

Low-Flow Test Report:

Test Date / Time: 4/1/2025 10:55:49 AM
Project: Neal South MW-12
Operator Name: Thao Larson

Location Name: MW-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25.8 ft Total Depth: 35.8 ft Initial Depth to Water: 31.15 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 31 ft Pump Intake From TOC: 33 ft Estimated Total Volume Pumped: 3100 ml Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.05 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time 1130

Weather Conditions:
Overcast 39°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
4/1/2025 10:55 AM	00:00	7.10 pH	13.44 °C	1.66 mS/cm	8.38 mg/L	3.29 NTU	34.0 mV	31.15 ft	250.00 ml/min
4/1/2025 10:57 AM	02:04	6.91 pH	12.31 °C	2.05 mS/cm	2.15 mg/L	1.46 NTU	50.0 mV	31.20 ft	250.00 ml/min
4/1/2025 10:59 AM	04:08	6.97 pH	12.01 °C	2.07 mS/cm	0.75 mg/L	1.39 NTU	48.4 mV	31.20 ft	250.00 ml/min
4/1/2025 11:02 AM	06:12	6.97 pH	11.86 °C	2.06 mS/cm	0.50 mg/L	1.58 NTU	49.1 mV	31.20 ft	250.00 ml/min
4/1/2025 11:04 AM	08:16	6.93 pH	11.61 °C	2.05 mS/cm	0.32 mg/L	1.47 NTU	51.4 mV	31.20 ft	250.00 ml/min
4/1/2025 11:06 AM	10:20	6.89 pH	11.59 °C	2.03 mS/cm	0.27 mg/L	1.44 NTU	54.1 mV	31.20 ft	250.00 ml/min
4/1/2025 11:08 AM	12:24	6.84 pH	11.56 °C	2.03 mS/cm	0.25 mg/L	1.35 NTU	56.4 mV	31.20 ft	250.00 ml/min

Samples

Sample ID:	Description:

MW12-GW-0425	APP III & IV

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/1/2025 9:51:12 AM
Project: Neal South MW-13
Operator Name: Thao Larson

Location Name: MW-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25.1 ft Total Depth: 35.1 ft Initial Depth to Water: 29.36 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 30.8 ft Pump Intake From TOC: 32.8 ft Estimated Total Volume Pumped: 1808.333 ml Flow Cell Volume: 130 ml Final Flow Rate: 175 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time 1035

Weather Conditions:
Overcast 30°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
4/1/2025 9:51 AM	00:00	7.04 pH	11.99 °C	1.72 mS/cm	7.56 mg/L	2.80 NTU	22.5 mV	29.36 ft	175.00 ml/min
4/1/2025 9:53 AM	02:04	6.92 pH	11.44 °C	1.85 mS/cm	2.25 mg/L	3.04 NTU	29.4 mV	29.36 ft	175.00 ml/min
4/1/2025 9:55 AM	04:08	6.93 pH	11.14 °C	1.87 mS/cm	1.07 mg/L	2.28 NTU	30.3 mV	29.36 ft	175.00 ml/min
4/1/2025 9:57 AM	06:12	6.95 pH	11.07 °C	1.86 mS/cm	0.78 mg/L	1.70 NTU	30.7 mV	29.37 ft	175.00 ml/min
4/1/2025 9:59 AM	08:16	6.97 pH	10.97 °C	1.86 mS/cm	0.67 mg/L	1.62 NTU	30.7 mV	29.37 ft	175.00 ml/min
4/1/2025 10:01 AM	10:20	6.99 pH	10.89 °C	1.85 mS/cm	0.59 mg/L	1.54 NTU	30.7 mV	29.36 ft	175.00 ml/min

Samples

Sample ID:	Description:
MW13-GW-0425	APP III & IV

Low-Flow Test Report:

Test Date / Time: 3/31/2025 1:16:21 PM
Project: Neal South MW-14
Operator Name: Thao Larson

Location Name: MW-14 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 14.8 ft Total Depth: 29.8 ft Initial Depth to Water: 24.29 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 25.5 ft Pump Intake From TOC: 27.5 ft Estimated Total Volume Pumped: 1500 ml Flow Cell Volume: 130 ml Final Flow Rate: 125 ml/min Final Draw Down: 0.52 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time 1405

Weather Conditions:
Sunny 42°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/31/2025 1:16 PM	00:00	6.81 pH	14.89 °C	1.45 mS/cm	4.09 mg/L	1.63 NTU	42.9 mV	24.29 ft	125.00 ml/min
3/31/2025 1:18 PM	02:00	6.96 pH	13.97 °C	1.45 mS/cm	1.51 mg/L	1.50 NTU	35.9 mV	24.81 ft	125.00 ml/min
3/31/2025 1:20 PM	04:00	6.77 pH	13.19 °C	1.45 mS/cm	0.87 mg/L	1.47 NTU	48.7 mV	24.80 ft	125.00 ml/min
3/31/2025 1:22 PM	06:00	6.62 pH	13.23 °C	1.45 mS/cm	0.68 mg/L	1.55 NTU	58.0 mV	24.82 ft	125.00 ml/min
3/31/2025 1:24 PM	08:00	6.56 pH	13.37 °C	1.45 mS/cm	0.61 mg/L	1.52 NTU	62.4 mV	24.80 ft	125.00 ml/min
3/31/2025 1:26 PM	10:00	6.54 pH	13.52 °C	1.45 mS/cm	0.58 mg/L	1.48 NTU	64.9 mV	24.80 ft	125.00 ml/min
3/31/2025 1:28 PM	12:00	6.53 pH	13.56 °C	1.45 mS/cm	0.57 mg/L	1.62 NTU	66.5 mV	24.81 ft	125.00 ml/min

Samples

Sample ID:	Description:

MW14-GW-0325	APP III & IV

Low-Flow Test Report:

Test Date / Time: 3/31/2025 1:56:40 PM
Project: Neal South MW-15
Operator Name: Paige Richards

Location Name: MW-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 10.2 ft Total Depth: 25.2 ft Initial Depth to Water: 19.5 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 20.9 ft Pump Intake From TOC: 22.9 ft Estimated Total Volume Pumped: 2047.5 ml Flow Cell Volume: 130 ml Final Flow Rate: 175 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time: 1440

Weather Conditions:
Sunny, 45 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/31/2025 1:56 PM	00:00	7.32 pH	14.73 °C	1.27 mS/cm	7.85 mg/L	3.25 NTU	51.6 mV	19.50 ft	175.00 ml/min
3/31/2025 1:58 PM	01:57	6.98 pH	12.91 °C	1.47 mS/cm	1.59 mg/L	2.35 NTU	36.0 mV	19.51 ft	175.00 ml/min
3/31/2025 2:00 PM	03:54	6.94 pH	13.10 °C	1.45 mS/cm	0.48 mg/L	1.99 NTU	27.7 mV	19.51 ft	175.00 ml/min
3/31/2025 2:02 PM	05:51	6.91 pH	12.90 °C	1.44 mS/cm	0.32 mg/L	1.50 NTU	22.2 mV	19.51 ft	175.00 ml/min
3/31/2025 2:04 PM	07:48	6.90 pH	12.77 °C	1.43 mS/cm	0.28 mg/L	1.60 NTU	18.0 mV	19.51 ft	175.00 ml/min
3/31/2025 2:06 PM	09:45	6.89 pH	12.56 °C	1.42 mS/cm	0.26 mg/L	1.28 NTU	15.1 mV	19.51 ft	175.00 ml/min
3/31/2025 2:08 PM	11:42	6.89 pH	12.55 °C	1.42 mS/cm	0.26 mg/L	3.78 NTU	13.0 mV	19.51 ft	175.00 ml/min

Samples

Sample ID:	Description:

MW15-GW-0325	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 3/31/2025 5:58:27 PM
Project: Neal South MW-16
Operator Name: Thao Larson

Location Name: MW-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 18.7 ft Total Depth: 33.7 ft Initial Depth to Water: 26.16 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 29.7 ft Pump Intake From TOC: 31.7 ft Estimated Total Volume Pumped: 3075 ml Flow Cell Volume: 130 ml Final Flow Rate: 300 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time 1850

Weather Conditions:
Sunny 42°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/31/2025 5:58 PM	00:00	7.11 pH	12.18 °C	1.19 mS/cm	6.42 mg/L	2.69 NTU	-22.3 mV	26.16 ft	300.00 ml/min
3/31/2025 6:00 PM	02:03	7.04 pH	12.34 °C	1.21 mS/cm	0.99 mg/L	1.98 NTU	-19.2 mV	26.16 ft	300.00 ml/min
3/31/2025 6:02 PM	04:06	7.02 pH	12.34 °C	1.20 mS/cm	0.43 mg/L	1.34 NTU	-11.9 mV	26.16 ft	300.00 ml/min
3/31/2025 6:04 PM	06:09	7.02 pH	12.28 °C	1.19 mS/cm	0.34 mg/L	1.46 NTU	-6.2 mV	26.16 ft	300.00 ml/min
3/31/2025 6:06 PM	08:12	7.02 pH	12.23 °C	1.18 mS/cm	0.31 mg/L	1.39 NTU	-2.0 mV	26.16 ft	300.00 ml/min
3/31/2025 6:08 PM	10:15	7.01 pH	12.19 °C	1.17 mS/cm	0.31 mg/L	1.42 NTU	1.6 mV	26.16 ft	300.00 ml/min

Samples

Sample ID:	Description:
MW16-GW-0325	APP III & IV
MW16-GW-0325 MS	APP III & IV

MW16-GW-0325 MSD	APP III & IV

Low-Flow Test Report:

Test Date / Time: 3/31/2025 2:19:18 PM
Project: Neal South MW-17
Operator Name: Thao Larson

Location Name: MW-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 13.6 ft Total Depth: 28.6 ft Initial Depth to Water: 22.22 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 24.6 ft Pump Intake From TOC: 26.6 ft Estimated Total Volume Pumped: 2380 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.73 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time 1500

Weather Conditions:
Sunny 42°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/31/2025 2:19 PM	00:00	7.20 pH	15.17 °C	1.20 mS/cm	8.01 mg/L	41.49 NTU	25.2 mV	22.22 ft	200.00 ml/min
3/31/2025 2:21 PM	01:59	7.15 pH	13.70 °C	1.17 mS/cm	2.25 mg/L	10.73 NTU	-102.0 mV	22.32 ft	200.00 ml/min
3/31/2025 2:23 PM	03:58	7.18 pH	13.52 °C	1.17 mS/cm	1.24 mg/L	9.26 NTU	-100.2 mV	22.56 ft	200.00 ml/min
3/31/2025 2:25 PM	05:57	7.12 pH	13.56 °C	1.14 mS/cm	1.07 mg/L	7.67 NTU	-82.6 mV	22.65 ft	150.00 ml/min
3/31/2025 2:27 PM	07:56	7.08 pH	13.52 °C	1.13 mS/cm	1.02 mg/L	4.85 NTU	-68.4 mV	22.73 ft	150.00 ml/min
3/31/2025 2:29 PM	09:55	7.06 pH	13.64 °C	1.13 mS/cm	1.02 mg/L	3.69 NTU	-58.8 mV	22.80 ft	150.00 ml/min
3/31/2025 2:31 PM	11:54	7.06 pH	13.64 °C	1.14 mS/cm	1.03 mg/L	4.35 NTU	-53.1 mV	22.90 ft	150.00 ml/min
3/31/2025 2:33 PM	13:53	7.06 pH	13.70 °C	1.11 mS/cm	1.06 mg/L	2.91 NTU	-49.2 mV	22.95 ft	150.00 ml/min

Samples

Sample ID:	Description:

MW17-GW-0325	APP III & IV

Low-Flow Test Report:

Test Date / Time: 3/31/2025 2:54:21 PM
Project: Neal South MW-18
Operator Name: Paige Richards

Location Name: MW-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 22.69 ft Total Depth: 37.7 ft Initial Depth to Water: 19.94 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 24.5 ft Pump Intake From TOC: 26.5 ft Estimated Total Volume Pumped: 8268.333 ml Flow Cell Volume: 130 ml Final Flow Rate: 125 ml/min Final Draw Down: 0.06 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time: 1635

Weather Conditions:
Sunny, 46 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/31/2025 2:54 PM	00:00	6.93 pH	13.06 °C	1.33 mS/cm	0.64 mg/L	4.92 NTU	-39.8 mV	19.94 ft	400.00 ml/min
3/31/2025 2:56 PM	01:59	6.86 pH	12.77 °C	1.33 mS/cm	0.21 mg/L	67.72 NTU	-63.8 mV	20.00 ft	125.00 ml/min
3/31/2025 2:58 PM	03:58	6.83 pH	12.97 °C	1.33 mS/cm	0.23 mg/L	301.13 NTU	-73.0 mV	20.00 ft	125.00 ml/min
3/31/2025 3:00 PM	05:57	6.82 pH	13.98 °C	1.34 mS/cm	0.23 mg/L	526.05 NTU	-78.9 mV	20.00 ft	125.00 ml/min
3/31/2025 3:02 PM	07:56	6.83 pH	13.91 °C	1.33 mS/cm	0.22 mg/L	133.98 NTU	-82.4 mV	20.00 ft	125.00 ml/min
3/31/2025 3:04 PM	09:55	6.84 pH	13.77 °C	1.32 mS/cm	0.20 mg/L	31.27 NTU	-84.1 mV	20.00 ft	125.00 ml/min
3/31/2025 3:06 PM	11:54	6.85 pH	13.98 °C	1.33 mS/cm	0.19 mg/L	11.53 NTU	-85.3 mV	20.00 ft	125.00 ml/min
3/31/2025 3:08 PM	13:53	6.86 pH	14.04 °C	1.33 mS/cm	0.20 mg/L	12.47 NTU	-86.0 mV	20.00 ft	125.00 ml/min
3/31/2025 3:10 PM	15:52	6.86 pH	14.06 °C	1.33 mS/cm	0.17 mg/L	13.28 NTU	-86.7 mV	20.00 ft	125.00 ml/min
3/31/2025 3:12 PM	17:51	6.88 pH	13.92 °C	1.33 mS/cm	0.17 mg/L	11.53 NTU	-87.6 mV	20.00 ft	125.00 ml/min
3/31/2025 3:14 PM	19:50	6.88 pH	13.86 °C	1.33 mS/cm	0.16 mg/L	14.45 NTU	-87.9 mV	20.00 ft	125.00 ml/min

3/31/2025 3:16 PM	21:49	6.89 pH	13.99 °C	1.34 mS/cm	0.16 mg/L	14.83 NTU	-88.3 mV	20.00 ft	125.00 ml/min
3/31/2025 3:18 PM	23:48	6.90 pH	14.15 °C	1.34 mS/cm	0.16 mg/L	18.57 NTU	-89.1 mV	20.00 ft	125.00 ml/min
3/31/2025 3:20 PM	25:47	6.92 pH	13.96 °C	1.34 mS/cm	0.15 mg/L	11.78 NTU	-90.2 mV	20.00 ft	125.00 ml/min
3/31/2025 3:22 PM	27:46	6.93 pH	14.09 °C	1.33 mS/cm	0.14 mg/L	15.86 NTU	-91.4 mV	20.00 ft	125.00 ml/min
3/31/2025 3:24 PM	29:45	6.95 pH	13.77 °C	1.33 mS/cm	0.14 mg/L	14.54 NTU	-92.4 mV	20.00 ft	125.00 ml/min
3/31/2025 3:26 PM	31:44	6.97 pH	12.76 °C	1.32 mS/cm	0.14 mg/L	13.21 NTU	-92.4 mV	20.00 ft	125.00 ml/min
3/31/2025 3:28 PM	33:43	6.96 pH	13.20 °C	1.33 mS/cm	0.13 mg/L	13.97 NTU	-92.2 mV	20.00 ft	125.00 ml/min
3/31/2025 3:30 PM	35:42	6.96 pH	12.84 °C	1.33 mS/cm	0.13 mg/L	12.08 NTU	-92.1 mV	20.00 ft	125.00 ml/min
3/31/2025 3:32 PM	37:59	6.99 pH	11.95 °C	1.32 mS/cm	2.17 mg/L	12.72 NTU	-89.6 mV	20.00 ft	125.00 ml/min
3/31/2025 3:34 PM	39:58	6.96 pH	12.34 °C	1.33 mS/cm	0.23 mg/L	8.45 NTU	-89.5 mV	20.00 ft	125.00 ml/min
3/31/2025 3:36 PM	41:57	6.94 pH	13.05 °C	1.33 mS/cm	0.16 mg/L	9.81 NTU	-89.8 mV	20.00 ft	125.00 ml/min
3/31/2025 3:38 PM	43:56	6.94 pH	13.15 °C	1.33 mS/cm	0.15 mg/L	10.32 NTU	-90.4 mV	20.00 ft	125.00 ml/min
3/31/2025 3:40 PM	45:55	6.95 pH	13.58 °C	1.33 mS/cm	0.12 mg/L	7.09 NTU	-91.8 mV	20.00 ft	125.00 ml/min
3/31/2025 3:42 PM	47:54	6.95 pH	13.93 °C	1.33 mS/cm	0.12 mg/L	9.02 NTU	-93.1 mV	20.00 ft	125.00 ml/min
3/31/2025 3:44 PM	49:53	6.96 pH	13.38 °C	1.33 mS/cm	0.12 mg/L	6.70 NTU	-93.7 mV	20.00 ft	125.00 ml/min
3/31/2025 3:46 PM	51:52	6.98 pH	12.21 °C	1.32 mS/cm	0.16 mg/L	7.19 NTU	-93.8 mV	20.00 ft	125.00 ml/min
3/31/2025 3:48 PM	53:51	6.98 pH	12.07 °C	1.32 mS/cm	0.13 mg/L	6.57 NTU	-93.3 mV	20.00 ft	125.00 ml/min
3/31/2025 3:50 PM	55:50	6.96 pH	13.10 °C	1.33 mS/cm	0.12 mg/L	6.28 NTU	-92.9 mV	20.00 ft	125.00 ml/min
3/31/2025 3:52 PM	57:49	6.96 pH	12.93 °C	1.33 mS/cm	0.11 mg/L	6.24 NTU	-93.0 mV	20.00 ft	125.00 ml/min
3/31/2025 3:54 PM	59:48	6.97 pH	12.38 °C	1.32 mS/cm	0.12 mg/L	8.73 NTU	-93.0 mV	20.00 ft	125.00 ml/min
3/31/2025 3:56 PM	01:01:47	6.96 pH	12.86 °C	1.33 mS/cm	0.11 mg/L	4.68 NTU	-93.2 mV	20.00 ft	125.00 ml/min

Samples

Sample ID:	Description:
MW18-GW-0325	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 3/31/2025 12:59:43 PM
Project: Neal South MW-19
Operator Name: Paige Richards

Location Name: MW-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 22.88 ft Total Depth: 37.9 ft Initial Depth to Water: 25.09 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 29.6 ft Pump Intake From TOC: 31.6 ft Estimated Total Volume Pumped: 2562.5 ml Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time: 1325

Weather Conditions:
Sunny, 43 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/31/2025 12:59 PM	00:00	6.73 pH	14.05 °C	1.88 mS/cm	2.71 mg/L	2.24 NTU	18.8 mV	25.09 ft	250.00 ml/min
3/31/2025 1:01 PM	02:03	6.63 pH	13.45 °C	1.95 mS/cm	0.34 mg/L	1.64 NTU	4.9 mV	25.09 ft	250.00 ml/min
3/31/2025 1:03 PM	04:06	6.59 pH	13.48 °C	1.95 mS/cm	0.19 mg/L	1.27 NTU	1.1 mV	25.09 ft	250.00 ml/min
3/31/2025 1:05 PM	06:09	6.58 pH	13.49 °C	1.94 mS/cm	0.15 mg/L	0.97 NTU	-0.8 mV	25.09 ft	250.00 ml/min
3/31/2025 1:07 PM	08:12	6.58 pH	13.58 °C	1.93 mS/cm	0.12 mg/L	0.85 NTU	-1.3 mV	25.09 ft	250.00 ml/min
3/31/2025 1:09 PM	10:15	6.58 pH	13.44 °C	1.93 mS/cm	0.11 mg/L	0.67 NTU	-1.7 mV	25.09 ft	250.00 ml/min

Samples

Sample ID:	Description:

MW19-GW-0325	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 3/31/2025 12:02:03 PM
Project: Neal South MW-20
Operator Name: Paige Richards

Location Name: MW-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 18.99 ft Total Depth: 34 ft Initial Depth to Water: 26.04 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 29.2 ft Pump Intake From TOC: 31.2 ft Estimated Total Volume Pumped: 2767.5 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time: 1255

Weather Conditions:
Sunny, 43 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/31/2025 12:02 PM	00:00	7.20 pH	10.64 °C	1.66 mS/cm	8.45 mg/L	49.89 NTU	94.5 mV	26.04 ft	150.00 ml/min
3/31/2025 12:04 PM	02:03	7.06 pH	11.43 °C	1.65 mS/cm	1.65 mg/L	7.72 NTU	-96.4 mV	26.04 ft	150.00 ml/min
3/31/2025 12:06 PM	04:06	7.07 pH	11.75 °C	1.66 mS/cm	0.68 mg/L	1.76 NTU	-112.1 mV	26.04 ft	150.00 ml/min
3/31/2025 12:08 PM	06:09	7.08 pH	11.91 °C	1.65 mS/cm	0.47 mg/L	0.78 NTU	-114.1 mV	26.04 ft	150.00 ml/min
3/31/2025 12:10 PM	08:12	7.08 pH	12.03 °C	1.65 mS/cm	0.41 mg/L	0.98 NTU	-113.9 mV	26.04 ft	150.00 ml/min
3/31/2025 12:12 PM	10:15	7.07 pH	12.28 °C	1.65 mS/cm	0.34 mg/L	0.88 NTU	-112.9 mV	26.04 ft	150.00 ml/min
3/31/2025 12:14 PM	12:18	7.07 pH	12.59 °C	1.65 mS/cm	0.32 mg/L	1.03 NTU	-111.7 mV	26.04 ft	150.00 ml/min
3/31/2025 12:16 PM	14:21	7.06 pH	12.73 °C	1.65 mS/cm	0.29 mg/L	0.44 NTU	-110.4 mV	26.04 ft	150.00 ml/min
3/31/2025 12:18 PM	16:24	7.04 pH	12.89 °C	1.64 mS/cm	0.28 mg/L	0.59 NTU	-109.1 mV	26.04 ft	150.00 ml/min
3/31/2025 12:20 PM	18:27	7.05 pH	12.85 °C	1.64 mS/cm	0.26 mg/L	0.68 NTU	-108.0 mV	26.04 ft	150.00 ml/min

Samples

Sample ID:	Description:
MW20-GW-0325	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 3/31/2025 4:46:13 PM
Project: Neal South MW-21
Operator Name: Paige Richards

Location Name: MW-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 24.96 ft Total Depth: 40 ft Initial Depth to Water: 17.76 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 19.2 ft Pump Intake From TOC: 21.2 ft Estimated Total Volume Pumped: 3641.667 ml Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.71 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time: 1815

Weather Conditions:
Partly cloudy, 46 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/31/2025 4:46 PM	00:00	7.15 pH	14.64 °C	1.19 mS/cm	5.13 mg/L	26.86 NTU	-42.5 mV	17.76 ft	100.00 ml/min
3/31/2025 4:48 PM	01:55	6.94 pH	12.78 °C	1.17 mS/cm	2.68 mg/L	17.34 NTU	-47.8 mV	17.76 ft	100.00 ml/min
3/31/2025 4:50 PM	03:50	6.88 pH	12.20 °C	1.21 mS/cm	0.91 mg/L	16.41 NTU	-62.8 mV	18.03 ft	100.00 ml/min
3/31/2025 4:51 PM	05:45	6.85 pH	12.04 °C	1.21 mS/cm	0.47 mg/L	20.09 NTU	-70.6 mV	18.03 ft	100.00 ml/min
3/31/2025 4:53 PM	07:40	6.83 pH	12.20 °C	1.21 mS/cm	0.35 mg/L	20.58 NTU	-74.7 mV	18.03 ft	100.00 ml/min
3/31/2025 4:55 PM	09:35	6.82 pH	11.97 °C	1.21 mS/cm	0.31 mg/L	22.44 NTU	-77.5 mV	18.03 ft	100.00 ml/min
3/31/2025 4:57 PM	11:30	6.82 pH	11.86 °C	1.21 mS/cm	0.28 mg/L	20.70 NTU	-79.3 mV	18.22 ft	100.00 ml/min
3/31/2025 4:59 PM	13:25	6.81 pH	11.91 °C	1.21 mS/cm	0.27 mg/L	25.89 NTU	-80.6 mV	18.22 ft	100.00 ml/min
3/31/2025 5:01 PM	15:20	6.81 pH	11.79 °C	1.21 mS/cm	0.27 mg/L	28.28 NTU	-81.6 mV	18.22 ft	100.00 ml/min
3/31/2025 5:03 PM	17:15	6.81 pH	11.68 °C	1.21 mS/cm	0.26 mg/L	25.36 NTU	-82.4 mV	18.22 ft	100.00 ml/min
3/31/2025 5:05 PM	19:10	6.81 pH	11.75 °C	1.21 mS/cm	0.26 mg/L	21.91 NTU	-82.9 mV	18.22 ft	100.00 ml/min

3/31/2025 5:07 PM	21:05	6.81 pH	11.84 °C	1.21 mS/cm	0.26 mg/L	18.69 NTU	-83.2 mV	18.22 ft	100.00 ml/min
3/31/2025 5:09 PM	23:00	6.81 pH	11.95 °C	1.21 mS/cm	0.26 mg/L	16.54 NTU	-83.7 mV	18.22 ft	100.00 ml/min
3/31/2025 5:11 PM	24:55	6.81 pH	11.88 °C	1.21 mS/cm	0.26 mg/L	14.81 NTU	-84.2 mV	18.22 ft	100.00 ml/min
3/31/2025 5:13 PM	26:50	6.82 pH	11.52 °C	1.21 mS/cm	0.26 mg/L	13.27 NTU	-84.2 mV	18.42 ft	100.00 ml/min
3/31/2025 5:14 PM	28:45	6.82 pH	11.39 °C	1.20 mS/cm	0.26 mg/L	12.41 NTU	-83.9 mV	18.42 ft	100.00 ml/min
3/31/2025 5:16 PM	30:40	6.82 pH	11.18 °C	1.20 mS/cm	0.26 mg/L	10.43 NTU	-83.4 mV	18.42 ft	100.00 ml/min
3/31/2025 5:18 PM	32:35	6.82 pH	11.19 °C	1.20 mS/cm	0.26 mg/L	8.12 NTU	-82.8 mV	18.42 ft	100.00 ml/min
3/31/2025 5:20 PM	34:30	6.82 pH	11.17 °C	1.20 mS/cm	0.26 mg/L	5.81 NTU	-82.4 mV	18.42 ft	100.00 ml/min
3/31/2025 5:22 PM	36:25	6.82 pH	11.01 °C	1.20 mS/cm	0.26 mg/L	4.72 NTU	-82.1 mV	18.47 ft	100.00 ml/min

Samples

Sample ID:	Description:
MW21-GW-0325	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 3/18/2025 10:28:47 AM
Project: Neal South MW-26
Operator Name: Thao Larson

Location Name: MW-26 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 14.8 ft Total Depth: 29.8 ft Initial Depth to Water: 22.16 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 27.8 ft Pump Intake From TOC: 27.8 ft Estimated Total Volume Pumped: 3432.917 ml Flow Cell Volume: 130 ml Final Flow Rate: 175 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time 1055

Weather Conditions:
Sunny 40°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/18/2025 10:28 AM	00:00	7.08 pH	13.65 °C	1.09 mS/cm	5.74 mg/L	123.88 NTU	-71.4 mV	22.16 ft	175.00 ml/min
3/18/2025 10:30 AM	01:47	6.93 pH	12.90 °C	1.13 mS/cm	2.92 mg/L	21.74 NTU	-42.4 mV	22.20 ft	175.00 ml/min
3/18/2025 10:32 AM	03:34	6.94 pH	12.84 °C	1.13 mS/cm	2.46 mg/L	12.20 NTU	-30.7 mV	22.20 ft	175.00 ml/min
3/18/2025 10:34 AM	05:21	6.94 pH	12.76 °C	1.13 mS/cm	2.33 mg/L	10.23 NTU	-23.3 mV	22.20 ft	175.00 ml/min
3/18/2025 10:35 AM	07:08	6.94 pH	12.75 °C	1.14 mS/cm	2.21 mg/L	13.72 NTU	-18.2 mV	22.20 ft	175.00 ml/min
3/18/2025 10:37 AM	08:55	6.94 pH	12.83 °C	1.14 mS/cm	2.17 mg/L	24.07 NTU	-13.6 mV	22.20 ft	175.00 ml/min
3/18/2025 10:39 AM	10:42	6.94 pH	12.99 °C	1.14 mS/cm	1.91 mg/L	33.63 NTU	-9.7 mV	22.20 ft	175.00 ml/min
3/18/2025 10:41 AM	12:29	7.04 pH	13.03 °C	1.14 mS/cm	8.84 mg/L	16.27 NTU	-9.0 mV	22.20 ft	175.00 ml/min
3/18/2025 10:43 AM	14:16	6.96 pH	12.82 °C	1.15 mS/cm	2.35 mg/L	7.43 NTU	-2.5 mV	22.20 ft	175.00 ml/min
3/18/2025 10:44 AM	16:03	6.96 pH	12.83 °C	1.15 mS/cm	1.72 mg/L	3.89 NTU	0.0 mV	22.20 ft	175.00 ml/min
3/18/2025 10:46 AM	17:50	6.96 pH	12.85 °C	1.15 mS/cm	1.65 mg/L	5.98 NTU	2.7 mV	22.20 ft	175.00 ml/min
3/18/2025 10:48 AM	19:37	6.95 pH	12.94 °C	1.15 mS/cm	1.65 mg/L	5.50 NTU	5.3 mV	22.20 ft	175.00 ml/min

Samples

Sample ID:	Description:
MW26-GW-0325	PME

Low-Flow Test Report:

Test Date / Time: 3/18/2025 9:40:28 AM
Project: Neal South MW-28
Operator Name: Thao Larson

Location Name: MW-28 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 15.1 ft Total Depth: 30.1 ft Initial Depth to Water: 22.06 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 28.1 ft Pump Intake From TOC: 28.1 ft Estimated Total Volume Pumped: 2878.333 ml Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.13 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 1015

Weather Conditions:
Sunny 40°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/18/2025 9:40 AM	00:00	6.69 pH	12.09 °C	1.28 mS/cm	4.45 mg/L	113.50 NTU	17.1 mV	22.06 ft	100.00 ml/min
3/18/2025 9:42 AM	01:48	6.90 pH	11.77 °C	1.27 mS/cm	0.88 mg/L	110.08 NTU	-95.7 mV	22.19 ft	100.00 ml/min
3/18/2025 9:44 AM	03:36	6.93 pH	11.82 °C	1.27 mS/cm	0.62 mg/L	57.78 NTU	-109.0 mV	22.19 ft	100.00 ml/min
3/18/2025 9:45 AM	05:24	6.95 pH	11.75 °C	1.27 mS/cm	0.53 mg/L	48.73 NTU	-112.7 mV	22.19 ft	100.00 ml/min
3/18/2025 9:47 AM	07:11	6.94 pH	11.88 °C	1.27 mS/cm	0.50 mg/L	56.63 NTU	-113.8 mV	22.19 ft	100.00 ml/min
3/18/2025 9:49 AM	08:59	6.96 pH	11.88 °C	1.26 mS/cm	0.43 mg/L	30.65 NTU	-113.9 mV	22.19 ft	100.00 ml/min
3/18/2025 9:51 AM	10:47	6.96 pH	11.95 °C	1.26 mS/cm	0.42 mg/L	37.64 NTU	-114.4 mV	22.19 ft	100.00 ml/min
3/18/2025 9:53 AM	12:35	6.96 pH	11.90 °C	1.26 mS/cm	0.37 mg/L	22.84 NTU	-114.2 mV	22.19 ft	100.00 ml/min
3/18/2025 9:54 AM	14:23	6.96 pH	11.93 °C	1.26 mS/cm	0.34 mg/L	19.35 NTU	-113.1 mV	22.19 ft	100.00 ml/min
3/18/2025 9:56 AM	16:11	6.97 pH	11.92 °C	1.25 mS/cm	0.33 mg/L	14.01 NTU	-111.9 mV	22.19 ft	100.00 ml/min
3/18/2025 9:58 AM	17:59	6.97 pH	11.90 °C	1.25 mS/cm	0.33 mg/L	76.98 NTU	-110.6 mV	22.19 ft	100.00 ml/min
3/18/2025 10:00 AM	19:47	6.97 pH	11.90 °C	1.25 mS/cm	0.31 mg/L	9.57 NTU	-109.6 mV	22.19 ft	100.00 ml/min

3/18/2025 10:02 AM	21:35	6.97 pH	12.06 °C	1.25 mS/cm	0.31 mg/L	9.23 NTU	-109.0 mV	22.19 ft	100.00 ml/min
3/18/2025 10:03 AM	23:23	6.97 pH	12.03 °C	1.24 mS/cm	0.30 mg/L	6.63 NTU	-108.7 mV	22.19 ft	100.00 ml/min
3/18/2025 10:05 AM	25:11	6.97 pH	12.09 °C	1.24 mS/cm	0.28 mg/L	7.48 NTU	-108.8 mV	22.19 ft	100.00 ml/min
3/18/2025 10:07 AM	26:59	6.97 pH	12.07 °C	1.24 mS/cm	0.27 mg/L	6.13 NTU	-108.1 mV	22.19 ft	100.00 ml/min
3/18/2025 10:09 AM	28:47	6.97 pH	11.91 °C	1.24 mS/cm	0.28 mg/L	4.86 NTU	-107.1 mV	22.19 ft	100.00 ml/min

Samples

Sample ID:	Description:
MW28-GW-0325	PME

Low-Flow Test Report:

Test Date / Time: 3/18/2025 8:58:00 AM
Project: Neal South MW-30
Operator Name: Thao Larson

Location Name: MW-30 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 15.1 ft Total Depth: 30.1 ft Initial Depth to Water: 21.9 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 28.1 ft Pump Intake From TOC: 28.1 ft Estimated Total Volume Pumped: 15300 ml Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.09 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time 1000

Weather Conditions:
Sunny 39°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/18/2025 8:58 AM	00:00	6.94 pH	12.79 °C	1.31 mS/cm	6.50 mg/L	364.27 NTU	-128.4 mV	21.90 ft	250.00 ml/min
3/18/2025 8:59 AM	01:48	7.06 pH	12.24 °C	1.32 mS/cm	1.41 mg/L	182.57 NTU	-144.0 mV	21.99 ft	250.00 ml/min
3/18/2025 9:01 AM	03:36	7.17 pH	11.95 °C	1.33 mS/cm	0.96 mg/L	168.19 NTU	-151.8 mV	21.99 ft	250.00 ml/min
3/18/2025 9:03 AM	05:24	7.11 pH	11.91 °C	1.33 mS/cm	0.83 mg/L	156.74 NTU	-150.0 mV	21.99 ft	250.00 ml/min
3/18/2025 9:05 AM	07:12	7.04 pH	11.84 °C	1.33 mS/cm	0.75 mg/L	123.77 NTU	-148.8 mV	21.99 ft	250.00 ml/min
3/18/2025 9:07 AM	09:00	7.01 pH	11.77 °C	1.33 mS/cm	0.69 mg/L	120.27 NTU	-147.5 mV	21.99 ft	250.00 ml/min
3/18/2025 9:08 AM	10:48	7.00 pH	11.71 °C	1.32 mS/cm	0.68 mg/L	113.35 NTU	-147.0 mV	21.99 ft	250.00 ml/min
3/18/2025 9:10 AM	12:36	6.99 pH	11.74 °C	1.32 mS/cm	0.65 mg/L	101.34 NTU	-146.7 mV	21.99 ft	250.00 ml/min
3/18/2025 9:12 AM	14:24	7.00 pH	11.71 °C	1.32 mS/cm	0.61 mg/L	94.25 NTU	-146.9 mV	21.99 ft	250.00 ml/min
3/18/2025 9:14 AM	16:12	7.01 pH	11.69 °C	1.32 mS/cm	0.56 mg/L	94.26 NTU	-146.9 mV	21.99 ft	250.00 ml/min
3/18/2025 9:16 AM	18:00	7.01 pH	11.75 °C	1.32 mS/cm	0.58 mg/L	86.80 NTU	-146.4 mV	21.99 ft	250.00 ml/min
3/18/2025 9:17 AM	19:48	7.02 pH	11.78 °C	1.32 mS/cm	0.53 mg/L	90.34 NTU	-146.6 mV	21.99 ft	250.00 ml/min

3/18/2025 9:19 AM	21:36	7.04 pH	11.81 °C	1.32 mS/cm	2.74 mg/L	450.55 NTU	-141.4 mV	21.99 ft	250.00 ml/min
3/18/2025 9:21 AM	23:24	7.07 pH	11.76 °C	1.33 mS/cm	3.74 mg/L	87.31 NTU	-138.1 mV	21.99 ft	250.00 ml/min
3/18/2025 9:23 AM	25:12	7.03 pH	11.79 °C	1.33 mS/cm	0.85 mg/L	71.15 NTU	-139.1 mV	22.00 ft	250.00 ml/min
3/18/2025 9:25 AM	27:00	7.05 pH	11.87 °C	1.33 mS/cm	0.53 mg/L	60.48 NTU	-142.6 mV	22.00 ft	250.00 ml/min
3/18/2025 9:26 AM	28:48	7.04 pH	11.89 °C	1.33 mS/cm	0.46 mg/L	57.29 NTU	-144.2 mV	22.00 ft	250.00 ml/min
3/18/2025 9:28 AM	30:36	7.07 pH	11.88 °C	1.32 mS/cm	0.45 mg/L	45.47 NTU	-146.6 mV	22.00 ft	250.00 ml/min
3/18/2025 9:30 AM	32:24	7.07 pH	11.92 °C	1.32 mS/cm	0.41 mg/L	45.30 NTU	-148.6 mV	22.00 ft	250.00 ml/min
3/18/2025 9:32 AM	34:12	7.08 pH	11.99 °C	1.32 mS/cm	0.38 mg/L	40.01 NTU	-149.5 mV	22.00 ft	250.00 ml/min
3/18/2025 9:34 AM	36:00	7.09 pH	12.01 °C	1.32 mS/cm	0.38 mg/L	34.47 NTU	-150.7 mV	22.00 ft	250.00 ml/min
3/18/2025 9:35 AM	37:48	7.10 pH	11.99 °C	1.32 mS/cm	0.37 mg/L	31.98 NTU	-151.4 mV	22.00 ft	250.00 ml/min
3/18/2025 9:37 AM	39:36	7.11 pH	12.04 °C	1.32 mS/cm	0.35 mg/L	25.91 NTU	-152.2 mV	22.00 ft	250.00 ml/min
3/18/2025 9:39 AM	41:24	7.09 pH	12.05 °C	1.32 mS/cm	0.34 mg/L	18.90 NTU	-152.6 mV	22.00 ft	250.00 ml/min
3/18/2025 9:41 AM	43:12	7.08 pH	12.08 °C	1.32 mS/cm	0.32 mg/L	23.62 NTU	-152.7 mV	22.00 ft	250.00 ml/min
3/18/2025 9:43 AM	45:00	7.09 pH	12.10 °C	1.32 mS/cm	0.32 mg/L	19.04 NTU	-153.3 mV	22.00 ft	250.00 ml/min
3/18/2025 9:44 AM	46:48	7.12 pH	12.13 °C	1.32 mS/cm	0.31 mg/L	26.23 NTU	-153.8 mV	22.00 ft	250.00 ml/min
3/18/2025 9:46 AM	48:36	7.11 pH	12.17 °C	1.32 mS/cm	0.28 mg/L	12.01 NTU	-153.8 mV	22.00 ft	250.00 ml/min
3/18/2025 9:48 AM	50:24	7.12 pH	12.17 °C	1.32 mS/cm	0.27 mg/L	10.79 NTU	-154.5 mV	21.99 ft	250.00 ml/min
3/18/2025 9:50 AM	52:12	7.12 pH	12.19 °C	1.32 mS/cm	0.27 mg/L	8.88 NTU	-154.3 mV	21.99 ft	250.00 ml/min
3/18/2025 9:52 AM	54:00	7.12 pH	12.28 °C	1.32 mS/cm	0.26 mg/L	11.59 NTU	-154.2 mV	21.99 ft	250.00 ml/min
3/18/2025 9:53 AM	55:48	7.13 pH	12.29 °C	1.31 mS/cm	0.25 mg/L	10.32 NTU	-154.3 mV	21.99 ft	250.00 ml/min
3/18/2025 9:55 AM	57:36	7.13 pH	12.33 °C	1.32 mS/cm	0.25 mg/L	5.89 NTU	-154.0 mV	21.99 ft	250.00 ml/min
3/18/2025 9:57 AM	59:24	7.08 pH	12.33 °C	1.31 mS/cm	0.24 mg/L	6.27 NTU	-154.8 mV	21.99 ft	250.00 ml/min
3/18/2025 9:59 AM	01:01:12	7.13 pH	12.35 °C	1.31 mS/cm	0.23 mg/L	5.18 NTU	-155.0 mV	21.99 ft	250.00 ml/min

Samples

Sample ID:	Description:
MW30-GW-0325	PME

Low-Flow Test Report:

Test Date / Time: 3/18/2025 11:06:26 AM
Project: Neal South MW-32
Operator Name: Thao Larson

Location Name: MW-32 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 14.8 ft Total Depth: 29.8 ft Initial Depth to Water: 22.07 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 27.8 ft Pump Intake From TOC: 27.8 ft Estimated Total Volume Pumped: 12572.5 ml Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.12 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time 1245

Weather Conditions:
Sunny 40°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/18/2025 11:06 AM	00:00	6.84 pH	14.08 °C	1.32 mS/cm	4.52 mg/L	461.70 NTU	-1.0 mV	22.07 ft	150.00 ml/min
3/18/2025 11:08 AM	01:47	6.82 pH	13.31 °C	1.34 mS/cm	2.63 mg/L	243.25 NTU	-7.4 mV	22.19 ft	150.00 ml/min
3/18/2025 11:10 AM	03:34	6.83 pH	13.26 °C	1.35 mS/cm	2.35 mg/L	142.22 NTU	-17.4 mV	22.18 ft	150.00 ml/min
3/18/2025 11:11 AM	05:21	6.83 pH	13.32 °C	1.35 mS/cm	2.21 mg/L	110.32 NTU	-27.5 mV	22.18 ft	150.00 ml/min
3/18/2025 11:13 AM	07:08	6.82 pH	13.28 °C	1.35 mS/cm	2.06 mg/L	146.75 NTU	-35.0 mV	22.19 ft	150.00 ml/min
3/18/2025 11:15 AM	08:55	6.82 pH	13.25 °C	1.35 mS/cm	1.99 mg/L	97.28 NTU	-39.4 mV	22.19 ft	150.00 ml/min
3/18/2025 11:17 AM	10:42	6.82 pH	13.29 °C	1.35 mS/cm	1.89 mg/L	85.59 NTU	-43.1 mV	22.19 ft	150.00 ml/min
3/18/2025 11:18 AM	12:29	6.81 pH	13.36 °C	1.35 mS/cm	1.81 mg/L	53.60 NTU	-44.9 mV	22.19 ft	150.00 ml/min
3/18/2025 11:20 AM	14:16	6.81 pH	13.35 °C	1.35 mS/cm	1.71 mg/L	46.69 NTU	-49.0 mV	22.19 ft	150.00 ml/min
3/18/2025 11:22 AM	16:03	6.82 pH	13.28 °C	1.36 mS/cm	1.60 mg/L	44.48 NTU	-51.4 mV	22.19 ft	150.00 ml/min
3/18/2025 11:24 AM	17:50	6.82 pH	13.25 °C	1.37 mS/cm	1.51 mg/L	44.49 NTU	-53.6 mV	22.19 ft	150.00 ml/min
3/18/2025 11:26 AM	19:37	6.81 pH	13.27 °C	1.37 mS/cm	1.49 mg/L	38.99 NTU	-55.1 mV	22.19 ft	150.00 ml/min

3/18/2025 11:27 AM	21:24	6.81 pH	13.24 °C	1.37 mS/cm	1.45 mg/L	42.92 NTU	-56.6 mV	22.19 ft	150.00 ml/min
3/18/2025 11:29 AM	23:11	6.82 pH	13.22 °C	1.37 mS/cm	1.34 mg/L	38.25 NTU	-56.8 mV	22.19 ft	150.00 ml/min
3/18/2025 11:31 AM	24:58	6.81 pH	13.22 °C	1.37 mS/cm	1.28 mg/L	33.37 NTU	-57.4 mV	22.19 ft	150.00 ml/min
3/18/2025 11:33 AM	26:45	6.81 pH	13.31 °C	1.37 mS/cm	1.25 mg/L	31.63 NTU	-57.9 mV	22.19 ft	150.00 ml/min
3/18/2025 11:34 AM	28:32	6.82 pH	13.19 °C	1.37 mS/cm	1.18 mg/L	29.96 NTU	-58.9 mV	22.19 ft	150.00 ml/min
3/18/2025 11:36 AM	30:19	6.82 pH	13.22 °C	1.38 mS/cm	1.15 mg/L	25.24 NTU	-60.3 mV	22.19 ft	150.00 ml/min
3/18/2025 11:38 AM	32:06	6.81 pH	13.27 °C	1.38 mS/cm	1.10 mg/L	25.45 NTU	-60.6 mV	22.19 ft	150.00 ml/min
3/18/2025 11:40 AM	33:53	6.81 pH	13.13 °C	1.38 mS/cm	1.07 mg/L	30.42 NTU	-60.9 mV	22.19 ft	150.00 ml/min
3/18/2025 11:42 AM	35:40	6.82 pH	13.32 °C	1.39 mS/cm	0.92 mg/L	19.51 NTU	-62.2 mV	22.19 ft	150.00 ml/min
3/18/2025 11:43 AM	37:27	6.81 pH	13.36 °C	1.39 mS/cm	0.87 mg/L	20.96 NTU	-62.5 mV	22.19 ft	150.00 ml/min
3/18/2025 11:45 AM	39:14	7.62 pH	13.86 °C	0.00 mS/cm	10.43 mg/L	25.83 NTU	-112.4 mV	22.19 ft	150.00 ml/min
3/18/2025 11:47 AM	41:01	6.86 pH	13.63 °C	1.34 mS/cm	4.60 mg/L	18.19 NTU	-68.5 mV	22.19 ft	150.00 ml/min
3/18/2025 11:49 AM	42:48	6.84 pH	13.52 °C	1.42 mS/cm	2.92 mg/L	17.32 NTU	-63.3 mV	22.19 ft	150.00 ml/min
3/18/2025 11:51 AM	44:35	6.84 pH	13.59 °C	1.42 mS/cm	2.32 mg/L	19.21 NTU	-62.4 mV	22.19 ft	150.00 ml/min
3/18/2025 11:52 AM	46:22	6.83 pH	13.63 °C	1.42 mS/cm	2.12 mg/L	16.79 NTU	-62.2 mV	22.19 ft	150.00 ml/min
3/18/2025 11:54 AM	48:09	6.83 pH	13.70 °C	1.42 mS/cm	2.00 mg/L	13.53 NTU	-62.2 mV	22.19 ft	150.00 ml/min
3/18/2025 11:56 AM	49:56	6.83 pH	13.65 °C	1.42 mS/cm	1.91 mg/L	16.19 NTU	-62.4 mV	22.19 ft	150.00 ml/min
3/18/2025 11:58 AM	51:43	6.83 pH	13.62 °C	1.42 mS/cm	1.80 mg/L	15.38 NTU	-62.3 mV	22.19 ft	150.00 ml/min
3/18/2025 11:59 AM	53:30	6.83 pH	13.74 °C	1.43 mS/cm	1.71 mg/L	13.85 NTU	-62.5 mV	22.19 ft	150.00 ml/min
3/18/2025 12:01 PM	55:17	6.83 pH	13.83 °C	1.42 mS/cm	1.65 mg/L	11.58 NTU	-63.0 mV	22.19 ft	150.00 ml/min
3/18/2025 12:03 PM	57:04	6.83 pH	13.86 °C	1.43 mS/cm	1.59 mg/L	15.58 NTU	-63.6 mV	22.19 ft	150.00 ml/min
3/18/2025 12:05 PM	58:51	6.83 pH	13.98 °C	1.43 mS/cm	1.53 mg/L	9.89 NTU	-63.6 mV	22.19 ft	150.00 ml/min
3/18/2025 12:07 PM	01:00:38	6.82 pH	14.02 °C	1.43 mS/cm	1.46 mg/L	11.12 NTU	-63.9 mV	22.19 ft	150.00 ml/min
3/18/2025 12:08 PM	01:02:25	6.82 pH	13.96 °C	1.42 mS/cm	1.42 mg/L	11.51 NTU	-63.7 mV	22.19 ft	150.00 ml/min
3/18/2025 12:10 PM	01:04:12	6.82 pH	13.82 °C	1.42 mS/cm	1.36 mg/L	10.18 NTU	-64.3 mV	22.19 ft	150.00 ml/min
3/18/2025 12:12 PM	01:05:59	6.83 pH	13.86 °C	1.42 mS/cm	1.30 mg/L	8.40 NTU	-64.5 mV	22.19 ft	100.00 ml/min
3/18/2025 12:14 PM	01:07:46	6.83 pH	13.79 °C	1.42 mS/cm	1.24 mg/L	12.29 NTU	-64.3 mV	22.19 ft	100.00 ml/min
3/18/2025 12:15 PM	01:09:33	6.83 pH	13.69 °C	1.43 mS/cm	1.17 mg/L	10.71 NTU	-65.1 mV	22.19 ft	100.00 ml/min
3/18/2025 12:17 PM	01:11:20	6.83 pH	13.61 °C	1.43 mS/cm	1.09 mg/L	14.62 NTU	-65.0 mV	22.19 ft	100.00 ml/min

3/18/2025 12:19 PM	01:13:07	6.83 pH	13.70 °C	1.43 mS/cm	1.09 mg/L	11.20 NTU	-65.0 mV	22.19 ft	100.00 ml/min
3/18/2025 12:21 PM	01:14:54	6.83 pH	13.59 °C	1.42 mS/cm	4.12 mg/L	10.25 NTU	-69.2 mV	22.19 ft	100.00 ml/min
3/18/2025 12:23 PM	01:16:41	6.83 pH	13.88 °C	1.42 mS/cm	1.22 mg/L	9.55 NTU	-66.8 mV	22.19 ft	100.00 ml/min
3/18/2025 12:24 PM	01:18:28	6.82 pH	14.04 °C	1.43 mS/cm	0.85 mg/L	9.83 NTU	-66.1 mV	22.19 ft	100.00 ml/min
3/18/2025 12:26 PM	01:20:15	6.82 pH	14.12 °C	1.43 mS/cm	0.75 mg/L	10.02 NTU	-66.4 mV	22.19 ft	100.00 ml/min
3/18/2025 12:28 PM	01:22:02	6.81 pH	14.31 °C	1.43 mS/cm	0.70 mg/L	9.18 NTU	-66.6 mV	22.19 ft	100.00 ml/min
3/18/2025 12:30 PM	01:23:49	6.81 pH	14.36 °C	1.43 mS/cm	0.66 mg/L	9.14 NTU	-66.9 mV	22.19 ft	100.00 ml/min
3/18/2025 12:32 PM	01:25:36	6.80 pH	14.41 °C	1.43 mS/cm	0.63 mg/L	6.72 NTU	-66.6 mV	22.19 ft	100.00 ml/min
3/18/2025 12:33 PM	01:27:23	6.80 pH	14.54 °C	1.43 mS/cm	0.61 mg/L	6.63 NTU	-66.5 mV	22.19 ft	100.00 ml/min
3/18/2025 12:35 PM	01:29:10	6.80 pH	14.69 °C	1.43 mS/cm	0.58 mg/L	9.14 NTU	-66.9 mV	22.19 ft	100.00 ml/min
3/18/2025 12:37 PM	01:30:57	6.80 pH	14.64 °C	1.43 mS/cm	0.55 mg/L	6.52 NTU	-66.8 mV	22.19 ft	100.00 ml/min
3/18/2025 12:39 PM	01:32:44	6.80 pH	14.73 °C	1.43 mS/cm	0.53 mg/L	5.90 NTU	-66.6 mV	22.19 ft	100.00 ml/min

Samples

Sample ID:	Description:
MW32-GW-0325	PME

Low-Flow Test Report:

Test Date / Time: 3/18/2025 12:02:11 PM
Project: Neal South MW-33
Operator Name: Thao Larson

Location Name: MW-33 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 15.1 ft Total Depth: 30.1 ft Initial Depth to Water: 22.15 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 28.1 ft Pump Intake From TOC: 28.1 ft Estimated Total Volume Pumped: 9360 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.15 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 1255

Weather Conditions:
Sunny 50°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/18/2025 12:02 PM	00:00	6.61 pH	16.78 °C	1.58 mS/cm	3.14 mg/L	408.42 NTU	27.4 mV	22.15 ft	200.00 ml/min
3/18/2025 12:03 PM	01:48	6.62 pH	14.69 °C	1.83 mS/cm	1.16 mg/L	210.51 NTU	-8.0 mV	22.46 ft	200.00 ml/min
3/18/2025 12:05 PM	03:36	6.61 pH	15.86 °C	1.84 mS/cm	1.63 mg/L	193.90 NTU	-19.0 mV	22.30 ft	200.00 ml/min
3/18/2025 12:07 PM	05:24	6.63 pH	16.33 °C	1.83 mS/cm	1.84 mg/L	135.71 NTU	-25.0 mV	22.30 ft	200.00 ml/min
3/18/2025 12:09 PM	07:12	6.67 pH	14.22 °C	1.81 mS/cm	4.47 mg/L	40.20 NTU	-35.7 mV	22.30 ft	200.00 ml/min
3/18/2025 12:11 PM	09:00	6.61 pH	14.41 °C	1.83 mS/cm	1.37 mg/L	55.37 NTU	-29.8 mV	22.30 ft	200.00 ml/min
3/18/2025 12:12 PM	10:48	6.61 pH	14.87 °C	1.84 mS/cm	1.29 mg/L	42.43 NTU	-33.1 mV	22.30 ft	200.00 ml/min
3/18/2025 12:14 PM	12:36	6.62 pH	15.15 °C	1.84 mS/cm	1.38 mg/L	36.75 NTU	-40.9 mV	22.30 ft	200.00 ml/min
3/18/2025 12:16 PM	14:24	6.64 pH	15.44 °C	1.84 mS/cm	1.39 mg/L	34.76 NTU	-41.3 mV	22.30 ft	200.00 ml/min
3/18/2025 12:18 PM	16:12	6.64 pH	15.58 °C	1.84 mS/cm	1.38 mg/L	30.76 NTU	-41.6 mV	22.30 ft	200.00 ml/min
3/18/2025 12:20 PM	18:00	6.64 pH	15.61 °C	1.84 mS/cm	1.23 mg/L	30.43 NTU	-40.8 mV	22.30 ft	200.00 ml/min
3/18/2025 12:21 PM	19:48	6.64 pH	15.42 °C	1.82 mS/cm	1.15 mg/L	25.14 NTU	-42.2 mV	22.30 ft	200.00 ml/min

3/18/2025 12:23 PM	21:36	6.64 pH	14.45 °C	1.82 mS/cm	1.10 mg/L	23.88 NTU	-42.3 mV	22.30 ft	200.00 ml/min
3/18/2025 12:25 PM	23:24	6.64 pH	14.29 °C	1.82 mS/cm	0.48 mg/L	13.39 NTU	-42.6 mV	22.30 ft	200.00 ml/min
3/18/2025 12:27 PM	25:12	6.63 pH	14.24 °C	1.82 mS/cm	0.31 mg/L	15.36 NTU	-43.3 mV	22.30 ft	200.00 ml/min
3/18/2025 12:29 PM	27:00	6.63 pH	14.22 °C	1.82 mS/cm	0.30 mg/L	12.41 NTU	-44.1 mV	22.30 ft	200.00 ml/min
3/18/2025 12:30 PM	28:48	6.64 pH	14.16 °C	1.82 mS/cm	0.45 mg/L	13.92 NTU	-44.3 mV	22.30 ft	200.00 ml/min
3/18/2025 12:32 PM	30:36	6.64 pH	14.07 °C	1.82 mS/cm	0.40 mg/L	9.08 NTU	-45.0 mV	22.30 ft	200.00 ml/min
3/18/2025 12:34 PM	32:24	6.64 pH	14.23 °C	1.82 mS/cm	0.32 mg/L	11.57 NTU	-44.9 mV	22.30 ft	200.00 ml/min
3/18/2025 12:36 PM	34:12	6.64 pH	14.15 °C	1.82 mS/cm	0.44 mg/L	9.00 NTU	-45.5 mV	22.30 ft	200.00 ml/min
3/18/2025 12:38 PM	36:00	6.64 pH	14.19 °C	1.82 mS/cm	0.28 mg/L	10.34 NTU	-46.4 mV	22.30 ft	200.00 ml/min
3/18/2025 12:39 PM	37:48	6.64 pH	14.21 °C	1.82 mS/cm	0.25 mg/L	7.85 NTU	-46.5 mV	22.30 ft	200.00 ml/min
3/18/2025 12:41 PM	39:36	6.64 pH	14.04 °C	1.82 mS/cm	0.29 mg/L	7.75 NTU	-46.8 mV	22.30 ft	200.00 ml/min
3/18/2025 12:43 PM	41:24	6.64 pH	14.12 °C	1.82 mS/cm	0.27 mg/L	5.90 NTU	-46.9 mV	22.30 ft	200.00 ml/min
3/18/2025 12:45 PM	43:12	6.64 pH	14.20 °C	1.82 mS/cm	0.25 mg/L	5.74 NTU	-47.5 mV	22.30 ft	200.00 ml/min
3/18/2025 12:47 PM	45:00	6.64 pH	14.28 °C	1.82 mS/cm	0.36 mg/L	5.93 NTU	-47.9 mV	22.30 ft	200.00 ml/min
3/18/2025 12:48 PM	46:48	6.65 pH	14.39 °C	1.81 mS/cm	0.24 mg/L	4.03 NTU	-48.0 mV	22.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW33-GW-0325	PME

Low-Flow Test Report:

Test Date / Time: 3/18/2025 1:54:59 PM
Project: Neal South MW-34
Operator Name: Thao Larson

Location Name: MW-34 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 15.1 ft Total Depth: 30.1 ft Initial Depth to Water: 22.3 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 28.1 ft Pump Intake From TOC: 28.1 ft Estimated Total Volume Pumped: 9360 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time 1445

Weather Conditions:
Sunny 50°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/18/2025 1:54 PM	00:00	6.82 pH	16.63 °C	1.28 mS/cm	5.51 mg/L	62.81 NTU	-25.7 mV	22.30 ft	200.00 ml/min
3/18/2025 1:56 PM	01:48	6.78 pH	15.22 °C	1.30 mS/cm	3.44 mg/L	37.12 NTU	-9.5 mV	22.30 ft	200.00 ml/min
3/18/2025 1:58 PM	03:36	6.83 pH	14.94 °C	1.31 mS/cm	3.09 mg/L	27.59 NTU	-13.1 mV	22.30 ft	200.00 ml/min
3/18/2025 2:00 PM	05:24	6.85 pH	15.02 °C	1.31 mS/cm	2.93 mg/L	20.31 NTU	-22.1 mV	22.30 ft	200.00 ml/min
3/18/2025 2:02 PM	07:12	6.85 pH	15.01 °C	1.32 mS/cm	2.80 mg/L	17.30 NTU	-28.0 mV	22.30 ft	200.00 ml/min
3/18/2025 2:03 PM	09:00	6.85 pH	14.98 °C	1.32 mS/cm	2.72 mg/L	17.17 NTU	-32.3 mV	22.30 ft	200.00 ml/min
3/18/2025 2:05 PM	10:48	6.84 pH	14.94 °C	1.32 mS/cm	2.63 mg/L	16.35 NTU	-36.6 mV	22.30 ft	200.00 ml/min
3/18/2025 2:07 PM	12:36	6.84 pH	15.05 °C	1.32 mS/cm	2.56 mg/L	13.13 NTU	-39.3 mV	22.30 ft	200.00 ml/min
3/18/2025 2:09 PM	14:24	6.83 pH	15.20 °C	1.32 mS/cm	2.56 mg/L	11.93 NTU	-44.4 mV	22.30 ft	200.00 ml/min
3/18/2025 2:11 PM	16:12	6.82 pH	15.16 °C	1.33 mS/cm	2.43 mg/L	10.59 NTU	-48.5 mV	22.30 ft	200.00 ml/min
3/18/2025 2:12 PM	18:00	6.82 pH	15.07 °C	1.33 mS/cm	2.31 mg/L	12.57 NTU	-51.7 mV	22.30 ft	200.00 ml/min
3/18/2025 2:14 PM	19:48	6.81 pH	15.10 °C	1.33 mS/cm	2.24 mg/L	13.26 NTU	-51.8 mV	22.30 ft	200.00 ml/min

3/18/2025 2:16 PM	21:36	6.81 pH	15.27 °C	1.33 mS/cm	2.08 mg/L	11.55 NTU	-52.3 mV	22.30 ft	200.00 ml/min
3/18/2025 2:18 PM	23:24	6.81 pH	15.19 °C	1.33 mS/cm	1.89 mg/L	9.71 NTU	-53.8 mV	22.30 ft	200.00 ml/min
3/18/2025 2:20 PM	25:12	6.82 pH	15.29 °C	1.33 mS/cm	1.80 mg/L	12.76 NTU	-55.4 mV	22.30 ft	200.00 ml/min
3/18/2025 2:21 PM	27:00	6.82 pH	15.37 °C	1.33 mS/cm	1.49 mg/L	11.87 NTU	-56.6 mV	22.30 ft	200.00 ml/min
3/18/2025 2:23 PM	28:48	6.82 pH	15.17 °C	1.33 mS/cm	1.35 mg/L	11.13 NTU	-57.5 mV	22.30 ft	200.00 ml/min
3/18/2025 2:25 PM	30:36	6.83 pH	15.00 °C	1.33 mS/cm	1.23 mg/L	8.47 NTU	-58.4 mV	22.30 ft	200.00 ml/min
3/18/2025 2:27 PM	32:24	6.83 pH	14.95 °C	1.33 mS/cm	1.19 mg/L	9.55 NTU	-58.5 mV	22.30 ft	200.00 ml/min
3/18/2025 2:29 PM	34:12	6.83 pH	14.97 °C	1.33 mS/cm	1.16 mg/L	8.65 NTU	-58.5 mV	22.30 ft	200.00 ml/min
3/18/2025 2:30 PM	36:00	6.83 pH	14.93 °C	1.33 mS/cm	1.12 mg/L	8.63 NTU	-59.1 mV	22.30 ft	200.00 ml/min
3/18/2025 2:32 PM	37:48	6.83 pH	14.92 °C	1.33 mS/cm	1.09 mg/L	6.81 NTU	-59.1 mV	22.30 ft	200.00 ml/min
3/18/2025 2:34 PM	39:36	6.83 pH	14.99 °C	1.33 mS/cm	1.05 mg/L	7.85 NTU	-60.1 mV	22.30 ft	200.00 ml/min
3/18/2025 2:36 PM	41:24	6.83 pH	15.28 °C	1.33 mS/cm	1.03 mg/L	6.99 NTU	-60.9 mV	22.30 ft	200.00 ml/min
3/18/2025 2:38 PM	43:12	6.82 pH	15.42 °C	1.33 mS/cm	1.00 mg/L	6.39 NTU	-60.3 mV	22.30 ft	200.00 ml/min
3/18/2025 2:39 PM	45:00	6.81 pH	15.43 °C	1.33 mS/cm	0.96 mg/L	5.43 NTU	-59.6 mV	22.30 ft	200.00 ml/min
3/18/2025 2:41 PM	46:48	6.82 pH	15.30 °C	1.33 mS/cm	0.93 mg/L	4.70 NTU	-61.3 mV	22.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW34-GW-0325	PME

Low-Flow Test Report:

Test Date / Time: 3/18/2025 1:22:25 PM
Project: Neal South MW-36
Operator Name: Thao Larson

Location Name: MW-36 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 142.2 ft Total Depth: 152.2 ft Initial Depth to Water: 22.11 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 28.1 ft Pump Intake From TOC: 28.1 ft Estimated Total Volume Pumped: 2700 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.05 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time 1345

Weather Conditions:
Sunny 60°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/18/2025 1:22 PM	00:00	6.93 pH	16.86 °C	1.14 mS/cm	5.76 mg/L	88.90 NTU	-14.6 mV	22.11 ft	150.00 ml/min
3/18/2025 1:24 PM	01:48	6.87 pH	14.75 °C	1.16 mS/cm	2.71 mg/L	51.07 NTU	-7.3 mV	22.17 ft	150.00 ml/min
3/18/2025 1:26 PM	03:36	6.95 pH	14.59 °C	1.16 mS/cm	2.19 mg/L	33.73 NTU	-11.2 mV	22.17 ft	150.00 ml/min
3/18/2025 1:27 PM	05:24	6.98 pH	14.64 °C	1.16 mS/cm	1.98 mg/L	25.37 NTU	-19.0 mV	22.17 ft	150.00 ml/min
3/18/2025 1:29 PM	07:12	6.98 pH	14.82 °C	1.16 mS/cm	1.82 mg/L	21.05 NTU	-29.6 mV	22.17 ft	150.00 ml/min
3/18/2025 1:31 PM	09:00	6.96 pH	14.95 °C	1.16 mS/cm	1.67 mg/L	13.43 NTU	-36.3 mV	22.17 ft	150.00 ml/min
3/18/2025 1:33 PM	10:48	6.95 pH	14.90 °C	1.15 mS/cm	1.56 mg/L	10.71 NTU	-43.6 mV	22.16 ft	150.00 ml/min
3/18/2025 1:35 PM	12:36	6.93 pH	14.80 °C	1.15 mS/cm	1.47 mg/L	9.16 NTU	-48.8 mV	22.16 ft	150.00 ml/min
3/18/2025 1:36 PM	14:24	6.94 pH	14.67 °C	1.14 mS/cm	1.38 mg/L	8.03 NTU	-54.8 mV	22.16 ft	150.00 ml/min
3/18/2025 1:38 PM	16:12	6.94 pH	14.78 °C	1.14 mS/cm	1.30 mg/L	5.63 NTU	-59.5 mV	22.16 ft	150.00 ml/min
3/18/2025 1:40 PM	18:00	6.93 pH	14.76 °C	1.14 mS/cm	1.25 mg/L	4.47 NTU	-61.6 mV	22.16 ft	150.00 ml/min

Samples

Sample ID:	Description:
MW36-GW-0325	PME

Low-Flow Test Report:

Test Date / Time: 3/18/2025 2:58:37 PM
Project: Neal South MW-43
Operator Name: Thao Larson

Location Name: MW-43 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 16.4 ft Total Depth: 31.4 ft Initial Depth to Water: 23.9 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 29.4 ft Pump Intake From TOC: 29.4 ft Estimated Total Volume Pumped: 2800 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time 1525

Weather Conditions:
Sunny 50°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/18/2025 2:58 PM	00:00	7.26 pH	17.20 °C	1.34 mS/cm	6.22 mg/L	8.30 NTU	-146.9 mV	23.90 ft	150.00 ml/min
3/18/2025 3:00 PM	01:52	7.39 pH	15.32 °C	1.38 mS/cm	2.65 mg/L	5.24 NTU	-171.5 mV	23.93 ft	150.00 ml/min
3/18/2025 3:02 PM	03:44	7.50 pH	15.31 °C	1.39 mS/cm	2.06 mg/L	4.03 NTU	-180.1 mV	23.93 ft	150.00 ml/min
3/18/2025 3:04 PM	05:36	7.48 pH	15.32 °C	1.41 mS/cm	2.23 mg/L	3.93 NTU	-180.3 mV	23.92 ft	150.00 ml/min
3/18/2025 3:06 PM	07:28	7.44 pH	15.36 °C	1.42 mS/cm	2.24 mg/L	1.89 NTU	-178.5 mV	23.92 ft	150.00 ml/min
3/18/2025 3:07 PM	09:20	7.41 pH	15.31 °C	1.43 mS/cm	1.94 mg/L	2.64 NTU	-175.4 mV	23.92 ft	150.00 ml/min
3/18/2025 3:09 PM	11:12	7.40 pH	15.34 °C	1.43 mS/cm	1.70 mg/L	2.53 NTU	-176.5 mV	23.92 ft	150.00 ml/min
3/18/2025 3:11 PM	13:04	7.39 pH	15.24 °C	1.43 mS/cm	1.36 mg/L	2.34 NTU	-176.2 mV	23.92 ft	150.00 ml/min
3/18/2025 3:13 PM	14:56	7.38 pH	15.13 °C	1.43 mS/cm	1.29 mg/L	1.95 NTU	-176.2 mV	23.92 ft	150.00 ml/min
3/18/2025 3:15 PM	16:48	7.37 pH	15.12 °C	1.43 mS/cm	1.13 mg/L	1.98 NTU	-176.2 mV	23.92 ft	150.00 ml/min
3/18/2025 3:17 PM	18:40	7.37 pH	15.17 °C	1.44 mS/cm	1.13 mg/L	1.73 NTU	-176.4 mV	23.92 ft	150.00 ml/min

Samples

Sample ID:	Description:
MW43-GW-0325	PME

Low-Flow Test Report:

Test Date / Time: 3/18/2025 3:40:00 PM
Project: Neal South MW-49
Operator Name: Thao Larson

Location Name: MW-49 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 11.1 ft Total Depth: 26.1 ft Initial Depth to Water: 18.96 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 24.1 ft Pump Intake From TOC: 24.1 ft Estimated Total Volume Pumped: 17860 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time 1715

Weather Conditions:
Sunny 50°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/18/2025 3:40 PM	00:00	7.18 pH	16.68 °C	1.04 mS/cm	6.65 mg/L	135.32 NTU	-93.1 mV	18.96 ft	200.00 ml/min
3/18/2025 3:41 PM	01:36	7.28 pH	15.04 °C	1.09 mS/cm	2.78 mg/L	119.25 NTU	-123.1 mV	18.98 ft	200.00 ml/min
3/18/2025 3:43 PM	03:12	7.37 pH	14.77 °C	1.09 mS/cm	2.37 mg/L	101.13 NTU	-134.7 mV	18.98 ft	200.00 ml/min
3/18/2025 3:44 PM	04:48	7.39 pH	14.74 °C	1.09 mS/cm	2.05 mg/L	65.72 NTU	-139.2 mV	18.98 ft	200.00 ml/min
3/18/2025 3:46 PM	06:24	7.37 pH	14.73 °C	1.09 mS/cm	1.95 mg/L	47.27 NTU	-139.9 mV	18.98 ft	200.00 ml/min
3/18/2025 3:48 PM	08:00	7.36 pH	14.70 °C	1.09 mS/cm	1.82 mg/L	39.31 NTU	-139.6 mV	18.98 ft	200.00 ml/min
3/18/2025 3:49 PM	09:36	7.34 pH	14.85 °C	1.09 mS/cm	1.73 mg/L	39.53 NTU	-139.6 mV	18.98 ft	200.00 ml/min
3/18/2025 3:51 PM	11:12	7.33 pH	14.88 °C	1.09 mS/cm	1.65 mg/L	33.39 NTU	-138.9 mV	18.98 ft	200.00 ml/min
3/18/2025 3:52 PM	12:48	7.32 pH	14.90 °C	1.09 mS/cm	1.58 mg/L	36.02 NTU	-138.1 mV	18.98 ft	200.00 ml/min
3/18/2025 3:54 PM	14:24	7.31 pH	14.78 °C	1.08 mS/cm	1.50 mg/L	32.51 NTU	-137.5 mV	18.98 ft	200.00 ml/min
3/18/2025 3:56 PM	16:00	7.31 pH	14.66 °C	1.08 mS/cm	1.46 mg/L	31.18 NTU	-137.0 mV	18.98 ft	200.00 ml/min
3/18/2025 3:57 PM	17:36	7.30 pH	14.84 °C	1.08 mS/cm	1.40 mg/L	27.16 NTU	-137.0 mV	18.98 ft	200.00 ml/min

3/18/2025 3:59 PM	19:12	7.29 pH	14.95 °C	1.08 mS/cm	1.36 mg/L	27.16 NTU	-136.4 mV	18.98 ft	200.00 ml/min
3/18/2025 4:00 PM	20:48	7.28 pH	14.83 °C	1.07 mS/cm	1.35 mg/L	27.72 NTU	-135.6 mV	18.98 ft	200.00 ml/min
3/18/2025 4:02 PM	22:24	7.28 pH	14.95 °C	1.07 mS/cm	1.28 mg/L	27.23 NTU	-135.8 mV	18.98 ft	200.00 ml/min
3/18/2025 4:04 PM	24:00	7.28 pH	15.03 °C	1.07 mS/cm	1.23 mg/L	22.41 NTU	-136.0 mV	18.98 ft	200.00 ml/min
3/18/2025 4:05 PM	25:36	7.27 pH	15.05 °C	1.07 mS/cm	1.25 mg/L	26.61 NTU	-136.0 mV	18.98 ft	200.00 ml/min
3/18/2025 4:07 PM	27:12	7.27 pH	14.98 °C	1.07 mS/cm	1.19 mg/L	21.03 NTU	-134.8 mV	18.98 ft	200.00 ml/min
3/18/2025 4:08 PM	28:48	7.27 pH	15.08 °C	1.07 mS/cm	1.30 mg/L	18.02 NTU	-134.7 mV	18.98 ft	200.00 ml/min
3/18/2025 4:10 PM	30:24	7.27 pH	15.16 °C	1.06 mS/cm	1.18 mg/L	19.55 NTU	-133.2 mV	18.98 ft	200.00 ml/min
3/18/2025 4:12 PM	32:00	7.26 pH	15.00 °C	1.06 mS/cm	1.21 mg/L	17.47 NTU	-134.1 mV	18.98 ft	200.00 ml/min
3/18/2025 4:13 PM	33:36	7.27 pH	15.17 °C	1.06 mS/cm	1.37 mg/L	15.28 NTU	-135.1 mV	18.98 ft	200.00 ml/min
3/18/2025 4:15 PM	35:12	7.27 pH	15.31 °C	1.06 mS/cm	1.14 mg/L	15.08 NTU	-135.6 mV	18.98 ft	200.00 ml/min
3/18/2025 4:16 PM	36:48	7.26 pH	15.22 °C	1.06 mS/cm	1.62 mg/L	14.74 NTU	-135.4 mV	18.98 ft	200.00 ml/min
3/18/2025 4:18 PM	38:24	7.26 pH	15.15 °C	1.06 mS/cm	1.25 mg/L	20.53 NTU	-135.7 mV	18.98 ft	200.00 ml/min
3/18/2025 4:20 PM	40:00	7.26 pH	14.73 °C	1.05 mS/cm	1.00 mg/L	12.31 NTU	-135.0 mV	18.98 ft	200.00 ml/min
3/18/2025 4:21 PM	41:36	7.27 pH	14.58 °C	1.06 mS/cm	0.96 mg/L	10.73 NTU	-135.7 mV	18.98 ft	200.00 ml/min
3/18/2025 4:23 PM	43:12	7.28 pH	14.62 °C	1.06 mS/cm	1.10 mg/L	15.98 NTU	-135.4 mV	18.98 ft	200.00 ml/min
3/18/2025 4:24 PM	44:48	7.28 pH	15.25 °C	1.07 mS/cm	1.30 mg/L	15.10 NTU	-136.1 mV	18.98 ft	200.00 ml/min
3/18/2025 4:26 PM	46:24	7.26 pH	16.47 °C	1.07 mS/cm	1.28 mg/L	11.85 NTU	-135.5 mV	18.98 ft	200.00 ml/min
3/18/2025 4:28 PM	48:00	7.25 pH	16.93 °C	1.07 mS/cm	1.07 mg/L	14.13 NTU	-134.4 mV	18.98 ft	200.00 ml/min
3/18/2025 4:29 PM	49:36	7.23 pH	17.68 °C	1.07 mS/cm	1.03 mg/L	11.83 NTU	-133.7 mV	18.98 ft	200.00 ml/min
3/18/2025 4:31 PM	51:12	7.22 pH	18.54 °C	1.07 mS/cm	1.03 mg/L	12.25 NTU	-133.0 mV	18.98 ft	200.00 ml/min
3/18/2025 4:32 PM	52:48	7.20 pH	19.31 °C	1.07 mS/cm	1.02 mg/L	10.96 NTU	-132.4 mV	18.98 ft	200.00 ml/min
3/18/2025 4:34 PM	54:24	7.19 pH	19.98 °C	1.07 mS/cm	0.99 mg/L	11.10 NTU	-132.0 mV	18.98 ft	200.00 ml/min
3/18/2025 4:36 PM	56:00	7.18 pH	20.64 °C	1.08 mS/cm	0.97 mg/L	11.05 NTU	-131.7 mV	18.98 ft	200.00 ml/min
3/18/2025 4:37 PM	57:36	7.17 pH	21.27 °C	1.08 mS/cm	0.95 mg/L	10.99 NTU	-131.7 mV	18.98 ft	200.00 ml/min
3/18/2025 4:39 PM	59:12	7.20 pH	20.03 °C	1.06 mS/cm	1.16 mg/L	35.44 NTU	-134.6 mV	18.98 ft	200.00 ml/min
3/18/2025 4:40 PM	01:00:48	7.22 pH	15.18 °C	1.03 mS/cm	3.16 mg/L	17.26 NTU	-132.6 mV	18.98 ft	200.00 ml/min
3/18/2025 4:42 PM	01:02:24	7.26 pH	15.26 °C	1.05 mS/cm	0.60 mg/L	9.77 NTU	-134.7 mV	18.98 ft	200.00 ml/min
3/18/2025 4:44 PM	01:04:00	7.31 pH	15.24 °C	1.05 mS/cm	0.40 mg/L	10.76 NTU	-137.8 mV	18.98 ft	200.00 ml/min

3/18/2025 4:45 PM	01:05:36	7.32 pH	15.16 °C	1.05 mS/cm	0.36 mg/L	9.69 NTU	-139.7 mV	18.98 ft	200.00 ml/min
3/18/2025 4:47 PM	01:07:12	7.33 pH	15.02 °C	1.05 mS/cm	0.34 mg/L	9.97 NTU	-141.0 mV	18.98 ft	200.00 ml/min
3/18/2025 4:48 PM	01:08:48	7.33 pH	14.75 °C	1.05 mS/cm	0.33 mg/L	8.45 NTU	-141.7 mV	18.98 ft	200.00 ml/min
3/18/2025 4:50 PM	01:10:24	7.34 pH	14.69 °C	1.05 mS/cm	0.32 mg/L	8.41 NTU	-142.9 mV	18.98 ft	200.00 ml/min
3/18/2025 4:52 PM	01:12:00	7.32 pH	14.76 °C	1.05 mS/cm	0.32 mg/L	7.38 NTU	-141.9 mV	18.98 ft	200.00 ml/min
3/18/2025 4:53 PM	01:13:36	7.32 pH	14.85 °C	1.05 mS/cm	0.31 mg/L	9.63 NTU	-142.6 mV	18.98 ft	200.00 ml/min
3/18/2025 4:55 PM	01:15:12	7.31 pH	14.86 °C	1.04 mS/cm	0.30 mg/L	6.85 NTU	-142.4 mV	18.98 ft	200.00 ml/min
3/18/2025 4:56 PM	01:16:48	7.30 pH	14.80 °C	1.04 mS/cm	0.30 mg/L	7.66 NTU	-142.0 mV	18.98 ft	200.00 ml/min
3/18/2025 4:58 PM	01:18:24	7.30 pH	14.64 °C	1.04 mS/cm	0.29 mg/L	6.23 NTU	-141.5 mV	18.98 ft	200.00 ml/min
3/18/2025 5:00 PM	01:20:00	7.30 pH	14.52 °C	1.04 mS/cm	0.29 mg/L	6.49 NTU	-141.3 mV	18.98 ft	200.00 ml/min
3/18/2025 5:01 PM	01:21:36	7.31 pH	14.66 °C	1.04 mS/cm	0.28 mg/L	7.90 NTU	-142.8 mV	18.98 ft	200.00 ml/min
3/18/2025 5:03 PM	01:23:12	7.38 pH	14.46 °C	1.04 mS/cm	6.00 mg/L	11.53 NTU	-140.9 mV	18.98 ft	200.00 ml/min
3/18/2025 5:04 PM	01:24:48	7.30 pH	14.43 °C	1.04 mS/cm	1.37 mg/L	5.97 NTU	-135.8 mV	18.98 ft	200.00 ml/min
3/18/2025 5:06 PM	01:26:24	7.27 pH	14.60 °C	1.04 mS/cm	0.64 mg/L	5.36 NTU	-134.8 mV	18.98 ft	200.00 ml/min
3/18/2025 5:08 PM	01:28:00	7.26 pH	14.66 °C	1.04 mS/cm	0.53 mg/L	4.55 NTU	-134.7 mV	18.98 ft	200.00 ml/min
3/18/2025 5:09 PM	01:29:18	7.26 pH	14.60 °C	1.04 mS/cm	0.51 mg/L	4.64 NTU	-135.4 mV	18.98 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW49-GW-0325	PME

Low-Flow Test Report:

Test Date / Time: 3/18/2025 4:14:13 PM
Project: Neal South MW-50
Operator Name: Paige Richards

Location Name: MW-50 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 11.2 ft Total Depth: 26.2 ft Initial Depth to Water: 16.51 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 24.2 ft Pump Intake From TOC: 24.2 ft Estimated Total Volume Pumped: 4958.333 ml Flow Cell Volume: 130 ml Final Flow Rate: 175 ml/min Final Draw Down: 0.61 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time: 1655

Weather Conditions:
Sunny, windy, 62 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/18/2025 4:14 PM	00:00	6.93 pH	14.15 °C	1.77 mS/cm	3.61 mg/L	189.60 NTU	-5.9 mV	16.51 ft	175.00 ml/min
3/18/2025 4:15 PM	01:37	6.87 pH	13.82 °C	1.80 mS/cm	0.35 mg/L	152.77 NTU	-46.9 mV	17.09 ft	175.00 ml/min
3/18/2025 4:17 PM	03:14	6.86 pH	13.41 °C	1.80 mS/cm	0.17 mg/L	60.26 NTU	-55.1 mV	17.09 ft	175.00 ml/min
3/18/2025 4:19 PM	04:51	6.85 pH	13.40 °C	1.80 mS/cm	0.21 mg/L	196.70 NTU	-59.3 mV	17.09 ft	175.00 ml/min
3/18/2025 4:20 PM	06:28	6.85 pH	13.34 °C	1.79 mS/cm	0.27 mg/L	20.40 NTU	-61.6 mV	17.09 ft	175.00 ml/min
3/18/2025 4:22 PM	08:05	6.85 pH	13.17 °C	1.80 mS/cm	0.24 mg/L	17.29 NTU	-63.8 mV	17.09 ft	175.00 ml/min
3/18/2025 4:23 PM	09:42	6.85 pH	13.45 °C	1.79 mS/cm	0.22 mg/L	9.93 NTU	-66.1 mV	17.12 ft	175.00 ml/min
3/18/2025 4:25 PM	11:19	6.86 pH	13.27 °C	1.81 mS/cm	0.21 mg/L	7.02 NTU	-67.6 mV	17.12 ft	175.00 ml/min
3/18/2025 4:27 PM	12:56	6.86 pH	13.39 °C	1.80 mS/cm	0.16 mg/L	14.92 NTU	-69.9 mV	17.12 ft	175.00 ml/min
3/18/2025 4:28 PM	14:33	6.86 pH	13.47 °C	1.80 mS/cm	0.16 mg/L	6.98 NTU	-70.9 mV	17.12 ft	175.00 ml/min
3/18/2025 4:30 PM	16:10	6.86 pH	13.43 °C	1.80 mS/cm	0.14 mg/L	7.36 NTU	-72.1 mV	17.12 ft	175.00 ml/min
3/18/2025 4:32 PM	17:47	6.87 pH	13.60 °C	1.80 mS/cm	0.13 mg/L	7.64 NTU	-73.0 mV	17.12 ft	175.00 ml/min

3/18/2025 4:33 PM	19:24	6.87 pH	13.59 °C	1.80 mS/cm	0.11 mg/L	8.79 NTU	-73.7 mV	17.12 ft	175.00 ml/min
3/18/2025 4:35 PM	21:01	6.88 pH	13.58 °C	1.81 mS/cm	0.09 mg/L	8.88 NTU	-74.7 mV	17.12 ft	175.00 ml/min
3/18/2025 4:37 PM	23:29	6.89 pH	13.15 °C	1.82 mS/cm	0.77 mg/L	2.74 NTU	-75.3 mV	17.12 ft	175.00 ml/min
3/18/2025 4:39 PM	25:06	6.87 pH	12.99 °C	1.82 mS/cm	0.10 mg/L	0.93 NTU	-73.4 mV	17.12 ft	175.00 ml/min
3/18/2025 4:40 PM	26:43	6.87 pH	13.03 °C	1.82 mS/cm	0.07 mg/L	1.05 NTU	-73.4 mV	17.12 ft	175.00 ml/min
3/18/2025 4:42 PM	28:20	6.87 pH	13.07 °C	1.82 mS/cm	0.05 mg/L	1.35 NTU	-73.6 mV	17.12 ft	175.00 ml/min

Samples

Sample ID:	Description:
MW50-GW-0325	250mL plastic w/ nitric x1 250mL plastic unpreserved x1
DP02-GW-0325	

Low-Flow Test Report:

Test Date / Time: 3/18/2025 3:31:00 PM
Project: Neal South MW-51
Operator Name: Paige Richards

Location Name: MW-51 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 10.3 ft Total Depth: 25.3 ft Initial Depth to Water: 18.77 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 23.3 ft Pump Intake From TOC: 23.3 ft Estimated Total Volume Pumped: 4660.833 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.1 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time: 1610

Weather Conditions:
Sunny, windy, 61 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/18/2025 3:31 PM	00:00	6.80 pH	13.63 °C	1.55 mS/cm	0.35 mg/L	144.79 NTU	3.1 mV	18.77 ft	325.00 ml/min
3/18/2025 3:32 PM	01:34	6.72 pH	13.66 °C	1.55 mS/cm	0.27 mg/L	103.11 NTU	0.2 mV	19.32 ft	225.00 ml/min
3/18/2025 3:34 PM	03:08	6.72 pH	13.56 °C	1.55 mS/cm	0.22 mg/L	69.65 NTU	0.2 mV	19.32 ft	225.00 ml/min
3/18/2025 3:35 PM	04:42	6.71 pH	13.50 °C	1.55 mS/cm	0.20 mg/L	30.66 NTU	0.6 mV	19.32 ft	225.00 ml/min
3/18/2025 3:37 PM	06:16	6.71 pH	13.46 °C	1.55 mS/cm	0.19 mg/L	20.44 NTU	1.1 mV	19.32 ft	225.00 ml/min
3/18/2025 3:38 PM	07:50	6.71 pH	13.36 °C	1.55 mS/cm	0.19 mg/L	10.59 NTU	2.2 mV	19.60 ft	225.00 ml/min
3/18/2025 3:40 PM	09:24	6.71 pH	13.35 °C	1.56 mS/cm	0.18 mg/L	9.94 NTU	2.9 mV	19.60 ft	225.00 ml/min
3/18/2025 3:41 PM	10:58	6.71 pH	13.36 °C	1.55 mS/cm	0.16 mg/L	8.62 NTU	3.5 mV	19.60 ft	225.00 ml/min
3/18/2025 3:43 PM	12:32	6.71 pH	13.40 °C	1.55 mS/cm	0.15 mg/L	7.94 NTU	4.1 mV	19.60 ft	225.00 ml/min
3/18/2025 3:45 PM	14:06	6.71 pH	13.51 °C	1.55 mS/cm	0.15 mg/L	6.75 NTU	4.6 mV	19.81 ft	225.00 ml/min
3/18/2025 3:46 PM	15:40	6.71 pH	13.44 °C	1.56 mS/cm	0.15 mg/L	6.36 NTU	5.1 mV	19.81 ft	225.00 ml/min
3/18/2025 3:48 PM	17:14	6.71 pH	13.64 °C	1.56 mS/cm	0.15 mg/L	6.32 NTU	4.7 mV	19.81 ft	200.00 ml/min

3/18/2025 3:49 PM	18:48	6.72 pH	13.86 °C	1.56 mS/cm	0.16 mg/L	3.16 NTU	4.8 mV	19.87 ft	200.00 ml/min
3/18/2025 3:51 PM	20:22	6.72 pH	13.83 °C	1.55 mS/cm	0.16 mg/L	4.93 NTU	4.9 mV	19.87 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW51-GW-0325	250mL plastic w/ nitric x1 250mL plastic unpreserved x1
MS/MSD	

Low-Flow Test Report:

Test Date / Time: 3/18/2025 5:22:11 PM
Project: Neal South MW-52
Operator Name: Thao Larson

Location Name: MW-52 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 7.6 ft Total Depth: 25.6 ft Initial Depth to Water: 17.16 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 23.6 ft Pump Intake From TOC: 23.6 ft Estimated Total Volume Pumped: 7175 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.98 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time 1815

Weather Conditions:
Sunny 50°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/18/2025 5:22 PM	00:00	6.99 pH	16.73 °C	1.35 mS/cm	5.73 mg/L	191.37 NTU	-54.3 mV	17.16 ft	150.00 ml/min
3/18/2025 5:23 PM	01:35	6.93 pH	14.23 °C	1.47 mS/cm	3.73 mg/L	160.01 NTU	-35.0 mV	17.62 ft	150.00 ml/min
3/18/2025 5:30 PM	07:49	6.96 pH	16.78 °C	1.48 mS/cm	3.66 mg/L	134.28 NTU	-18.6 mV	17.51 ft	150.00 ml/min
3/18/2025 5:31 PM	09:24	6.93 pH	14.23 °C	1.46 mS/cm	2.84 mg/L	115.90 NTU	-12.8 mV	17.51 ft	150.00 ml/min
3/18/2025 5:33 PM	10:59	6.97 pH	13.55 °C	1.48 mS/cm	2.52 mg/L	84.45 NTU	-11.8 mV	17.88 ft	150.00 ml/min
3/18/2025 5:34 PM	12:34	6.97 pH	13.38 °C	1.48 mS/cm	2.43 mg/L	55.88 NTU	-9.3 mV	17.88 ft	150.00 ml/min
3/18/2025 5:36 PM	14:09	6.96 pH	13.23 °C	1.48 mS/cm	2.42 mg/L	37.56 NTU	-6.4 mV	17.88 ft	150.00 ml/min
3/18/2025 5:37 PM	15:44	6.95 pH	13.25 °C	1.49 mS/cm	2.34 mg/L	29.79 NTU	-3.8 mV	17.88 ft	150.00 ml/min
3/18/2025 5:39 PM	17:19	6.94 pH	13.21 °C	1.49 mS/cm	2.24 mg/L	21.88 NTU	-1.6 mV	17.93 ft	150.00 ml/min
3/18/2025 5:41 PM	18:54	6.93 pH	13.22 °C	1.49 mS/cm	2.11 mg/L	18.72 NTU	0.3 mV	17.93 ft	150.00 ml/min
3/18/2025 5:43 PM	21:16	6.94 pH	13.79 °C	1.50 mS/cm	2.04 mg/L	28.32 NTU	2.4 mV	17.96 ft	150.00 ml/min
3/18/2025 5:45 PM	22:51	6.98 pH	13.72 °C	1.43 mS/cm	6.50 mg/L	28.91 NTU	-0.0 mV	18.03 ft	150.00 ml/min

3/18/2025 5:46 PM	24:26	6.95 pH	13.39 °C	1.49 mS/cm	2.95 mg/L	19.23 NTU	4.0 mV	18.03 ft	150.00 ml/min
3/18/2025 5:48 PM	26:06	6.93 pH	13.19 °C	1.49 mS/cm	1.97 mg/L	13.86 NTU	5.5 mV	18.05 ft	150.00 ml/min
3/18/2025 5:49 PM	27:41	7.07 pH	12.96 °C	1.49 mS/cm	7.35 mg/L	54.63 NTU	0.9 mV	18.12 ft	150.00 ml/min
3/18/2025 5:51 PM	29:16	6.93 pH	13.14 °C	1.50 mS/cm	2.23 mg/L	35.25 NTU	8.2 mV	18.14 ft	150.00 ml/min
3/18/2025 5:53 PM	30:51	6.93 pH	13.31 °C	1.50 mS/cm	1.42 mg/L	26.15 NTU	9.4 mV	18.14 ft	150.00 ml/min
3/18/2025 5:55 PM	33:18	6.88 pH	13.27 °C	1.50 mS/cm	1.19 mg/L	14.41 NTU	10.8 mV	18.13 ft	150.00 ml/min
3/18/2025 5:57 PM	34:53	6.87 pH	13.22 °C	1.50 mS/cm	1.11 mg/L	11.83 NTU	11.1 mV	18.13 ft	150.00 ml/min
3/18/2025 5:58 PM	36:45	6.87 pH	13.22 °C	1.50 mS/cm	1.09 mg/L	16.04 NTU	11.2 mV	18.13 ft	150.00 ml/min
3/18/2025 6:00 PM	38:20	6.87 pH	13.27 °C	1.50 mS/cm	1.10 mg/L	9.34 NTU	10.6 mV	18.13 ft	150.00 ml/min
3/18/2025 6:02 PM	39:55	6.88 pH	13.21 °C	1.50 mS/cm	1.09 mg/L	8.32 NTU	9.6 mV	18.13 ft	150.00 ml/min
3/18/2025 6:03 PM	41:30	6.88 pH	13.19 °C	1.50 mS/cm	1.04 mg/L	6.46 NTU	8.5 mV	18.13 ft	150.00 ml/min
3/18/2025 6:05 PM	43:05	6.89 pH	13.23 °C	1.50 mS/cm	1.02 mg/L	6.00 NTU	7.5 mV	18.16 ft	150.00 ml/min
3/18/2025 6:06 PM	44:40	6.89 pH	13.26 °C	1.50 mS/cm	1.03 mg/L	7.64 NTU	6.3 mV	18.16 ft	150.00 ml/min
3/18/2025 6:08 PM	46:15	6.90 pH	13.13 °C	1.50 mS/cm	1.07 mg/L	5.42 NTU	5.1 mV	18.16 ft	150.00 ml/min
3/18/2025 6:10 PM	47:50	6.91 pH	13.14 °C	1.50 mS/cm	1.18 mg/L	3.61 NTU	3.6 mV	18.14 ft	150.00 ml/min

Samples

Sample ID:	Description:
MW52-GW-0325	PME

Low-Flow Test Report:

Test Date / Time: 3/18/2025 5:04:06 PM
Project: Neal South MW-53
Operator Name: Paige Richards

Location Name: MW-53 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 8.2 ft Total Depth: 26.1 ft Initial Depth to Water: 17.2 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 24.1 ft Pump Intake From TOC: 24.1 ft Estimated Total Volume Pumped: 3040 ml Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.05 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time: 1730

Weather Conditions:
Sunny, windy, 61 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
3/18/2025 5:04 PM	00:00	7.05 pH	12.63 °C	1.31 mS/cm	1.31 mg/L	1.45 NTU	-16.4 mV	17.20 ft	400.00 ml/min
3/18/2025 5:05 PM	01:36	7.02 pH	12.81 °C	1.32 mS/cm	1.21 mg/L	1.01 NTU	-11.9 mV	17.25 ft	250.00 ml/min
3/18/2025 5:07 PM	03:12	7.02 pH	12.77 °C	1.31 mS/cm	1.26 mg/L	0.68 NTU	-8.7 mV	17.25 ft	250.00 ml/min
3/18/2025 5:08 PM	04:48	7.01 pH	12.63 °C	1.32 mS/cm	1.24 mg/L	1.21 NTU	-6.3 mV	17.25 ft	250.00 ml/min
3/18/2025 5:10 PM	06:24	7.01 pH	12.75 °C	1.32 mS/cm	1.23 mg/L	0.75 NTU	-4.4 mV	17.25 ft	250.00 ml/min
3/18/2025 5:12 PM	08:00	7.01 pH	12.74 °C	1.32 mS/cm	1.22 mg/L	0.83 NTU	-2.7 mV	17.25 ft	250.00 ml/min
3/18/2025 5:13 PM	09:36	7.01 pH	12.69 °C	1.32 mS/cm	1.21 mg/L	1.14 NTU	-1.4 mV	17.25 ft	250.00 ml/min
3/18/2025 5:15 PM	11:12	7.01 pH	12.68 °C	1.32 mS/cm	1.20 mg/L	0.81 NTU	-0.2 mV	17.25 ft	250.00 ml/min

Samples

Sample ID:	Description:

MW53-GW-0325	250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 9/3/2025 8:54:43 AM
Project: Neal South MW-2
Operator Name: Paige Richards

Location Name: MW-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 15.3 ft Total Depth: 30.3 ft Initial Depth to Water: 20.68 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 26 ft Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 6600 ml Flow Cell Volume: 130 ml Final Flow Rate: 300 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time: 0945

Water visually clear

Weather Conditions:
Cloudy, 64 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 8:54 AM	00:00	6.74 pH	14.96 °C	1.27 mS/cm	5.39 mg/L	85.60 NTU	35.7 mV	20.68 ft	300.00 ml/min
9/3/2025 8:56 AM	02:00	6.93 pH	13.46 °C	1.28 mS/cm	0.37 mg/L	44.95 NTU	-52.3 mV	20.68 ft	300.00 ml/min
9/3/2025 8:58 AM	04:00	6.97 pH	13.21 °C	1.28 mS/cm	0.09 mg/L	32.27 NTU	-71.2 mV	20.68 ft	300.00 ml/min
9/3/2025 9:00 AM	06:00	6.99 pH	13.14 °C	1.27 mS/cm	0.05 mg/L	24.67 NTU	-79.1 mV	20.68 ft	300.00 ml/min
9/3/2025 9:02 AM	08:00	6.99 pH	13.00 °C	1.27 mS/cm	0.03 mg/L	17.51 NTU	-82.5 mV	20.68 ft	300.00 ml/min
9/3/2025 9:04 AM	10:00	6.99 pH	12.94 °C	1.26 mS/cm	0.02 mg/L	14.26 NTU	-84.9 mV	20.68 ft	300.00 ml/min
9/3/2025 9:06 AM	12:00	6.99 pH	12.90 °C	1.27 mS/cm	0.02 mg/L	12.85 NTU	-85.8 mV	20.68 ft	300.00 ml/min
9/3/2025 9:08 AM	14:00	6.99 pH	12.93 °C	1.26 mS/cm	0.02 mg/L	10.50 NTU	-87.1 mV	20.68 ft	300.00 ml/min
9/3/2025 9:10 AM	16:00	6.99 pH	12.91 °C	1.26 mS/cm	0.02 mg/L	6.94 NTU	-87.4 mV	20.68 ft	300.00 ml/min
9/3/2025 9:12 AM	18:00	6.98 pH	12.86 °C	1.26 mS/cm	0.02 mg/L	5.17 NTU	-87.4 mV	20.68 ft	300.00 ml/min

9/3/2025 9:14 AM	20:00	6.98 pH	12.86 °C	1.26 mS/cm	0.01 mg/L	5.34 NTU	-87.8 mV	20.68 ft	300.00 ml/min
9/3/2025 9:16 AM	22:00	6.98 pH	12.88 °C	1.26 mS/cm	0.01 mg/L	4.65 NTU	-87.7 mV	20.68 ft	300.00 ml/min

Samples

Sample ID:	Description:
MW02-GW-0925	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1
DP01-GW-0925	

Low-Flow Test Report:

Test Date / Time: 9/4/2025 9:56:15 AM
Project: Neal South MW-4
Operator Name: Paige Richards

Location Name: MW-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 11.7 ft Total Depth: 26.7 ft Initial Depth to Water: 18.07 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 22.4 ft Pump Intake From TOC: 24.4 ft Estimated Total Volume Pumped: 2360 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time: 1020

Water visually clear, trace sediment

Weather Conditions:
Partly cloudy, 58 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/4/2025 9:56 AM	00:00	6.78 pH	14.30 °C	0.85 mS/cm	7.48 mg/L	20.06 NTU	53.2 mV	18.07 ft	200.00 ml/min
9/4/2025 9:58 AM	01:58	6.92 pH	12.29 °C	0.82 mS/cm	1.06 mg/L	8.50 NTU	4.4 mV	18.07 ft	200.00 ml/min
9/4/2025 10:00 AM	03:56	6.94 pH	12.25 °C	0.82 mS/cm	0.50 mg/L	9.56 NTU	-3.8 mV	18.08 ft	200.00 ml/min
9/4/2025 10:02 AM	05:54	6.95 pH	12.13 °C	0.82 mS/cm	0.45 mg/L	4.65 NTU	-9.4 mV	18.08 ft	200.00 ml/min
9/4/2025 10:04 AM	07:52	6.96 pH	12.05 °C	0.82 mS/cm	0.44 mg/L	3.52 NTU	-13.2 mV	18.08 ft	200.00 ml/min
9/4/2025 10:06 AM	09:50	6.97 pH	12.04 °C	0.83 mS/cm	0.42 mg/L	3.63 NTU	-16.7 mV	18.08 ft	200.00 ml/min
9/4/2025 10:08 AM	11:48	6.96 pH	11.99 °C	0.83 mS/cm	0.38 mg/L	4.87 NTU	-18.6 mV	18.08 ft	200.00 ml/min

Samples

Sample ID:	Description:

MW04-GW-0925	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 9/4/2025 7:26:29 AM
Project: Neal South MW-8
Operator Name: Paige Richards

Location Name: MW-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 9.7 ft Total Depth: 24.7 ft Initial Depth to Water: 17.19 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 23.3 ft Pump Intake From TOC: 25.3 ft Estimated Total Volume Pumped: 5752.5 ml Flow Cell Volume: 130 ml Final Flow Rate: 225 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time: 0815

Water visually clear

Weather Conditions:
Cloudy, foggy, 46 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/4/2025 7:26 AM	00:00	6.97 pH	14.03 °C	1.36 mS/cm	6.74 mg/L	11.53 NTU	127.7 mV	17.19 ft	225.00 ml/min
9/4/2025 7:28 AM	01:58	7.00 pH	12.55 °C	1.33 mS/cm	0.93 mg/L	6.79 NTU	90.6 mV	17.21 ft	225.00 ml/min
9/4/2025 7:30 AM	03:56	7.01 pH	12.37 °C	1.35 mS/cm	0.27 mg/L	10.81 NTU	54.1 mV	17.21 ft	225.00 ml/min
9/4/2025 7:32 AM	05:54	7.01 pH	12.38 °C	1.36 mS/cm	0.17 mg/L	9.82 NTU	10.6 mV	17.21 ft	225.00 ml/min
9/4/2025 7:34 AM	07:52	7.00 pH	12.30 °C	1.37 mS/cm	0.14 mg/L	4.95 NTU	-19.8 mV	17.21 ft	225.00 ml/min
9/4/2025 7:36 AM	09:50	7.00 pH	12.27 °C	1.38 mS/cm	0.13 mg/L	4.15 NTU	-36.9 mV	17.21 ft	225.00 ml/min
9/4/2025 7:38 AM	11:48	6.99 pH	12.21 °C	1.38 mS/cm	0.13 mg/L	43.97 NTU	-50.4 mV	17.21 ft	225.00 ml/min
9/4/2025 7:40 AM	13:46	6.99 pH	12.19 °C	1.39 mS/cm	0.13 mg/L	22.26 NTU	-56.2 mV	17.21 ft	225.00 ml/min
9/4/2025 7:42 AM	15:44	6.98 pH	12.17 °C	1.39 mS/cm	0.13 mg/L	4.48 NTU	-61.1 mV	17.21 ft	225.00 ml/min
9/4/2025 7:44 AM	17:42	6.97 pH	12.21 °C	1.39 mS/cm	0.14 mg/L	7.84 NTU	-63.9 mV	17.21 ft	225.00 ml/min

9/4/2025 7:46 AM	19:40	6.96 pH	12.22 °C	1.40 mS/cm	0.13 mg/L	9.62 NTU	-66.7 mV	17.21 ft	225.00 ml/min
9/4/2025 7:48 AM	21:38	6.95 pH	12.21 °C	1.40 mS/cm	0.12 mg/L	6.59 NTU	-69.3 mV	17.21 ft	225.00 ml/min
9/4/2025 7:50 AM	23:36	6.94 pH	12.21 °C	1.40 mS/cm	0.13 mg/L	23.35 NTU	-69.6 mV	17.21 ft	225.00 ml/min
9/4/2025 7:52 AM	25:34	6.94 pH	12.18 °C	1.40 mS/cm	0.15 mg/L	4.93 NTU	-69.8 mV	17.21 ft	225.00 ml/min

Samples

Sample ID:	Description:
MW08-GW-0925	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 9/3/2025 5:09:15 PM
Project: Neal South MW-10
Operator Name: Paige Richards

Location Name: MW-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 10.6 ft Total Depth: 29.8 ft Initial Depth to Water: 22.08 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 27.3 ft Pump Intake From TOC: 29.3 ft Estimated Total Volume Pumped: 15125 ml Flow Cell Volume: 130 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time: 1815

Water visually clear

Weather Conditions:
Sunny, 69 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 5:09 PM	00:00	7.01 pH	16.24 °C	1.10 mS/cm	6.15 mg/L	58.80 NTU	-9.9 mV	22.08 ft	300.00 ml/min
9/3/2025 5:11 PM	02:01	7.29 pH	13.98 °C	1.10 mS/cm	1.13 mg/L	110.00 NTU	-117.0 mV	22.09 ft	300.00 ml/min
9/3/2025 5:13 PM	04:02	7.31 pH	13.76 °C	1.09 mS/cm	0.74 mg/L	78.03 NTU	-124.1 mV	22.09 ft	300.00 ml/min
9/3/2025 5:15 PM	06:03	7.30 pH	13.64 °C	1.10 mS/cm	0.66 mg/L	345.97 NTU	-125.2 mV	22.09 ft	300.00 ml/min
9/3/2025 5:17 PM	08:04	7.30 pH	13.64 °C	1.09 mS/cm	0.65 mg/L	123.59 NTU	-124.5 mV	22.09 ft	300.00 ml/min
9/3/2025 5:19 PM	10:05	7.28 pH	13.69 °C	1.09 mS/cm	0.70 mg/L	175.12 NTU	-121.8 mV	22.09 ft	300.00 ml/min
9/3/2025 5:21 PM	12:06	7.27 pH	13.77 °C	1.09 mS/cm	0.83 mg/L	631.01 NTU	-118.4 mV	22.09 ft	300.00 ml/min
9/3/2025 5:23 PM	14:07	7.26 pH	13.82 °C	1.08 mS/cm	0.95 mg/L	705.99 NTU	-117.1 mV	22.09 ft	300.00 ml/min
9/3/2025 5:25 PM	16:08	7.26 pH	13.77 °C	1.08 mS/cm	0.85 mg/L	323.72 NTU	-117.6 mV	22.09 ft	300.00 ml/min
9/3/2025 5:27 PM	18:09	7.26 pH	13.69 °C	1.08 mS/cm	0.74 mg/L	283.00 NTU	-117.8 mV	22.09 ft	300.00 ml/min

9/3/2025 5:29 PM	20:10	7.26 pH	13.68 °C	1.08 mS/cm	0.68 mg/L	350.99 NTU	-118.9 mV	22.09 ft	300.00 ml/min
9/3/2025 5:31 PM	22:11	7.26 pH	13.70 °C	1.08 mS/cm	0.68 mg/L	415.67 NTU	-118.2 mV	22.09 ft	300.00 ml/min
9/3/2025 5:33 PM	24:12	7.26 pH	13.60 °C	1.07 mS/cm	0.71 mg/L	47.86 NTU	-118.3 mV	22.09 ft	300.00 ml/min
9/3/2025 5:35 PM	26:13	7.25 pH	13.66 °C	1.07 mS/cm	0.69 mg/L	15.67 NTU	-117.2 mV	22.09 ft	300.00 ml/min
9/3/2025 5:37 PM	28:14	7.25 pH	13.48 °C	1.07 mS/cm	0.76 mg/L	8.15 NTU	-116.4 mV	22.09 ft	300.00 ml/min
9/3/2025 5:39 PM	30:15	7.23 pH	13.54 °C	1.08 mS/cm	0.72 mg/L	7.32 NTU	-114.2 mV	22.09 ft	300.00 ml/min
9/3/2025 5:41 PM	32:16	7.22 pH	13.31 °C	1.08 mS/cm	0.79 mg/L	7.00 NTU	-112.2 mV	22.09 ft	300.00 ml/min
9/3/2025 5:43 PM	34:17	7.22 pH	13.28 °C	1.07 mS/cm	0.71 mg/L	6.66 NTU	-113.2 mV	22.09 ft	300.00 ml/min
9/3/2025 5:45 PM	36:18	7.24 pH	13.39 °C	1.06 mS/cm	1.98 mg/L	767.46 NTU	-111.2 mV	22.09 ft	300.00 ml/min
9/3/2025 5:47 PM	38:19	7.23 pH	13.16 °C	1.07 mS/cm	0.90 mg/L	33.61 NTU	-113.1 mV	22.09 ft	300.00 ml/min
9/3/2025 5:49 PM	40:20	7.22 pH	13.31 °C	1.08 mS/cm	0.80 mg/L	13.95 NTU	-112.5 mV	22.09 ft	300.00 ml/min
9/3/2025 5:51 PM	42:21	7.21 pH	13.32 °C	1.08 mS/cm	0.84 mg/L	10.90 NTU	-111.4 mV	22.09 ft	300.00 ml/min
9/3/2025 5:53 PM	44:22	7.20 pH	13.27 °C	1.07 mS/cm	0.88 mg/L	7.36 NTU	-111.8 mV	22.09 ft	300.00 ml/min
9/3/2025 5:55 PM	46:23	7.19 pH	13.20 °C	1.07 mS/cm	0.85 mg/L	6.75 NTU	-109.8 mV	22.09 ft	300.00 ml/min
9/3/2025 5:57 PM	48:24	7.19 pH	13.23 °C	1.07 mS/cm	0.78 mg/L	6.15 NTU	-109.8 mV	22.09 ft	300.00 ml/min
9/3/2025 5:59 PM	50:25	7.18 pH	13.25 °C	1.07 mS/cm	0.85 mg/L	4.07 NTU	-109.3 mV	22.09 ft	300.00 ml/min

Samples

Sample ID:	Description:
MW10-GW-0925	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 9/3/2025 1:41:23 PM
Project: Neal South MW-11
Operator Name: Paige Richards

Location Name: MW-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 25 ft Top of Screen: 12.1 ft Total Depth: 37.1 ft Initial Depth to Water: 23.11 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 32.8 ft Pump Intake From TOC: 34.8 ft Estimated Total Volume Pumped: 2083.333 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time: 1430

Water visually clear, trace black flecks

Weather Conditions:
Cloudy, 63 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 1:41 PM	00:00	6.85 pH	13.87 °C	1.51 mS/cm	1.57 mg/L	1.78 NTU	63.5 mV	23.11 ft	400.00 ml/min
9/3/2025 1:43 PM	02:05	6.85 pH	13.42 °C	1.51 mS/cm	0.12 mg/L	1.56 NTU	62.3 mV	23.14 ft	150.00 ml/min
9/3/2025 1:45 PM	04:10	6.84 pH	13.81 °C	1.52 mS/cm	0.17 mg/L	1.58 NTU	60.9 mV	23.14 ft	150.00 ml/min
9/3/2025 1:47 PM	06:15	6.84 pH	13.70 °C	1.51 mS/cm	0.17 mg/L	1.60 NTU	60.3 mV	23.14 ft	150.00 ml/min
9/3/2025 1:49 PM	08:20	6.85 pH	13.72 °C	1.51 mS/cm	0.15 mg/L	1.60 NTU	59.4 mV	23.14 ft	150.00 ml/min
9/3/2025 1:51 PM	10:25	6.85 pH	13.72 °C	1.51 mS/cm	0.14 mg/L	1.62 NTU	58.8 mV	23.14 ft	150.00 ml/min

Samples

Sample ID:	Description:

MW11-GW-0925	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 9/3/2025 2:35:17 PM
Project: Neal South MW-12
Operator Name: Paige Richards

Location Name: MW-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25.8 ft Total Depth: 35.8 ft Initial Depth to Water: 29.29 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 31 ft Pump Intake From TOC: 33 ft Estimated Total Volume Pumped: 2583.333 ml Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time: 1510

Water visually clear

Weather Conditions:
Cloudy, 67 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 2:35 PM	00:00	6.94 pH	15.85 °C	1.76 mS/cm	4.26 mg/L	1.99 NTU	70.9 mV	29.29 ft	250.00 ml/min
9/3/2025 2:37 PM	02:04	6.87 pH	14.59 °C	1.81 mS/cm	0.53 mg/L	1.77 NTU	65.8 mV	29.29 ft	250.00 ml/min
9/3/2025 2:39 PM	04:08	6.87 pH	14.26 °C	1.82 mS/cm	0.25 mg/L	1.74 NTU	63.7 mV	29.33 ft	250.00 ml/min
9/3/2025 2:41 PM	06:12	6.86 pH	14.19 °C	1.83 mS/cm	0.20 mg/L	1.65 NTU	62.4 mV	29.33 ft	250.00 ml/min
9/3/2025 2:43 PM	08:16	6.86 pH	14.30 °C	1.82 mS/cm	0.17 mg/L	1.65 NTU	61.0 mV	29.33 ft	250.00 ml/min
9/3/2025 2:45 PM	10:20	6.86 pH	14.20 °C	1.79 mS/cm	0.16 mg/L	1.68 NTU	60.0 mV	29.33 ft	250.00 ml/min

Samples

Sample ID:	Description:

MW12-GW-0925	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 9/3/2025 3:37:39 PM
Project: Neal South MW-13
Operator Name: Paige Richards

Location Name: MW-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25.1 ft Total Depth: 35.1 ft Initial Depth to Water: 27.48 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 30.8 ft Pump Intake From TOC: 32.8 ft Estimated Total Volume Pumped: 2066.667 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time: 1615

Water visually clear, trace black flecks

Weather Conditions:
Cloudy, 68 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 3:37 PM	00:00	7.06 pH	17.71 °C	1.60 mS/cm	7.25 mg/L	5.56 NTU	67.5 mV	27.48 ft	200.00 ml/min
9/3/2025 3:39 PM	02:04	6.91 pH	15.65 °C	1.57 mS/cm	1.26 mg/L	2.39 NTU	64.4 mV	27.48 ft	200.00 ml/min
9/3/2025 3:41 PM	04:08	6.90 pH	15.23 °C	1.57 mS/cm	0.41 mg/L	2.09 NTU	62.8 mV	27.48 ft	200.00 ml/min
9/3/2025 3:43 PM	06:12	6.91 pH	15.02 °C	1.56 mS/cm	0.28 mg/L	2.01 NTU	53.2 mV	27.48 ft	200.00 ml/min
9/3/2025 3:45 PM	08:16	6.91 pH	14.85 °C	1.56 mS/cm	0.23 mg/L	2.07 NTU	43.9 mV	27.48 ft	200.00 ml/min
9/3/2025 3:47 PM	10:20	6.92 pH	14.95 °C	1.56 mS/cm	0.21 mg/L	1.83 NTU	36.7 mV	27.48 ft	200.00 ml/min

Samples

Sample ID:	Description:

MW13-GW-0925	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 9/3/2025 12:48:18 PM
Project: Neal South MW-14
Operator Name: Paige Richards

Location Name: MW-14 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 14.8 ft Total Depth: 29.8 ft Initial Depth to Water: 22.91 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 25.5 ft Pump Intake From TOC: 27.5 ft Estimated Total Volume Pumped: 1750 ml Flow Cell Volume: 130 ml Final Flow Rate: 175 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time: 1330

Water visually clear, black flecks

Weather Conditions:
Cloudy, rainy, 62 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 12:48 PM	00:00	6.84 pH	16.49 °C	1.42 mS/cm	5.65 mg/L	2.32 NTU	62.9 mV	22.91 ft	175.00 ml/min
9/3/2025 12:50 PM	02:00	6.80 pH	14.78 °C	1.47 mS/cm	1.04 mg/L	1.88 NTU	60.1 mV	22.94 ft	175.00 ml/min
9/3/2025 12:52 PM	04:00	6.80 pH	14.48 °C	1.47 mS/cm	0.30 mg/L	1.77 NTU	58.7 mV	22.94 ft	175.00 ml/min
9/3/2025 12:54 PM	06:00	6.79 pH	14.32 °C	1.47 mS/cm	0.22 mg/L	1.61 NTU	57.8 mV	22.94 ft	175.00 ml/min
9/3/2025 12:56 PM	08:00	6.79 pH	14.29 °C	1.48 mS/cm	0.20 mg/L	1.68 NTU	56.9 mV	22.94 ft	175.00 ml/min
9/3/2025 12:58 PM	10:00	6.79 pH	14.25 °C	1.48 mS/cm	0.19 mg/L	1.88 NTU	56.4 mV	22.94 ft	175.00 ml/min

Samples

Sample ID:	Description:

MW14-GW-0925	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 9/4/2025 8:34:59 AM
Project: Neal South MW-15
Operator Name: Paige Richards

Location Name: MW-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 10.2 ft Total Depth: 25.2 ft Initial Depth to Water: 17.7 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 20.9 ft Pump Intake From TOC: 22.9 ft Estimated Total Volume Pumped: 2632.5 ml Flow Cell Volume: 130 ml Final Flow Rate: 225 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time: 0915

Water visually clear

Weather Conditions:
Cloudy, 48 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/4/2025 8:34 AM	00:00	6.79 pH	13.19 °C	1.12 mS/cm	4.52 mg/L	22.76 NTU	26.9 mV	17.70 ft	225.00 ml/min
9/4/2025 8:36 AM	01:57	6.83 pH	12.80 °C	0.99 mS/cm	0.56 mg/L	17.84 NTU	16.7 mV	17.72 ft	225.00 ml/min
9/4/2025 8:38 AM	03:54	6.82 pH	12.66 °C	0.98 mS/cm	0.16 mg/L	13.23 NTU	20.7 mV	17.72 ft	225.00 ml/min
9/4/2025 8:40 AM	05:51	6.79 pH	12.60 °C	0.97 mS/cm	0.10 mg/L	7.03 NTU	26.0 mV	17.72 ft	225.00 ml/min
9/4/2025 8:42 AM	07:48	6.74 pH	12.58 °C	0.97 mS/cm	0.09 mg/L	5.47 NTU	29.3 mV	17.72 ft	225.00 ml/min
9/4/2025 8:44 AM	09:45	6.70 pH	12.56 °C	0.97 mS/cm	0.09 mg/L	4.23 NTU	31.8 mV	17.72 ft	225.00 ml/min
9/4/2025 8:46 AM	11:42	6.68 pH	12.61 °C	0.96 mS/cm	0.11 mg/L	3.53 NTU	34.2 mV	17.72 ft	225.00 ml/min

Samples

Sample ID:	Description:

MW15-GW-0925	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 9/3/2025 7:27:26 AM
Project: Neal South MW-16
Operator Name: Paige Richards

Location Name: MW-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 18.7 ft Total Depth: 33.7 ft Initial Depth to Water: 24.26 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 29.7 ft Pump Intake From TOC: 31.7 ft Estimated Total Volume Pumped: 2460 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time: 0845

Water visually clear

Weather Conditions:
Cloudy, 60 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 7:27 AM	00:00	6.91 pH	16.80 °C	1.19 mS/cm	6.67 mg/L	3.06 NTU	121.8 mV	24.26 ft	200.00 ml/min
9/3/2025 7:29 AM	02:03	7.02 pH	14.38 °C	1.18 mS/cm	1.20 mg/L	2.02 NTU	92.2 mV	24.26 ft	200.00 ml/min
9/3/2025 7:31 AM	04:06	7.06 pH	13.93 °C	1.18 mS/cm	0.40 mg/L	1.88 NTU	85.0 mV	24.26 ft	200.00 ml/min
9/3/2025 7:33 AM	06:09	7.06 pH	13.71 °C	1.18 mS/cm	0.26 mg/L	2.25 NTU	81.5 mV	24.26 ft	200.00 ml/min
9/3/2025 7:35 AM	08:12	7.07 pH	13.57 °C	1.18 mS/cm	0.20 mg/L	1.66 NTU	79.1 mV	24.26 ft	200.00 ml/min
9/3/2025 7:37 AM	10:15	7.05 pH	13.43 °C	1.18 mS/cm	0.37 mg/L	1.64 NTU	77.3 mV	24.26 ft	200.00 ml/min
9/3/2025 7:39 AM	12:18	7.05 pH	13.40 °C	1.17 mS/cm	0.21 mg/L	1.61 NTU	75.2 mV	24.26 ft	200.00 ml/min

Samples

Sample ID:	Description:

MW16-GW-0925	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1
MS/MSD	

Low-Flow Test Report:

Test Date / Time: 9/4/2025 7:26:41 AM
Project: Neal South MW-17
Operator Name: Thao Larson

Location Name: MW-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 13.6 ft Total Depth: 28.6 ft Initial Depth to Water: 22.04 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 24.6 ft Pump Intake From TOC: 26.6 ft Estimated Total Volume Pumped: 3371.667 ml Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.47 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 0830

Weather Conditions:
Foggy 46°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/4/2025 7:26 AM	00:00	6.53 pH	13.81 °C	1.18 mS/cm	6.42 mg/L	118.47 NTU	-15.6 mV	22.04 ft	100.00 ml/min
9/4/2025 7:28 AM	01:59	6.89 pH	12.25 °C	1.22 mS/cm	1.21 mg/L	5.58 NTU	-77.7 mV	22.26 ft	100.00 ml/min
9/4/2025 7:30 AM	03:58	6.94 pH	12.07 °C	1.16 mS/cm	0.81 mg/L	3.39 NTU	-72.7 mV	22.42 ft	100.00 ml/min
9/4/2025 7:32 AM	05:57	6.94 pH	11.88 °C	1.26 mS/cm	0.67 mg/L	2.43 NTU	-64.5 mV	22.54 ft	100.00 ml/min
9/4/2025 7:34 AM	07:56	6.94 pH	11.87 °C	1.25 mS/cm	0.59 mg/L	2.11 NTU	-53.2 mV	22.65 ft	100.00 ml/min
9/4/2025 7:36 AM	09:55	6.94 pH	11.85 °C	1.21 mS/cm	0.52 mg/L	2.26 NTU	-45.5 mV	22.72 ft	100.00 ml/min
9/4/2025 7:38 AM	11:54	6.93 pH	11.84 °C	1.17 mS/cm	0.47 mg/L	2.08 NTU	-42.2 mV	22.79 ft	100.00 ml/min
9/4/2025 7:40 AM	13:53	6.93 pH	11.81 °C	1.17 mS/cm	0.47 mg/L	2.36 NTU	-41.7 mV	22.83 ft	100.00 ml/min
9/4/2025 7:42 AM	15:52	6.93 pH	11.90 °C	1.17 mS/cm	0.85 mg/L	3.85 NTU	-40.0 mV	22.97 ft	100.00 ml/min
9/4/2025 7:44 AM	17:51	6.93 pH	11.95 °C	1.15 mS/cm	1.33 mg/L	3.29 NTU	-36.1 mV	23.02 ft	100.00 ml/min
9/4/2025 7:46 AM	19:50	6.93 pH	11.94 °C	1.15 mS/cm	1.41 mg/L	3.71 NTU	-34.5 mV	23.08 ft	100.00 ml/min

9/4/2025 7:48 AM	21:49	6.94 pH	11.95 °C	1.16 mS/cm	1.20 mg/L	2.54 NTU	-34.5 mV	23.08 ft	100.00 ml/min
9/4/2025 7:50 AM	23:48	6.94 pH	11.93 °C	1.16 mS/cm	0.98 mg/L	2.24 NTU	-35.8 mV	23.16 ft	100.00 ml/min
9/4/2025 7:52 AM	25:47	6.95 pH	11.93 °C	1.16 mS/cm	0.87 mg/L	1.97 NTU	-37.6 mV	23.25 ft	100.00 ml/min
9/4/2025 7:54 AM	27:46	6.95 pH	11.95 °C	1.16 mS/cm	0.72 mg/L	2.14 NTU	-38.7 mV	23.29 ft	100.00 ml/min
9/4/2025 7:56 AM	29:45	6.96 pH	11.96 °C	1.16 mS/cm	0.55 mg/L	1.66 NTU	-39.7 mV	23.36 ft	100.00 ml/min
9/4/2025 7:58 AM	31:44	6.97 pH	11.94 °C	1.17 mS/cm	0.45 mg/L	1.94 NTU	-41.4 mV	23.45 ft	100.00 ml/min
9/4/2025 8:00 AM	33:43	6.97 pH	11.94 °C	1.17 mS/cm	0.37 mg/L	1.54 NTU	-43.0 mV	23.51 ft	100.00 ml/min

Samples

Sample ID:	Description:
MW17-GW-0925	APP III & IV

Low-Flow Test Report:

Test Date / Time: 9/4/2025 8:42:37 AM
Project: Neal South MW-18
Operator Name: Thao Larson

Location Name: MW-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 7.2 ft Total Depth: 17.2 ft Initial Depth to Water: 18.3 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 24.5 ft Pump Intake From TOC: 26.5 ft Estimated Total Volume Pumped: 8330 ml Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.05 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 1025

Weather Conditions:
Cloudy 46°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/4/2025 8:42 AM	00:00	6.96 pH	12.47 °C	1.32 mS/cm	1.82 mg/L	67.94 NTU	-66.1 mV	18.30 ft	100.00 ml/min
9/4/2025 8:44 AM	01:59	6.95 pH	12.38 °C	1.30 mS/cm	1.20 mg/L	50.66 NTU	-70.7 mV	18.39 ft	100.00 ml/min
9/4/2025 8:46 AM	03:58	6.95 pH	12.46 °C	1.43 mS/cm	1.24 mg/L	44.65 NTU	-71.2 mV	18.35 ft	100.00 ml/min
9/4/2025 8:48 AM	05:57	6.95 pH	12.48 °C	1.43 mS/cm	1.14 mg/L	45.75 NTU	-72.0 mV	18.35 ft	100.00 ml/min
9/4/2025 8:50 AM	07:56	6.96 pH	12.46 °C	1.43 mS/cm	1.15 mg/L	36.83 NTU	-72.6 mV	18.35 ft	100.00 ml/min
9/4/2025 8:52 AM	09:55	6.96 pH	12.36 °C	1.43 mS/cm	1.19 mg/L	28.71 NTU	-73.1 mV	18.35 ft	100.00 ml/min
9/4/2025 8:54 AM	11:54	6.97 pH	12.33 °C	1.43 mS/cm	1.17 mg/L	25.19 NTU	-73.4 mV	18.35 ft	100.00 ml/min
9/4/2025 8:56 AM	13:53	6.99 pH	12.30 °C	1.42 mS/cm	1.38 mg/L	18.24 NTU	-75.2 mV	18.35 ft	100.00 ml/min
9/4/2025 8:58 AM	15:52	6.99 pH	12.29 °C	1.41 mS/cm	1.45 mg/L	16.36 NTU	-75.1 mV	18.35 ft	100.00 ml/min
9/4/2025 9:00 AM	17:51	6.99 pH	12.31 °C	1.40 mS/cm	1.43 mg/L	17.47 NTU	-75.3 mV	18.35 ft	100.00 ml/min
9/4/2025 9:02 AM	19:50	7.00 pH	12.33 °C	1.43 mS/cm	1.42 mg/L	16.60 NTU	-75.5 mV	18.35 ft	100.00 ml/min

9/4/2025 9:04 AM	21:49	7.00 pH	12.36 °C	1.41 mS/cm	1.41 mg/L	15.90 NTU	-75.5 mV	18.35 ft	100.00 ml/min
9/4/2025 9:06 AM	23:48	7.00 pH	12.36 °C	1.41 mS/cm	1.39 mg/L	12.34 NTU	-75.5 mV	18.35 ft	100.00 ml/min
9/4/2025 9:08 AM	25:47	7.00 pH	12.37 °C	1.43 mS/cm	1.38 mg/L	10.73 NTU	-75.7 mV	18.35 ft	100.00 ml/min
9/4/2025 9:10 AM	27:46	7.01 pH	12.36 °C	1.42 mS/cm	1.39 mg/L	11.27 NTU	-75.9 mV	18.35 ft	100.00 ml/min
9/4/2025 9:12 AM	29:45	7.01 pH	12.34 °C	1.40 mS/cm	1.37 mg/L	11.43 NTU	-75.9 mV	18.35 ft	100.00 ml/min
9/4/2025 9:14 AM	31:44	7.01 pH	12.38 °C	1.38 mS/cm	1.41 mg/L	10.53 NTU	-76.0 mV	18.35 ft	100.00 ml/min
9/4/2025 9:16 AM	33:43	7.01 pH	12.41 °C	1.35 mS/cm	1.37 mg/L	11.84 NTU	-76.0 mV	18.35 ft	100.00 ml/min
9/4/2025 9:18 AM	35:42	7.02 pH	12.46 °C	1.33 mS/cm	1.37 mg/L	16.77 NTU	-75.8 mV	18.35 ft	100.00 ml/min
9/4/2025 9:20 AM	37:41	7.01 pH	12.53 °C	1.42 mS/cm	1.35 mg/L	11.04 NTU	-74.7 mV	18.35 ft	100.00 ml/min
9/4/2025 9:22 AM	39:40	7.00 pH	12.63 °C	1.39 mS/cm	1.23 mg/L	11.17 NTU	-73.7 mV	18.35 ft	100.00 ml/min
9/4/2025 9:24 AM	41:39	7.01 pH	12.73 °C	1.41 mS/cm	1.11 mg/L	14.25 NTU	-74.7 mV	18.35 ft	100.00 ml/min
9/4/2025 9:26 AM	43:38	7.02 pH	12.72 °C	1.42 mS/cm	1.15 mg/L	11.23 NTU	-75.4 mV	18.35 ft	100.00 ml/min
9/4/2025 9:28 AM	45:37	7.02 pH	12.71 °C	1.42 mS/cm	1.14 mg/L	12.09 NTU	-75.1 mV	18.35 ft	100.00 ml/min
9/4/2025 9:30 AM	47:36	7.01 pH	12.68 °C	1.41 mS/cm	1.13 mg/L	12.43 NTU	-74.5 mV	18.35 ft	100.00 ml/min
9/4/2025 9:32 AM	49:35	7.02 pH	12.64 °C	1.40 mS/cm	1.13 mg/L	13.41 NTU	-75.5 mV	18.35 ft	100.00 ml/min
9/4/2025 9:34 AM	51:34	7.02 pH	12.64 °C	1.42 mS/cm	1.11 mg/L	17.09 NTU	-75.4 mV	18.35 ft	100.00 ml/min
9/4/2025 9:36 AM	53:33	7.02 pH	12.66 °C	1.42 mS/cm	1.18 mg/L	16.58 NTU	-75.1 mV	18.35 ft	100.00 ml/min
9/4/2025 9:38 AM	55:32	7.02 pH	12.66 °C	1.41 mS/cm	1.10 mg/L	11.73 NTU	-74.6 mV	18.35 ft	100.00 ml/min
9/4/2025 9:40 AM	57:31	7.01 pH	12.68 °C	1.39 mS/cm	0.93 mg/L	11.81 NTU	-75.2 mV	18.35 ft	100.00 ml/min
9/4/2025 9:42 AM	59:30	7.02 pH	12.71 °C	1.42 mS/cm	0.81 mg/L	12.19 NTU	-76.0 mV	18.35 ft	100.00 ml/min
9/4/2025 9:44 AM	01:01:29	7.02 pH	12.75 °C	1.41 mS/cm	0.77 mg/L	12.05 NTU	-76.2 mV	18.35 ft	100.00 ml/min
9/4/2025 9:46 AM	01:03:28	7.02 pH	12.73 °C	1.41 mS/cm	0.75 mg/L	13.26 NTU	-76.3 mV	18.35 ft	100.00 ml/min
9/4/2025 9:48 AM	01:05:27	7.02 pH	12.81 °C	1.41 mS/cm	0.78 mg/L	15.59 NTU	-76.4 mV	18.35 ft	100.00 ml/min
9/4/2025 9:50 AM	01:07:26	7.02 pH	12.98 °C	1.42 mS/cm	0.88 mg/L	27.66 NTU	-75.6 mV	18.35 ft	100.00 ml/min
9/4/2025 9:52 AM	01:09:25	7.01 pH	12.99 °C	1.41 mS/cm	0.80 mg/L	17.33 NTU	-75.3 mV	18.35 ft	100.00 ml/min
9/4/2025 9:54 AM	01:11:24	7.02 pH	12.93 °C	1.41 mS/cm	0.92 mg/L	20.12 NTU	-77.0 mV	18.35 ft	100.00 ml/min
9/4/2025 9:56 AM	01:13:23	7.03 pH	12.88 °C	1.40 mS/cm	1.28 mg/L	22.66 NTU	-76.7 mV	18.35 ft	100.00 ml/min
9/4/2025 9:57 AM	01:15:22	7.03 pH	12.86 °C	1.40 mS/cm	1.29 mg/L	28.30 NTU	-74.5 mV	18.35 ft	100.00 ml/min
9/4/2025 9:59 AM	01:17:21	7.06 pH	13.02 °C	1.42 mS/cm	2.33 mg/L	5.56 NTU	-74.7 mV	18.35 ft	100.00 ml/min

9/4/2025 10:01 AM	01:19:20	7.04 pH	13.11 °C	1.42 mS/cm	1.36 mg/L	3.36 NTU	-73.9 mV	18.35 ft	100.00 ml/min
9/4/2025 10:03 AM	01:21:19	7.04 pH	13.15 °C	1.42 mS/cm	1.32 mg/L	2.93 NTU	-75.0 mV	18.35 ft	100.00 ml/min
9/4/2025 10:05 AM	01:23:18	7.03 pH	13.17 °C	1.42 mS/cm	1.26 mg/L	3.22 NTU	-73.9 mV	18.35 ft	100.00 ml/min

Samples

Sample ID:	Description:
MW18-GW-0925	APP III & IV

Low-Flow Test Report:

Test Date / Time: 9/3/2025 11:49:07 AM
Project: Neal South MW-19
Operator Name: Paige Richards

Location Name: MW-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 18.6 ft Total Depth: 33.6 ft Initial Depth to Water: 23.13 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 29.6 ft Pump Intake From TOC: 31.6 ft Estimated Total Volume Pumped: 2562.5 ml Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time: 1225

Water visually clear

Weather Conditions:
Cloudy, rainy, 64 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 11:49 AM	00:00	6.72 pH	16.13 °C	1.75 mS/cm	5.08 mg/L	3.91 NTU	54.0 mV	23.13 ft	250.00 ml/min
9/3/2025 11:51 AM	02:03	6.71 pH	14.45 °C	1.63 mS/cm	0.55 mg/L	1.72 NTU	53.7 mV	23.13 ft	250.00 ml/min
9/3/2025 11:53 AM	04:06	6.72 pH	14.12 °C	1.63 mS/cm	0.16 mg/L	1.64 NTU	54.2 mV	23.13 ft	250.00 ml/min
9/3/2025 11:55 AM	06:09	6.72 pH	14.03 °C	1.62 mS/cm	0.09 mg/L	1.55 NTU	54.3 mV	23.13 ft	250.00 ml/min
9/3/2025 11:57 AM	08:12	6.72 pH	13.90 °C	1.61 mS/cm	0.06 mg/L	1.55 NTU	54.8 mV	23.13 ft	250.00 ml/min
9/3/2025 11:59 AM	10:15	6.73 pH	13.89 °C	1.61 mS/cm	0.05 mg/L	1.58 NTU	54.6 mV	23.16 ft	250.00 ml/min

Samples

Sample ID:	Description:

MW19-GW-0925	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 9/3/2025 10:22:37 AM
Project: Neal South MW-20
Operator Name: Paige Richards

Location Name: MW-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 18.2 ft Total Depth: 33.2 ft Initial Depth to Water: 24.04 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 29.2 ft Pump Intake From TOC: 31.2 ft Estimated Total Volume Pumped: 1845 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time: 1115

Water visually clear

Weather Conditions:
Cloudy, rainy, 64 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 10:22 AM	00:00	7.14 pH	16.91 °C	1.62 mS/cm	7.87 mg/L	54.11 NTU	13.8 mV	24.04 ft	150.00 ml/min
9/3/2025 10:24 AM	02:03	7.06 pH	15.37 °C	1.73 mS/cm	1.70 mg/L	16.25 NTU	-68.4 mV	24.04 ft	150.00 ml/min
9/3/2025 10:26 AM	04:06	7.04 pH	15.04 °C	1.73 mS/cm	0.50 mg/L	9.90 NTU	-72.3 mV	24.05 ft	150.00 ml/min
9/3/2025 10:28 AM	06:09	7.03 pH	14.87 °C	1.72 mS/cm	0.30 mg/L	7.50 NTU	-73.3 mV	24.05 ft	150.00 ml/min
9/3/2025 10:30 AM	08:12	7.03 pH	14.73 °C	1.71 mS/cm	0.24 mg/L	4.20 NTU	-74.3 mV	24.05 ft	150.00 ml/min
9/3/2025 10:32 AM	10:15	7.02 pH	14.57 °C	1.71 mS/cm	0.20 mg/L	4.33 NTU	-74.4 mV	24.05 ft	150.00 ml/min
9/3/2025 10:34 AM	12:18	7.02 pH	14.55 °C	1.71 mS/cm	0.19 mg/L	2.62 NTU	-75.2 mV	24.05 ft	150.00 ml/min

Samples

Sample ID:	Description:

MW20-GW-0925	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 9/3/2025 4:22:07 PM
Project: Neal South MW-21
Operator Name: Paige Richards

Location Name: MW-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 8.2 ft Total Depth: 23.2 ft Initial Depth to Water: 15.74 ft	Pump Type: Solinst Model 407 Bladder Pump Tubing Type: Teflon-lined 1/4" x 1/4" twin-bonded tubing Tubing Inner Diameter: 0.125 in Tubing Length: 19.2 ft Pump Intake From TOC: 21.2 ft Estimated Total Volume Pumped: 3450 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.11 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 1050309

Test Notes:
Sample time: 1705

Water visually clear

Weather Conditions:
Partly cloudy, 69 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 4:22 PM	00:00	6.83 pH	16.32 °C	1.25 mS/cm	4.76 mg/L	23.55 NTU	19.9 mV	15.74 ft	200.00 ml/min
9/3/2025 4:24 PM	01:55	6.88 pH	14.15 °C	1.24 mS/cm	0.67 mg/L	18.27 NTU	-53.8 mV	16.07 ft	200.00 ml/min
9/3/2025 4:25 PM	03:50	6.91 pH	13.30 °C	1.24 mS/cm	0.32 mg/L	27.29 NTU	-76.7 mV	16.07 ft	200.00 ml/min
9/3/2025 4:27 PM	05:45	6.91 pH	13.10 °C	1.22 mS/cm	0.05 mg/L	13.50 NTU	-81.2 mV	16.07 ft	200.00 ml/min
9/3/2025 4:29 PM	07:40	6.85 pH	13.13 °C	1.21 mS/cm	0.00 mg/L	6.90 NTU	-62.9 mV	16.07 ft	200.00 ml/min
9/3/2025 4:31 PM	09:35	6.83 pH	13.04 °C	1.21 mS/cm	0.00 mg/L	6.16 NTU	-56.5 mV	16.53 ft	200.00 ml/min
9/3/2025 4:33 PM	11:30	6.82 pH	12.97 °C	1.21 mS/cm	0.22 mg/L	4.45 NTU	-54.3 mV	16.53 ft	200.00 ml/min
9/3/2025 4:35 PM	13:25	6.83 pH	13.07 °C	1.21 mS/cm	0.38 mg/L	11.99 NTU	-54.0 mV	16.53 ft	200.00 ml/min
9/3/2025 4:37 PM	15:20	6.83 pH	13.01 °C	1.21 mS/cm	0.42 mg/L	3.34 NTU	-54.5 mV	16.53 ft	200.00 ml/min
9/3/2025 4:39 PM	17:15	6.83 pH	12.94 °C	1.21 mS/cm	0.38 mg/L	3.11 NTU	-55.3 mV	16.85 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW21-GW-0925	1L plastic w/ nitric x2 1L plastic unpreserved x1 250mL plastic w/ nitric x1 250mL plastic unpreserved x1

Low-Flow Test Report:

Test Date / Time: 9/2/2025 11:46:08 AM
Project: Neal South MW-26
Operator Name: Thao Larson

Location Name: MW-26 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 14.8 ft Total Depth: 29.8 ft Initial Depth to Water: 20.37 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 27.8 ft Pump Intake From TOC: 27.8 ft Estimated Total Volume Pumped: 8025 ml Flow Cell Volume: 130 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 1215

Weather Conditions:
Sunny 76°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/2/2025 11:46 AM	00:00	6.49 pH	17.58 °C	1.16 mS/cm	5.05 mg/L	312.28 NTU	110.2 mV	20.37 ft	300.00 ml/min
9/2/2025 11:47 AM	01:47	6.76 pH	13.81 °C	1.19 mS/cm	0.72 mg/L	96.37 NTU	83.6 mV	20.39 ft	300.00 ml/min
9/2/2025 11:49 AM	03:34	6.72 pH	13.58 °C	1.19 mS/cm	0.57 mg/L	23.58 NTU	81.5 mV	20.39 ft	300.00 ml/min
9/2/2025 11:51 AM	05:21	6.67 pH	13.58 °C	1.20 mS/cm	0.51 mg/L	19.44 NTU	81.0 mV	20.40 ft	300.00 ml/min
9/2/2025 11:53 AM	07:08	6.64 pH	13.42 °C	1.20 mS/cm	0.48 mg/L	19.68 NTU	79.5 mV	20.40 ft	300.00 ml/min
9/2/2025 11:55 AM	08:55	6.64 pH	13.41 °C	1.21 mS/cm	0.47 mg/L	17.49 NTU	78.0 mV	20.40 ft	300.00 ml/min
9/2/2025 11:56 AM	10:42	6.63 pH	13.42 °C	1.21 mS/cm	0.47 mg/L	11.14 NTU	76.6 mV	20.40 ft	300.00 ml/min
9/2/2025 11:58 AM	12:29	6.63 pH	13.37 °C	1.21 mS/cm	0.50 mg/L	12.65 NTU	75.4 mV	20.40 ft	300.00 ml/min
9/2/2025 12:00 PM	14:16	6.63 pH	13.31 °C	1.21 mS/cm	0.53 mg/L	9.94 NTU	74.4 mV	20.40 ft	300.00 ml/min
9/2/2025 12:02 PM	16:03	6.63 pH	13.34 °C	1.21 mS/cm	0.56 mg/L	17.51 NTU	73.6 mV	20.40 ft	300.00 ml/min
9/2/2025 12:03 PM	17:50	6.64 pH	13.40 °C	1.20 mS/cm	0.56 mg/L	9.93 NTU	72.8 mV	20.40 ft	300.00 ml/min
9/2/2025 12:05 PM	19:37	6.64 pH	13.32 °C	1.20 mS/cm	0.62 mg/L	6.01 NTU	72.2 mV	20.40 ft	300.00 ml/min

9/2/2025 12:07 PM	21:24	6.64 pH	13.37 °C	1.20 mS/cm	0.68 mg/L	5.95 NTU	71.7 mV	20.40 ft	300.00 ml/min
9/2/2025 12:09 PM	23:11	6.64 pH	13.43 °C	1.20 mS/cm	0.70 mg/L	7.17 NTU	71.1 mV	20.40 ft	300.00 ml/min
9/2/2025 12:11 PM	24:58	6.65 pH	13.51 °C	1.20 mS/cm	0.75 mg/L	5.16 NTU	70.5 mV	20.40 ft	300.00 ml/min
9/2/2025 12:12 PM	26:45	6.65 pH	13.44 °C	1.20 mS/cm	0.73 mg/L	4.84 NTU	70.0 mV	20.40 ft	300.00 ml/min

Samples

Sample ID:	Description:
MW26-GW-0925	PME - APP III

Low-Flow Test Report:

Test Date / Time: 9/2/2025 12:28:27 PM
Project: Neal South MW-27
Operator Name: Thao Larson

Location Name: MW-27 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 14.68 ft Total Depth: 29.68 ft Initial Depth to Water: 19.9 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 27.68 ft Pump Intake From TOC: 27.68 ft Estimated Total Volume Pumped: 11056.667 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.46 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 1325

Weather Conditions:
Sunny 74°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/2/2025 12:28 PM	00:00	6.57 pH	15.70 °C	1.17 mS/cm	1.64 mg/L	4,950.5 NTU	-76.2 mV	19.90 ft	300.00 ml/min
9/2/2025 12:30 PM	01:47	6.75 pH	14.49 °C	1.18 mS/cm	0.46 mg/L	556.48 NTU	-112.6 mV	20.38 ft	300.00 ml/min
9/2/2025 12:32 PM	03:34	6.76 pH	14.58 °C	1.17 mS/cm	0.38 mg/L	289.08 NTU	-115.4 mV	20.36 ft	200.00 ml/min
9/2/2025 12:33 PM	05:21	6.77 pH	14.84 °C	1.17 mS/cm	0.27 mg/L	112.35 NTU	-112.2 mV	20.33 ft	200.00 ml/min
9/2/2025 12:35 PM	07:08	6.79 pH	14.97 °C	1.17 mS/cm	0.23 mg/L	69.52 NTU	-124.2 mV	20.33 ft	200.00 ml/min
9/2/2025 12:37 PM	08:55	6.81 pH	15.05 °C	1.16 mS/cm	0.24 mg/L	57.05 NTU	-133.4 mV	20.33 ft	200.00 ml/min
9/2/2025 12:39 PM	10:42	6.83 pH	15.01 °C	1.16 mS/cm	0.22 mg/L	46.10 NTU	-138.7 mV	20.33 ft	200.00 ml/min
9/2/2025 12:40 PM	12:29	6.85 pH	15.16 °C	1.16 mS/cm	0.19 mg/L	42.35 NTU	-142.0 mV	20.33 ft	200.00 ml/min
9/2/2025 12:42 PM	14:16	6.87 pH	15.28 °C	1.16 mS/cm	0.18 mg/L	34.61 NTU	-146.1 mV	20.34 ft	200.00 ml/min
9/2/2025 12:44 PM	16:03	6.88 pH	15.15 °C	1.16 mS/cm	0.16 mg/L	36.19 NTU	-151.3 mV	20.34 ft	200.00 ml/min
9/2/2025 12:46 PM	17:50	6.90 pH	15.10 °C	1.16 mS/cm	0.16 mg/L	32.73 NTU	-156.0 mV	20.34 ft	200.00 ml/min
9/2/2025 12:48 PM	19:37	6.91 pH	15.18 °C	1.16 mS/cm	0.16 mg/L	29.99 NTU	-156.3 mV	20.34 ft	200.00 ml/min

9/2/2025 12:49 PM	21:24	6.92 pH	15.24 °C	1.16 mS/cm	0.15 mg/L	25.68 NTU	-163.5 mV	20.34 ft	200.00 ml/min
9/2/2025 12:51 PM	23:11	6.93 pH	15.28 °C	1.16 mS/cm	0.15 mg/L	24.66 NTU	-172.5 mV	20.34 ft	200.00 ml/min
9/2/2025 12:53 PM	24:58	6.94 pH	15.32 °C	1.16 mS/cm	0.15 mg/L	17.92 NTU	-177.2 mV	20.34 ft	200.00 ml/min
9/2/2025 12:55 PM	26:45	6.95 pH	15.32 °C	1.16 mS/cm	0.15 mg/L	16.55 NTU	-179.5 mV	20.34 ft	200.00 ml/min
9/2/2025 12:56 PM	28:32	6.96 pH	15.43 °C	1.15 mS/cm	0.15 mg/L	16.75 NTU	-181.5 mV	20.36 ft	200.00 ml/min
9/2/2025 12:58 PM	30:19	6.96 pH	15.44 °C	1.16 mS/cm	0.15 mg/L	16.53 NTU	-180.3 mV	20.36 ft	200.00 ml/min
9/2/2025 1:00 PM	32:06	6.97 pH	15.34 °C	1.16 mS/cm	0.14 mg/L	40.02 NTU	-177.7 mV	20.36 ft	200.00 ml/min
9/2/2025 1:02 PM	33:53	6.97 pH	15.41 °C	1.16 mS/cm	0.14 mg/L	23.15 NTU	-179.2 mV	20.36 ft	200.00 ml/min
9/2/2025 1:04 PM	35:40	6.98 pH	15.47 °C	1.16 mS/cm	0.14 mg/L	18.13 NTU	-182.4 mV	20.36 ft	200.00 ml/min
9/2/2025 1:05 PM	37:27	6.99 pH	15.45 °C	1.16 mS/cm	0.14 mg/L	11.29 NTU	-184.5 mV	20.36 ft	200.00 ml/min
9/2/2025 1:07 PM	39:14	6.99 pH	15.60 °C	1.16 mS/cm	0.14 mg/L	12.30 NTU	-186.0 mV	20.36 ft	200.00 ml/min
9/2/2025 1:09 PM	41:01	7.00 pH	15.31 °C	1.15 mS/cm	0.13 mg/L	9.57 NTU	-186.2 mV	20.36 ft	200.00 ml/min
9/2/2025 1:11 PM	42:48	7.00 pH	15.48 °C	1.16 mS/cm	0.14 mg/L	11.42 NTU	-185.9 mV	20.36 ft	200.00 ml/min
9/2/2025 1:13 PM	44:35	7.01 pH	15.48 °C	1.16 mS/cm	0.13 mg/L	12.94 NTU	-186.7 mV	20.36 ft	200.00 ml/min
9/2/2025 1:14 PM	46:22	7.01 pH	15.45 °C	1.16 mS/cm	0.13 mg/L	11.39 NTU	-186.6 mV	20.36 ft	200.00 ml/min
9/2/2025 1:16 PM	48:09	7.02 pH	15.48 °C	1.16 mS/cm	0.13 mg/L	9.15 NTU	-185.6 mV	20.36 ft	200.00 ml/min
9/2/2025 1:18 PM	49:56	7.02 pH	15.48 °C	1.16 mS/cm	0.13 mg/L	10.41 NTU	-186.4 mV	20.36 ft	200.00 ml/min
9/2/2025 1:20 PM	51:43	7.02 pH	15.51 °C	1.16 mS/cm	0.13 mg/L	6.70 NTU	-186.2 mV	20.36 ft	200.00 ml/min
9/2/2025 1:21 PM	53:30	7.03 pH	15.47 °C	1.15 mS/cm	0.13 mg/L	4.95 NTU	-187.7 mV	20.36 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW27-GW-0925	PME - APP III

Low-Flow Test Report:

Test Date / Time: 9/3/2025 4:40:38 PM
Project: Neal South MW-28
Operator Name: Thao Larson

Location Name: MW-28 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 15.1 ft Total Depth: 30.1 ft Initial Depth to Water: 20.45 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 28.1 ft Pump Intake From TOC: 28.1 ft Estimated Total Volume Pumped: 6210 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.18 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 1730

Weather Conditions:
Overcast 64°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 4:40 PM	00:00	6.99 pH	15.75 °C	1.27 mS/cm	2.43 mg/L	202.36 NTU	-47.9 mV	20.45 ft	150.00 ml/min
9/3/2025 4:42 PM	01:48	7.01 pH	14.04 °C	1.26 mS/cm	0.82 mg/L	279.23 NTU	-55.9 mV	20.57 ft	150.00 ml/min
9/3/2025 4:44 PM	03:36	7.02 pH	13.75 °C	1.24 mS/cm	0.66 mg/L	385.67 NTU	-59.1 mV	20.66 ft	150.00 ml/min
9/3/2025 4:46 PM	05:24	7.02 pH	13.64 °C	1.23 mS/cm	0.53 mg/L	295.27 NTU	-59.6 mV	20.66 ft	150.00 ml/min
9/3/2025 4:47 PM	07:12	7.02 pH	13.64 °C	1.24 mS/cm	0.46 mg/L	153.26 NTU	-59.8 mV	20.63 ft	150.00 ml/min
9/3/2025 4:49 PM	09:00	7.03 pH	13.59 °C	1.19 mS/cm	0.42 mg/L	130.51 NTU	-59.8 mV	20.63 ft	150.00 ml/min
9/3/2025 4:51 PM	10:48	7.03 pH	13.61 °C	1.19 mS/cm	0.39 mg/L	68.37 NTU	-60.4 mV	20.63 ft	150.00 ml/min
9/3/2025 4:53 PM	12:36	7.03 pH	13.62 °C	1.20 mS/cm	0.36 mg/L	58.22 NTU	-60.8 mV	20.63 ft	150.00 ml/min
9/3/2025 4:55 PM	14:24	7.04 pH	13.55 °C	1.19 mS/cm	0.33 mg/L	45.62 NTU	-61.7 mV	20.63 ft	150.00 ml/min
9/3/2025 4:56 PM	16:12	7.04 pH	13.48 °C	1.18 mS/cm	0.30 mg/L	42.63 NTU	-61.7 mV	20.63 ft	150.00 ml/min
9/3/2025 4:58 PM	18:00	7.04 pH	13.42 °C	1.17 mS/cm	0.28 mg/L	31.92 NTU	-61.3 mV	20.63 ft	150.00 ml/min
9/3/2025 5:00 PM	19:48	7.04 pH	13.35 °C	1.18 mS/cm	0.27 mg/L	23.02 NTU	-61.4 mV	20.63 ft	150.00 ml/min

9/3/2025 5:02 PM	21:36	7.04 pH	13.33 °C	1.18 mS/cm	0.26 mg/L	21.51 NTU	-62.7 mV	20.63 ft	150.00 ml/min
9/3/2025 5:04 PM	23:24	7.05 pH	13.36 °C	1.17 mS/cm	0.24 mg/L	19.95 NTU	-63.6 mV	20.63 ft	150.00 ml/min
9/3/2025 5:05 PM	25:12	7.04 pH	13.38 °C	1.17 mS/cm	0.23 mg/L	20.61 NTU	-63.0 mV	20.63 ft	150.00 ml/min
9/3/2025 5:07 PM	27:00	7.05 pH	13.42 °C	1.17 mS/cm	0.22 mg/L	12.85 NTU	-63.2 mV	20.63 ft	150.00 ml/min
9/3/2025 5:09 PM	28:48	7.05 pH	13.45 °C	1.17 mS/cm	0.21 mg/L	17.66 NTU	-63.9 mV	20.63 ft	150.00 ml/min
9/3/2025 5:11 PM	30:36	7.05 pH	13.45 °C	1.17 mS/cm	0.21 mg/L	13.28 NTU	-64.3 mV	20.63 ft	150.00 ml/min
9/3/2025 5:13 PM	32:24	7.05 pH	13.54 °C	1.17 mS/cm	0.20 mg/L	11.27 NTU	-65.3 mV	20.63 ft	150.00 ml/min
9/3/2025 5:14 PM	34:12	7.05 pH	13.47 °C	1.17 mS/cm	0.20 mg/L	11.63 NTU	-65.0 mV	20.63 ft	150.00 ml/min
9/3/2025 5:16 PM	36:00	7.05 pH	13.50 °C	1.17 mS/cm	0.20 mg/L	7.28 NTU	-65.6 mV	20.63 ft	150.00 ml/min
9/3/2025 5:18 PM	37:48	7.05 pH	13.56 °C	1.17 mS/cm	0.19 mg/L	9.84 NTU	-65.1 mV	20.63 ft	150.00 ml/min
9/3/2025 5:20 PM	39:36	7.06 pH	13.49 °C	1.17 mS/cm	0.19 mg/L	6.39 NTU	-67.1 mV	20.63 ft	150.00 ml/min
9/3/2025 5:22 PM	41:24	7.06 pH	13.47 °C	1.17 mS/cm	0.18 mg/L	5.18 NTU	-66.8 mV	20.63 ft	150.00 ml/min

Samples

Sample ID:	Description:
MW28-GW-0926	PME + APP III

Low-Flow Test Report:

Test Date / Time: 9/3/2025 1:38:12 PM
Project: Neal South MW-29
Operator Name: Thao Larson

Location Name: MW-29 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 14.77 ft Total Depth: 29.77 ft Initial Depth to Water: 20.38 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 27.77 ft Pump Intake From TOC: 27.77 ft Estimated Total Volume Pumped: 16406.666 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.2 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 1505

Weather Conditions:
Overcast 64°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 1:38 PM	00:00	6.98 pH	15.32 °C	1.22 mS/cm	3.88 mg/L	399.99 NTU	-65.2 mV	20.38 ft	200.00 ml/min
9/3/2025 1:39 PM	01:47	7.01 pH	13.62 °C	1.25 mS/cm	1.46 mg/L	233.89 NTU	-81.8 mV	20.58 ft	200.00 ml/min
9/3/2025 1:41 PM	03:34	7.04 pH	13.41 °C	1.26 mS/cm	1.29 mg/L	160.07 NTU	-89.8 mV	20.58 ft	200.00 ml/min
9/3/2025 1:43 PM	05:21	7.06 pH	13.44 °C	1.27 mS/cm	1.24 mg/L	118.13 NTU	-93.8 mV	20.58 ft	200.00 ml/min
9/3/2025 1:45 PM	07:08	7.06 pH	13.44 °C	1.27 mS/cm	1.35 mg/L	111.96 NTU	-95.7 mV	20.58 ft	200.00 ml/min
9/3/2025 1:47 PM	08:55	7.07 pH	13.37 °C	1.27 mS/cm	1.32 mg/L	83.49 NTU	-96.8 mV	20.58 ft	200.00 ml/min
9/3/2025 1:48 PM	10:42	7.07 pH	13.36 °C	1.27 mS/cm	1.15 mg/L	65.54 NTU	-97.7 mV	20.58 ft	200.00 ml/min
9/3/2025 1:50 PM	12:29	7.07 pH	13.36 °C	1.27 mS/cm	1.11 mg/L	63.47 NTU	-98.4 mV	20.58 ft	200.00 ml/min
9/3/2025 1:52 PM	14:16	7.08 pH	13.41 °C	1.27 mS/cm	0.99 mg/L	49.97 NTU	-99.3 mV	20.58 ft	200.00 ml/min
9/3/2025 1:54 PM	16:03	7.08 pH	13.39 °C	1.27 mS/cm	0.90 mg/L	44.29 NTU	-100.0 mV	20.58 ft	200.00 ml/min
9/3/2025 1:56 PM	17:50	7.08 pH	13.30 °C	1.27 mS/cm	0.84 mg/L	39.36 NTU	-100.6 mV	20.58 ft	200.00 ml/min
9/3/2025 1:57 PM	19:37	7.08 pH	13.38 °C	1.27 mS/cm	0.74 mg/L	39.72 NTU	-101.5 mV	20.58 ft	200.00 ml/min

9/3/2025 1:59 PM	21:24	7.08 pH	13.46 °C	1.27 mS/cm	0.65 mg/L	35.70 NTU	-102.0 mV	20.58 ft	200.00 ml/min
9/3/2025 2:01 PM	23:11	7.09 pH	13.45 °C	1.27 mS/cm	0.60 mg/L	459.27 NTU	-104.1 mV	20.58 ft	200.00 ml/min
9/3/2025 2:03 PM	24:58	7.10 pH	13.31 °C	1.28 mS/cm	0.53 mg/L	198.51 NTU	-106.5 mV	20.58 ft	200.00 ml/min
9/3/2025 2:04 PM	26:45	7.11 pH	13.54 °C	1.28 mS/cm	0.52 mg/L	105.91 NTU	-109.9 mV	20.58 ft	200.00 ml/min
9/3/2025 2:06 PM	28:32	7.11 pH	13.52 °C	1.28 mS/cm	0.46 mg/L	98.57 NTU	-109.6 mV	20.58 ft	200.00 ml/min
9/3/2025 2:08 PM	30:19	7.11 pH	13.52 °C	1.28 mS/cm	0.42 mg/L	84.68 NTU	-109.8 mV	20.58 ft	200.00 ml/min
9/3/2025 2:10 PM	32:06	7.11 pH	13.65 °C	1.28 mS/cm	0.37 mg/L	89.09 NTU	-109.7 mV	20.58 ft	200.00 ml/min
9/3/2025 2:12 PM	33:53	7.11 pH	13.74 °C	1.28 mS/cm	0.35 mg/L	65.95 NTU	-110.9 mV	20.58 ft	200.00 ml/min
9/3/2025 2:13 PM	35:40	7.11 pH	13.71 °C	1.27 mS/cm	0.33 mg/L	81.26 NTU	-110.8 mV	20.58 ft	200.00 ml/min
9/3/2025 2:15 PM	37:27	7.08 pH	13.56 °C	1.26 mS/cm	0.75 mg/L	122.36 NTU	-98.6 mV	20.58 ft	200.00 ml/min
9/3/2025 2:17 PM	39:14	7.10 pH	13.76 °C	1.27 mS/cm	0.22 mg/L	55.96 NTU	-109.8 mV	20.58 ft	200.00 ml/min
9/3/2025 2:19 PM	41:01	7.10 pH	13.69 °C	1.27 mS/cm	0.20 mg/L	62.29 NTU	-109.0 mV	20.58 ft	200.00 ml/min
9/3/2025 2:21 PM	42:48	7.10 pH	13.60 °C	1.27 mS/cm	0.18 mg/L	52.98 NTU	-109.2 mV	20.58 ft	200.00 ml/min
9/3/2025 2:22 PM	44:35	7.09 pH	13.70 °C	1.27 mS/cm	0.17 mg/L	35.89 NTU	-109.8 mV	20.58 ft	200.00 ml/min
9/3/2025 2:24 PM	46:22	7.10 pH	13.75 °C	1.27 mS/cm	0.17 mg/L	30.57 NTU	-111.2 mV	20.58 ft	200.00 ml/min
9/3/2025 2:26 PM	48:09	7.10 pH	13.74 °C	1.27 mS/cm	0.16 mg/L	39.84 NTU	-110.9 mV	20.58 ft	200.00 ml/min
9/3/2025 2:28 PM	49:56	7.10 pH	13.79 °C	1.27 mS/cm	0.16 mg/L	21.36 NTU	-112.2 mV	20.58 ft	200.00 ml/min
9/3/2025 2:29 PM	51:43	7.10 pH	14.00 °C	1.27 mS/cm	0.14 mg/L	22.03 NTU	-111.9 mV	20.58 ft	200.00 ml/min
9/3/2025 2:31 PM	53:30	7.10 pH	14.12 °C	1.27 mS/cm	0.13 mg/L	17.81 NTU	-112.4 mV	20.58 ft	200.00 ml/min
9/3/2025 2:33 PM	55:17	7.10 pH	14.00 °C	1.27 mS/cm	0.13 mg/L	16.76 NTU	-113.1 mV	20.58 ft	200.00 ml/min
9/3/2025 2:35 PM	57:04	7.10 pH	14.18 °C	1.27 mS/cm	0.13 mg/L	16.20 NTU	-113.0 mV	20.58 ft	200.00 ml/min
9/3/2025 2:37 PM	58:51	7.09 pH	14.56 °C	1.27 mS/cm	0.11 mg/L	18.66 NTU	-112.8 mV	20.58 ft	200.00 ml/min
9/3/2025 2:38 PM	01:00:38	7.02 pH	14.64 °C	1.22 mS/cm	0.12 mg/L	450.84 NTU	-89.8 mV	20.58 ft	200.00 ml/min
9/3/2025 2:40 PM	01:02:25	6.95 pH	14.59 °C	1.22 mS/cm	0.13 mg/L	190.97 NTU	-76.6 mV	20.58 ft	200.00 ml/min
9/3/2025 2:42 PM	01:04:12	6.99 pH	14.94 °C	1.25 mS/cm	0.12 mg/L	102.51 NTU	-91.4 mV	20.58 ft	200.00 ml/min
9/3/2025 2:44 PM	01:05:59	7.05 pH	14.80 °C	1.27 mS/cm	0.10 mg/L	42.91 NTU	-105.0 mV	20.58 ft	200.00 ml/min
9/3/2025 2:45 PM	01:07:46	7.07 pH	14.70 °C	1.27 mS/cm	0.10 mg/L	21.49 NTU	-111.4 mV	20.58 ft	200.00 ml/min
9/3/2025 2:47 PM	01:09:33	7.08 pH	14.51 °C	1.27 mS/cm	0.10 mg/L	22.88 NTU	-113.0 mV	20.58 ft	200.00 ml/min
9/3/2025 2:49 PM	01:11:20	7.08 pH	14.32 °C	1.26 mS/cm	0.10 mg/L	17.46 NTU	-112.5 mV	20.58 ft	200.00 ml/min

9/3/2025 2:51 PM	01:13:07	7.08 pH	14.46 °C	1.27 mS/cm	0.13 mg/L	10.33 NTU	-114.2 mV	20.58 ft	200.00 ml/min
9/3/2025 2:53 PM	01:14:54	7.09 pH	14.56 °C	1.27 mS/cm	0.11 mg/L	9.78 NTU	-114.3 mV	20.58 ft	200.00 ml/min
9/3/2025 2:54 PM	01:16:41	7.10 pH	14.39 °C	1.26 mS/cm	0.11 mg/L	8.52 NTU	-115.4 mV	20.58 ft	200.00 ml/min
9/3/2025 2:56 PM	01:18:28	7.09 pH	14.40 °C	1.26 mS/cm	0.12 mg/L	12.22 NTU	-115.3 mV	20.58 ft	200.00 ml/min
9/3/2025 2:58 PM	01:20:15	7.09 pH	14.45 °C	1.27 mS/cm	0.10 mg/L	6.86 NTU	-115.2 mV	20.58 ft	200.00 ml/min
9/3/2025 3:00 PM	01:22:02	7.10 pH	14.36 °C	1.26 mS/cm	0.09 mg/L	6.17 NTU	-115.4 mV	20.58 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW29-GW-0925	PME +APP III

Low-Flow Test Report:

Test Date / Time: 9/3/2025 12:02:26 PM
Project: Neal South MW-30
Operator Name: Thao Larson

Location Name: MW-30 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 15.1 ft Total Depth: 30.1 ft Initial Depth to Water: 20.22 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 28.1 ft Pump Intake From TOC: 28.1 ft Estimated Total Volume Pumped: 11340 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.09 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 1325

Weather Conditions:
Overcast 64°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 12:02 PM	00:00	6.98 pH	15.15 °C	1.18 mS/cm	3.10 mg/L	264.11 NTU	-102.1 mV	20.22 ft	150.00 ml/min
9/3/2025 12:04 PM	01:48	7.06 pH	13.93 °C	1.18 mS/cm	1.61 mg/L	122.95 NTU	-108.3 mV	20.31 ft	150.00 ml/min
9/3/2025 12:06 PM	03:36	7.09 pH	13.69 °C	1.18 mS/cm	1.39 mg/L	90.61 NTU	-110.7 mV	20.31 ft	150.00 ml/min
9/3/2025 12:07 PM	05:24	7.09 pH	13.67 °C	1.18 mS/cm	1.29 mg/L	99.42 NTU	-111.3 mV	20.31 ft	150.00 ml/min
9/3/2025 12:09 PM	07:12	7.10 pH	13.57 °C	1.18 mS/cm	1.19 mg/L	68.46 NTU	-112.0 mV	20.31 ft	150.00 ml/min
9/3/2025 12:11 PM	09:00	7.10 pH	13.52 °C	1.18 mS/cm	1.11 mg/L	72.16 NTU	-112.7 mV	20.31 ft	150.00 ml/min
9/3/2025 12:13 PM	10:48	7.11 pH	13.60 °C	1.18 mS/cm	1.03 mg/L	64.70 NTU	-113.4 mV	20.31 ft	150.00 ml/min
9/3/2025 12:15 PM	12:36	7.12 pH	13.60 °C	1.18 mS/cm	0.95 mg/L	60.86 NTU	-114.3 mV	20.31 ft	150.00 ml/min
9/3/2025 12:16 PM	14:24	7.12 pH	13.60 °C	1.18 mS/cm	0.87 mg/L	48.22 NTU	-114.2 mV	20.31 ft	150.00 ml/min
9/3/2025 12:18 PM	16:12	7.12 pH	13.57 °C	1.19 mS/cm	0.81 mg/L	51.71 NTU	-113.9 mV	20.31 ft	150.00 ml/min
9/3/2025 12:20 PM	18:00	7.12 pH	13.61 °C	1.19 mS/cm	0.72 mg/L	51.04 NTU	-113.0 mV	20.31 ft	150.00 ml/min
9/3/2025 12:22 PM	19:48	7.12 pH	13.52 °C	1.19 mS/cm	0.79 mg/L	46.53 NTU	-112.3 mV	20.31 ft	150.00 ml/min

9/3/2025 12:24 PM	21:36	7.11 pH	13.43 °C	1.20 mS/cm	0.74 mg/L	43.64 NTU	-110.6 mV	20.31 ft	150.00 ml/min
9/3/2025 12:25 PM	23:24	7.11 pH	13.41 °C	1.21 mS/cm	0.69 mg/L	39.08 NTU	-109.3 mV	20.31 ft	150.00 ml/min
9/3/2025 12:27 PM	25:12	7.10 pH	13.34 °C	1.21 mS/cm	0.67 mg/L	40.48 NTU	-108.6 mV	20.31 ft	150.00 ml/min
9/3/2025 12:29 PM	27:00	7.11 pH	13.33 °C	1.21 mS/cm	0.67 mg/L	34.52 NTU	-109.5 mV	20.31 ft	150.00 ml/min
9/3/2025 12:31 PM	28:48	7.11 pH	13.30 °C	1.21 mS/cm	0.63 mg/L	31.65 NTU	-110.4 mV	20.31 ft	150.00 ml/min
9/3/2025 12:33 PM	30:36	7.11 pH	13.27 °C	1.21 mS/cm	0.55 mg/L	32.49 NTU	-110.4 mV	20.31 ft	150.00 ml/min
9/3/2025 12:34 PM	32:24	7.11 pH	13.24 °C	1.21 mS/cm	0.48 mg/L	33.98 NTU	-110.7 mV	20.31 ft	150.00 ml/min
9/3/2025 12:36 PM	34:12	7.12 pH	13.24 °C	1.21 mS/cm	0.45 mg/L	29.85 NTU	-111.9 mV	20.31 ft	150.00 ml/min
9/3/2025 12:38 PM	36:00	7.12 pH	13.26 °C	1.21 mS/cm	0.43 mg/L	29.51 NTU	-112.4 mV	20.31 ft	150.00 ml/min
9/3/2025 12:40 PM	37:48	7.12 pH	13.27 °C	1.21 mS/cm	0.44 mg/L	30.70 NTU	-112.9 mV	20.31 ft	150.00 ml/min
9/3/2025 12:42 PM	39:36	7.11 pH	13.33 °C	1.22 mS/cm	0.42 mg/L	22.83 NTU	-112.0 mV	20.31 ft	150.00 ml/min
9/3/2025 12:43 PM	41:24	7.12 pH	13.38 °C	1.22 mS/cm	0.41 mg/L	28.21 NTU	-112.5 mV	20.31 ft	150.00 ml/min
9/3/2025 12:45 PM	43:12	7.11 pH	13.33 °C	1.22 mS/cm	0.36 mg/L	23.48 NTU	-112.1 mV	20.31 ft	150.00 ml/min
9/3/2025 12:47 PM	45:00	7.11 pH	13.35 °C	1.22 mS/cm	0.33 mg/L	18.94 NTU	-111.8 mV	20.31 ft	150.00 ml/min
9/3/2025 12:49 PM	46:48	7.11 pH	13.35 °C	1.22 mS/cm	0.32 mg/L	24.98 NTU	-112.3 mV	20.31 ft	150.00 ml/min
9/3/2025 12:51 PM	48:36	7.11 pH	13.31 °C	1.22 mS/cm	0.30 mg/L	15.93 NTU	-112.2 mV	20.31 ft	150.00 ml/min
9/3/2025 12:52 PM	50:24	7.11 pH	13.29 °C	1.22 mS/cm	0.28 mg/L	16.38 NTU	-112.4 mV	20.31 ft	150.00 ml/min
9/3/2025 12:54 PM	52:12	7.11 pH	13.36 °C	1.23 mS/cm	0.29 mg/L	14.88 NTU	-112.3 mV	20.31 ft	150.00 ml/min
9/3/2025 12:56 PM	54:00	7.11 pH	13.43 °C	1.23 mS/cm	0.31 mg/L	97.26 NTU	-112.5 mV	20.31 ft	150.00 ml/min
9/3/2025 12:58 PM	55:48	7.11 pH	13.78 °C	1.23 mS/cm	0.34 mg/L	30.11 NTU	-111.3 mV	20.31 ft	150.00 ml/min
9/3/2025 1:00 PM	57:36	7.12 pH	13.44 °C	1.23 mS/cm	0.90 mg/L	12.62 NTU	-105.0 mV	20.31 ft	150.00 ml/min
9/3/2025 1:01 PM	59:24	7.10 pH	13.58 °C	1.22 mS/cm	0.27 mg/L	15.55 NTU	-109.0 mV	20.31 ft	150.00 ml/min
9/3/2025 1:03 PM	01:01:12	7.10 pH	13.54 °C	1.22 mS/cm	0.21 mg/L	11.44 NTU	-111.3 mV	20.31 ft	150.00 ml/min
9/3/2025 1:05 PM	01:03:00	7.09 pH	13.57 °C	1.23 mS/cm	0.19 mg/L	6.91 NTU	-111.4 mV	20.31 ft	150.00 ml/min
9/3/2025 1:07 PM	01:04:48	7.09 pH	13.58 °C	1.23 mS/cm	0.19 mg/L	7.30 NTU	-111.3 mV	20.31 ft	150.00 ml/min
9/3/2025 1:09 PM	01:06:36	7.09 pH	13.50 °C	1.23 mS/cm	0.18 mg/L	8.93 NTU	-110.9 mV	20.31 ft	150.00 ml/min
9/3/2025 1:10 PM	01:08:24	7.09 pH	13.56 °C	1.23 mS/cm	0.19 mg/L	8.50 NTU	-111.4 mV	20.31 ft	150.00 ml/min
9/3/2025 1:12 PM	01:10:12	7.09 pH	13.58 °C	1.24 mS/cm	0.16 mg/L	6.62 NTU	-111.9 mV	20.31 ft	150.00 ml/min
9/3/2025 1:14 PM	01:12:00	7.09 pH	13.65 °C	1.24 mS/cm	0.16 mg/L	7.26 NTU	-111.8 mV	20.31 ft	150.00 ml/min

9/3/2025 1:16 PM	01:13:48	7.09 pH	13.62 °C	1.24 mS/cm	0.16 mg/L	5.60 NTU	-111.8 mV	20.31 ft	150.00 ml/min
9/3/2025 1:18 PM	01:15:36	7.10 pH	13.57 °C	1.24 mS/cm	0.15 mg/L	4.73 NTU	-112.5 mV	20.31 ft	150.00 ml/min

Samples

Sample ID:	Description:
MW30-GW-0925	PME - APP III

Low-Flow Test Report:

Test Date / Time: 9/3/2025 11:19:38 AM
Project: Neal South MW-31
Operator Name: Thao Larson

Location Name: MW-31 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 14.9 ft Total Depth: 29.9 ft Initial Depth to Water: 20.15 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 27.9 ft Pump Intake From TOC: 27.9 ft Estimated Total Volume Pumped: 3923.333 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 1145

Weather Conditions:
Raining 64°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 11:19 AM	00:00	7.01 pH	13.62 °C	1.23 mS/cm	1.46 mg/L	47.12 NTU	-12.3 mV	20.15 ft	200.00 ml/min
9/3/2025 11:21 AM	01:47	7.00 pH	13.66 °C	1.23 mS/cm	1.12 mg/L	21.51 NTU	6.9 mV	20.17 ft	200.00 ml/min
9/3/2025 11:23 AM	03:34	6.99 pH	14.01 °C	1.23 mS/cm	1.21 mg/L	5.31 NTU	13.5 mV	20.17 ft	200.00 ml/min
9/3/2025 11:24 AM	05:21	7.00 pH	14.29 °C	1.24 mS/cm	1.27 mg/L	5.08 NTU	16.0 mV	20.17 ft	200.00 ml/min
9/3/2025 11:26 AM	07:08	7.01 pH	14.54 °C	1.24 mS/cm	1.29 mg/L	6.49 NTU	17.3 mV	20.17 ft	200.00 ml/min
9/3/2025 11:28 AM	08:55	7.01 pH	14.75 °C	1.24 mS/cm	1.34 mg/L	5.00 NTU	18.3 mV	20.17 ft	200.00 ml/min
9/3/2025 11:30 AM	10:42	7.02 pH	14.94 °C	1.24 mS/cm	1.39 mg/L	4.24 NTU	19.0 mV	20.17 ft	200.00 ml/min
9/3/2025 11:32 AM	12:29	7.02 pH	15.11 °C	1.24 mS/cm	1.43 mg/L	4.28 NTU	19.5 mV	20.17 ft	200.00 ml/min
9/3/2025 11:33 AM	14:16	7.00 pH	17.05 °C	1.24 mS/cm	1.73 mg/L	21.98 NTU	17.4 mV	20.17 ft	200.00 ml/min
9/3/2025 11:35 AM	16:03	7.02 pH	13.76 °C	1.23 mS/cm	0.86 mg/L	7.51 NTU	13.6 mV	20.17 ft	200.00 ml/min
9/3/2025 11:37 AM	17:50	7.00 pH	13.41 °C	1.23 mS/cm	0.73 mg/L	6.39 NTU	5.4 mV	20.17 ft	200.00 ml/min
9/3/2025 11:39 AM	19:37	7.00 pH	13.38 °C	1.23 mS/cm	0.66 mg/L	4.79 NTU	4.9 mV	20.17 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW31-GW-0925	PME and APP III

Low-Flow Test Report:

Test Date / Time: 9/2/2025 3:09:21 PM
Project: Neal South MW-32
Operator Name: Thao Larson

Location Name: MW-32 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 14.8 ft Total Depth: 29.8 ft Initial Depth to Water: 20.26 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 27.8 ft Pump Intake From TOC: 27.8 ft Estimated Total Volume Pumped: 12126.667 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.15 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 1610

Weather Conditions:
Sunny 74°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/2/2025 3:09 PM	00:00	6.76 pH	16.77 °C	1.50 mS/cm	1.58 mg/L	238.33 NTU	-40.2 mV	20.26 ft	200.00 ml/min
9/2/2025 3:11 PM	01:47	6.77 pH	15.11 °C	1.52 mS/cm	0.39 mg/L	180.53 NTU	-50.5 mV	20.40 ft	200.00 ml/min
9/2/2025 3:12 PM	03:34	6.78 pH	14.22 °C	1.53 mS/cm	0.33 mg/L	159.29 NTU	-51.4 mV	20.41 ft	200.00 ml/min
9/2/2025 3:14 PM	05:21	6.75 pH	14.24 °C	1.53 mS/cm	0.29 mg/L	135.13 NTU	-51.4 mV	20.41 ft	200.00 ml/min
9/2/2025 3:16 PM	07:08	6.73 pH	14.37 °C	1.53 mS/cm	0.25 mg/L	79.27 NTU	-51.3 mV	20.41 ft	200.00 ml/min
9/2/2025 3:18 PM	08:55	6.72 pH	14.22 °C	1.53 mS/cm	0.24 mg/L	78.80 NTU	-51.1 mV	20.41 ft	200.00 ml/min
9/2/2025 3:20 PM	10:42	6.71 pH	14.16 °C	1.54 mS/cm	0.23 mg/L	61.24 NTU	-50.9 mV	20.41 ft	200.00 ml/min
9/2/2025 3:21 PM	12:29	6.71 pH	14.35 °C	1.54 mS/cm	0.29 mg/L	55.32 NTU	-51.5 mV	20.41 ft	200.00 ml/min
9/2/2025 3:23 PM	14:16	6.71 pH	14.41 °C	1.54 mS/cm	0.28 mg/L	39.61 NTU	-53.0 mV	20.41 ft	200.00 ml/min
9/2/2025 3:25 PM	16:03	6.72 pH	14.21 °C	1.54 mS/cm	0.22 mg/L	45.14 NTU	-53.1 mV	20.41 ft	200.00 ml/min
9/2/2025 3:27 PM	17:50	6.72 pH	14.24 °C	1.54 mS/cm	0.21 mg/L	30.19 NTU	-54.0 mV	20.41 ft	200.00 ml/min
9/2/2025 3:28 PM	19:37	6.72 pH	14.35 °C	1.54 mS/cm	0.22 mg/L	30.13 NTU	-54.4 mV	20.41 ft	200.00 ml/min

9/2/2025 3:30 PM	21:24	6.73 pH	14.27 °C	1.54 mS/cm	0.21 mg/L	24.15 NTU	-55.6 mV	20.41 ft	200.00 ml/min
9/2/2025 3:32 PM	23:11	6.73 pH	14.29 °C	1.54 mS/cm	0.22 mg/L	28.43 NTU	-55.7 mV	20.41 ft	200.00 ml/min
9/2/2025 3:34 PM	24:58	6.73 pH	14.31 °C	1.54 mS/cm	0.20 mg/L	24.50 NTU	-54.9 mV	20.41 ft	200.00 ml/min
9/2/2025 3:36 PM	26:45	6.74 pH	14.36 °C	1.54 mS/cm	0.21 mg/L	23.27 NTU	-55.0 mV	20.41 ft	200.00 ml/min
9/2/2025 3:37 PM	28:32	6.74 pH	14.28 °C	1.54 mS/cm	0.28 mg/L	21.89 NTU	-55.0 mV	20.41 ft	200.00 ml/min
9/2/2025 3:39 PM	30:19	6.75 pH	14.35 °C	1.54 mS/cm	0.20 mg/L	20.02 NTU	-55.2 mV	20.41 ft	200.00 ml/min
9/2/2025 3:41 PM	32:06	6.76 pH	14.61 °C	1.54 mS/cm	0.29 mg/L	19.29 NTU	-56.2 mV	20.41 ft	200.00 ml/min
9/2/2025 3:43 PM	33:53	6.77 pH	14.55 °C	1.54 mS/cm	0.37 mg/L	17.57 NTU	-56.8 mV	20.41 ft	200.00 ml/min
9/2/2025 3:45 PM	35:40	6.78 pH	14.63 °C	1.54 mS/cm	0.18 mg/L	18.27 NTU	-57.4 mV	20.41 ft	200.00 ml/min
9/2/2025 3:46 PM	37:27	6.78 pH	14.56 °C	1.54 mS/cm	0.21 mg/L	12.47 NTU	-57.9 mV	20.41 ft	200.00 ml/min
9/2/2025 3:48 PM	39:14	6.79 pH	14.64 °C	1.54 mS/cm	0.20 mg/L	12.69 NTU	-59.1 mV	20.41 ft	200.00 ml/min
9/2/2025 3:50 PM	41:01	6.80 pH	14.37 °C	1.54 mS/cm	0.19 mg/L	15.84 NTU	-59.1 mV	20.41 ft	200.00 ml/min
9/2/2025 3:52 PM	42:48	6.80 pH	14.45 °C	1.54 mS/cm	0.18 mg/L	10.04 NTU	-59.1 mV	20.41 ft	200.00 ml/min
9/2/2025 3:53 PM	44:35	6.80 pH	14.35 °C	1.54 mS/cm	0.18 mg/L	11.13 NTU	-58.9 mV	20.41 ft	200.00 ml/min
9/2/2025 3:55 PM	46:22	6.81 pH	14.49 °C	1.54 mS/cm	0.20 mg/L	11.51 NTU	-59.4 mV	20.41 ft	200.00 ml/min
9/2/2025 3:57 PM	48:09	6.81 pH	14.56 °C	1.54 mS/cm	0.19 mg/L	8.34 NTU	-59.2 mV	20.41 ft	200.00 ml/min
9/2/2025 3:59 PM	49:56	6.81 pH	14.54 °C	1.54 mS/cm	0.22 mg/L	8.78 NTU	-58.9 mV	20.41 ft	200.00 ml/min
9/2/2025 4:01 PM	51:43	6.81 pH	14.60 °C	1.54 mS/cm	0.18 mg/L	7.44 NTU	-59.6 mV	20.41 ft	200.00 ml/min
9/2/2025 4:02 PM	53:30	6.81 pH	14.48 °C	1.54 mS/cm	0.16 mg/L	8.90 NTU	-59.4 mV	20.41 ft	200.00 ml/min
9/2/2025 4:04 PM	55:17	6.81 pH	14.40 °C	1.54 mS/cm	0.16 mg/L	9.43 NTU	-58.6 mV	20.41 ft	200.00 ml/min
9/2/2025 4:06 PM	57:04	6.81 pH	14.41 °C	1.54 mS/cm	0.15 mg/L	14.09 NTU	-59.0 mV	20.41 ft	200.00 ml/min
9/2/2025 4:08 PM	58:51	6.81 pH	14.25 °C	1.54 mS/cm	0.15 mg/L	6.26 NTU	-58.5 mV	20.41 ft	200.00 ml/min
9/2/2025 4:09 PM	01:00:38	6.81 pH	14.14 °C	1.54 mS/cm	0.14 mg/L	4.65 NTU	-57.8 mV	20.41 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW32-GW-0925	PME

Low-Flow Test Report:

Test Date / Time: 9/3/2025 3:33:04 PM
Project: Neal South MW-33
Operator Name: Thao Larson

Location Name: MW-33 Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 175.9 ft Total Depth: 195.9 ft Initial Depth to Water: 20.36 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 28.1 ft Pump Intake From TOC: 28.1 ft Estimated Total Volume Pumped: 9720 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.17 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 1630

Weather Conditions:
Overcast 64°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 3:33 PM	00:00	6.84 pH	16.19 °C	1.61 mS/cm	3.84 mg/L	136.85 NTU	-12.3 mV	20.36 ft	200.00 ml/min
9/3/2025 3:34 PM	01:48	6.75 pH	14.27 °C	1.63 mS/cm	2.21 mg/L	127.41 NTU	-12.0 mV	20.53 ft	200.00 ml/min
9/3/2025 3:36 PM	03:36	6.75 pH	14.01 °C	1.63 mS/cm	2.34 mg/L	116.33 NTU	-12.1 mV	20.53 ft	200.00 ml/min
9/3/2025 3:38 PM	05:24	6.75 pH	13.97 °C	1.63 mS/cm	2.35 mg/L	110.48 NTU	-11.7 mV	20.53 ft	200.00 ml/min
9/3/2025 3:40 PM	07:12	6.74 pH	13.92 °C	1.62 mS/cm	2.19 mg/L	108.91 NTU	-12.8 mV	20.53 ft	200.00 ml/min
9/3/2025 3:42 PM	09:00	6.77 pH	14.11 °C	1.70 mS/cm	2.27 mg/L	99.17 NTU	-17.0 mV	20.53 ft	200.00 ml/min
9/3/2025 3:43 PM	10:48	6.75 pH	13.72 °C	1.69 mS/cm	2.15 mg/L	87.78 NTU	-16.6 mV	20.53 ft	200.00 ml/min
9/3/2025 3:45 PM	12:36	6.74 pH	13.86 °C	1.70 mS/cm	2.14 mg/L	91.77 NTU	-16.6 mV	20.53 ft	200.00 ml/min
9/3/2025 3:47 PM	14:24	6.73 pH	13.90 °C	1.71 mS/cm	2.15 mg/L	93.17 NTU	-15.8 mV	20.53 ft	200.00 ml/min
9/3/2025 3:49 PM	16:12	6.73 pH	13.97 °C	1.71 mS/cm	1.93 mg/L	74.08 NTU	-16.4 mV	20.53 ft	200.00 ml/min
9/3/2025 3:51 PM	18:00	6.74 pH	14.05 °C	1.71 mS/cm	1.81 mg/L	74.01 NTU	-17.3 mV	20.53 ft	200.00 ml/min
9/3/2025 3:52 PM	19:48	6.79 pH	13.67 °C	1.68 mS/cm	2.82 mg/L	70.04 NTU	-22.2 mV	20.53 ft	200.00 ml/min

9/3/2025 3:54 PM	21:36	6.75 pH	14.14 °C	1.69 mS/cm	1.20 mg/L	51.18 NTU	-19.6 mV	20.53 ft	200.00 ml/min
9/3/2025 3:56 PM	23:24	6.75 pH	14.31 °C	1.69 mS/cm	0.98 mg/L	59.66 NTU	-20.2 mV	20.53 ft	200.00 ml/min
9/3/2025 3:58 PM	25:12	6.75 pH	14.35 °C	1.69 mS/cm	0.88 mg/L	46.80 NTU	-21.7 mV	20.53 ft	200.00 ml/min
9/3/2025 4:00 PM	27:00	6.76 pH	14.31 °C	1.69 mS/cm	0.82 mg/L	69.55 NTU	-22.8 mV	20.53 ft	200.00 ml/min
9/3/2025 4:01 PM	28:48	6.76 pH	14.31 °C	1.69 mS/cm	0.72 mg/L	37.77 NTU	-23.6 mV	20.53 ft	200.00 ml/min
9/3/2025 4:03 PM	30:36	6.76 pH	14.13 °C	1.69 mS/cm	0.66 mg/L	26.68 NTU	-24.9 mV	20.53 ft	200.00 ml/min
9/3/2025 4:05 PM	32:24	6.76 pH	14.04 °C	1.69 mS/cm	0.58 mg/L	20.64 NTU	-25.6 mV	20.53 ft	200.00 ml/min
9/3/2025 4:07 PM	34:12	6.76 pH	14.09 °C	1.69 mS/cm	0.70 mg/L	23.33 NTU	-26.6 mV	20.53 ft	200.00 ml/min
9/3/2025 4:09 PM	36:00	6.77 pH	14.11 °C	1.69 mS/cm	0.79 mg/L	21.70 NTU	-27.8 mV	20.53 ft	200.00 ml/min
9/3/2025 4:10 PM	37:48	6.77 pH	14.10 °C	1.68 mS/cm	0.55 mg/L	17.73 NTU	-28.8 mV	20.53 ft	200.00 ml/min
9/3/2025 4:12 PM	39:36	6.77 pH	14.08 °C	1.68 mS/cm	0.46 mg/L	14.06 NTU	-29.7 mV	20.53 ft	200.00 ml/min
9/3/2025 4:14 PM	41:24	6.77 pH	14.15 °C	1.68 mS/cm	0.39 mg/L	11.55 NTU	-31.0 mV	20.53 ft	200.00 ml/min
9/3/2025 4:16 PM	43:12	6.77 pH	14.00 °C	1.68 mS/cm	0.33 mg/L	9.36 NTU	-32.3 mV	20.53 ft	200.00 ml/min
9/3/2025 4:18 PM	45:00	6.78 pH	13.73 °C	1.68 mS/cm	0.32 mg/L	8.08 NTU	-32.8 mV	20.53 ft	200.00 ml/min
9/3/2025 4:19 PM	46:48	6.77 pH	13.75 °C	1.68 mS/cm	0.30 mg/L	9.93 NTU	-33.3 mV	20.53 ft	200.00 ml/min
9/3/2025 4:21 PM	48:36	6.77 pH	13.63 °C	1.68 mS/cm	0.28 mg/L	5.47 NTU	-34.3 mV	20.53 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW33-GW-0925	PME

Low-Flow Test Report:

Test Date / Time: 9/2/2025 1:44:56 PM
Project: Neal South MW-34
Operator Name: Thao Larson

Location Name: MW-34 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 15.1 ft Total Depth: 30.1 ft Initial Depth to Water: 20.56 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 28.1 ft Pump Intake From TOC: 28.1 ft Estimated Total Volume Pumped: 13320 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 1455

Weather Conditions:
Sunny 74°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/2/2025 1:44 PM	00:00	6.80 pH	16.51 °C	1.35 mS/cm	1.03 mg/L	221.86 NTU	-11.7 mV	20.56 ft	200.00 ml/min
9/2/2025 1:46 PM	01:48	6.80 pH	15.41 °C	1.36 mS/cm	0.70 mg/L	187.20 NTU	-6.5 mV	20.57 ft	200.00 ml/min
9/2/2025 1:48 PM	03:36	6.76 pH	15.60 °C	1.36 mS/cm	0.60 mg/L	102.78 NTU	-4.9 mV	20.57 ft	200.00 ml/min
9/2/2025 1:50 PM	05:24	6.75 pH	15.55 °C	1.36 mS/cm	0.54 mg/L	99.60 NTU	-6.2 mV	20.57 ft	200.00 ml/min
9/2/2025 1:52 PM	07:12	6.75 pH	14.91 °C	1.36 mS/cm	0.48 mg/L	78.81 NTU	-10.9 mV	20.57 ft	200.00 ml/min
9/2/2025 1:53 PM	09:00	6.74 pH	15.26 °C	1.36 mS/cm	0.45 mg/L	62.99 NTU	-17.9 mV	20.57 ft	200.00 ml/min
9/2/2025 1:55 PM	10:48	6.75 pH	14.92 °C	1.36 mS/cm	0.44 mg/L	65.82 NTU	-23.7 mV	20.57 ft	200.00 ml/min
9/2/2025 1:57 PM	12:36	6.75 pH	15.13 °C	1.36 mS/cm	0.43 mg/L	71.00 NTU	-25.5 mV	20.57 ft	200.00 ml/min
9/2/2025 1:59 PM	14:24	6.75 pH	15.20 °C	1.36 mS/cm	0.37 mg/L	53.38 NTU	-27.1 mV	20.57 ft	200.00 ml/min
9/2/2025 2:01 PM	16:12	6.76 pH	15.32 °C	1.36 mS/cm	0.35 mg/L	64.20 NTU	-31.9 mV	20.57 ft	200.00 ml/min
9/2/2025 2:02 PM	18:00	6.76 pH	15.55 °C	1.36 mS/cm	0.37 mg/L	51.52 NTU	-33.4 mV	20.57 ft	200.00 ml/min
9/2/2025 2:04 PM	19:48	6.78 pH	15.75 °C	1.36 mS/cm	0.42 mg/L	38.64 NTU	-34.1 mV	20.57 ft	200.00 ml/min

9/2/2025 2:06 PM	21:36	6.78 pH	17.39 °C	1.37 mS/cm	0.40 mg/L	39.76 NTU	-35.3 mV	20.57 ft	200.00 ml/min
9/2/2025 2:08 PM	23:24	6.81 pH	17.12 °C	1.35 mS/cm	0.46 mg/L	43.63 NTU	-37.9 mV	20.57 ft	200.00 ml/min
9/2/2025 2:10 PM	25:12	6.85 pH	15.88 °C	1.35 mS/cm	0.38 mg/L	45.24 NTU	-42.7 mV	20.57 ft	200.00 ml/min
9/2/2025 2:11 PM	27:00	6.85 pH	15.68 °C	1.35 mS/cm	0.29 mg/L	36.42 NTU	-41.1 mV	20.57 ft	200.00 ml/min
9/2/2025 2:13 PM	28:48	6.86 pH	15.28 °C	1.35 mS/cm	0.29 mg/L	42.03 NTU	-42.0 mV	20.57 ft	200.00 ml/min
9/2/2025 2:15 PM	30:36	6.85 pH	15.61 °C	1.36 mS/cm	0.26 mg/L	31.70 NTU	-42.5 mV	20.57 ft	200.00 ml/min
9/2/2025 2:17 PM	32:24	6.86 pH	15.34 °C	1.36 mS/cm	0.26 mg/L	27.28 NTU	-44.8 mV	20.57 ft	200.00 ml/min
9/2/2025 2:19 PM	34:12	6.86 pH	15.29 °C	1.36 mS/cm	0.24 mg/L	27.09 NTU	-45.2 mV	20.57 ft	200.00 ml/min
9/2/2025 2:20 PM	36:00	6.86 pH	15.52 °C	1.36 mS/cm	0.27 mg/L	24.11 NTU	-45.9 mV	20.57 ft	200.00 ml/min
9/2/2025 2:22 PM	37:48	6.87 pH	15.66 °C	1.36 mS/cm	0.24 mg/L	27.88 NTU	-47.0 mV	20.57 ft	200.00 ml/min
9/2/2025 2:24 PM	39:36	6.87 pH	15.61 °C	1.35 mS/cm	0.24 mg/L	29.46 NTU	-48.2 mV	20.57 ft	200.00 ml/min
9/2/2025 2:26 PM	41:24	6.88 pH	15.61 °C	1.35 mS/cm	0.23 mg/L	25.40 NTU	-49.0 mV	20.57 ft	200.00 ml/min
9/2/2025 2:28 PM	43:12	6.88 pH	15.52 °C	1.36 mS/cm	0.22 mg/L	23.58 NTU	-49.9 mV	20.57 ft	200.00 ml/min
9/2/2025 2:29 PM	45:00	6.89 pH	14.93 °C	1.36 mS/cm	0.80 mg/L	70.68 NTU	-47.1 mV	20.57 ft	200.00 ml/min
9/2/2025 2:31 PM	46:48	6.86 pH	15.44 °C	1.36 mS/cm	0.20 mg/L	28.27 NTU	-47.5 mV	20.57 ft	200.00 ml/min
9/2/2025 2:33 PM	48:36	6.85 pH	15.41 °C	1.36 mS/cm	0.18 mg/L	19.42 NTU	-51.6 mV	20.57 ft	200.00 ml/min
9/2/2025 2:35 PM	50:24	6.85 pH	15.61 °C	1.36 mS/cm	0.16 mg/L	15.10 NTU	-53.3 mV	20.57 ft	200.00 ml/min
9/2/2025 2:37 PM	52:12	6.85 pH	15.70 °C	1.36 mS/cm	0.16 mg/L	12.37 NTU	-54.4 mV	20.57 ft	200.00 ml/min
9/2/2025 2:38 PM	54:00	6.85 pH	15.67 °C	1.36 mS/cm	0.16 mg/L	10.23 NTU	-55.1 mV	20.57 ft	200.00 ml/min
9/2/2025 2:40 PM	55:48	6.86 pH	15.57 °C	1.36 mS/cm	0.16 mg/L	10.57 NTU	-55.5 mV	20.57 ft	200.00 ml/min
9/2/2025 2:42 PM	57:36	6.86 pH	15.53 °C	1.36 mS/cm	0.16 mg/L	11.64 NTU	-56.4 mV	20.57 ft	200.00 ml/min
9/2/2025 2:44 PM	59:24	6.86 pH	15.59 °C	1.36 mS/cm	0.16 mg/L	6.85 NTU	-57.1 mV	20.57 ft	200.00 ml/min
9/2/2025 2:46 PM	01:01:12	6.86 pH	15.57 °C	1.36 mS/cm	0.15 mg/L	7.95 NTU	-57.9 mV	20.57 ft	200.00 ml/min
9/2/2025 2:47 PM	01:03:00	6.86 pH	15.66 °C	1.36 mS/cm	0.15 mg/L	6.57 NTU	-58.1 mV	20.57 ft	200.00 ml/min
9/2/2025 2:49 PM	01:04:48	6.86 pH	15.64 °C	1.36 mS/cm	0.15 mg/L	6.02 NTU	-60.0 mV	20.57 ft	200.00 ml/min
9/2/2025 2:51 PM	01:06:36	6.87 pH	15.43 °C	1.36 mS/cm	0.14 mg/L	5.40 NTU	-60.0 mV	20.57 ft	200.00 ml/min

Samples

Sample ID:	Description:

MW34-GW-0925	PME

Low-Flow Test Report:

Test Date / Time: 9/2/2025 4:26:47 PM
Project: Neal South MW-36
Operator Name: Thao Larson

Location Name: MW-36 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 142.2 ft Total Depth: 152.2 ft Initial Depth to Water: 20.37 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 28.1 ft Pump Intake From TOC: 28.1 ft Estimated Total Volume Pumped: 3780 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 1655

Weather Conditions:
Sunny 74°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/2/2025 4:26 PM	00:00	7.03 pH	16.89 °C	1.29 mS/cm	2.57 mg/L	212.74 NTU	22.9 mV	20.37 ft	150.00 ml/min
9/2/2025 4:28 PM	01:48	6.90 pH	14.91 °C	1.33 mS/cm	0.94 mg/L	112.86 NTU	14.5 mV	20.38 ft	150.00 ml/min
9/2/2025 4:30 PM	03:36	6.88 pH	14.33 °C	1.33 mS/cm	0.82 mg/L	65.36 NTU	11.0 mV	20.40 ft	150.00 ml/min
9/2/2025 4:32 PM	05:24	6.87 pH	14.39 °C	1.33 mS/cm	0.61 mg/L	41.82 NTU	6.8 mV	20.40 ft	150.00 ml/min
9/2/2025 4:33 PM	07:12	6.87 pH	14.62 °C	1.32 mS/cm	0.64 mg/L	34.87 NTU	0.4 mV	20.40 ft	150.00 ml/min
9/2/2025 4:35 PM	09:00	6.88 pH	14.77 °C	1.32 mS/cm	0.52 mg/L	24.48 NTU	-11.9 mV	20.40 ft	150.00 ml/min
9/2/2025 4:37 PM	10:48	6.89 pH	14.86 °C	1.31 mS/cm	0.58 mg/L	15.45 NTU	-23.2 mV	20.40 ft	150.00 ml/min
9/2/2025 4:39 PM	12:36	6.90 pH	14.81 °C	1.31 mS/cm	0.60 mg/L	12.40 NTU	-31.9 mV	20.40 ft	150.00 ml/min
9/2/2025 4:41 PM	14:24	6.90 pH	14.85 °C	1.30 mS/cm	0.47 mg/L	9.67 NTU	-40.1 mV	20.40 ft	150.00 ml/min
9/2/2025 4:42 PM	16:12	6.91 pH	14.78 °C	1.30 mS/cm	0.44 mg/L	8.74 NTU	-46.7 mV	20.40 ft	150.00 ml/min
9/2/2025 4:44 PM	18:00	6.91 pH	14.84 °C	1.30 mS/cm	0.43 mg/L	6.93 NTU	-50.1 mV	20.40 ft	150.00 ml/min
9/2/2025 4:46 PM	19:48	6.91 pH	14.74 °C	1.30 mS/cm	0.39 mg/L	7.40 NTU	-53.2 mV	20.40 ft	150.00 ml/min

9/2/2025 4:48 PM	21:36	6.92 pH	14.73 °C	1.29 mS/cm	0.40 mg/L	5.56 NTU	-55.7 mV	20.40 ft	150.00 ml/min
9/2/2025 4:50 PM	23:24	6.92 pH	14.78 °C	1.30 mS/cm	0.37 mg/L	6.26 NTU	-57.4 mV	20.40 ft	150.00 ml/min
9/2/2025 4:51 PM	25:12	6.93 pH	14.76 °C	1.30 mS/cm	0.34 mg/L	4.32 NTU	-59.1 mV	20.40 ft	150.00 ml/min

Samples

Sample ID:	Description:
MW36-GW-0925	PME

Low-Flow Test Report:

Test Date / Time: 9/2/2025 5:17:33 PM
Project: Neal South MW-43
Operator Name: Thao Larson

Location Name: MW-43 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 16.4 ft Total Depth: 31.4 ft Initial Depth to Water: 22.01 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 29.4 ft Pump Intake From TOC: 29.4 ft Estimated Total Volume Pumped: 8120 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 1815

Weather Conditions:
Sunny 74°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/2/2025 5:17 PM	00:00	6.93 pH	22.37 °C	1.53 mS/cm	1.78 mg/L	69.82 NTU	-106.2 mV	22.01 ft	150.00 ml/min
9/2/2025 5:19 PM	01:52	7.19 pH	16.14 °C	1.64 mS/cm	0.61 mg/L	8.95 NTU	-138.9 mV	22.03 ft	150.00 ml/min
9/2/2025 5:21 PM	03:44	7.24 pH	15.74 °C	1.65 mS/cm	0.53 mg/L	8.84 NTU	-140.5 mV	22.03 ft	150.00 ml/min
9/2/2025 5:23 PM	05:36	7.22 pH	15.72 °C	1.65 mS/cm	0.50 mg/L	16.42 NTU	-147.4 mV	22.03 ft	150.00 ml/min
9/2/2025 5:25 PM	07:28	7.21 pH	15.74 °C	1.65 mS/cm	0.49 mg/L	17.41 NTU	-146.9 mV	22.03 ft	150.00 ml/min
9/2/2025 5:26 PM	09:20	7.20 pH	15.73 °C	1.64 mS/cm	0.47 mg/L	17.17 NTU	-145.7 mV	22.03 ft	150.00 ml/min
9/2/2025 5:28 PM	11:12	7.21 pH	15.61 °C	1.63 mS/cm	0.33 mg/L	21.08 NTU	-143.7 mV	22.03 ft	150.00 ml/min
9/2/2025 5:30 PM	13:04	7.21 pH	15.60 °C	1.62 mS/cm	0.29 mg/L	14.09 NTU	-144.5 mV	22.03 ft	150.00 ml/min
9/2/2025 5:32 PM	14:56	7.22 pH	15.56 °C	1.61 mS/cm	0.27 mg/L	14.15 NTU	-145.5 mV	22.03 ft	150.00 ml/min
9/2/2025 5:34 PM	16:48	7.23 pH	15.64 °C	1.61 mS/cm	0.26 mg/L	10.00 NTU	-146.2 mV	22.03 ft	150.00 ml/min
9/2/2025 5:36 PM	18:40	7.24 pH	15.61 °C	1.60 mS/cm	0.26 mg/L	13.70 NTU	-147.0 mV	22.03 ft	150.00 ml/min
9/2/2025 5:38 PM	20:32	7.25 pH	15.58 °C	1.59 mS/cm	0.26 mg/L	13.13 NTU	-147.9 mV	22.03 ft	150.00 ml/min

9/2/2025 5:39 PM	22:24	7.26 pH	15.56 °C	1.58 mS/cm	0.25 mg/L	11.23 NTU	-148.4 mV	22.03 ft	150.00 ml/min
9/2/2025 5:41 PM	24:16	7.26 pH	15.50 °C	1.57 mS/cm	0.24 mg/L	11.47 NTU	-148.0 mV	22.03 ft	150.00 ml/min
9/2/2025 5:43 PM	26:08	7.27 pH	15.59 °C	1.57 mS/cm	0.24 mg/L	9.83 NTU	-148.3 mV	22.03 ft	150.00 ml/min
9/2/2025 5:45 PM	28:00	7.28 pH	15.56 °C	1.57 mS/cm	0.23 mg/L	8.91 NTU	-148.9 mV	22.03 ft	150.00 ml/min
9/2/2025 5:47 PM	29:52	7.28 pH	15.63 °C	1.56 mS/cm	0.23 mg/L	9.65 NTU	-148.9 mV	22.03 ft	150.00 ml/min
9/2/2025 5:49 PM	31:44	7.29 pH	15.62 °C	1.56 mS/cm	0.23 mg/L	10.72 NTU	-148.5 mV	22.03 ft	150.00 ml/min
9/2/2025 5:51 PM	33:36	7.29 pH	15.62 °C	1.55 mS/cm	0.24 mg/L	11.38 NTU	-149.3 mV	22.03 ft	150.00 ml/min
9/2/2025 5:53 PM	35:28	7.30 pH	15.58 °C	1.55 mS/cm	0.25 mg/L	13.00 NTU	-150.2 mV	22.03 ft	150.00 ml/min
9/2/2025 5:54 PM	37:20	7.30 pH	15.55 °C	1.55 mS/cm	0.25 mg/L	14.57 NTU	-150.0 mV	22.03 ft	150.00 ml/min
9/2/2025 5:56 PM	39:12	7.31 pH	15.51 °C	1.54 mS/cm	0.23 mg/L	16.68 NTU	-150.6 mV	22.03 ft	150.00 ml/min
9/2/2025 5:58 PM	41:04	7.31 pH	15.52 °C	1.55 mS/cm	0.18 mg/L	12.54 NTU	-150.7 mV	22.03 ft	150.00 ml/min
9/2/2025 6:00 PM	42:56	7.31 pH	15.53 °C	1.54 mS/cm	0.17 mg/L	11.75 NTU	-151.8 mV	22.03 ft	150.00 ml/min
9/2/2025 6:02 PM	44:48	7.32 pH	15.51 °C	1.54 mS/cm	0.17 mg/L	12.88 NTU	-151.9 mV	22.03 ft	150.00 ml/min
9/2/2025 6:04 PM	46:40	7.32 pH	15.62 °C	1.53 mS/cm	0.17 mg/L	16.55 NTU	-152.4 mV	22.03 ft	150.00 ml/min
9/2/2025 6:06 PM	48:32	7.33 pH	15.76 °C	1.44 mS/cm	0.17 mg/L	17.92 NTU	-149.5 mV	22.03 ft	150.00 ml/min
9/2/2025 6:07 PM	50:24	7.34 pH	15.74 °C	1.44 mS/cm	0.16 mg/L	4.25 NTU	-147.4 mV	22.03 ft	150.00 ml/min
9/2/2025 6:09 PM	52:16	7.34 pH	15.78 °C	1.45 mS/cm	0.16 mg/L	5.60 NTU	-146.8 mV	22.03 ft	150.00 ml/min
9/2/2025 6:11 PM	54:08	7.34 pH	15.70 °C	1.45 mS/cm	0.16 mg/L	4.83 NTU	-146.5 mV	22.03 ft	150.00 ml/min

Samples

Sample ID:	Description:
MW43-GW-0925	PME

Low-Flow Test Report:

Test Date / Time: 9/3/2025 7:46:19 AM
Project: Neal South MW-49
Operator Name: Thao Larson

Location Name: MW-49 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 11.1 ft Total Depth: 26.1 ft Initial Depth to Water: 17.04 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 24.1 ft Pump Intake From TOC: 24.1 ft Estimated Total Volume Pumped: 15040 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 0905

Weather Conditions:
Overcast 64°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 7:46 AM	00:00	6.90 pH	14.90 °C	0.96 mS/cm	1.80 mg/L	8.31 NTU	-68.7 mV	17.04 ft	200.00 ml/min
9/3/2025 7:47 AM	01:36	7.12 pH	14.18 °C	0.96 mS/cm	0.84 mg/L	82.56 NTU	-110.8 mV	17.07 ft	200.00 ml/min
9/3/2025 7:49 AM	03:12	7.20 pH	13.91 °C	0.95 mS/cm	0.58 mg/L	139.65 NTU	-130.2 mV	17.07 ft	200.00 ml/min
9/3/2025 7:51 AM	04:48	7.22 pH	13.87 °C	0.94 mS/cm	0.43 mg/L	60.31 NTU	-134.2 mV	17.05 ft	200.00 ml/min
9/3/2025 7:52 AM	06:24	7.24 pH	13.84 °C	0.95 mS/cm	0.40 mg/L	15.98 NTU	-135.1 mV	17.05 ft	200.00 ml/min
9/3/2025 7:54 AM	08:00	7.25 pH	13.84 °C	0.94 mS/cm	0.38 mg/L	10.41 NTU	-137.8 mV	17.05 ft	200.00 ml/min
9/3/2025 7:55 AM	09:36	7.26 pH	13.79 °C	0.93 mS/cm	0.35 mg/L	8.67 NTU	-136.6 mV	17.05 ft	200.00 ml/min
9/3/2025 7:57 AM	11:12	7.26 pH	13.83 °C	0.93 mS/cm	0.34 mg/L	8.91 NTU	-135.0 mV	17.05 ft	200.00 ml/min
9/3/2025 7:59 AM	12:48	7.27 pH	13.79 °C	0.93 mS/cm	0.32 mg/L	13.90 NTU	-134.2 mV	17.05 ft	200.00 ml/min
9/3/2025 8:00 AM	14:24	7.27 pH	13.79 °C	0.93 mS/cm	0.32 mg/L	9.98 NTU	-134.1 mV	17.05 ft	200.00 ml/min
9/3/2025 8:02 AM	16:00	7.28 pH	13.77 °C	0.92 mS/cm	0.32 mg/L	10.96 NTU	-133.8 mV	17.05 ft	200.00 ml/min
9/3/2025 8:03 AM	17:36	7.28 pH	13.72 °C	0.92 mS/cm	0.30 mg/L	7.75 NTU	-133.4 mV	17.05 ft	200.00 ml/min

9/3/2025 8:05 AM	19:12	7.28 pH	13.74 °C	0.92 mS/cm	0.31 mg/L	11.07 NTU	-132.3 mV	17.05 ft	200.00 ml/min
9/3/2025 8:07 AM	20:48	7.28 pH	13.81 °C	0.91 mS/cm	0.29 mg/L	8.65 NTU	-132.2 mV	17.05 ft	200.00 ml/min
9/3/2025 8:08 AM	22:24	7.28 pH	13.84 °C	0.91 mS/cm	0.32 mg/L	9.41 NTU	-131.0 mV	17.05 ft	200.00 ml/min
9/3/2025 8:10 AM	24:00	7.28 pH	13.73 °C	0.91 mS/cm	0.29 mg/L	9.30 NTU	-131.1 mV	17.05 ft	200.00 ml/min
9/3/2025 8:11 AM	25:36	7.29 pH	13.75 °C	0.91 mS/cm	0.26 mg/L	10.57 NTU	-131.1 mV	17.05 ft	200.00 ml/min
9/3/2025 8:13 AM	27:12	7.28 pH	13.79 °C	0.91 mS/cm	0.25 mg/L	9.64 NTU	-130.9 mV	17.05 ft	200.00 ml/min
9/3/2025 8:15 AM	28:48	7.29 pH	13.83 °C	0.91 mS/cm	0.26 mg/L	9.81 NTU	-130.2 mV	17.05 ft	200.00 ml/min
9/3/2025 8:16 AM	30:24	7.29 pH	13.77 °C	0.90 mS/cm	0.26 mg/L	13.87 NTU	-130.5 mV	17.05 ft	200.00 ml/min
9/3/2025 8:18 AM	32:00	7.29 pH	13.87 °C	0.90 mS/cm	0.25 mg/L	15.17 NTU	-130.2 mV	17.05 ft	200.00 ml/min
9/3/2025 8:19 AM	33:36	7.29 pH	13.93 °C	0.90 mS/cm	0.24 mg/L	10.82 NTU	-129.7 mV	17.05 ft	200.00 ml/min
9/3/2025 8:21 AM	35:12	7.29 pH	13.97 °C	0.90 mS/cm	0.24 mg/L	33.26 NTU	-129.1 mV	17.05 ft	200.00 ml/min
9/3/2025 8:23 AM	36:48	7.30 pH	13.98 °C	0.89 mS/cm	0.22 mg/L	13.17 NTU	-130.4 mV	17.05 ft	200.00 ml/min
9/3/2025 8:24 AM	38:24	7.30 pH	14.08 °C	0.89 mS/cm	0.22 mg/L	48.78 NTU	-130.6 mV	17.05 ft	200.00 ml/min
9/3/2025 8:26 AM	40:00	7.31 pH	14.19 °C	0.89 mS/cm	0.20 mg/L	7.69 NTU	-131.7 mV	17.05 ft	200.00 ml/min
9/3/2025 8:27 AM	41:36	7.31 pH	14.22 °C	0.89 mS/cm	0.20 mg/L	7.32 NTU	-131.0 mV	17.05 ft	200.00 ml/min
9/3/2025 8:29 AM	43:12	7.31 pH	14.12 °C	0.89 mS/cm	0.19 mg/L	8.14 NTU	-131.1 mV	17.05 ft	200.00 ml/min
9/3/2025 8:31 AM	44:48	7.32 pH	14.14 °C	0.89 mS/cm	0.19 mg/L	13.58 NTU	-132.4 mV	17.05 ft	200.00 ml/min
9/3/2025 8:32 AM	46:24	7.32 pH	14.10 °C	0.89 mS/cm	0.18 mg/L	9.89 NTU	-132.2 mV	17.05 ft	200.00 ml/min
9/3/2025 8:34 AM	48:00	7.31 pH	14.12 °C	0.89 mS/cm	0.18 mg/L	14.41 NTU	-131.5 mV	17.05 ft	200.00 ml/min
9/3/2025 8:35 AM	49:36	7.31 pH	14.02 °C	0.89 mS/cm	0.19 mg/L	10.34 NTU	-131.1 mV	17.05 ft	200.00 ml/min
9/3/2025 8:37 AM	51:12	7.31 pH	14.21 °C	0.86 mS/cm	0.18 mg/L	10.09 NTU	-131.8 mV	17.05 ft	200.00 ml/min
9/3/2025 8:39 AM	52:48	7.31 pH	14.26 °C	0.86 mS/cm	0.18 mg/L	16.57 NTU	-132.6 mV	17.05 ft	200.00 ml/min
9/3/2025 8:40 AM	54:24	7.31 pH	13.87 °C	0.86 mS/cm	1.08 mg/L	19.29 NTU	-118.7 mV	17.05 ft	200.00 ml/min
9/3/2025 8:42 AM	56:00	7.31 pH	14.22 °C	0.85 mS/cm	0.26 mg/L	16.91 NTU	-124.3 mV	17.05 ft	200.00 ml/min
9/3/2025 8:43 AM	57:36	7.31 pH	14.27 °C	0.86 mS/cm	0.21 mg/L	16.57 NTU	-126.2 mV	17.05 ft	200.00 ml/min
9/3/2025 8:45 AM	59:12	7.31 pH	14.34 °C	0.86 mS/cm	0.20 mg/L	16.74 NTU	-127.9 mV	17.05 ft	200.00 ml/min
9/3/2025 8:47 AM	01:00:48	7.32 pH	14.28 °C	0.86 mS/cm	0.22 mg/L	7.94 NTU	-128.2 mV	17.05 ft	200.00 ml/min
9/3/2025 8:48 AM	01:02:24	7.32 pH	14.24 °C	0.85 mS/cm	0.20 mg/L	8.28 NTU	-129.2 mV	17.05 ft	200.00 ml/min
9/3/2025 8:50 AM	01:04:00	7.32 pH	14.28 °C	0.86 mS/cm	0.22 mg/L	7.47 NTU	-130.0 mV	17.05 ft	200.00 ml/min

9/3/2025 8:51 AM	01:05:36	7.32 pH	14.26 °C	0.87 mS/cm	0.21 mg/L	7.48 NTU	-129.2 mV	17.05 ft	200.00 ml/min
9/3/2025 8:53 AM	01:07:12	7.31 pH	14.26 °C	0.88 mS/cm	0.20 mg/L	10.56 NTU	-128.9 mV	17.05 ft	200.00 ml/min
9/3/2025 8:55 AM	01:08:48	7.32 pH	14.35 °C	0.87 mS/cm	0.20 mg/L	9.90 NTU	-129.1 mV	17.05 ft	200.00 ml/min
9/3/2025 8:56 AM	01:10:24	7.31 pH	14.35 °C	0.86 mS/cm	0.20 mg/L	8.64 NTU	-130.3 mV	17.05 ft	200.00 ml/min
9/3/2025 8:58 AM	01:12:00	7.33 pH	14.21 °C	0.85 mS/cm	0.18 mg/L	7.38 NTU	-131.0 mV	17.05 ft	200.00 ml/min
9/3/2025 8:59 AM	01:13:36	7.33 pH	14.25 °C	0.86 mS/cm	0.18 mg/L	7.95 NTU	-130.8 mV	17.05 ft	200.00 ml/min
9/3/2025 9:01 AM	01:15:12	7.33 pH	14.24 °C	0.85 mS/cm	0.17 mg/L	5.75 NTU	-131.2 mV	17.05 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW49-GW-0925	PME

Low-Flow Test Report:

Test Date / Time: 9/2/2025 6:25:42 PM
Project: Neal South MW-50
Operator Name: Thao Larson

Location Name: MW-50 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 11.2 ft Total Depth: 26.2 ft Initial Depth to Water: 15.86 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 24.2 ft Pump Intake From TOC: 24.2 ft Estimated Total Volume Pumped: 3233.333 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.24 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 1845

Weather Conditions:
Sunny 74°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/2/2025 6:25 PM	00:00	6.96 pH	17.96 °C	1.64 mS/cm	3.38 mg/L	63.99 NTU	12.6 mV	15.86 ft	200.00 ml/min
9/2/2025 6:27 PM	01:37	6.84 pH	16.07 °C	1.56 mS/cm	0.38 mg/L	24.50 NTU	12.2 mV	16.01 ft	200.00 ml/min
9/2/2025 6:28 PM	03:14	6.83 pH	15.81 °C	1.55 mS/cm	0.30 mg/L	22.73 NTU	13.6 mV	16.05 ft	200.00 ml/min
9/2/2025 6:30 PM	04:51	6.82 pH	15.59 °C	1.55 mS/cm	0.28 mg/L	17.52 NTU	15.3 mV	16.05 ft	200.00 ml/min
9/2/2025 6:32 PM	06:28	6.81 pH	15.60 °C	1.55 mS/cm	0.27 mg/L	10.51 NTU	16.6 mV	16.07 ft	200.00 ml/min
9/2/2025 6:33 PM	08:05	6.81 pH	15.53 °C	1.55 mS/cm	0.25 mg/L	7.58 NTU	17.5 mV	16.07 ft	200.00 ml/min
9/2/2025 6:35 PM	09:42	6.81 pH	15.52 °C	1.55 mS/cm	0.24 mg/L	4.69 NTU	16.8 mV	16.10 ft	200.00 ml/min
9/2/2025 6:37 PM	11:19	6.81 pH	15.50 °C	1.55 mS/cm	0.24 mg/L	4.75 NTU	15.2 mV	16.10 ft	200.00 ml/min
9/2/2025 6:38 PM	12:56	6.82 pH	15.42 °C	1.55 mS/cm	0.24 mg/L	3.54 NTU	13.4 mV	16.10 ft	200.00 ml/min
9/2/2025 6:40 PM	14:33	6.82 pH	15.39 °C	1.55 mS/cm	0.24 mg/L	2.49 NTU	11.9 mV	16.10 ft	200.00 ml/min
9/2/2025 6:41 PM	16:10	6.82 pH	15.44 °C	1.56 mS/cm	0.24 mg/L	2.27 NTU	10.6 mV	16.10 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW50-GW-0925	PME
DP02-GW-0925	PME

Low-Flow Test Report:

Test Date / Time: 9/3/2025 10:01:07 AM
Project: Neal South MW-51
Operator Name: Thao Larson

Location Name: MW-51 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 10.3 ft Total Depth: 25.3 ft Initial Depth to Water: 16.92 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 23.3 ft Pump Intake From TOC: 23.3 ft Estimated Total Volume Pumped: 6736.667 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.81 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 1055

Weather Conditions:
Raining 64°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 10:01 AM	00:00	6.85 pH	15.02 °C	1.56 mS/cm	3.79 mg/L	389.52 NTU	28.2 mV	16.92 ft	200.00 ml/min
9/3/2025 10:02 AM	01:34	6.80 pH	13.87 °C	1.57 mS/cm	0.66 mg/L	153.15 NTU	29.7 mV	17.31 ft	200.00 ml/min
9/3/2025 10:04 AM	03:08	6.79 pH	13.54 °C	1.57 mS/cm	0.48 mg/L	75.18 NTU	34.6 mV	17.50 ft	150.00 ml/min
9/3/2025 10:05 AM	04:42	6.78 pH	13.72 °C	1.58 mS/cm	0.46 mg/L	59.55 NTU	37.1 mV	17.55 ft	150.00 ml/min
9/3/2025 10:07 AM	06:16	6.77 pH	14.07 °C	1.58 mS/cm	0.50 mg/L	141.72 NTU	32.4 mV	17.55 ft	150.00 ml/min
9/3/2025 10:08 AM	07:50	6.78 pH	14.16 °C	1.58 mS/cm	0.49 mg/L	61.24 NTU	33.4 mV	17.55 ft	150.00 ml/min
9/3/2025 10:10 AM	09:24	6.78 pH	14.18 °C	1.57 mS/cm	0.48 mg/L	67.74 NTU	32.7 mV	17.59 ft	150.00 ml/min
9/3/2025 10:12 AM	10:58	6.78 pH	14.19 °C	1.57 mS/cm	0.46 mg/L	44.28 NTU	34.0 mV	17.59 ft	150.00 ml/min
9/3/2025 10:13 AM	12:32	6.78 pH	14.20 °C	1.57 mS/cm	0.45 mg/L	36.16 NTU	34.0 mV	17.59 ft	150.00 ml/min
9/3/2025 10:15 AM	14:06	6.78 pH	14.23 °C	1.57 mS/cm	0.41 mg/L	38.43 NTU	35.3 mV	17.64 ft	150.00 ml/min
9/3/2025 10:16 AM	15:40	6.78 pH	14.23 °C	1.58 mS/cm	0.40 mg/L	27.95 NTU	36.2 mV	17.64 ft	150.00 ml/min
9/3/2025 10:18 AM	17:14	6.79 pH	14.21 °C	1.58 mS/cm	0.39 mg/L	26.66 NTU	37.3 mV	17.67 ft	150.00 ml/min

9/3/2025 10:19 AM	18:48	6.79 pH	14.31 °C	1.58 mS/cm	0.39 mg/L	22.60 NTU	37.6 mV	17.67 ft	150.00 ml/min
9/3/2025 10:21 AM	20:22	6.78 pH	14.27 °C	1.58 mS/cm	0.38 mg/L	21.92 NTU	38.4 mV	17.69 ft	150.00 ml/min
9/3/2025 10:23 AM	21:56	6.79 pH	14.33 °C	1.58 mS/cm	0.38 mg/L	19.75 NTU	38.4 mV	17.69 ft	150.00 ml/min
9/3/2025 10:24 AM	23:30	6.79 pH	14.41 °C	1.58 mS/cm	0.37 mg/L	18.34 NTU	38.6 mV	17.69 ft	150.00 ml/min
9/3/2025 10:26 AM	25:04	6.79 pH	14.41 °C	1.58 mS/cm	0.36 mg/L	20.34 NTU	38.6 mV	17.69 ft	150.00 ml/min
9/3/2025 10:27 AM	26:38	6.79 pH	14.34 °C	1.58 mS/cm	0.33 mg/L	18.11 NTU	39.4 mV	17.69 ft	150.00 ml/min
9/3/2025 10:29 AM	28:12	6.79 pH	14.31 °C	1.58 mS/cm	0.33 mg/L	16.01 NTU	38.7 mV	17.70 ft	150.00 ml/min
9/3/2025 10:30 AM	29:46	6.79 pH	14.17 °C	1.58 mS/cm	0.32 mg/L	12.02 NTU	39.3 mV	17.73 ft	150.00 ml/min
9/3/2025 10:32 AM	31:20	6.79 pH	14.16 °C	1.58 mS/cm	0.31 mg/L	12.77 NTU	39.0 mV	17.70 ft	150.00 ml/min
9/3/2025 10:34 AM	32:54	6.79 pH	14.11 °C	1.58 mS/cm	0.29 mg/L	9.43 NTU	38.6 mV	17.73 ft	150.00 ml/min
9/3/2025 10:35 AM	34:28	6.79 pH	14.15 °C	1.58 mS/cm	0.29 mg/L	9.00 NTU	39.0 mV	17.73 ft	150.00 ml/min
9/3/2025 10:37 AM	36:02	6.79 pH	14.12 °C	1.58 mS/cm	0.29 mg/L	7.74 NTU	39.3 mV	17.73 ft	150.00 ml/min
9/3/2025 10:38 AM	37:36	6.80 pH	14.15 °C	1.58 mS/cm	0.29 mg/L	9.02 NTU	39.4 mV	17.73 ft	150.00 ml/min
9/3/2025 10:40 AM	39:10	6.80 pH	14.15 °C	1.58 mS/cm	0.27 mg/L	7.17 NTU	39.7 mV	17.73 ft	150.00 ml/min
9/3/2025 10:41 AM	40:44	6.80 pH	14.13 °C	1.58 mS/cm	0.26 mg/L	7.95 NTU	39.6 mV	17.73 ft	150.00 ml/min
9/3/2025 10:43 AM	42:18	6.80 pH	14.09 °C	1.58 mS/cm	0.27 mg/L	7.11 NTU	38.9 mV	17.73 ft	150.00 ml/min
9/3/2025 10:44 AM	43:52	6.80 pH	14.08 °C	1.58 mS/cm	0.26 mg/L	5.54 NTU	38.3 mV	17.73 ft	150.00 ml/min

Samples

Sample ID:	Description:
MW51-GW-0925	PME
MW51-GW-0925 MS	PME
MW51-GW-0925 MSD	PME

Low-Flow Test Report:

Test Date / Time: 9/3/2025 9:15:52 AM
Project: Neal South MW-52
Operator Name: Thao Larson

Location Name: MW-52 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 7.6 ft Total Depth: 25.6 ft Initial Depth to Water: 15.28 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 23.6 ft Pump Intake From TOC: 23.6 ft Estimated Total Volume Pumped: 4512.5 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.62 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 0950

Weather Conditions:
Overcast 64°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 9:15 AM	00:00	6.95 pH	15.73 °C	1.61 mS/cm	1.82 mg/L	262.42 NTU	4.7 mV	15.28 ft	150.00 ml/min
9/3/2025 9:17 AM	01:35	6.94 pH	15.01 °C	1.62 mS/cm	0.67 mg/L	89.69 NTU	3.4 mV	15.51 ft	150.00 ml/min
9/3/2025 9:19 AM	03:10	6.93 pH	14.93 °C	1.62 mS/cm	0.50 mg/L	43.30 NTU	2.8 mV	15.60 ft	150.00 ml/min
9/3/2025 9:20 AM	04:45	6.93 pH	14.86 °C	1.62 mS/cm	0.41 mg/L	27.97 NTU	1.9 mV	15.65 ft	150.00 ml/min
9/3/2025 9:22 AM	06:20	6.93 pH	14.88 °C	1.62 mS/cm	0.37 mg/L	24.49 NTU	0.9 mV	15.70 ft	150.00 ml/min
9/3/2025 9:23 AM	07:55	6.93 pH	14.89 °C	1.62 mS/cm	0.34 mg/L	14.35 NTU	-0.2 mV	15.77 ft	150.00 ml/min
9/3/2025 9:25 AM	09:30	6.93 pH	14.96 °C	1.62 mS/cm	0.32 mg/L	15.86 NTU	-1.3 mV	15.83 ft	150.00 ml/min
9/3/2025 9:26 AM	11:05	6.93 pH	14.95 °C	1.63 mS/cm	0.30 mg/L	18.16 NTU	-2.7 mV	15.83 ft	150.00 ml/min
9/3/2025 9:28 AM	12:40	6.93 pH	15.01 °C	1.63 mS/cm	0.29 mg/L	17.50 NTU	-2.3 mV	15.83 ft	150.00 ml/min
9/3/2025 9:30 AM	14:15	6.93 pH	15.01 °C	1.63 mS/cm	0.28 mg/L	14.56 NTU	-1.4 mV	15.83 ft	150.00 ml/min
9/3/2025 9:31 AM	15:50	6.93 pH	14.97 °C	1.64 mS/cm	0.28 mg/L	16.08 NTU	-0.9 mV	15.83 ft	150.00 ml/min
9/3/2025 9:33 AM	17:25	6.92 pH	15.01 °C	1.64 mS/cm	0.28 mg/L	11.11 NTU	-0.1 mV	15.83 ft	150.00 ml/min

9/3/2025 9:34 AM	19:00	6.93 pH	14.90 °C	1.64 mS/cm	0.27 mg/L	15.77 NTU	0.7 mV	15.83 ft	150.00 ml/min
9/3/2025 9:36 AM	20:35	6.93 pH	14.77 °C	1.64 mS/cm	0.30 mg/L	8.64 NTU	0.9 mV	15.83 ft	150.00 ml/min
9/3/2025 9:38 AM	22:10	6.92 pH	14.75 °C	1.64 mS/cm	0.29 mg/L	8.46 NTU	0.9 mV	15.83 ft	150.00 ml/min
9/3/2025 9:39 AM	23:45	6.92 pH	14.70 °C	1.64 mS/cm	0.29 mg/L	9.33 NTU	0.7 mV	15.83 ft	150.00 ml/min
9/3/2025 9:41 AM	25:20	6.92 pH	14.78 °C	1.64 mS/cm	0.30 mg/L	7.12 NTU	0.4 mV	15.89 ft	150.00 ml/min
9/3/2025 9:42 AM	26:55	6.92 pH	14.77 °C	1.64 mS/cm	0.29 mg/L	6.28 NTU	0.1 mV	15.89 ft	150.00 ml/min
9/3/2025 9:44 AM	28:30	6.92 pH	14.91 °C	1.64 mS/cm	0.29 mg/L	5.12 NTU	-0.4 mV	15.89 ft	150.00 ml/min
9/3/2025 9:45 AM	30:05	6.93 pH	14.95 °C	1.64 mS/cm	0.29 mg/L	3.32 NTU	-1.2 mV	15.90 ft	150.00 ml/min

Samples

Sample ID:	Description:
MW52-GW-0925	PME

Low-Flow Test Report:

Test Date / Time: 9/3/2025 7:16:33 AM
Project: Neal South MW-53
Operator Name: Thao Larson

Location Name: MW-53 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 8.2 ft Total Depth: 26.1 ft Initial Depth to Water: 15.23 ft	Pump Type: Peristaltic Pump Tubing Type: 1/4 ID Polyethylene Tubing Inner Diameter: 0.25 in Tubing Length: 24.1 ft Pump Intake From TOC: 24.1 ft Estimated Total Volume Pumped: 3200 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 600 Serial Number: 876572

Test Notes:
Sample time 0735

Weather Conditions:
Overcast 64°F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 20	+/- 5	
9/3/2025 7:16 AM	00:00	6.46 pH	16.67 °C	1.27 mS/cm	7.62 mg/L	27.04 NTU	156.5 mV	15.23 ft	200.00 ml/min
9/3/2025 7:18 AM	01:36	6.97 pH	15.32 °C	1.28 mS/cm	7.87 mg/L	4.19 NTU	144.6 mV	15.25 ft	200.00 ml/min
9/3/2025 7:19 AM	03:12	7.03 pH	14.99 °C	1.28 mS/cm	8.03 mg/L	8.59 NTU	137.7 mV	15.27 ft	200.00 ml/min
9/3/2025 7:21 AM	04:48	7.01 pH	15.01 °C	1.28 mS/cm	8.07 mg/L	4.31 NTU	133.4 mV	15.27 ft	200.00 ml/min
9/3/2025 7:22 AM	06:24	6.99 pH	15.07 °C	1.28 mS/cm	8.09 mg/L	3.29 NTU	130.6 mV	15.27 ft	200.00 ml/min
9/3/2025 7:24 AM	08:00	6.98 pH	15.07 °C	1.28 mS/cm	8.14 mg/L	3.54 NTU	127.5 mV	15.27 ft	200.00 ml/min
9/3/2025 7:26 AM	09:36	6.98 pH	15.14 °C	1.28 mS/cm	8.13 mg/L	2.21 NTU	124.5 mV	15.27 ft	200.00 ml/min
9/3/2025 7:27 AM	11:12	6.99 pH	15.12 °C	1.28 mS/cm	8.15 mg/L	3.28 NTU	121.9 mV	15.27 ft	200.00 ml/min
9/3/2025 7:29 AM	12:48	6.99 pH	15.10 °C	1.28 mS/cm	8.16 mg/L	2.08 NTU	119.4 mV	15.27 ft	200.00 ml/min
9/3/2025 7:30 AM	14:24	7.00 pH	15.19 °C	1.28 mS/cm	8.14 mg/L	1.86 NTU	117.3 mV	15.27 ft	200.00 ml/min
9/3/2025 7:32 AM	16:00	7.01 pH	15.20 °C	1.28 mS/cm	8.14 mg/L	1.83 NTU	115.3 mV	15.27 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW53-GW-0925	PME

Appendix B

Laboratory Analytical Reports



ANALYTICAL REPORT

PREPARED FOR

Attn: Kevin Armstrong
GHD Services Inc.
11228 Aurora Avenue
Des Moines, Iowa 50322-7905

Generated 4/1/2025 10:49:00 AM

JOB DESCRIPTION

MEC Neal South PME Monitoring
Neal South PME Monitoring

JOB NUMBER

310-302367-1

Eurofins Cedar Falls

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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4/1/2025 10:49:00 AM

Authorized for release by
Zach Bindert, Senior Project Manager
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(319)595-2016

Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Sample Summary	5
Detection Summary	6
Client Sample Results	8
Definitions	22
QC Sample Results	23
QC Association	25
Chronicle	27
Certification Summary	30
Method Summary	31
Chain of Custody	32
Receipt Checklists	35



Case Narrative

Client: GHD Services Inc.
Project: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Job ID: 310-302367-1

Eurofins Cedar Falls

Job Narrative 310-302367-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/20/2025 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cedar Falls

Sample Summary

Client: GHD Services Inc.

Job ID: 310-302367-1

Project/Site: MEC Neal South PME Monitoring

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-302367-1	MW26-GW-0325	Ground Water	03/18/25 10:55	03/20/25 15:10
310-302367-2	MW28-GW-0325	Ground Water	03/18/25 10:15	03/20/25 15:10
310-302367-3	MW30-GW-0325	Ground Water	03/18/25 10:00	03/20/25 15:10
310-302367-4	MW32-GW-0325	Ground Water	03/18/25 12:45	03/20/25 15:10
310-302367-5	MW33-GW-0325	Ground Water	03/18/25 12:55	03/20/25 15:10
310-302367-6	MW34-GW-0325	Ground Water	03/18/25 14:45	03/20/25 15:10
310-302367-7	MW36-GW-0325	Ground Water	03/18/25 13:45	03/20/25 15:10
310-302367-8	MW43-GW-0325	Ground Water	03/18/25 15:25	03/20/25 15:10
310-302367-9	MW49-GW-0325	Ground Water	03/18/25 17:15	03/20/25 15:10
310-302367-10	MW50-GW-0325	Ground Water	03/18/25 16:55	03/20/25 15:10
310-302367-11	MW51-GW-0325	Ground Water	03/18/25 16:10	03/20/25 15:10
310-302367-12	MW52-GW-0325	Ground Water	03/18/25 18:15	03/20/25 15:10
310-302367-13	MW53-GW-0325	Ground Water	03/18/25 17:30	03/20/25 15:10
310-302367-14	DP02-GW-0325	Ground Water	03/18/25 00:00	03/20/25 15:10

Detection Summary

Client: GHD Services Inc.

Job ID: 310-302367-1

Project/Site: MEC Neal South PME Monitoring

Client Sample ID: MW26-GW-0325

Lab Sample ID: 310-302367-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	200		5.00		mg/L	5		9056A	Total/NA
Calcium	165		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW28-GW-0325

Lab Sample ID: 310-302367-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	62.7		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0137		0.00200		mg/L	1		6020B	Total/NA
Calcium	164		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW30-GW-0325

Lab Sample ID: 310-302367-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	135		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0780		0.00200		mg/L	1		6020B	Total/NA
Calcium	158		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW32-GW-0325

Lab Sample ID: 310-302367-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	178		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0185		0.00200		mg/L	1		6020B	Total/NA
Calcium	193		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW33-GW-0325

Lab Sample ID: 310-302367-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	454		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.00374		0.00200		mg/L	1		6020B	Total/NA
Calcium	295		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW34-GW-0325

Lab Sample ID: 310-302367-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	171		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.00694		0.00200		mg/L	1		6020B	Total/NA
Calcium	177		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW36-GW-0325

Lab Sample ID: 310-302367-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	147		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.00671		0.00200		mg/L	1		6020B	Total/NA
Calcium	149		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW43-GW-0325

Lab Sample ID: 310-302367-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	55.5		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0693		0.00200		mg/L	1		6020B	Total/NA
Calcium	139		0.500		mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: MW49-GW-0325

Lab Sample ID: 310-302367-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	103		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0378		0.00200		mg/L	1		6020B	Total/NA
Calcium	103		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW50-GW-0325

Lab Sample ID: 310-302367-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	365		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.00277		0.00200		mg/L	1		6020B	Total/NA
Calcium	175		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW51-GW-0325

Lab Sample ID: 310-302367-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	305		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.00300		0.00200		mg/L	1		6020B	Total/NA
Calcium	172		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW52-GW-0325

Lab Sample ID: 310-302367-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	264		5.00		mg/L	5		9056A	Total/NA
Calcium	149		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW53-GW-0325

Lab Sample ID: 310-302367-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	276		5.00		mg/L	5		9056A	Total/NA
Calcium	148		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: DP02-GW-0325

Lab Sample ID: 310-302367-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	365		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.00283		0.00200		mg/L	1		6020B	Total/NA
Calcium	174		0.500		mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: MW26-GW-0325

Lab Sample ID: 310-302367-1

Date Collected: 03/18/25 10:55

Matrix: Ground Water

Date Received: 03/20/25 15:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	200		5.00		mg/L			03/25/25 14:26	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		03/25/25 09:00	03/26/25 18:40	1
Calcium	165		0.500		mg/L		03/25/25 09:00	03/26/25 18:40	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: MW28-GW-0325

Lab Sample ID: 310-302367-2

Date Collected: 03/18/25 10:15

Matrix: Ground Water

Date Received: 03/20/25 15:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	62.7		5.00		mg/L			03/25/25 14:42	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0137		0.00200		mg/L		03/25/25 09:00	03/26/25 18:43	1
Calcium	164		0.500		mg/L		03/25/25 09:00	03/26/25 18:43	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: MW30-GW-0325

Lab Sample ID: 310-302367-3

Date Collected: 03/18/25 10:00

Matrix: Ground Water

Date Received: 03/20/25 15:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	135		5.00		mg/L			03/25/25 14:58	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0780		0.00200		mg/L		03/25/25 09:00	03/26/25 18:28	1
Calcium	158		0.500		mg/L		03/25/25 09:00	03/26/25 18:28	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: MW32-GW-0325

Lab Sample ID: 310-302367-4

Date Collected: 03/18/25 12:45

Matrix: Ground Water

Date Received: 03/20/25 15:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	178		5.00		mg/L			03/25/25 15:44	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0185		0.00200		mg/L		03/25/25 09:00	03/26/25 18:38	1
Calcium	193		0.500		mg/L		03/25/25 09:00	03/26/25 18:38	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: MW33-GW-0325

Lab Sample ID: 310-302367-5

Date Collected: 03/18/25 12:55

Matrix: Ground Water

Date Received: 03/20/25 15:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	454		5.00		mg/L			03/25/25 16:00	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00374		0.00200		mg/L		03/25/25 09:00	03/26/25 18:57	1
Calcium	295		0.500		mg/L		03/25/25 09:00	03/26/25 18:57	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: MW34-GW-0325

Lab Sample ID: 310-302367-6

Date Collected: 03/18/25 14:45

Matrix: Ground Water

Date Received: 03/20/25 15:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	171		5.00		mg/L			03/25/25 16:16	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00694		0.00200		mg/L		03/25/25 09:00	03/26/25 19:09	1
Calcium	177		0.500		mg/L		03/25/25 09:00	03/26/25 19:09	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: MW36-GW-0325

Lab Sample ID: 310-302367-7

Date Collected: 03/18/25 13:45

Matrix: Ground Water

Date Received: 03/20/25 15:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	147		5.00		mg/L			03/27/25 12:37	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00671		0.00200		mg/L		03/25/25 09:00	03/26/25 18:55	1
Calcium	149		0.500		mg/L		03/25/25 09:00	03/26/25 18:55	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: MW43-GW-0325

Lab Sample ID: 310-302367-8

Date Collected: 03/18/25 15:25

Matrix: Ground Water

Date Received: 03/20/25 15:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	55.5		5.00		mg/L			03/27/25 12:53	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0693		0.00200		mg/L		03/25/25 09:00	03/26/25 18:52	1
Calcium	139		0.500		mg/L		03/25/25 09:00	03/26/25 18:52	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: MW49-GW-0325

Lab Sample ID: 310-302367-9

Date Collected: 03/18/25 17:15

Matrix: Ground Water

Date Received: 03/20/25 15:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	103		5.00		mg/L			03/27/25 13:06	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0378		0.00200		mg/L		03/25/25 09:00	03/26/25 18:50	1
Calcium	103		0.500		mg/L		03/25/25 09:00	03/26/25 18:50	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: MW50-GW-0325

Lab Sample ID: 310-302367-10

Date Collected: 03/18/25 16:55

Matrix: Ground Water

Date Received: 03/20/25 15:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	365		5.00		mg/L			03/27/25 13:24	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00277		0.00200		mg/L		03/25/25 09:00	03/26/25 19:14	1
Calcium	175		0.500		mg/L		03/25/25 09:00	03/26/25 19:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: MW51-GW-0325

Lab Sample ID: 310-302367-11

Date Collected: 03/18/25 16:10

Matrix: Ground Water

Date Received: 03/20/25 15:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	305		5.00		mg/L			03/27/25 13:40	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00300		0.00200		mg/L		03/25/25 09:00	03/26/25 18:07	1
Calcium	172		0.500		mg/L		03/25/25 09:00	03/26/25 18:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: MW52-GW-0325

Lab Sample ID: 310-302367-12

Date Collected: 03/18/25 18:15

Matrix: Ground Water

Date Received: 03/20/25 15:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	264		5.00		mg/L			03/27/25 14:58	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		03/25/25 09:00	03/26/25 19:00	1
Calcium	149		0.500		mg/L		03/25/25 09:00	03/26/25 19:00	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: MW53-GW-0325

Lab Sample ID: 310-302367-13

Date Collected: 03/18/25 17:30

Matrix: Ground Water

Date Received: 03/20/25 15:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	276		5.00		mg/L			03/27/25 15:13	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		03/25/25 09:00	03/26/25 19:11	1
Calcium	148		0.500		mg/L		03/25/25 09:00	03/26/25 19:11	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: DP02-GW-0325

Lab Sample ID: 310-302367-14

Date Collected: 03/18/25 00:00

Matrix: Ground Water

Date Received: 03/20/25 15:10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	365		5.00		mg/L			03/27/25 15:29	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00283		0.00200		mg/L		03/27/25 09:00	03/28/25 15:04	1
Calcium	174		0.500		mg/L		03/27/25 09:00	03/28/25 15:04	1

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-449797/3

Matrix: Water

Analysis Batch: 449797

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.00		1.00		mg/L			03/25/25 09:31	1

Lab Sample ID: LCS 310-449797/4

Matrix: Water

Analysis Batch: 449797

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	9.669		mg/L		97	90 - 110

Lab Sample ID: MB 310-450049/3

Matrix: Water

Analysis Batch: 450049

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.00		1.00		mg/L			03/27/25 12:06	1

Lab Sample ID: LCS 310-450049/4

Matrix: Water

Analysis Batch: 450049

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	9.832		mg/L		98	90 - 110

Lab Sample ID: 310-302367-11 MS

Matrix: Ground Water

Analysis Batch: 450049

Client Sample ID: MW51-GW-0325

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	305		25.0	327.4	4	mg/L		90	80 - 120

Lab Sample ID: 310-302367-11 MSD

Matrix: Ground Water

Analysis Batch: 450049

Client Sample ID: MW51-GW-0325

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	305		25.0	324.3	4	mg/L		77	80 - 120	1	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-449655/1-A

Matrix: Water

Analysis Batch: 449894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 449655

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		03/25/25 09:00	03/26/25 17:55	1
Calcium	<0.500		0.500		mg/L		03/25/25 09:00	03/26/25 17:55	1

Eurofins Cedar Falls

QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-449655/2-A

Matrix: Water

Analysis Batch: 449894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 449655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.2090		mg/L		105	80 - 120
Calcium	2.00	1.933		mg/L		97	80 - 120

Lab Sample ID: 310-302367-11 MS

Matrix: Ground Water

Analysis Batch: 449894

Client Sample ID: MW51-GW-0325

Prep Type: Total/NA

Prep Batch: 449655

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.00300		0.200	0.2113		mg/L		104	75 - 125
Calcium	172		2.00	175.3	4	mg/L		176	75 - 125

Lab Sample ID: 310-302367-11 MSD

Matrix: Ground Water

Analysis Batch: 449894

Client Sample ID: MW51-GW-0325

Prep Type: Total/NA

Prep Batch: 449655

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.00300		0.200	0.2128		mg/L		105	75 - 125	1	20
Calcium	172		2.00	171.0	4	mg/L		-38	75 - 125	2	20

Lab Sample ID: MB 310-449828/1-A

Matrix: Water

Analysis Batch: 450182

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 449828

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		03/27/25 09:00	03/28/25 14:33	1
Calcium	<0.500		0.500		mg/L		03/27/25 09:00	03/28/25 14:33	1

Lab Sample ID: LCS 310-449828/2-A

Matrix: Water

Analysis Batch: 450182

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 449828

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.2110		mg/L		105	80 - 120
Calcium	2.00	2.024		mg/L		101	80 - 120

Eurofins Cedar Falls

QC Association Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

HPLC/IC

Analysis Batch: 449797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302367-1	MW26-GW-0325	Total/NA	Ground Water	9056A	
310-302367-2	MW28-GW-0325	Total/NA	Ground Water	9056A	
310-302367-3	MW30-GW-0325	Total/NA	Ground Water	9056A	
310-302367-4	MW32-GW-0325	Total/NA	Ground Water	9056A	
310-302367-5	MW33-GW-0325	Total/NA	Ground Water	9056A	
310-302367-6	MW34-GW-0325	Total/NA	Ground Water	9056A	
MB 310-449797/3	Method Blank	Total/NA	Water	9056A	
LCS 310-449797/4	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 450049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302367-7	MW36-GW-0325	Total/NA	Ground Water	9056A	
310-302367-8	MW43-GW-0325	Total/NA	Ground Water	9056A	
310-302367-9	MW49-GW-0325	Total/NA	Ground Water	9056A	
310-302367-10	MW50-GW-0325	Total/NA	Ground Water	9056A	
310-302367-11	MW51-GW-0325	Total/NA	Ground Water	9056A	
310-302367-12	MW52-GW-0325	Total/NA	Ground Water	9056A	
310-302367-13	MW53-GW-0325	Total/NA	Ground Water	9056A	
310-302367-14	DP02-GW-0325	Total/NA	Ground Water	9056A	
MB 310-450049/3	Method Blank	Total/NA	Water	9056A	
LCS 310-450049/4	Lab Control Sample	Total/NA	Water	9056A	
310-302367-11 MS	MW51-GW-0325	Total/NA	Ground Water	9056A	
310-302367-11 MSD	MW51-GW-0325	Total/NA	Ground Water	9056A	

Metals

Prep Batch: 449655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302367-1	MW26-GW-0325	Total/NA	Ground Water	3005A	
310-302367-2	MW28-GW-0325	Total/NA	Ground Water	3005A	
310-302367-3	MW30-GW-0325	Total/NA	Ground Water	3005A	
310-302367-4	MW32-GW-0325	Total/NA	Ground Water	3005A	
310-302367-5	MW33-GW-0325	Total/NA	Ground Water	3005A	
310-302367-6	MW34-GW-0325	Total/NA	Ground Water	3005A	
310-302367-7	MW36-GW-0325	Total/NA	Ground Water	3005A	
310-302367-8	MW43-GW-0325	Total/NA	Ground Water	3005A	
310-302367-9	MW49-GW-0325	Total/NA	Ground Water	3005A	
310-302367-10	MW50-GW-0325	Total/NA	Ground Water	3005A	
310-302367-11	MW51-GW-0325	Total/NA	Ground Water	3005A	
310-302367-12	MW52-GW-0325	Total/NA	Ground Water	3005A	
310-302367-13	MW53-GW-0325	Total/NA	Ground Water	3005A	
MB 310-449655/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-449655/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-302367-11 MS	MW51-GW-0325	Total/NA	Ground Water	3005A	
310-302367-11 MSD	MW51-GW-0325	Total/NA	Ground Water	3005A	

Prep Batch: 449828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302367-14	DP02-GW-0325	Total/NA	Ground Water	3005A	
MB 310-449828/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-449828/2-A	Lab Control Sample	Total/NA	Water	3005A	

Eurofins Cedar Falls

QC Association Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Metals

Analysis Batch: 449894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302367-1	MW26-GW-0325	Total/NA	Ground Water	6020B	449655
310-302367-2	MW28-GW-0325	Total/NA	Ground Water	6020B	449655
310-302367-3	MW30-GW-0325	Total/NA	Ground Water	6020B	449655
310-302367-4	MW32-GW-0325	Total/NA	Ground Water	6020B	449655
310-302367-5	MW33-GW-0325	Total/NA	Ground Water	6020B	449655
310-302367-6	MW34-GW-0325	Total/NA	Ground Water	6020B	449655
310-302367-7	MW36-GW-0325	Total/NA	Ground Water	6020B	449655
310-302367-8	MW43-GW-0325	Total/NA	Ground Water	6020B	449655
310-302367-9	MW49-GW-0325	Total/NA	Ground Water	6020B	449655
310-302367-10	MW50-GW-0325	Total/NA	Ground Water	6020B	449655
310-302367-11	MW51-GW-0325	Total/NA	Ground Water	6020B	449655
310-302367-12	MW52-GW-0325	Total/NA	Ground Water	6020B	449655
310-302367-13	MW53-GW-0325	Total/NA	Ground Water	6020B	449655
MB 310-449655/1-A	Method Blank	Total/NA	Water	6020B	449655
LCS 310-449655/2-A	Lab Control Sample	Total/NA	Water	6020B	449655
310-302367-11 MS	MW51-GW-0325	Total/NA	Ground Water	6020B	449655
310-302367-11 MSD	MW51-GW-0325	Total/NA	Ground Water	6020B	449655

Analysis Batch: 450182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302367-14	DP02-GW-0325	Total/NA	Ground Water	6020B	449828
MB 310-449828/1-A	Method Blank	Total/NA	Water	6020B	449828
LCS 310-449828/2-A	Lab Control Sample	Total/NA	Water	6020B	449828

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: MW26-GW-0325

Lab Sample ID: 310-302367-1

Date Collected: 03/18/25 10:55

Matrix: Ground Water

Date Received: 03/20/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	449797	QTZ5	EET CF	03/25/25 14:26
Total/NA	Prep	3005A			449655	Y3EC	EET CF	03/25/25 09:00
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 18:40

Client Sample ID: MW28-GW-0325

Lab Sample ID: 310-302367-2

Date Collected: 03/18/25 10:15

Matrix: Ground Water

Date Received: 03/20/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	449797	QTZ5	EET CF	03/25/25 14:42
Total/NA	Prep	3005A			449655	Y3EC	EET CF	03/25/25 09:00
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 18:43

Client Sample ID: MW30-GW-0325

Lab Sample ID: 310-302367-3

Date Collected: 03/18/25 10:00

Matrix: Ground Water

Date Received: 03/20/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	449797	QTZ5	EET CF	03/25/25 14:58
Total/NA	Prep	3005A			449655	Y3EC	EET CF	03/25/25 09:00
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 18:28

Client Sample ID: MW32-GW-0325

Lab Sample ID: 310-302367-4

Date Collected: 03/18/25 12:45

Matrix: Ground Water

Date Received: 03/20/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	449797	QTZ5	EET CF	03/25/25 15:44
Total/NA	Prep	3005A			449655	Y3EC	EET CF	03/25/25 09:00
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 18:38

Client Sample ID: MW33-GW-0325

Lab Sample ID: 310-302367-5

Date Collected: 03/18/25 12:55

Matrix: Ground Water

Date Received: 03/20/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	449797	QTZ5	EET CF	03/25/25 16:00
Total/NA	Prep	3005A			449655	Y3EC	EET CF	03/25/25 09:00
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 18:57

Client Sample ID: MW34-GW-0325

Lab Sample ID: 310-302367-6

Date Collected: 03/18/25 14:45

Matrix: Ground Water

Date Received: 03/20/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	449797	QTZ5	EET CF	03/25/25 16:16

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: MW34-GW-0325

Lab Sample ID: 310-302367-6

Date Collected: 03/18/25 14:45

Matrix: Ground Water

Date Received: 03/20/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			449655	Y3EC	EET CF	03/25/25 09:00
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 19:09

Client Sample ID: MW36-GW-0325

Lab Sample ID: 310-302367-7

Date Collected: 03/18/25 13:45

Matrix: Ground Water

Date Received: 03/20/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	450049	QTZ5	EET CF	03/27/25 12:37
Total/NA	Prep	3005A			449655	Y3EC	EET CF	03/25/25 09:00
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 18:55

Client Sample ID: MW43-GW-0325

Lab Sample ID: 310-302367-8

Date Collected: 03/18/25 15:25

Matrix: Ground Water

Date Received: 03/20/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	450049	QTZ5	EET CF	03/27/25 12:53
Total/NA	Prep	3005A			449655	Y3EC	EET CF	03/25/25 09:00
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 18:52

Client Sample ID: MW49-GW-0325

Lab Sample ID: 310-302367-9

Date Collected: 03/18/25 17:15

Matrix: Ground Water

Date Received: 03/20/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	450049	QTZ5	EET CF	03/27/25 13:06
Total/NA	Prep	3005A			449655	Y3EC	EET CF	03/25/25 09:00
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 18:50

Client Sample ID: MW50-GW-0325

Lab Sample ID: 310-302367-10

Date Collected: 03/18/25 16:55

Matrix: Ground Water

Date Received: 03/20/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	450049	QTZ5	EET CF	03/27/25 13:24
Total/NA	Prep	3005A			449655	Y3EC	EET CF	03/25/25 09:00
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 19:14

Client Sample ID: MW51-GW-0325

Lab Sample ID: 310-302367-11

Date Collected: 03/18/25 16:10

Matrix: Ground Water

Date Received: 03/20/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	450049	QTZ5	EET CF	03/27/25 13:40

Eurofins Cedar Falls

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Client Sample ID: MW51-GW-0325

Lab Sample ID: 310-302367-11

Date Collected: 03/18/25 16:10

Matrix: Ground Water

Date Received: 03/20/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			449655	Y3EC	EET CF	03/25/25 09:00
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 18:07

Client Sample ID: MW52-GW-0325

Lab Sample ID: 310-302367-12

Date Collected: 03/18/25 18:15

Matrix: Ground Water

Date Received: 03/20/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	450049	QTZ5	EET CF	03/27/25 14:58
Total/NA	Prep	3005A			449655	Y3EC	EET CF	03/25/25 09:00
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 19:00

Client Sample ID: MW53-GW-0325

Lab Sample ID: 310-302367-13

Date Collected: 03/18/25 17:30

Matrix: Ground Water

Date Received: 03/20/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	450049	QTZ5	EET CF	03/27/25 15:13
Total/NA	Prep	3005A			449655	Y3EC	EET CF	03/25/25 09:00
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 19:11

Client Sample ID: DP02-GW-0325

Lab Sample ID: 310-302367-14

Date Collected: 03/18/25 00:00

Matrix: Ground Water

Date Received: 03/20/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	450049	QTZ5	EET CF	03/27/25 15:29
Total/NA	Prep	3005A			449828	Y3EC	EET CF	03/27/25 09:00
Total/NA	Analysis	6020B		1	450182	NFT2	EET CF	03/28/25 15:04

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-302367-1

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: GHD Services Inc.

Job ID: 310-302367-1

Project/Site: MEC Neal South PME Monitoring

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
3005A	Preparation, Total Metals	SW846	EET CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
America



310-302367 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>GHP</u>			
City/State: <u>Des Moines</u>		Project: <u>IA</u>	
Receipt Information			
Date/Time Received: <u>3/19/25</u>		Received By: <u>XB</u>	
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		If yes: Cooler ID:	
☒ Yes ☐ No			
Multiple Coolers?		If yes: Cooler # ____ of ____	
☐ Yes ☒ No			
Cooler Custody Seals Present?		If yes: Cooler custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Sample Custody Seals Present?		If yes: Sample custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Trip Blank Present?		If yes: Which VOA samples are in cooler? ↓	
☐ Yes ☒ No			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>2</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>1.0</u>		Corrected Temp (°C): <u>1.0</u>	
• Sample Container Temperature			
Container(s) used:		<u>CONTAINER 1</u>	
Uncorrected Temp (°C):		<u>CONTAINER 2</u>	
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

Document CED-P-SAM-FRM45521
Revision 26
Date 27 Jan 2022

Eurofins Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C

Eurofins Cedar Falls

3019 Venture Way
Cedar Falls, IA 50613

Phone (319) 277-2401 Phone (319) 277-2425

Chain of Custody Record

estAmerica Des Moines SC

2

Client Information		Lab PM		Carrier Tracking No(s)		COC No.	
Client Contact Kevin Armstrong		Zach Bindert		State of Origin Iowa		Page Page 1 of 2	
Company GHD Services Inc.		E-Mail g@ghd.com		Job #		Job #	
Address 11228 Aurora Avenue		Due Date Requested		Analysis Requested		Preservation Codes:	
City Des Moines		TAT Requested (days)		Standard		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Arsenic H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
State, Zip IA, 50322-7905		Compliance Project: ☐ Yes ☐ No		Field Filtered Sample (Yes or No)		Total Number of Containers	
Phone 515-414-3935(Tel)		PO # 340017051		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
Email Kevin.Armstrong@ghd.com		WO # 31017262		6020B - Arsenic and Calcium			
Project Name MEC Neat South PME Monitoring		Project # 12576485-004 01		6056A - ORGFM, 28D - (MOD) Sulfate			
Site Neal South CCR Monofill		SSOW# 12576485-02					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, On-site/Off)	Special Instructions/Note:	
MW26-GW-0325		3/18/25	1055	G	Water	2	
MW28-GW-0325		3/18/25	1015	G	Water	2	
MW30-GW-0325		3/18/25	1000	G	Water	2	
MW32-GW-0325		3/18/25	1245	G	Water	2	
MW33-GW-0325		3/18/25	1255	G	Water	2	
MW34-GW-0325		3/18/25	1445	G	Water	2	
MW36-GW-0325		3/18/25	1345	G	Water	2	
MW43-GW-0325		3/18/25	1525	G	Water	2	
MW49-GW-0325		3/18/25	1715	G	Water	2	
MW50-GW-0325		3/18/25	1055	G	Water	2	
MW51-GW-0325		3/18/25	1010	G	Water	2	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant		Disposal By Lab		Archive For			
Deliverable Requested I, II, III, IV, Other (specify)		Database Facility Code 11114654-GD-MidAmer					
Empty Kit Relinquished by		Date:		Method of Shipment:			
Relinquished by: <i>Paula Rudman</i>		Date/Time: 3/19/25 12:00		Date/Time: 3/19/25 12:30		Company: Eurofins	
Relinquished by		Date/Time:		Date/Time:		Company:	
Relinquished by		Date/Time:		Date/Time:		Company:	
Custody Seals Intact: ☐ Custody Seal No							

estAmerica Des Moines SC

• **eurofins**

Chain of Custody Record

Phone (319) 277-2401 Phone (319) 277-2425

[illegible]

06092010 4

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 310-302367-1

SDG Number:

Login Number: 302367

List Number: 1

Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Kevin Armstrong
GHD Services Inc.
11228 Aurora Avenue
Des Moines, Iowa 50322-7905

Generated 5/7/2025 9:02:52 AM

JOB DESCRIPTION

MEC Neal South - Semiannual CCR
Neal South - Semiannual CCR

JOB NUMBER

310-303240-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



Generated
5/7/2025 9:02:52 AM

Authorized for release by
Zach Bindert, Senior Project Manager
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(319)595-2016

Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Sample Summary	6
Detection Summary	7
Client Sample Results	12
Definitions	44
QC Sample Results	45
QC Association	53
Chronicle	58
Certification Summary	65
Method Summary	66
Chain of Custody	67
Receipt Checklists	73
Tracer Carrier Summary	74



Case Narrative

Client: GHD Services Inc.
Project: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Job ID: 310-303240-1

Eurofins Cedar Falls

Job Narrative 310-303240-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/2/2025 3:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 3.1°C, 3.9°C, 4.9°C and 5.7°C.

HPLC/IC

Method 9056A_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: MW02-GW-0325 (310-303240-1), MW04-GW-0325 (310-303240-2), MW08-GW-0325 (310-303240-3), MW10-GW-0325 (310-303240-4), MW11-GW-0325 (310-303240-5), MW12-GW-0325 (310-303240-6), MW13-GW-0325 (310-303240-7), MW14-GW-0325 (310-303240-8), MW15-GW-0325 (310-303240-9), MW16-GW-0325 (310-303240-10), MW17-GW-0325 (310-303240-11), MW18-GW-0325 (310-303240-12), MW19-GW-0325 (310-303240-13), MW20-GW-0325 (310-303240-14), MW21-GW-0325 (310-303240-15) and DP01-GW-0325 (310-303240-16). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cedar Falls

Case Narrative

Client: GHD Services Inc.
Project: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Job ID: 310-303240-2

Eurofins Cedar Falls

Job Narrative 310-303240-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/2/2025 3:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 3.1°C, 3.9°C, 4.9°C and 5.7°C.

Gas Flow Proportional Counter

Method 9320_Ra228: Radium 228 Batch 711585

The Radium-228 laboratory control sample (LCS) associated with the following samples recovered at 126%: (LCS 160-711585/2-A). The limits in our LIMS system at 75-125% reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of 68-154%. The LCS is within criteria and no further action is required.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Rad

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cedar Falls

Sample Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-303240-1	MW02-GW-0325	Ground Water	03/31/25 17:50	04/02/25 15:40
310-303240-2	MW04-GW-0325	Ground Water	03/31/25 16:00	04/02/25 15:40
310-303240-3	MW08-GW-0325	Water	04/01/25 09:40	04/02/25 15:40
310-303240-4	MW10-GW-0325	Ground Water	03/31/25 19:00	04/02/25 15:40
310-303240-5	MW11-GW-0325	Ground Water	04/01/25 12:05	04/02/25 15:40
310-303240-6	MW12-GW-0325	Water	04/01/25 11:30	04/02/25 15:40
310-303240-7	MW13-GW-0325	Ground Water	04/01/25 10:35	04/02/25 15:40
310-303240-8	MW14-GW-0325	Water	03/31/25 14:05	04/02/25 15:40
310-303240-9	MW15-GW-0325	Water	03/31/25 14:40	04/02/25 15:40
310-303240-10	MW16-GW-0325	Ground Water	03/31/25 18:50	04/02/25 15:40
310-303240-11	MW17-GW-0325	Ground Water	03/31/25 15:00	04/02/25 15:40
310-303240-12	MW18-GW-0325	Ground Water	03/31/25 16:35	04/02/25 15:40
310-303240-13	MW19-GW-0325	Ground Water	03/31/25 13:25	04/02/25 15:40
310-303240-14	MW20-GW-0325	Ground Water	03/31/25 12:55	04/02/25 15:40
310-303240-15	MW21-GW-0325	Ground Water	03/31/25 18:15	04/02/25 15:40
310-303240-16	DP01-GW-0325	Water	03/31/25 00:00	04/02/25 15:40

Detection Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW02-GW-0325

Lab Sample ID: 310-303240-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	210		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0166		0.00200		mg/L	1		6020B	Total/NA
Barium	0.184		0.00200		mg/L	1		6020B	Total/NA
Boron	0.440		0.100		mg/L	1		6020B	Total/NA
Calcium	178		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00573		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.111		0.0100		mg/L	1		6020B	Total/NA
Molybdenum	0.00225		0.00200		mg/L	1		6020B	Total/NA
Total Dissolved Solids	858		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW04-GW-0325

Lab Sample ID: 310-303240-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	23.4		5.00		mg/L	5		9056A	Total/NA
Sulfate	130		5.00		mg/L	5		9056A	Total/NA
Barium	0.0504		0.00200		mg/L	1		6020B	Total/NA
Boron	0.242		0.100		mg/L	1		6020B	Total/NA
Calcium	93.3		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00163		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.0501		0.0100		mg/L	1		6020B	Total/NA
Total Dissolved Solids	546		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.8	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW08-GW-0325

Lab Sample ID: 310-303240-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.76		5.00		mg/L	5		9056A	Total/NA
Sulfate	291		5.00		mg/L	5		9056A	Total/NA
Barium	0.0856		0.00200		mg/L	1		6020B	Total/NA
Boron	2.27		0.100		mg/L	1		6020B	Total/NA
Cadmium	0.000209		0.000200		mg/L	1		6020B	Total/NA
Calcium	177		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00147		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.120		0.0100		mg/L	1		6020B	Total/NA
Molybdenum	0.0104		0.00200		mg/L	1		6020B	Total/NA
Total Dissolved Solids	1080		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW10-GW-0325

Lab Sample ID: 310-303240-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.56		5.00		mg/L	5		9056A	Total/NA
Sulfate	42.3		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0355		0.00200		mg/L	1		6020B	Total/NA
Barium	0.301		0.00200		mg/L	1		6020B	Total/NA
Boron	0.435		0.100		mg/L	1		6020B	Total/NA
Calcium	111		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00132		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.0680		0.0100		mg/L	1		6020B	Total/NA
Molybdenum	0.00442		0.00200		mg/L	1		6020B	Total/NA
Total Dissolved Solids	660		50.0		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW10-GW-0325 (Continued)

Lab Sample ID: 310-303240-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	7.9	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW11-GW-0325

Lab Sample ID: 310-303240-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17.8		5.00		mg/L	5		9056A	Total/NA
Sulfate	437		5.00		mg/L	5		9056A	Total/NA
Barium	0.0361		0.00200		mg/L	1		6020B	Total/NA
Boron	0.340		0.100		mg/L	1		6020B	Total/NA
Calcium	206		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00692		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.0935		0.0100		mg/L	1		6020B	Total/NA
Total Dissolved Solids	1170		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW12-GW-0325

Lab Sample ID: 310-303240-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	72.7		5.00		mg/L	5		9056A	Total/NA
Sulfate	564		50.0		mg/L	50		9056A	Total/NA
Barium	0.0537		0.00200		mg/L	1		6020B	Total/NA
Boron	1.23		0.100		mg/L	1		6020B	Total/NA
Calcium	255		0.500		mg/L	1		6020B	Total/NA
Lithium	0.141		0.0100		mg/L	1		6020B	Total/NA
Selenium	0.0739		0.00500		mg/L	1		6020B	Total/NA
Total Dissolved Solids	1460		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.6	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW13-GW-0325

Lab Sample ID: 310-303240-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12.3		5.00		mg/L	5		9056A	Total/NA
Sulfate	469		5.00		mg/L	5		9056A	Total/NA
Barium	0.0310		0.00200		mg/L	1		6020B	Total/NA
Boron	1.51		0.100		mg/L	1		6020B	Total/NA
Calcium	214		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.000515		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.113		0.0100		mg/L	1		6020B	Total/NA
Selenium	0.0178		0.00500		mg/L	1		6020B	Total/NA
Total Dissolved Solids	1270		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW14-GW-0325

Lab Sample ID: 310-303240-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.10		5.00		mg/L	5		9056A	Total/NA
Sulfate	205		5.00		mg/L	5		9056A	Total/NA
Barium	0.0609		0.00200		mg/L	1		6020B	Total/NA
Boron	0.346		0.100		mg/L	1		6020B	Total/NA
Calcium	190		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00499		0.000500		mg/L	1		6020B	Total/NA
Lead	0.000880		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.122		0.0100		mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW14-GW-0325 (Continued)

Lab Sample ID: 310-303240-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	934		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.6	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW15-GW-0325

Lab Sample ID: 310-303240-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	24.4		5.00		mg/L	5		9056A	Total/NA
Sulfate	279		5.00		mg/L	5		9056A	Total/NA
Barium	0.120		0.00200		mg/L	1		6020B	Total/NA
Boron	1.25		0.100		mg/L	1		6020B	Total/NA
Calcium	116		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00219		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.0538		0.0100		mg/L	1		6020B	Total/NA
Total Dissolved Solids	972		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.8	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW16-GW-0325

Lab Sample ID: 310-303240-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.27		5.00		mg/L	5		9056A	Total/NA
Sulfate	51.7		5.00		mg/L	5		9056A	Total/NA
Barium	0.295		0.00200		mg/L	1		6020B	Total/NA
Boron	0.203		0.100		mg/L	1		6020B	Total/NA
Calcium	139		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.000838		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.0604		0.0100		mg/L	1		6020B	Total/NA
Total Dissolved Solids	698		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW17-GW-0325

Lab Sample ID: 310-303240-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14.2		5.00		mg/L	5		9056A	Total/NA
Sulfate	105		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.00395		0.00200		mg/L	1		6020B	Total/NA
Barium	0.124		0.00200		mg/L	1		6020B	Total/NA
Boron	0.233		0.100		mg/L	1		6020B	Total/NA
Calcium	147		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.000649		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.0845		0.0100		mg/L	1		6020B	Total/NA
Molybdenum	0.00336		0.00200		mg/L	1		6020B	Total/NA
Total Dissolved Solids	714		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.8	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW18-GW-0325

Lab Sample ID: 310-303240-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	127		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0237		0.00200		mg/L	1		6020B	Total/NA
Barium	0.123		0.00200		mg/L	1		6020B	Total/NA
Boron	0.249		0.100		mg/L	1		6020B	Total/NA
Calcium	171		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00265		0.000500		mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW18-GW-0325 (Continued)

Lab Sample ID: 310-303240-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.139		0.0100		mg/L	1		6020B	Total/NA
Molybdenum	0.00233		0.00200		mg/L	1		6020B	Total/NA
Total Dissolved Solids	840		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.8	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW19-GW-0325

Lab Sample ID: 310-303240-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	57.7		5.00		mg/L	5		9056A	Total/NA
Sulfate	456		5.00		mg/L	5		9056A	Total/NA
Barium	0.137		0.00200		mg/L	1		6020B	Total/NA
Boron	0.585		0.100		mg/L	1		6020B	Total/NA
Calcium	277		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00697		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.169		0.0100		mg/L	1		6020B	Total/NA
Total Dissolved Solids	1490		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW20-GW-0325

Lab Sample ID: 310-303240-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	80.0		5.00		mg/L	5		9056A	Total/NA
Sulfate	352		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0136		0.00200		mg/L	1		6020B	Total/NA
Barium	0.0886		0.00200		mg/L	1		6020B	Total/NA
Boron	1.17		0.100		mg/L	1		6020B	Total/NA
Calcium	205		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00255		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.110		0.0100		mg/L	1		6020B	Total/NA
Total Dissolved Solids	1170		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.8	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW21-GW-0325

Lab Sample ID: 310-303240-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.72		5.00		mg/L	5		9056A	Total/NA
Sulfate	140		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.00786		0.00200		mg/L	1		6020B	Total/NA
Barium	0.399		0.00200		mg/L	1		6020B	Total/NA
Boron	0.241		0.100		mg/L	1		6020B	Total/NA
Calcium	182		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00338		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.0816		0.0100		mg/L	1		6020B	Total/NA
Total Dissolved Solids	778		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: DP01-GW-0325

Lab Sample ID: 310-303240-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.26		5.00		mg/L	5		9056A	Total/NA
Sulfate	202		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0174		0.00200		mg/L	1		6020B	Total/NA
Barium	0.184		0.00200		mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: GHD Services Inc.

Job ID: 310-303240-1

Project/Site: MEC Neal South - Semiannual CCR

Client Sample ID: DP01-GW-0325 (Continued)

Lab Sample ID: 310-303240-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.424		0.100		mg/L	1		6020B	Total/NA
Calcium	173		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00572		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.107		0.0100		mg/L	1		6020B	Total/NA
Total Dissolved Solids	876		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW02-GW-0325

Lab Sample ID: 310-303240-1

Date Collected: 03/31/25 17:50

Matrix: Ground Water

Date Received: 04/02/25 15:40

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00		5.00		mg/L			04/08/25 14:38	5
Sulfate	210		5.00		mg/L			04/08/25 14:38	5
Fluoride	<1.00		1.00		mg/L			04/08/25 14:38	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:11	1
Arsenic	0.0166		0.00200		mg/L		04/04/25 09:00	04/04/25 19:11	1
Barium	0.184		0.00200		mg/L		04/04/25 09:00	04/04/25 19:11	1
Beryllium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:11	1
Boron	0.440		0.100		mg/L		04/04/25 09:00	04/04/25 19:11	1
Cadmium	<0.000200		0.000200		mg/L		04/04/25 09:00	04/04/25 19:11	1
Calcium	178		0.500		mg/L		04/04/25 09:00	04/04/25 19:11	1
Chromium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:11	1
Cobalt	0.00573		0.000500		mg/L		04/04/25 09:00	04/04/25 19:11	1
Lead	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 19:11	1
Lithium	0.111		0.0100		mg/L		04/04/25 09:00	04/04/25 19:11	1
Molybdenum	0.00225		0.00200		mg/L		04/04/25 09:00	04/04/25 19:11	1
Selenium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:11	1
Thallium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		04/08/25 10:00	04/08/25 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	858		50.0		mg/L			04/03/25 14:37	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.7	HF	1.0		SU			04/03/25 01:38	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.417	U	0.247	0.247	1.00	0.417	pCi/L	04/09/25 07:29	05/06/25 16:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	92.2		30 - 110					04/09/25 07:29	05/06/25 16:51	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.14		0.449	0.461	1.00	0.593	pCi/L	04/09/25 07:34	05/06/25 10:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	92.2		30 - 110					04/09/25 07:34	05/06/25 10:20	1
Y Carrier	82.6		30 - 110					04/09/25 07:34	05/06/25 10:20	1

Eurofins Cedar Falls

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW02-GW-0325
Date Collected: 03/31/25 17:50
Date Received: 04/02/25 15:40

Lab Sample ID: 310-303240-1
Matrix: Ground Water

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228										
Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.31		0.512	0.523	5.00	0.593	pCi/L		05/06/25 19:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW04-GW-0325

Lab Sample ID: 310-303240-2

Date Collected: 03/31/25 16:00

Matrix: Ground Water

Date Received: 04/02/25 15:40

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.4		5.00		mg/L			04/08/25 14:51	5
Sulfate	130		5.00		mg/L			04/08/25 14:51	5
Fluoride	<1.00		1.00		mg/L			04/08/25 14:51	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:13	1
Arsenic	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:13	1
Barium	0.0504		0.00200		mg/L		04/04/25 09:00	04/04/25 19:13	1
Beryllium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:13	1
Boron	0.242		0.100		mg/L		04/04/25 09:00	04/04/25 19:13	1
Cadmium	<0.000200		0.000200		mg/L		04/04/25 09:00	04/04/25 19:13	1
Calcium	93.3		0.500		mg/L		04/04/25 09:00	04/04/25 19:13	1
Chromium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:13	1
Cobalt	0.00163		0.000500		mg/L		04/04/25 09:00	04/04/25 19:13	1
Lead	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 19:13	1
Lithium	0.0501		0.0100		mg/L		04/04/25 09:00	04/04/25 19:13	1
Molybdenum	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:13	1
Selenium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:13	1
Thallium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		04/08/25 10:00	04/08/25 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	546		50.0		mg/L			04/03/25 14:37	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.8	HF	1.0		SU			04/03/25 01:26	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.296	U	0.178	0.178	1.00	0.296	pCi/L	04/09/25 07:29	05/06/25 16:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	87.9		30 - 110					04/09/25 07:29	05/06/25 16:52	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.691		0.397	0.402	1.00	0.568	pCi/L	04/09/25 07:34	05/06/25 10:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	87.9		30 - 110					04/09/25 07:34	05/06/25 10:20	1
Y Carrier	78.5		30 - 110					04/09/25 07:34	05/06/25 10:20	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW04-GW-0325
Date Collected: 03/31/25 16:00
Date Received: 04/02/25 15:40

Lab Sample ID: 310-303240-2
Matrix: Ground Water

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.829		0.435	0.440	5.00	0.568	pCi/L		05/06/25 19:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW08-GW-0325

Lab Sample ID: 310-303240-3

Date Collected: 04/01/25 09:40

Matrix: Water

Date Received: 04/02/25 15:40

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.76		5.00		mg/L			04/08/25 15:05	5
Sulfate	291		5.00		mg/L			04/08/25 15:05	5
Fluoride	<1.00		1.00		mg/L			04/08/25 15:05	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:16	1
Arsenic	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:16	1
Barium	0.0856		0.00200		mg/L		04/04/25 09:00	04/04/25 19:16	1
Beryllium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:16	1
Boron	2.27		0.100		mg/L		04/04/25 09:00	04/04/25 19:16	1
Cadmium	0.000209		0.000200		mg/L		04/04/25 09:00	04/04/25 19:16	1
Calcium	177		0.500		mg/L		04/04/25 09:00	04/04/25 19:16	1
Chromium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:16	1
Cobalt	0.00147		0.000500		mg/L		04/04/25 09:00	04/04/25 19:16	1
Lead	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 19:16	1
Lithium	0.120		0.0100		mg/L		04/04/25 09:00	04/04/25 19:16	1
Molybdenum	0.0104		0.00200		mg/L		04/04/25 09:00	04/04/25 19:16	1
Selenium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:16	1
Thallium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		04/08/25 10:00	04/08/25 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1080		50.0		mg/L			04/03/25 14:37	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.7	HF	1.0		SU			04/03/25 00:24	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.302	U	0.169	0.169	1.00	0.302	pCi/L	04/09/25 07:29	05/06/25 17:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	91.4		30 - 110					04/09/25 07:29	05/06/25 17:04	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.894		0.409	0.417	1.00	0.555	pCi/L	04/09/25 07:34	05/06/25 10:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	91.4		30 - 110					04/09/25 07:34	05/06/25 10:20	1
Y Carrier	83.4		30 - 110					04/09/25 07:34	05/06/25 10:20	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW08-GW-0325
Date Collected: 04/01/25 09:40
Date Received: 04/02/25 15:40

Lab Sample ID: 310-303240-3
Matrix: Water

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.983		0.443	0.450	5.00	0.555	pCi/L		05/06/25 19:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW10-GW-0325

Lab Sample ID: 310-303240-4

Date Collected: 03/31/25 19:00

Matrix: Ground Water

Date Received: 04/02/25 15:40

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.56		5.00		mg/L			04/08/25 15:18	5
Sulfate	42.3		5.00		mg/L			04/08/25 15:18	5
Fluoride	<1.00		1.00		mg/L			04/08/25 15:18	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:18	1
Arsenic	0.0355		0.00200		mg/L		04/04/25 09:00	04/04/25 19:18	1
Barium	0.301		0.00200		mg/L		04/04/25 09:00	04/04/25 19:18	1
Beryllium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:18	1
Boron	0.435		0.100		mg/L		04/04/25 09:00	04/04/25 19:18	1
Cadmium	<0.000200		0.000200		mg/L		04/04/25 09:00	04/04/25 19:18	1
Calcium	111		0.500		mg/L		04/04/25 09:00	04/04/25 19:18	1
Chromium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:18	1
Cobalt	0.00132		0.000500		mg/L		04/04/25 09:00	04/04/25 19:18	1
Lead	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 19:18	1
Lithium	0.0680		0.0100		mg/L		04/04/25 09:00	04/04/25 19:18	1
Molybdenum	0.00442		0.00200		mg/L		04/04/25 09:00	04/04/25 19:18	1
Selenium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:18	1
Thallium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		04/08/25 10:00	04/08/25 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	660		50.0		mg/L			04/03/25 14:37	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.9	HF	1.0		SU			04/03/25 01:13	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.380	U	0.247	0.248	1.00	0.380	pCi/L	04/09/25 07:29	05/06/25 17:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	76.5		30 - 110					04/09/25 07:29	05/06/25 17:04	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.774	U	0.457	0.458	1.00	0.774	pCi/L	04/09/25 07:34	05/06/25 10:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	76.5		30 - 110					04/09/25 07:34	05/06/25 10:20	1
Y Carrier	73.3		30 - 110					04/09/25 07:34	05/06/25 10:20	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW10-GW-0325
Date Collected: 03/31/25 19:00
Date Received: 04/02/25 15:40

Lab Sample ID: 310-303240-4
Matrix: Ground Water

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.774	U	0.519	0.521	5.00	0.774	pCi/L		05/06/25 19:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW11-GW-0325

Lab Sample ID: 310-303240-5

Date Collected: 04/01/25 12:05

Matrix: Ground Water

Date Received: 04/02/25 15:40

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.8		5.00		mg/L			04/08/25 15:31	5
Sulfate	437		5.00		mg/L			04/08/25 15:31	5
Fluoride	<1.00		1.00		mg/L			04/08/25 15:31	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:20	1
Arsenic	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:20	1
Barium	0.0361		0.00200		mg/L		04/04/25 09:00	04/04/25 19:20	1
Beryllium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:20	1
Boron	0.340		0.100		mg/L		04/04/25 09:00	04/04/25 19:20	1
Cadmium	<0.000200		0.000200		mg/L		04/04/25 09:00	04/04/25 19:20	1
Calcium	206		0.500		mg/L		04/04/25 09:00	04/04/25 19:20	1
Chromium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:20	1
Cobalt	0.00692		0.000500		mg/L		04/04/25 09:00	04/04/25 19:20	1
Lead	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 19:20	1
Lithium	0.0935		0.0100		mg/L		04/04/25 09:00	04/04/25 19:20	1
Molybdenum	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:20	1
Selenium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:20	1
Thallium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:20	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		04/08/25 10:00	04/08/25 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1170		50.0		mg/L			04/03/25 15:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.7	HF	1.0		SU			04/03/25 01:30	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.401	U	0.216	0.216	1.00	0.401	pCi/L	04/09/25 07:29	05/06/25 17:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	87.4		30 - 110					04/09/25 07:29	05/06/25 17:04	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.624	U	0.371	0.372	1.00	0.624	pCi/L	04/09/25 07:34	05/06/25 10:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	87.4		30 - 110					04/09/25 07:34	05/06/25 10:20	1
Y Carrier	72.5		30 - 110					04/09/25 07:34	05/06/25 10:20	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW11-GW-0325
Date Collected: 04/01/25 12:05
Date Received: 04/02/25 15:40

Lab Sample ID: 310-303240-5
Matrix: Ground Water

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.624	U	0.429	0.430	5.00	0.624	pCi/L		05/06/25 19:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW12-GW-0325

Lab Sample ID: 310-303240-6

Date Collected: 04/01/25 11:30

Matrix: Water

Date Received: 04/02/25 15:40

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.7		5.00		mg/L			04/08/25 15:44	5
Sulfate	564		50.0		mg/L			04/09/25 12:20	50
Fluoride	<1.00		1.00		mg/L			04/08/25 15:44	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:23	1
Arsenic	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:23	1
Barium	0.0537		0.00200		mg/L		04/04/25 09:00	04/04/25 19:23	1
Beryllium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:23	1
Boron	1.23		0.100		mg/L		04/04/25 09:00	04/04/25 19:23	1
Cadmium	<0.000200		0.000200		mg/L		04/04/25 09:00	04/04/25 19:23	1
Calcium	255		0.500		mg/L		04/04/25 09:00	04/04/25 19:23	1
Chromium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:23	1
Cobalt	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 19:23	1
Lead	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 19:23	1
Lithium	0.141		0.0100		mg/L		04/04/25 09:00	04/04/25 19:23	1
Molybdenum	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:23	1
Selenium	0.0739		0.00500		mg/L		04/04/25 09:00	04/04/25 19:23	1
Thallium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		04/08/25 10:00	04/08/25 15:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1460		50.0		mg/L			04/03/25 15:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.6	HF	1.0		SU			04/03/25 00:45	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.293	U	0.121	0.121	1.00	0.293	pCi/L	04/09/25 07:29	05/06/25 17:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	92.9		30 - 110					04/09/25 07:29	05/06/25 17:04	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.586	U	0.369	0.371	1.00	0.586	pCi/L	04/09/25 07:34	05/06/25 10:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	92.9		30 - 110					04/09/25 07:34	05/06/25 10:20	1
Y Carrier	77.0		30 - 110					04/09/25 07:34	05/06/25 10:20	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW12-GW-0325
Date Collected: 04/01/25 11:30
Date Received: 04/02/25 15:40

Lab Sample ID: 310-303240-6
Matrix: Water

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.586	U	0.388	0.390	5.00	0.586	pCi/L		05/06/25 19:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW13-GW-0325

Lab Sample ID: 310-303240-7

Date Collected: 04/01/25 10:35

Matrix: Ground Water

Date Received: 04/02/25 15:40

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.3		5.00		mg/L			04/08/25 15:57	5
Sulfate	469		5.00		mg/L			04/08/25 15:57	5
Fluoride	<1.00		1.00		mg/L			04/08/25 15:57	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:25	1
Arsenic	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:25	1
Barium	0.0310		0.00200		mg/L		04/04/25 09:00	04/04/25 19:25	1
Beryllium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:25	1
Boron	1.51		0.100		mg/L		04/04/25 09:00	04/04/25 19:25	1
Cadmium	<0.000200		0.000200		mg/L		04/04/25 09:00	04/04/25 19:25	1
Calcium	214		0.500		mg/L		04/04/25 09:00	04/04/25 19:25	1
Chromium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:25	1
Cobalt	0.000515		0.000500		mg/L		04/04/25 09:00	04/04/25 19:25	1
Lead	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 19:25	1
Lithium	0.113		0.0100		mg/L		04/04/25 09:00	04/04/25 19:25	1
Molybdenum	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:25	1
Selenium	0.0178		0.00500		mg/L		04/04/25 09:00	04/04/25 19:25	1
Thallium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:25	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		04/08/25 10:00	04/08/25 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1270		50.0		mg/L			04/03/25 15:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.7	HF	1.0		SU			04/03/25 00:41	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.301	U	0.171	0.172	1.00	0.301	pCi/L	04/09/25 07:29	05/06/25 17:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	90.7		30 - 110					04/09/25 07:29	05/06/25 17:04	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.594	U	0.364	0.365	1.00	0.594	pCi/L	04/09/25 07:34	05/06/25 10:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	90.7		30 - 110					04/09/25 07:34	05/06/25 10:20	1
Y Carrier	78.9		30 - 110					04/09/25 07:34	05/06/25 10:20	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW13-GW-0325
Date Collected: 04/01/25 10:35
Date Received: 04/02/25 15:40

Lab Sample ID: 310-303240-7
Matrix: Ground Water

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.594	U	0.402	0.403	5.00	0.594	pCi/L		05/06/25 19:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW14-GW-0325

Lab Sample ID: 310-303240-8

Date Collected: 03/31/25 14:05

Matrix: Water

Date Received: 04/02/25 15:40

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.10		5.00		mg/L			04/08/25 16:10	5
Sulfate	205		5.00		mg/L			04/08/25 16:10	5
Fluoride	<1.00		1.00		mg/L			04/08/25 16:10	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:28	1
Arsenic	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:28	1
Barium	0.0609		0.00200		mg/L		04/04/25 09:00	04/04/25 19:28	1
Beryllium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:28	1
Boron	0.346		0.100		mg/L		04/04/25 09:00	04/04/25 19:28	1
Cadmium	<0.000200		0.000200		mg/L		04/04/25 09:00	04/04/25 19:28	1
Calcium	190		0.500		mg/L		04/04/25 09:00	04/04/25 19:28	1
Chromium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:28	1
Cobalt	0.00499		0.000500		mg/L		04/04/25 09:00	04/04/25 19:28	1
Lead	0.000880		0.000500		mg/L		04/04/25 09:00	04/04/25 19:28	1
Lithium	0.122		0.0100		mg/L		04/04/25 09:00	04/04/25 19:28	1
Molybdenum	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:28	1
Selenium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:28	1
Thallium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:28	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		04/08/25 10:00	04/08/25 15:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	934		50.0		mg/L			04/03/25 14:37	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.6	HF	1.0		SU			04/03/25 00:28	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.272	U	0.161	0.162	1.00	0.272	pCi/L	04/09/25 07:29	05/06/25 17:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	90.4		30 - 110					04/09/25 07:29	05/06/25 17:04	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.601		0.353	0.357	1.00	0.497	pCi/L	04/09/25 07:34	05/06/25 10:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	90.4		30 - 110					04/09/25 07:34	05/06/25 10:21	1
Y Carrier	82.6		30 - 110					04/09/25 07:34	05/06/25 10:21	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW14-GW-0325

Lab Sample ID: 310-303240-8

Date Collected: 03/31/25 14:05

Matrix: Water

Date Received: 04/02/25 15:40

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.718		0.388	0.392	5.00	0.497	pCi/L		05/06/25 19:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW15-GW-0325

Lab Sample ID: 310-303240-9

Date Collected: 03/31/25 14:40

Matrix: Water

Date Received: 04/02/25 15:40

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.4		5.00		mg/L			04/08/25 16:49	5
Sulfate	279		5.00		mg/L			04/08/25 16:49	5
Fluoride	<1.00		1.00		mg/L			04/08/25 16:49	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:30	1
Arsenic	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:30	1
Barium	0.120		0.00200		mg/L		04/04/25 09:00	04/04/25 19:30	1
Beryllium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:30	1
Boron	1.25		0.100		mg/L		04/04/25 09:00	04/04/25 19:30	1
Cadmium	<0.000200		0.000200		mg/L		04/04/25 09:00	04/04/25 19:30	1
Calcium	116		0.500		mg/L		04/04/25 09:00	04/04/25 19:30	1
Chromium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:30	1
Cobalt	0.00219		0.000500		mg/L		04/04/25 09:00	04/04/25 19:30	1
Lead	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 19:30	1
Lithium	0.0538		0.0100		mg/L		04/04/25 09:00	04/04/25 19:30	1
Molybdenum	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:30	1
Selenium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:30	1
Thallium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		04/08/25 10:00	04/08/25 15:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	972		50.0		mg/L			04/03/25 14:37	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.8	HF	1.0		SU			04/03/25 01:00	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.405	U	0.245	0.245	1.00	0.405	pCi/L	04/09/25 07:29	05/06/25 17:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	88.1		30 - 110					04/09/25 07:29	05/06/25 17:04	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.669		0.379	0.384	1.00	0.536	pCi/L	04/09/25 07:34	05/06/25 10:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	88.1		30 - 110					04/09/25 07:34	05/06/25 10:21	1
Y Carrier	80.4		30 - 110					04/09/25 07:34	05/06/25 10:21	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW15-GW-0325
Date Collected: 03/31/25 14:40
Date Received: 04/02/25 15:40

Lab Sample ID: 310-303240-9
Matrix: Water

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.865		0.451	0.456	5.00	0.536	pCi/L		05/06/25 19:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW16-GW-0325

Lab Sample ID: 310-303240-10

Date Collected: 03/31/25 18:50

Matrix: Ground Water

Date Received: 04/02/25 15:40

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.27		5.00		mg/L			04/08/25 17:02	5
Sulfate	51.7		5.00		mg/L			04/08/25 17:02	5
Fluoride	<1.00		1.00		mg/L			04/08/25 17:02	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 18:54	1
Arsenic	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 18:54	1
Barium	0.295		0.00200		mg/L		04/04/25 09:00	04/04/25 18:54	1
Beryllium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 18:54	1
Boron	0.203		0.100		mg/L		04/04/25 09:00	04/07/25 13:40	1
Cadmium	<0.000200		0.000200		mg/L		04/04/25 09:00	04/04/25 18:54	1
Calcium	139		0.500		mg/L		04/04/25 09:00	04/04/25 18:54	1
Chromium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 18:54	1
Cobalt	0.000838		0.000500		mg/L		04/04/25 09:00	04/04/25 18:54	1
Lead	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 18:54	1
Lithium	0.0604		0.0100		mg/L		04/04/25 09:00	04/04/25 18:54	1
Molybdenum	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 18:54	1
Selenium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 18:54	1
Thallium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 18:54	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		04/08/25 10:00	04/08/25 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	698		50.0		mg/L			04/03/25 14:37	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.7	HF	1.0		SU			04/03/25 01:05	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.281		0.203	0.204	1.00	0.276	pCi/L	04/09/25 07:29	05/06/25 17:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	88.1		30 - 110					04/09/25 07:29	05/06/25 17:04	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.647	U	0.384	0.385	1.00	0.647	pCi/L	04/09/25 07:34	05/06/25 10:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	88.1		30 - 110					04/09/25 07:34	05/06/25 10:21	1
Y Carrier	77.8		30 - 110					04/09/25 07:34	05/06/25 10:21	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW16-GW-0325

Lab Sample ID: 310-303240-10

Date Collected: 03/31/25 18:50

Matrix: Ground Water

Date Received: 04/02/25 15:40

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.647	U	0.434	0.436	5.00	0.647	pCi/L		05/06/25 19:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW17-GW-0325

Lab Sample ID: 310-303240-11

Date Collected: 03/31/25 15:00

Matrix: Ground Water

Date Received: 04/02/25 15:40

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.2		5.00		mg/L			04/08/25 17:41	5
Sulfate	105		5.00		mg/L			04/08/25 17:41	5
Fluoride	<1.00		1.00		mg/L			04/08/25 17:41	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:32	1
Arsenic	0.00395		0.00200		mg/L		04/04/25 09:00	04/04/25 19:32	1
Barium	0.124		0.00200		mg/L		04/04/25 09:00	04/04/25 19:32	1
Beryllium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:32	1
Boron	0.233		0.100		mg/L		04/04/25 09:00	04/07/25 13:47	1
Cadmium	<0.000200		0.000200		mg/L		04/04/25 09:00	04/04/25 19:32	1
Calcium	147		0.500		mg/L		04/04/25 09:00	04/04/25 19:32	1
Chromium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:32	1
Cobalt	0.000649		0.000500		mg/L		04/04/25 09:00	04/04/25 19:32	1
Lead	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 19:32	1
Lithium	0.0845		0.0100		mg/L		04/04/25 09:00	04/04/25 19:32	1
Molybdenum	0.00336		0.00200		mg/L		04/04/25 09:00	04/07/25 13:47	1
Selenium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:32	1
Thallium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:32	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		04/08/25 10:00	04/08/25 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	714		50.0		mg/L			04/03/25 14:37	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.8	HF	1.0		SU			04/03/25 01:21	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.399		0.250	0.253	1.00	0.339	pCi/L	04/09/25 07:29	05/06/25 16:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	88.6		30 - 110					04/09/25 07:29	05/06/25 16:58	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.27		0.493	0.507	1.00	0.645	pCi/L	04/09/25 07:34	05/06/25 10:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	88.6		30 - 110					04/09/25 07:34	05/06/25 10:21	1
Y Carrier	82.2		30 - 110					04/09/25 07:34	05/06/25 10:21	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW17-GW-0325

Lab Sample ID: 310-303240-11

Date Collected: 03/31/25 15:00

Matrix: Ground Water

Date Received: 04/02/25 15:40

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.67		0.553	0.567	5.00	0.645	pCi/L		05/06/25 19:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW18-GW-0325

Lab Sample ID: 310-303240-12

Date Collected: 03/31/25 16:35

Matrix: Ground Water

Date Received: 04/02/25 15:40

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00		5.00		mg/L			04/08/25 17:55	5
Sulfate	127		5.00		mg/L			04/08/25 17:55	5
Fluoride	<1.00		1.00		mg/L			04/08/25 17:55	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:44	1
Arsenic	0.0237		0.00200		mg/L		04/04/25 09:00	04/04/25 19:44	1
Barium	0.123		0.00200		mg/L		04/04/25 09:00	04/04/25 19:44	1
Beryllium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:44	1
Boron	0.249		0.100		mg/L		04/04/25 09:00	04/07/25 13:52	1
Cadmium	<0.000200		0.000200		mg/L		04/04/25 09:00	04/04/25 19:44	1
Calcium	171		0.500		mg/L		04/04/25 09:00	04/04/25 19:44	1
Chromium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:44	1
Cobalt	0.00265		0.000500		mg/L		04/04/25 09:00	04/04/25 19:44	1
Lead	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 19:44	1
Lithium	0.139		0.0100		mg/L		04/04/25 09:00	04/04/25 19:44	1
Molybdenum	0.00233		0.00200		mg/L		04/04/25 09:00	04/07/25 13:52	1
Selenium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:44	1
Thallium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		04/08/25 10:00	04/08/25 15:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	840		50.0		mg/L			04/03/25 14:37	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.8	HF	1.0		SU			04/03/25 00:49	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.272	U	0.188	0.189	1.00	0.272	pCi/L	04/09/25 07:36	05/05/25 17:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	90.7		30 - 110					04/09/25 07:36	05/05/25 17:02	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.04		0.481	0.490	1.00	0.663	pCi/L	04/09/25 07:38	05/05/25 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	90.7		30 - 110					04/09/25 07:38	05/05/25 12:24	1
Y Carrier	77.4		30 - 110					04/09/25 07:38	05/05/25 12:24	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW18-GW-0325

Lab Sample ID: 310-303240-12

Date Collected: 03/31/25 16:35

Matrix: Ground Water

Date Received: 04/02/25 15:40

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.26		0.516	0.525	5.00	0.663	pCi/L		05/06/25 19:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW19-GW-0325

Lab Sample ID: 310-303240-13

Date Collected: 03/31/25 13:25

Matrix: Ground Water

Date Received: 04/02/25 15:40

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.7		5.00		mg/L			04/08/25 18:08	5
Sulfate	456		5.00		mg/L			04/08/25 18:08	5
Fluoride	<1.00		1.00		mg/L			04/08/25 18:08	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:47	1
Arsenic	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:47	1
Barium	0.137		0.00200		mg/L		04/04/25 09:00	04/04/25 19:47	1
Beryllium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:47	1
Boron	0.585		0.100		mg/L		04/04/25 09:00	04/04/25 19:47	1
Cadmium	<0.000200		0.000200		mg/L		04/04/25 09:00	04/04/25 19:47	1
Calcium	277		0.500		mg/L		04/04/25 09:00	04/04/25 19:47	1
Chromium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:47	1
Cobalt	0.00697		0.000500		mg/L		04/04/25 09:00	04/04/25 19:47	1
Lead	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 19:47	1
Lithium	0.169		0.0100		mg/L		04/04/25 09:00	04/04/25 19:47	1
Molybdenum	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:47	1
Selenium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:47	1
Thallium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:47	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		04/08/25 10:00	04/08/25 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1490		50.0		mg/L			04/03/25 14:37	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.7	HF	1.0		SU			04/03/25 01:17	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.662		0.367	0.371	1.00	0.463	pCi/L	04/09/25 07:36	05/05/25 17:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	59.1		30 - 110					04/09/25 07:36	05/05/25 17:02	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.902		0.594	0.600	1.00	0.883	pCi/L	04/09/25 07:38	05/05/25 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	59.1		30 - 110					04/09/25 07:38	05/05/25 12:24	1
Y Carrier	82.6		30 - 110					04/09/25 07:38	05/05/25 12:24	1

Eurofins Cedar Falls

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW19-GW-0325
Date Collected: 03/31/25 13:25
Date Received: 04/02/25 15:40

Lab Sample ID: 310-303240-13
Matrix: Ground Water

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.56		0.698	0.705	5.00	0.883	pCi/L		05/06/25 19:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW20-GW-0325

Lab Sample ID: 310-303240-14

Date Collected: 03/31/25 12:55

Matrix: Ground Water

Date Received: 04/02/25 15:40

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.0		5.00		mg/L			04/08/25 18:21	5
Sulfate	352		5.00		mg/L			04/08/25 18:21	5
Fluoride	<1.00		1.00		mg/L			04/08/25 18:21	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:49	1
Arsenic	0.0136		0.00200		mg/L		04/04/25 09:00	04/04/25 19:49	1
Barium	0.0886		0.00200		mg/L		04/04/25 09:00	04/04/25 19:49	1
Beryllium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:49	1
Boron	1.17		0.100		mg/L		04/04/25 09:00	04/04/25 19:49	1
Cadmium	<0.000200		0.000200		mg/L		04/04/25 09:00	04/04/25 19:49	1
Calcium	205		0.500		mg/L		04/04/25 09:00	04/04/25 19:49	1
Chromium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:49	1
Cobalt	0.00255		0.000500		mg/L		04/04/25 09:00	04/04/25 19:49	1
Lead	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 19:49	1
Lithium	0.110		0.0100		mg/L		04/04/25 09:00	04/04/25 19:49	1
Molybdenum	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:49	1
Selenium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:49	1
Thallium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:49	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		04/08/25 10:00	04/08/25 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1170		50.0		mg/L			04/03/25 14:37	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.8	HF	1.0		SU			04/03/25 00:32	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.321	U	0.217	0.218	1.00	0.321	pCi/L	04/09/25 07:36	05/05/25 17:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	80.3		30 - 110					04/09/25 07:36	05/05/25 17:03	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.764	U	0.420	0.420	1.00	0.764	pCi/L	04/09/25 07:38	05/05/25 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	80.3		30 - 110					04/09/25 07:38	05/05/25 12:24	1
Y Carrier	78.9		30 - 110					04/09/25 07:38	05/05/25 12:24	1

Eurofins Cedar Falls

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW20-GW-0325
Date Collected: 03/31/25 12:55
Date Received: 04/02/25 15:40

Lab Sample ID: 310-303240-14
Matrix: Ground Water

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.764	U	0.473	0.473	5.00	0.764	pCi/L		05/06/25 19:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW21-GW-0325

Lab Sample ID: 310-303240-15

Date Collected: 03/31/25 18:15

Matrix: Ground Water

Date Received: 04/02/25 15:40

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.72		5.00		mg/L			04/08/25 18:34	5
Sulfate	140		5.00		mg/L			04/08/25 18:34	5
Fluoride	<1.00		1.00		mg/L			04/08/25 18:34	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:52	1
Arsenic	0.00786		0.00200		mg/L		04/04/25 09:00	04/04/25 19:52	1
Barium	0.399		0.00200		mg/L		04/04/25 09:00	04/04/25 19:52	1
Beryllium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:52	1
Boron	0.241		0.100		mg/L		04/04/25 09:00	04/04/25 19:52	1
Cadmium	<0.000200		0.000200		mg/L		04/04/25 09:00	04/04/25 19:52	1
Calcium	182		0.500		mg/L		04/04/25 09:00	04/04/25 19:52	1
Chromium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:52	1
Cobalt	0.00338		0.000500		mg/L		04/04/25 09:00	04/04/25 19:52	1
Lead	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 19:52	1
Lithium	0.0816		0.0100		mg/L		04/04/25 09:00	04/04/25 19:52	1
Molybdenum	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:52	1
Selenium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:52	1
Thallium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:52	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		04/08/25 10:00	04/08/25 15:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	778		50.0		mg/L			04/03/25 14:37	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.7	HF	1.0		SU			04/03/25 00:37	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.607		0.265	0.270	1.00	0.281	pCi/L	04/09/25 07:36	05/05/25 17:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	93.9		30 - 110					04/09/25 07:36	05/05/25 17:03	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.23		0.441	0.455	1.00	0.542	pCi/L	04/09/25 07:38	05/05/25 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	93.9		30 - 110					04/09/25 07:38	05/05/25 12:24	1
Y Carrier	82.2		30 - 110					04/09/25 07:38	05/05/25 12:24	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW21-GW-0325
Date Collected: 03/31/25 18:15
Date Received: 04/02/25 15:40

Lab Sample ID: 310-303240-15
Matrix: Ground Water

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228										
Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.84		0.514	0.529	5.00	0.542	pCi/L		05/06/25 19:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: DP01-GW-0325

Lab Sample ID: 310-303240-16

Date Collected: 03/31/25 00:00

Matrix: Water

Date Received: 04/02/25 15:40

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.26		5.00		mg/L			04/08/25 18:47	5
Sulfate	202		5.00		mg/L			04/08/25 18:47	5
Fluoride	<1.00		1.00		mg/L			04/08/25 18:47	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:54	1
Arsenic	0.0174		0.00200		mg/L		04/04/25 09:00	04/04/25 19:54	1
Barium	0.184		0.00200		mg/L		04/04/25 09:00	04/04/25 19:54	1
Beryllium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:54	1
Boron	0.424		0.100		mg/L		04/04/25 09:00	04/04/25 19:54	1
Cadmium	<0.000200		0.000200		mg/L		04/04/25 09:00	04/04/25 19:54	1
Calcium	173		0.500		mg/L		04/04/25 09:00	04/04/25 19:54	1
Chromium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:54	1
Cobalt	0.00572		0.000500		mg/L		04/04/25 09:00	04/04/25 19:54	1
Lead	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 19:54	1
Lithium	0.107		0.0100		mg/L		04/04/25 09:00	04/04/25 19:54	1
Molybdenum	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 19:54	1
Selenium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 19:54	1
Thallium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 19:54	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		04/08/25 10:00	04/08/25 15:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	876		50.0		mg/L			04/03/25 14:37	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.7	HF	1.0		SU			04/03/25 01:34	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.373	U	0.201	0.201	1.00	0.373	pCi/L	04/09/25 07:36	05/05/25 17:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	99.5		30 - 110					04/09/25 07:36	05/05/25 17:14	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.498	U	0.296	0.297	1.00	0.498	pCi/L	04/09/25 07:38	05/05/25 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	99.5		30 - 110					04/09/25 07:38	05/05/25 12:24	1
Y Carrier	86.0		30 - 110					04/09/25 07:38	05/05/25 12:24	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: DP01-GW-0325

Lab Sample ID: 310-303240-16

Date Collected: 03/31/25 00:00

Matrix: Water

Date Received: 04/02/25 15:40

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.498	U	0.358	0.359	5.00	0.498	pCi/L		05/06/25 19:33	1

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-451132/3

Matrix: Water

Analysis Batch: 451132

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00		mg/L			04/08/25 14:12	1
Sulfate	<1.00		1.00		mg/L			04/08/25 14:12	1
Fluoride	<0.200		0.200		mg/L			04/08/25 14:12	1

Lab Sample ID: LCS 310-451132/4

Matrix: Water

Analysis Batch: 451132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.739		mg/L		97	90 - 110
Sulfate	10.0	10.17		mg/L		102	90 - 110
Fluoride	2.00	2.041		mg/L		102	90 - 110

Lab Sample ID: 310-303240-10 MS

Matrix: Ground Water

Analysis Batch: 451132

Client Sample ID: MW16-GW-0325

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6.27		25.0	28.66		mg/L		90	80 - 120
Sulfate	51.7		25.0	76.95		mg/L		101	80 - 120
Fluoride	<1.00		5.00	5.240		mg/L		105	80 - 120

Lab Sample ID: 310-303240-10 MSD

Matrix: Ground Water

Analysis Batch: 451132

Client Sample ID: MW16-GW-0325

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6.27		25.0	27.87		mg/L		86	80 - 120	3	15
Sulfate	51.7		25.0	75.70		mg/L		96	80 - 120	2	15
Fluoride	<1.00		5.00	5.102		mg/L		102	80 - 120	3	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-450616/1-A

Matrix: Water

Analysis Batch: 450798

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 450616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 18:49	1
Arsenic	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 18:49	1
Barium	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 18:49	1
Beryllium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 18:49	1
Cadmium	<0.000200		0.000200		mg/L		04/04/25 09:00	04/04/25 18:49	1
Calcium	<0.500		0.500		mg/L		04/04/25 09:00	04/04/25 18:49	1
Chromium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 18:49	1
Cobalt	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 18:49	1
Lead	<0.000500		0.000500		mg/L		04/04/25 09:00	04/04/25 18:49	1
Lithium	<0.0100		0.0100		mg/L		04/04/25 09:00	04/04/25 18:49	1
Molybdenum	<0.00200		0.00200		mg/L		04/04/25 09:00	04/04/25 18:49	1
Selenium	<0.00500		0.00500		mg/L		04/04/25 09:00	04/04/25 18:49	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 310-450616/1-A
Matrix: Water
Analysis Batch: 450798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00100		0.00100		mg/L		04/04/25 09:00	04/04/25 18:49	1

Lab Sample ID: MB 310-450616/1-A
Matrix: Water
Analysis Batch: 450918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.100		0.100		mg/L		04/04/25 09:00	04/07/25 13:28	1

Lab Sample ID: LCS 310-450616/2-A
Matrix: Water
Analysis Batch: 450798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 450616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2070		mg/L		103	80 - 120
Arsenic	0.200	0.1870		mg/L		93	80 - 120
Barium	0.100	0.09667		mg/L		97	80 - 120
Beryllium	0.100	0.08559		mg/L		86	80 - 120
Cadmium	0.100	0.09159		mg/L		92	80 - 120
Calcium	2.00	1.746		mg/L		87	80 - 120
Chromium	0.100	0.09148		mg/L		91	80 - 120
Cobalt	0.100	0.09623		mg/L		96	80 - 120
Lead	0.200	0.1922		mg/L		96	80 - 120
Lithium	0.200	0.1879		mg/L		94	80 - 120
Molybdenum	0.200	0.1844		mg/L		92	80 - 120
Selenium	0.400	0.3625		mg/L		91	80 - 120
Thallium	0.100	0.08500		mg/L		85	80 - 120

Lab Sample ID: LCS 310-450616/2-A
Matrix: Water
Analysis Batch: 450918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 450616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.200	0.2204		mg/L		110	80 - 120

Lab Sample ID: 310-303240-10 MS
Matrix: Ground Water
Analysis Batch: 450798

Client Sample ID: MW16-GW-0325
Prep Type: Total/NA
Prep Batch: 450616

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00200		0.200	0.2284		mg/L		114	75 - 125
Arsenic	<0.00200		0.200	0.2080		mg/L		104	75 - 125
Barium	0.295		0.100	0.4008		mg/L		106	75 - 125
Beryllium	<0.00100		0.100	0.09925		mg/L		99	75 - 125
Cadmium	<0.000200		0.100	0.09661		mg/L		96	75 - 125
Calcium	139		2.00	135.3	4	mg/L		-170	75 - 125
Chromium	<0.00500		0.100	0.09764		mg/L		98	75 - 125
Cobalt	0.000838		0.100	0.1013		mg/L		100	75 - 125
Lead	<0.000500		0.200	0.2012		mg/L		101	75 - 125
Lithium	0.0604		0.200	0.2616		mg/L		101	75 - 125

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QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-303240-10 MS

Matrix: Ground Water

Analysis Batch: 450798

Client Sample ID: MW16-GW-0325

Prep Type: Total/NA

Prep Batch: 450616

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	<0.00200		0.200	0.2105		mg/L		104	75 - 125
Selenium	<0.00500		0.400	0.4024		mg/L		100	75 - 125
Thallium	<0.00100		0.100	0.08568		mg/L		86	75 - 125

Lab Sample ID: 310-303240-10 MS

Matrix: Ground Water

Analysis Batch: 450918

Client Sample ID: MW16-GW-0325

Prep Type: Total/NA

Prep Batch: 450616

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.203		0.200	0.4050		mg/L		101	75 - 125

Lab Sample ID: 310-303240-10 MSD

Matrix: Ground Water

Analysis Batch: 450798

Client Sample ID: MW16-GW-0325

Prep Type: Total/NA

Prep Batch: 450616

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00200		0.200	0.2192		mg/L		109	75 - 125	4	20
Arsenic	<0.00200		0.200	0.2018		mg/L		101	75 - 125	3	20
Barium	0.295		0.100	0.3910		mg/L		96	75 - 125	2	20
Beryllium	<0.00100		0.100	0.09445		mg/L		94	75 - 125	5	20
Cadmium	<0.000200		0.100	0.09369		mg/L		94	75 - 125	3	20
Calcium	139		2.00	131.5	4	mg/L		-361	75 - 125	3	20
Chromium	<0.00500		0.100	0.09516		mg/L		95	75 - 125	3	20
Cobalt	0.000838		0.100	0.09860		mg/L		98	75 - 125	3	20
Lead	<0.000500		0.200	0.1941		mg/L		97	75 - 125	4	20
Lithium	0.0604		0.200	0.2548		mg/L		97	75 - 125	3	20
Molybdenum	<0.00200		0.200	0.2013		mg/L		100	75 - 125	4	20
Selenium	<0.00500		0.400	0.3894		mg/L		97	75 - 125	3	20
Thallium	<0.00100		0.100	0.08395		mg/L		84	75 - 125	2	20

Lab Sample ID: 310-303240-10 MSD

Matrix: Ground Water

Analysis Batch: 450918

Client Sample ID: MW16-GW-0325

Prep Type: Total/NA

Prep Batch: 450616

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.203		0.200	0.3942		mg/L		95	75 - 125	3	20

Lab Sample ID: 310-303240-11 DU

Matrix: Ground Water

Analysis Batch: 450798

Client Sample ID: MW17-GW-0325

Prep Type: Total/NA

Prep Batch: 450616

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.00200		<0.00200		mg/L		NC	20
Arsenic	0.00395		0.003911		mg/L		1	20
Barium	0.124		0.1237		mg/L		0.2	20
Beryllium	<0.00100		<0.00100		mg/L		NC	20
Cadmium	<0.000200		<0.000200		mg/L		NC	20
Calcium	147		150.5		mg/L		2	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Cobalt	0.000649		0.0006310		mg/L		3	20

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QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-303240-11 DU
Matrix: Ground Water
Analysis Batch: 450798

Client Sample ID: MW17-GW-0325
Prep Type: Total/NA
Prep Batch: 450616

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Lead	<0.000500		<0.000500		mg/L		NC	20
Lithium	0.0845		0.08522		mg/L		0.9	20
Selenium	<0.00500		<0.00500		mg/L		NC	20
Thallium	<0.00100		<0.00100		mg/L		NC	20

Lab Sample ID: 310-303240-11 DU
Matrix: Ground Water
Analysis Batch: 450918

Client Sample ID: MW17-GW-0325
Prep Type: Total/NA
Prep Batch: 450616

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Boron	0.233		0.2374		mg/L		2	20
Molybdenum	0.00336		0.002552	F5	mg/L		27	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-450861/1-A
Matrix: Water
Analysis Batch: 451014

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450861

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		04/08/25 10:00	04/08/25 14:35	1

Lab Sample ID: LCS 310-450861/2-A
Matrix: Water
Analysis Batch: 451014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 450861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.001646		mg/L		99	80 - 120

Lab Sample ID: 310-303240-10 MS
Matrix: Ground Water
Analysis Batch: 451014

Client Sample ID: MW16-GW-0325
Prep Type: Total/NA
Prep Batch: 450861

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000200		0.00167	0.001631		mg/L		98	80 - 120

Lab Sample ID: 310-303240-10 MSD
Matrix: Ground Water
Analysis Batch: 451014

Client Sample ID: MW16-GW-0325
Prep Type: Total/NA
Prep Batch: 450861

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	<0.000200		0.00167	0.001657		mg/L		99	80 - 120	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-450622/1
Matrix: Water
Analysis Batch: 450622

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0		mg/L			04/03/25 14:37	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: LCS 310-450622/2
Matrix: Water
Analysis Batch: 450622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	990.0		mg/L		99	88 - 110

Lab Sample ID: 310-303240-4 DU
Matrix: Ground Water
Analysis Batch: 450622

Client Sample ID: MW10-GW-0325
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	660		662.0		mg/L		0.3	16

Lab Sample ID: MB 310-450628/1
Matrix: Water
Analysis Batch: 450628

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0		mg/L			04/03/25 15:30	1

Lab Sample ID: LCS 310-450628/2
Matrix: Water
Analysis Batch: 450628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1050	1004		mg/L		96	88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 310-450593/1
Matrix: Water
Analysis Batch: 450593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		101	98 - 102

Lab Sample ID: 310-303240-10 DU
Matrix: Ground Water
Analysis Batch: 450593

Client Sample ID: MW16-GW-0325
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.7	HF	7.7		SU		0.07	20

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-711580/1-A
Matrix: Water
Analysis Batch: 716201

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 711580

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.314	U	0.119	0.119	1.00	0.314	pCi/L	04/09/25 07:29	05/06/25 14:31	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-711580/1-A
Matrix: Water
Analysis Batch: 716201

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 711580

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Barium	89.9		30 - 110	04/09/25 07:29	05/06/25 14:31	1

Lab Sample ID: LCS 160-711580/2-A
Matrix: Water
Analysis Batch: 716201

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 711580

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	9.58	7.956		1.15	1.00	0.377	pCi/L	83	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Barium	93.2		30 - 110						

Lab Sample ID: 310-303240-10 MS
Matrix: Ground Water
Analysis Batch: 716201

Client Sample ID: MW16-GW-0325
Prep Type: Total/NA
Prep Batch: 711580

	Sample	Sample	Spike	MS	MS	Total					%Rec		
Analyte	Result	Qual	Added	Result	Qual	Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	Limits		
Radium-226	0.281		9.54	8.027		1.14	1.00	0.420	pCi/L	81	60 - 140		
Carrier	MS %Yield	MS Qualifier	Limits										
Barium	93.7		30 - 110										

Lab Sample ID: 310-303240-10 MSD
Matrix: Ground Water
Analysis Batch: 716200

Client Sample ID: MW16-GW-0325
Prep Type: Total/NA
Prep Batch: 711580

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.281		9.57	7.527		1.05	1.00	0.326	pCi/L	76	60 - 140	0.23	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Barium	91.2		30 - 110										

Lab Sample ID: MB 160-711588/1-A
Matrix: Water
Analysis Batch: 716104

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 711588

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.316	U	0.153	0.153	1.00	0.316	pCi/L	04/09/25 07:36	05/05/25 17:02	1
Carrier	MB %Yield	MB Qualifier	Limits							
Barium	85.6		30 - 110							

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QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-711588/2-A

Matrix: Water

Analysis Batch: 716104

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 711588

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226			9.58	9.170		1.22	1.00	0.294	pCi/L	96	75 - 125
	LCS	LCS									
Carrier	%Yield	Qualifier	Limits								
Barium	91.9		30 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-711585/1-A

Matrix: Water

Analysis Batch: 716201

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 711585

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.599	U	0.356	0.357	1.00	0.599	pCi/L	04/09/25 07:34	05/06/25 10:24	1
	MB	MB								
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	89.9		30 - 110					04/09/25 07:34	05/06/25 10:24	1
Y Carrier	80.4		30 - 110					04/09/25 07:34	05/06/25 10:24	1

Lab Sample ID: LCS 160-711585/2-A

Matrix: Water

Analysis Batch: 716201

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 711585

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228			9.47	11.96		1.52	1.00	0.474	pCi/L	126	75 - 125
	LCS	LCS									
Carrier	%Yield	Qualifier	Limits								
Barium	93.2		30 - 110								
Y Carrier	84.1		30 - 110								

Lab Sample ID: 310-303240-10 MS

Matrix: Ground Water

Analysis Batch: 716200

Client Sample ID: MW16-GW-0325

Prep Type: Total/NA

Prep Batch: 711585

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	<0.647	U	9.44	10.14		1.37	1.00	0.550	pCi/L	105	60 - 140
	MS	MS									
Carrier	%Yield	Qualifier	Limits								
Barium	93.7		30 - 110								
Y Carrier	78.1		30 - 110								

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QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 310-303240-10 MSD

Matrix: Ground Water

Analysis Batch: 716200

Client Sample ID: MW16-GW-0325

Prep Type: Total/NA

Prep Batch: 711585

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	<0.647	U	9.47	9.349		1.31	1.00	0.508	pCi/L	96	60 - 140	0.29	1
MSD MSD													
Carrier	%Yield	Qualifier	Limits										
Barium	91.2		30 - 110										
Y Carrier	77.0		30 - 110										

Lab Sample ID: MB 160-711592/1-A

Matrix: Water

Analysis Batch: 716135

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 711592

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.580	U	0.281	0.281	1.00	0.580	pCi/L	04/09/25 07:38	05/05/25 12:23	1
MB MB										
Carrier	%Yield	Qualifier	Limits							
Barium	85.6		30 - 110							
Y Carrier	78.9		30 - 110							
								Prepared	Analyzed	Dil Fac
								04/09/25 07:38	05/05/25 12:23	1
								04/09/25 07:38	05/05/25 12:23	1

Lab Sample ID: LCS 160-711592/2-A

Matrix: Water

Analysis Batch: 716135

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 711592

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.47	10.11		1.36	1.00	0.554	pCi/L	107	75 - 125
LCS LCS									
Carrier	%Yield	Qualifier	Limits						
Barium	91.9		30 - 110						
Y Carrier	83.4		30 - 110						

QC Association Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

HPLC/IC

Analysis Batch: 451132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303240-1	MW02-GW-0325	Total/NA	Ground Water	9056A	
310-303240-2	MW04-GW-0325	Total/NA	Ground Water	9056A	
310-303240-3	MW08-GW-0325	Total/NA	Water	9056A	
310-303240-4	MW10-GW-0325	Total/NA	Ground Water	9056A	
310-303240-5	MW11-GW-0325	Total/NA	Ground Water	9056A	
310-303240-6	MW12-GW-0325	Total/NA	Water	9056A	
310-303240-6	MW12-GW-0325	Total/NA	Water	9056A	
310-303240-7	MW13-GW-0325	Total/NA	Ground Water	9056A	
310-303240-8	MW14-GW-0325	Total/NA	Water	9056A	
310-303240-9	MW15-GW-0325	Total/NA	Water	9056A	
310-303240-10	MW16-GW-0325	Total/NA	Ground Water	9056A	
310-303240-11	MW17-GW-0325	Total/NA	Ground Water	9056A	
310-303240-12	MW18-GW-0325	Total/NA	Ground Water	9056A	
310-303240-13	MW19-GW-0325	Total/NA	Ground Water	9056A	
310-303240-14	MW20-GW-0325	Total/NA	Ground Water	9056A	
310-303240-15	MW21-GW-0325	Total/NA	Ground Water	9056A	
310-303240-16	DP01-GW-0325	Total/NA	Water	9056A	
MB 310-451132/3	Method Blank	Total/NA	Water	9056A	
LCS 310-451132/4	Lab Control Sample	Total/NA	Water	9056A	
310-303240-10 MS	MW16-GW-0325	Total/NA	Ground Water	9056A	
310-303240-10 MSD	MW16-GW-0325	Total/NA	Ground Water	9056A	

Metals

Prep Batch: 450616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303240-1	MW02-GW-0325	Total/NA	Ground Water	3005A	
310-303240-2	MW04-GW-0325	Total/NA	Ground Water	3005A	
310-303240-3	MW08-GW-0325	Total/NA	Water	3005A	
310-303240-4	MW10-GW-0325	Total/NA	Ground Water	3005A	
310-303240-5	MW11-GW-0325	Total/NA	Ground Water	3005A	
310-303240-6	MW12-GW-0325	Total/NA	Water	3005A	
310-303240-7	MW13-GW-0325	Total/NA	Ground Water	3005A	
310-303240-8	MW14-GW-0325	Total/NA	Water	3005A	
310-303240-9	MW15-GW-0325	Total/NA	Water	3005A	
310-303240-10	MW16-GW-0325	Total/NA	Ground Water	3005A	
310-303240-11	MW17-GW-0325	Total/NA	Ground Water	3005A	
310-303240-12	MW18-GW-0325	Total/NA	Ground Water	3005A	
310-303240-13	MW19-GW-0325	Total/NA	Ground Water	3005A	
310-303240-14	MW20-GW-0325	Total/NA	Ground Water	3005A	
310-303240-15	MW21-GW-0325	Total/NA	Ground Water	3005A	
310-303240-16	DP01-GW-0325	Total/NA	Water	3005A	
MB 310-450616/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-450616/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-303240-10 MS	MW16-GW-0325	Total/NA	Ground Water	3005A	
310-303240-10 MSD	MW16-GW-0325	Total/NA	Ground Water	3005A	
310-303240-11 DU	MW17-GW-0325	Total/NA	Ground Water	3005A	

Analysis Batch: 450798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303240-1	MW02-GW-0325	Total/NA	Ground Water	6020B	450616

Eurofins Cedar Falls

QC Association Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Metals (Continued)

Analysis Batch: 450798 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303240-2	MW04-GW-0325	Total/NA	Ground Water	6020B	450616
310-303240-3	MW08-GW-0325	Total/NA	Water	6020B	450616
310-303240-4	MW10-GW-0325	Total/NA	Ground Water	6020B	450616
310-303240-5	MW11-GW-0325	Total/NA	Ground Water	6020B	450616
310-303240-6	MW12-GW-0325	Total/NA	Water	6020B	450616
310-303240-7	MW13-GW-0325	Total/NA	Ground Water	6020B	450616
310-303240-8	MW14-GW-0325	Total/NA	Water	6020B	450616
310-303240-9	MW15-GW-0325	Total/NA	Water	6020B	450616
310-303240-10	MW16-GW-0325	Total/NA	Ground Water	6020B	450616
310-303240-11	MW17-GW-0325	Total/NA	Ground Water	6020B	450616
310-303240-12	MW18-GW-0325	Total/NA	Ground Water	6020B	450616
310-303240-13	MW19-GW-0325	Total/NA	Ground Water	6020B	450616
310-303240-14	MW20-GW-0325	Total/NA	Ground Water	6020B	450616
310-303240-15	MW21-GW-0325	Total/NA	Ground Water	6020B	450616
310-303240-16	DP01-GW-0325	Total/NA	Water	6020B	450616
MB 310-450616/1-A	Method Blank	Total/NA	Water	6020B	450616
LCS 310-450616/2-A	Lab Control Sample	Total/NA	Water	6020B	450616
310-303240-10 MS	MW16-GW-0325	Total/NA	Ground Water	6020B	450616
310-303240-10 MSD	MW16-GW-0325	Total/NA	Ground Water	6020B	450616
310-303240-11 DU	MW17-GW-0325	Total/NA	Ground Water	6020B	450616

Prep Batch: 450861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303240-1	MW02-GW-0325	Total/NA	Ground Water	7470A	
310-303240-2	MW04-GW-0325	Total/NA	Ground Water	7470A	
310-303240-3	MW08-GW-0325	Total/NA	Water	7470A	
310-303240-4	MW10-GW-0325	Total/NA	Ground Water	7470A	
310-303240-5	MW11-GW-0325	Total/NA	Ground Water	7470A	
310-303240-6	MW12-GW-0325	Total/NA	Water	7470A	
310-303240-7	MW13-GW-0325	Total/NA	Ground Water	7470A	
310-303240-8	MW14-GW-0325	Total/NA	Water	7470A	
310-303240-9	MW15-GW-0325	Total/NA	Water	7470A	
310-303240-10	MW16-GW-0325	Total/NA	Ground Water	7470A	
310-303240-11	MW17-GW-0325	Total/NA	Ground Water	7470A	
310-303240-12	MW18-GW-0325	Total/NA	Ground Water	7470A	
310-303240-13	MW19-GW-0325	Total/NA	Ground Water	7470A	
310-303240-14	MW20-GW-0325	Total/NA	Ground Water	7470A	
310-303240-15	MW21-GW-0325	Total/NA	Ground Water	7470A	
310-303240-16	DP01-GW-0325	Total/NA	Water	7470A	
MB 310-450861/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-450861/2-A	Lab Control Sample	Total/NA	Water	7470A	
310-303240-10 MS	MW16-GW-0325	Total/NA	Ground Water	7470A	
310-303240-10 MSD	MW16-GW-0325	Total/NA	Ground Water	7470A	

Analysis Batch: 450918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303240-10	MW16-GW-0325	Total/NA	Ground Water	6020B	450616
310-303240-11	MW17-GW-0325	Total/NA	Ground Water	6020B	450616
310-303240-12	MW18-GW-0325	Total/NA	Ground Water	6020B	450616
MB 310-450616/1-A	Method Blank	Total/NA	Water	6020B	450616
LCS 310-450616/2-A	Lab Control Sample	Total/NA	Water	6020B	450616

Eurofins Cedar Falls

QC Association Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Metals (Continued)

Analysis Batch: 450918 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303240-10 MS	MW16-GW-0325	Total/NA	Ground Water	6020B	450616
310-303240-10 MSD	MW16-GW-0325	Total/NA	Ground Water	6020B	450616
310-303240-11 DU	MW17-GW-0325	Total/NA	Ground Water	6020B	450616

Analysis Batch: 451014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303240-1	MW02-GW-0325	Total/NA	Ground Water	7470A	450861
310-303240-2	MW04-GW-0325	Total/NA	Ground Water	7470A	450861
310-303240-3	MW08-GW-0325	Total/NA	Water	7470A	450861
310-303240-4	MW10-GW-0325	Total/NA	Ground Water	7470A	450861
310-303240-5	MW11-GW-0325	Total/NA	Ground Water	7470A	450861
310-303240-6	MW12-GW-0325	Total/NA	Water	7470A	450861
310-303240-7	MW13-GW-0325	Total/NA	Ground Water	7470A	450861
310-303240-8	MW14-GW-0325	Total/NA	Water	7470A	450861
310-303240-9	MW15-GW-0325	Total/NA	Water	7470A	450861
310-303240-10	MW16-GW-0325	Total/NA	Ground Water	7470A	450861
310-303240-11	MW17-GW-0325	Total/NA	Ground Water	7470A	450861
310-303240-12	MW18-GW-0325	Total/NA	Ground Water	7470A	450861
310-303240-13	MW19-GW-0325	Total/NA	Ground Water	7470A	450861
310-303240-14	MW20-GW-0325	Total/NA	Ground Water	7470A	450861
310-303240-15	MW21-GW-0325	Total/NA	Ground Water	7470A	450861
310-303240-16	DP01-GW-0325	Total/NA	Water	7470A	450861
MB 310-450861/1-A	Method Blank	Total/NA	Water	7470A	450861
LCS 310-450861/2-A	Lab Control Sample	Total/NA	Water	7470A	450861
310-303240-10 MS	MW16-GW-0325	Total/NA	Ground Water	7470A	450861
310-303240-10 MSD	MW16-GW-0325	Total/NA	Ground Water	7470A	450861

General Chemistry

Analysis Batch: 450593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303240-1	MW02-GW-0325	Total/NA	Ground Water	SM 4500 H+ B	
310-303240-2	MW04-GW-0325	Total/NA	Ground Water	SM 4500 H+ B	
310-303240-3	MW08-GW-0325	Total/NA	Water	SM 4500 H+ B	
310-303240-4	MW10-GW-0325	Total/NA	Ground Water	SM 4500 H+ B	
310-303240-5	MW11-GW-0325	Total/NA	Ground Water	SM 4500 H+ B	
310-303240-6	MW12-GW-0325	Total/NA	Water	SM 4500 H+ B	
310-303240-7	MW13-GW-0325	Total/NA	Ground Water	SM 4500 H+ B	
310-303240-8	MW14-GW-0325	Total/NA	Water	SM 4500 H+ B	
310-303240-9	MW15-GW-0325	Total/NA	Water	SM 4500 H+ B	
310-303240-10	MW16-GW-0325	Total/NA	Ground Water	SM 4500 H+ B	
310-303240-11	MW17-GW-0325	Total/NA	Ground Water	SM 4500 H+ B	
310-303240-12	MW18-GW-0325	Total/NA	Ground Water	SM 4500 H+ B	
310-303240-13	MW19-GW-0325	Total/NA	Ground Water	SM 4500 H+ B	
310-303240-14	MW20-GW-0325	Total/NA	Ground Water	SM 4500 H+ B	
310-303240-15	MW21-GW-0325	Total/NA	Ground Water	SM 4500 H+ B	
310-303240-16	DP01-GW-0325	Total/NA	Water	SM 4500 H+ B	
LCS 310-450593/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
310-303240-10 DU	MW16-GW-0325	Total/NA	Ground Water	SM 4500 H+ B	

Eurofins Cedar Falls

QC Association Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

General Chemistry

Analysis Batch: 450622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303240-1	MW02-GW-0325	Total/NA	Ground Water	SM 2540C	
310-303240-2	MW04-GW-0325	Total/NA	Ground Water	SM 2540C	
310-303240-3	MW08-GW-0325	Total/NA	Water	SM 2540C	
310-303240-4	MW10-GW-0325	Total/NA	Ground Water	SM 2540C	
310-303240-8	MW14-GW-0325	Total/NA	Water	SM 2540C	
310-303240-9	MW15-GW-0325	Total/NA	Water	SM 2540C	
310-303240-10	MW16-GW-0325	Total/NA	Ground Water	SM 2540C	
310-303240-11	MW17-GW-0325	Total/NA	Ground Water	SM 2540C	
310-303240-12	MW18-GW-0325	Total/NA	Ground Water	SM 2540C	
310-303240-13	MW19-GW-0325	Total/NA	Ground Water	SM 2540C	
310-303240-14	MW20-GW-0325	Total/NA	Ground Water	SM 2540C	
310-303240-15	MW21-GW-0325	Total/NA	Ground Water	SM 2540C	
310-303240-16	DP01-GW-0325	Total/NA	Water	SM 2540C	
MB 310-450622/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-450622/2	Lab Control Sample	Total/NA	Water	SM 2540C	
310-303240-4 DU	MW10-GW-0325	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 450628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303240-5	MW11-GW-0325	Total/NA	Ground Water	SM 2540C	
310-303240-6	MW12-GW-0325	Total/NA	Water	SM 2540C	
310-303240-7	MW13-GW-0325	Total/NA	Ground Water	SM 2540C	
MB 310-450628/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-450628/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Rad

Prep Batch: 711580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303240-1	MW02-GW-0325	Total/NA	Ground Water	PrecSep-21	
310-303240-2	MW04-GW-0325	Total/NA	Ground Water	PrecSep-21	
310-303240-3	MW08-GW-0325	Total/NA	Water	PrecSep-21	
310-303240-4	MW10-GW-0325	Total/NA	Ground Water	PrecSep-21	
310-303240-5	MW11-GW-0325	Total/NA	Ground Water	PrecSep-21	
310-303240-6	MW12-GW-0325	Total/NA	Water	PrecSep-21	
310-303240-7	MW13-GW-0325	Total/NA	Ground Water	PrecSep-21	
310-303240-8	MW14-GW-0325	Total/NA	Water	PrecSep-21	
310-303240-9	MW15-GW-0325	Total/NA	Water	PrecSep-21	
310-303240-10	MW16-GW-0325	Total/NA	Ground Water	PrecSep-21	
310-303240-11	MW17-GW-0325	Total/NA	Ground Water	PrecSep-21	
MB 160-711580/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-711580/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
310-303240-10 MS	MW16-GW-0325	Total/NA	Ground Water	PrecSep-21	
310-303240-10 MSD	MW16-GW-0325	Total/NA	Ground Water	PrecSep-21	

Prep Batch: 711585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303240-1	MW02-GW-0325	Total/NA	Ground Water	PrecSep_0	
310-303240-2	MW04-GW-0325	Total/NA	Ground Water	PrecSep_0	
310-303240-3	MW08-GW-0325	Total/NA	Water	PrecSep_0	
310-303240-4	MW10-GW-0325	Total/NA	Ground Water	PrecSep_0	

Eurofins Cedar Falls

QC Association Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Rad (Continued)

Prep Batch: 711585 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303240-5	MW11-GW-0325	Total/NA	Ground Water	PrecSep_0	
310-303240-6	MW12-GW-0325	Total/NA	Water	PrecSep_0	
310-303240-7	MW13-GW-0325	Total/NA	Ground Water	PrecSep_0	
310-303240-8	MW14-GW-0325	Total/NA	Water	PrecSep_0	
310-303240-9	MW15-GW-0325	Total/NA	Water	PrecSep_0	
310-303240-10	MW16-GW-0325	Total/NA	Ground Water	PrecSep_0	
310-303240-11	MW17-GW-0325	Total/NA	Ground Water	PrecSep_0	
MB 160-711585/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-711585/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
310-303240-10 MS	MW16-GW-0325	Total/NA	Ground Water	PrecSep_0	
310-303240-10 MSD	MW16-GW-0325	Total/NA	Ground Water	PrecSep_0	

Prep Batch: 711588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303240-12	MW18-GW-0325	Total/NA	Ground Water	PrecSep-21	
310-303240-13	MW19-GW-0325	Total/NA	Ground Water	PrecSep-21	
310-303240-14	MW20-GW-0325	Total/NA	Ground Water	PrecSep-21	
310-303240-15	MW21-GW-0325	Total/NA	Ground Water	PrecSep-21	
310-303240-16	DP01-GW-0325	Total/NA	Water	PrecSep-21	
MB 160-711588/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-711588/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 711592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303240-12	MW18-GW-0325	Total/NA	Ground Water	PrecSep_0	
310-303240-13	MW19-GW-0325	Total/NA	Ground Water	PrecSep_0	
310-303240-14	MW20-GW-0325	Total/NA	Ground Water	PrecSep_0	
310-303240-15	MW21-GW-0325	Total/NA	Ground Water	PrecSep_0	
310-303240-16	DP01-GW-0325	Total/NA	Water	PrecSep_0	
MB 160-711592/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-711592/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW02-GW-0325

Date Collected: 03/31/25 17:50

Date Received: 04/02/25 15:40

Lab Sample ID: 310-303240-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 14:38
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 19:11
Total/NA	Prep	7470A			450861	F5MW	EET CF	04/08/25 10:00
Total/NA	Analysis	7470A		1	451014	F5MW	EET CF	04/08/25 14:59
Total/NA	Analysis	SM 2540C		1	450622	XJ7V	EET CF	04/03/25 14:37
Total/NA	Analysis	SM 4500 H+ B		1	450593	ZJX4	EET CF	04/03/25 01:38
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	9315		1	716198	SWS	EET SL	05/06/25 16:51
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	9320		1	716200	SWS	EET SL	05/06/25 10:20
Total/NA	Analysis	Ra226_Ra228		1	716234	EMH	EET SL	05/06/25 19:33

Client Sample ID: MW04-GW-0325

Date Collected: 03/31/25 16:00

Date Received: 04/02/25 15:40

Lab Sample ID: 310-303240-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 14:51
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 19:13
Total/NA	Prep	7470A			450861	F5MW	EET CF	04/08/25 10:00
Total/NA	Analysis	7470A		1	451014	F5MW	EET CF	04/08/25 15:01
Total/NA	Analysis	SM 2540C		1	450622	XJ7V	EET CF	04/03/25 14:37
Total/NA	Analysis	SM 4500 H+ B		1	450593	ZJX4	EET CF	04/03/25 01:26
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	9315		1	716198	SWS	EET SL	05/06/25 16:52
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	9320		1	716200	SWS	EET SL	05/06/25 10:20
Total/NA	Analysis	Ra226_Ra228		1	716234	EMH	EET SL	05/06/25 19:33

Client Sample ID: MW08-GW-0325

Date Collected: 04/01/25 09:40

Date Received: 04/02/25 15:40

Lab Sample ID: 310-303240-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 15:05
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 19:16
Total/NA	Prep	7470A			450861	F5MW	EET CF	04/08/25 10:00
Total/NA	Analysis	7470A		1	451014	F5MW	EET CF	04/08/25 15:03
Total/NA	Analysis	SM 2540C		1	450622	XJ7V	EET CF	04/03/25 14:37
Total/NA	Analysis	SM 4500 H+ B		1	450593	ZJX4	EET CF	04/03/25 00:24

Eurofins Cedar Falls

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW08-GW-0325

Lab Sample ID: 310-303240-3

Date Collected: 04/01/25 09:40

Matrix: Water

Date Received: 04/02/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	9315		1	716201	SWS	EET SL	05/06/25 17:04
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	9320		1	716200	SWS	EET SL	05/06/25 10:20
Total/NA	Analysis	Ra226_Ra228		1	716234	EMH	EET SL	05/06/25 19:33

Client Sample ID: MW10-GW-0325

Lab Sample ID: 310-303240-4

Date Collected: 03/31/25 19:00

Matrix: Ground Water

Date Received: 04/02/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 15:18
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 19:18
Total/NA	Prep	7470A			450861	F5MW	EET CF	04/08/25 10:00
Total/NA	Analysis	7470A		1	451014	F5MW	EET CF	04/08/25 15:05
Total/NA	Analysis	SM 2540C		1	450622	XJ7V	EET CF	04/03/25 14:37
Total/NA	Analysis	SM 4500 H+ B		1	450593	ZJX4	EET CF	04/03/25 01:13
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	9315		1	716201	SWS	EET SL	05/06/25 17:04
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	9320		1	716200	SWS	EET SL	05/06/25 10:20
Total/NA	Analysis	Ra226_Ra228		1	716234	EMH	EET SL	05/06/25 19:33

Client Sample ID: MW11-GW-0325

Lab Sample ID: 310-303240-5

Date Collected: 04/01/25 12:05

Matrix: Ground Water

Date Received: 04/02/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 15:31
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 19:20
Total/NA	Prep	7470A			450861	F5MW	EET CF	04/08/25 10:00
Total/NA	Analysis	7470A		1	451014	F5MW	EET CF	04/08/25 15:07
Total/NA	Analysis	SM 2540C		1	450628	XJ7V	EET CF	04/03/25 15:30
Total/NA	Analysis	SM 4500 H+ B		1	450593	ZJX4	EET CF	04/03/25 01:30
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	9315		1	716201	SWS	EET SL	05/06/25 17:04
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	9320		1	716200	SWS	EET SL	05/06/25 10:20
Total/NA	Analysis	Ra226_Ra228		1	716234	EMH	EET SL	05/06/25 19:33

Eurofins Cedar Falls

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW12-GW-0325

Lab Sample ID: 310-303240-6

Date Collected: 04/01/25 11:30

Matrix: Water

Date Received: 04/02/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 15:44
Total/NA	Analysis	9056A		50	451132	WZC8	EET CF	04/09/25 12:20
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 19:23
Total/NA	Prep	7470A			450861	F5MW	EET CF	04/08/25 10:00
Total/NA	Analysis	7470A		1	451014	F5MW	EET CF	04/08/25 15:09
Total/NA	Analysis	SM 2540C		1	450628	XJ7V	EET CF	04/03/25 15:30
Total/NA	Analysis	SM 4500 H+ B		1	450593	ZJX4	EET CF	04/03/25 00:45
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	9315		1	716201	SWS	EET SL	05/06/25 17:04
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	9320		1	716200	SWS	EET SL	05/06/25 10:20
Total/NA	Analysis	Ra226_Ra228		1	716234	EMH	EET SL	05/06/25 19:33

Client Sample ID: MW13-GW-0325

Lab Sample ID: 310-303240-7

Date Collected: 04/01/25 10:35

Matrix: Ground Water

Date Received: 04/02/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 15:57
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 19:25
Total/NA	Prep	7470A			450861	F5MW	EET CF	04/08/25 10:00
Total/NA	Analysis	7470A		1	451014	F5MW	EET CF	04/08/25 15:12
Total/NA	Analysis	SM 2540C		1	450628	XJ7V	EET CF	04/03/25 15:30
Total/NA	Analysis	SM 4500 H+ B		1	450593	ZJX4	EET CF	04/03/25 00:41
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	9315		1	716201	SWS	EET SL	05/06/25 17:04
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	9320		1	716200	SWS	EET SL	05/06/25 10:20
Total/NA	Analysis	Ra226_Ra228		1	716234	EMH	EET SL	05/06/25 19:33

Client Sample ID: MW14-GW-0325

Lab Sample ID: 310-303240-8

Date Collected: 03/31/25 14:05

Matrix: Water

Date Received: 04/02/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 16:10
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 19:28
Total/NA	Prep	7470A			450861	F5MW	EET CF	04/08/25 10:00
Total/NA	Analysis	7470A		1	451014	F5MW	EET CF	04/08/25 15:14
Total/NA	Analysis	SM 2540C		1	450622	XJ7V	EET CF	04/03/25 14:37
Total/NA	Analysis	SM 4500 H+ B		1	450593	ZJX4	EET CF	04/03/25 00:28

Eurofins Cedar Falls

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW14-GW-0325

Lab Sample ID: 310-303240-8

Date Collected: 03/31/25 14:05

Matrix: Water

Date Received: 04/02/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	9315		1	716201	SWS	EET SL	05/06/25 17:04
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	9320		1	716200	SWS	EET SL	05/06/25 10:21
Total/NA	Analysis	Ra226_Ra228		1	716234	EMH	EET SL	05/06/25 19:33

Client Sample ID: MW15-GW-0325

Lab Sample ID: 310-303240-9

Date Collected: 03/31/25 14:40

Matrix: Water

Date Received: 04/02/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 16:49
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 19:30
Total/NA	Prep	7470A			450861	F5MW	EET CF	04/08/25 10:00
Total/NA	Analysis	7470A		1	451014	F5MW	EET CF	04/08/25 15:20
Total/NA	Analysis	SM 2540C		1	450622	XJ7V	EET CF	04/03/25 14:37
Total/NA	Analysis	SM 4500 H+ B		1	450593	ZJX4	EET CF	04/03/25 01:00
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	9315		1	716201	SWS	EET SL	05/06/25 17:04
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	9320		1	716200	SWS	EET SL	05/06/25 10:21
Total/NA	Analysis	Ra226_Ra228		1	716234	EMH	EET SL	05/06/25 19:33

Client Sample ID: MW16-GW-0325

Lab Sample ID: 310-303240-10

Date Collected: 03/31/25 18:50

Matrix: Ground Water

Date Received: 04/02/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 17:02
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 18:54
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450918	NFT2	EET CF	04/07/25 13:40
Total/NA	Prep	7470A			450861	F5MW	EET CF	04/08/25 10:00
Total/NA	Analysis	7470A		1	451014	F5MW	EET CF	04/08/25 14:40
Total/NA	Analysis	SM 2540C		1	450622	XJ7V	EET CF	04/03/25 14:37
Total/NA	Analysis	SM 4500 H+ B		1	450593	ZJX4	EET CF	04/03/25 01:05
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	9315		1	716201	SWS	EET SL	05/06/25 17:04
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	9320		1	716200	SWS	EET SL	05/06/25 10:21
Total/NA	Analysis	Ra226_Ra228		1	716234	EMH	EET SL	05/06/25 19:33

Eurofins Cedar Falls

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW17-GW-0325

Lab Sample ID: 310-303240-11

Date Collected: 03/31/25 15:00

Matrix: Ground Water

Date Received: 04/02/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 17:41
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 19:32
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450918	NFT2	EET CF	04/07/25 13:47
Total/NA	Prep	7470A			450861	F5MW	EET CF	04/08/25 10:00
Total/NA	Analysis	7470A		1	451014	F5MW	EET CF	04/08/25 15:22
Total/NA	Analysis	SM 2540C		1	450622	XJ7V	EET CF	04/03/25 14:37
Total/NA	Analysis	SM 4500 H+ B		1	450593	ZJX4	EET CF	04/03/25 01:21
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	9315		1	716200	SWS	EET SL	05/06/25 16:58
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	9320		1	716200	SWS	EET SL	05/06/25 10:21
Total/NA	Analysis	Ra226_Ra228		1	716234	EMH	EET SL	05/06/25 19:33

Client Sample ID: MW18-GW-0325

Lab Sample ID: 310-303240-12

Date Collected: 03/31/25 16:35

Matrix: Ground Water

Date Received: 04/02/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 17:55
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 19:44
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450918	NFT2	EET CF	04/07/25 13:52
Total/NA	Prep	7470A			450861	F5MW	EET CF	04/08/25 10:00
Total/NA	Analysis	7470A		1	451014	F5MW	EET CF	04/08/25 15:24
Total/NA	Analysis	SM 2540C		1	450622	XJ7V	EET CF	04/03/25 14:37
Total/NA	Analysis	SM 4500 H+ B		1	450593	ZJX4	EET CF	04/03/25 00:49
Total/NA	Prep	PrecSep-21			711588	OGC	EET SL	04/09/25 07:36
Total/NA	Analysis	9315		1	716104	CMM	EET SL	05/05/25 17:02
Total/NA	Prep	PrecSep_0			711592	OGC	EET SL	04/09/25 07:38
Total/NA	Analysis	9320		1	716135	CMM	EET SL	05/05/25 12:24
Total/NA	Analysis	Ra226_Ra228		1	716234	EMH	EET SL	05/06/25 19:33

Client Sample ID: MW19-GW-0325

Lab Sample ID: 310-303240-13

Date Collected: 03/31/25 13:25

Matrix: Ground Water

Date Received: 04/02/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 18:08
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 19:47

Eurofins Cedar Falls

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW19-GW-0325

Lab Sample ID: 310-303240-13

Date Collected: 03/31/25 13:25

Matrix: Ground Water

Date Received: 04/02/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			450861	F5MW	EET CF	04/08/25 10:00
Total/NA	Analysis	7470A		1	451014	F5MW	EET CF	04/08/25 15:26
Total/NA	Analysis	SM 2540C		1	450622	XJ7V	EET CF	04/03/25 14:37
Total/NA	Analysis	SM 4500 H+ B		1	450593	ZJX4	EET CF	04/03/25 01:17
Total/NA	Prep	PrecSep-21			711588	OGC	EET SL	04/09/25 07:36
Total/NA	Analysis	9315		1	716104	CMM	EET SL	05/05/25 17:02
Total/NA	Prep	PrecSep_0			711592	OGC	EET SL	04/09/25 07:38
Total/NA	Analysis	9320		1	716135	CMM	EET SL	05/05/25 12:24
Total/NA	Analysis	Ra226_Ra228		1	716234	EMH	EET SL	05/06/25 19:33

Client Sample ID: MW20-GW-0325

Lab Sample ID: 310-303240-14

Date Collected: 03/31/25 12:55

Matrix: Ground Water

Date Received: 04/02/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 18:21
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 19:49
Total/NA	Prep	7470A			450861	F5MW	EET CF	04/08/25 10:00
Total/NA	Analysis	7470A		1	451014	F5MW	EET CF	04/08/25 15:29
Total/NA	Analysis	SM 2540C		1	450622	XJ7V	EET CF	04/03/25 14:37
Total/NA	Analysis	SM 4500 H+ B		1	450593	ZJX4	EET CF	04/03/25 00:32
Total/NA	Prep	PrecSep-21			711588	OGC	EET SL	04/09/25 07:36
Total/NA	Analysis	9315		1	716104	CMM	EET SL	05/05/25 17:03
Total/NA	Prep	PrecSep_0			711592	OGC	EET SL	04/09/25 07:38
Total/NA	Analysis	9320		1	716135	CMM	EET SL	05/05/25 12:24
Total/NA	Analysis	Ra226_Ra228		1	716234	EMH	EET SL	05/06/25 19:33

Client Sample ID: MW21-GW-0325

Lab Sample ID: 310-303240-15

Date Collected: 03/31/25 18:15

Matrix: Ground Water

Date Received: 04/02/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 18:34
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 19:52
Total/NA	Prep	7470A			450861	F5MW	EET CF	04/08/25 10:00
Total/NA	Analysis	7470A		1	451014	F5MW	EET CF	04/08/25 15:31
Total/NA	Analysis	SM 2540C		1	450622	XJ7V	EET CF	04/03/25 14:37
Total/NA	Analysis	SM 4500 H+ B		1	450593	ZJX4	EET CF	04/03/25 00:37
Total/NA	Prep	PrecSep-21			711588	OGC	EET SL	04/09/25 07:36
Total/NA	Analysis	9315		1	716104	CMM	EET SL	05/05/25 17:03
Total/NA	Prep	PrecSep_0			711592	OGC	EET SL	04/09/25 07:38
Total/NA	Analysis	9320		1	716135	CMM	EET SL	05/05/25 12:24

Eurofins Cedar Falls

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Client Sample ID: MW21-GW-0325

Date Collected: 03/31/25 18:15

Date Received: 04/02/25 15:40

Lab Sample ID: 310-303240-15

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Ra226_Ra228		1	716234	EMH	EET SL	05/06/25 19:33

Client Sample ID: DP01-GW-0325

Date Collected: 03/31/25 00:00

Date Received: 04/02/25 15:40

Lab Sample ID: 310-303240-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451132	WZC8	EET CF	04/08/25 18:47
Total/NA	Prep	3005A			450616	QTZ5	EET CF	04/04/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 19:54
Total/NA	Prep	7470A			450861	F5MW	EET CF	04/08/25 10:00
Total/NA	Analysis	7470A		1	451014	F5MW	EET CF	04/08/25 15:33
Total/NA	Analysis	SM 2540C		1	450622	XJ7V	EET CF	04/03/25 14:37
Total/NA	Analysis	SM 4500 H+ B		1	450593	ZJX4	EET CF	04/03/25 01:34
Total/NA	Prep	PrecSep-21			711588	OGC	EET SL	04/09/25 07:36
Total/NA	Analysis	9315		1	716135	CMM	EET SL	05/05/25 17:14
Total/NA	Prep	PrecSep_0			711592	OGC	EET SL	04/09/25 07:38
Total/NA	Analysis	9320		1	716135	CMM	EET SL	05/05/25 12:24
Total/NA	Analysis	Ra226_Ra228		1	716234	EMH	EET SL	05/06/25 19:33

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020B	3005A	Ground Water	Lithium
6020B	3005A	Water	Lithium

Laboratory: Eurofins St. Louis

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	373	12-01-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9315	PrecSep-21	Ground Water	Radium-226
9315	PrecSep-21	Water	Radium-226
9320	PrecSep_0	Ground Water	Radium-228
9320	PrecSep_0	Water	Radium-228
Ra226_Ra228		Ground Water	Combined Radium 226 + 228
Ra226_Ra228		Water	Combined Radium 226 + 228

Method Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CF
SM 4500 H+ B	pH	SM	EET CF
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
3005A	Preparation, Total Metals	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

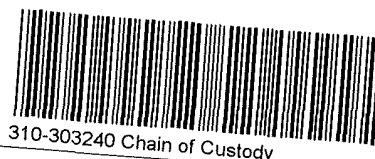
Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Environment Testing
America



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>GHD</u>			
City/State:	CITY <u>Des Moines</u>	STATE <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>4-2-25</u>	TIME <u>1540</u>	Received By: <u>PH</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID:
Multiple Coolers?		☒ Yes ☐ No	If yes: Cooler # <u>1</u> of <u>4</u>
Cooler Custody Seals Present?		☐ Yes ☒ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☐ Yes ☒ No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>3.1</u>		Corrected Temp (°C): <u>3.1</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			



Environment Testing
America

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Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>GHD</u>			
City/State:	CITY <u>Des Moines</u>	STATE <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>4-2-25</u>	TIME <u>1540</u>	Received By: <u>PH</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes: Cooler ID: _____			
Multiple Coolers? ☒ Yes ☐ No If yes: Cooler # <u>2</u> of <u>4</u>			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes: Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes: Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☐ Yes ☒ No If yes: Which VOA samples are in cooler? ↓			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>5.7</u>		Corrected Temp (°C): <u>5.7</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE. If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			



Environment Testing
America

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Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>GHD</u>			
City/State:	CITY <u>Des Moines</u>	STATE <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>4-2-25</u>	TIME <u>1540</u>	Received By: <u>PH</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes: Cooler ID: _____			
Multiple Coolers? ☒ Yes ☐ No If yes: Cooler # <u>3</u> of <u>4</u>			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes: Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes: Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☐ Yes ☒ No If yes: Which VOA samples are in cooler? ↓			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1 <u>Pk 250</u>	CONTAINER 2	
Uncorrected Temp (°C):	<u>3.9</u>		
Corrected Temp (°C):	<u>7.9</u>		
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			



Environment Testing
America

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Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>GHD</u>			
City/State:	CITY <u>Des Moines</u>	STATE <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>4-2-25</u>	TIME <u>1540</u>	Received By: <u>PH</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID:
Multiple Coolers?		☒ Yes ☐ No	If yes: Cooler # <u>4</u> of <u>4</u>
Cooler Custody Seals Present?		☐ Yes ☒ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☐ Yes ☒ No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
• Sample Container Temperature			
Container(s) used.	CONTAINER 1 <u>PLASTIC</u>	CONTAINER 2	
Uncorrected Temp (°C):	<u>4.9</u>		
Corrected Temp (°C):	<u>4.9</u>		
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Chain of Custody Record

214 DSM



Eurofins Cedar Falls

Client Information		Supplier		Lab P/N		Carrier Tracking No(s)		COC No:				
Client Contact: Kevin Armstrong		Phone: 712-398-0103		Zach Bindert E-Mail: Zach.Bindert@eurofins.com		State of Origin: Iowa		Page: Page 1 of 2				
Company: GHD Services Inc.		PWSID: 112-398-0103						Job #:				
Address: 11228 Aurora Avenue		Due Date Requested:		Analysis Requested		Total Number of Containers		Preservation Codes:				
City: Des Moines		TAT Requested (days): Standard						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:				
State, Zip: IA, 50322-7905		Compliance Project: Δ Yes Δ No						M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)				
Phone: 515-414-3935(Tel)		PO #: 340017051										
Email: Kevin.Armstrong@ghd.com		WO #: 31017262										
Project Name: MEC Neal South - Semiannual CCR		Project #: 12576485-004 01										
Site: Neal South CCR Monofill		SSOW#: 12576485-02										
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Performance MS/MSD (Yes or No)	9315_Ra226 - Standard Target List	9320_Ra228 - Standard Target List	956A_ORGFM_28D - (MOD) Chloride, Fluoride, Sulfate	6020B_7470A - CCR Metals list	TDS 2540C_Calcd, SM4500_H+
MW02-GW-0325	3/31/25	1750	G	Water		N	N	X	X	X	X	X
MW04-GW-0325	3/31/25	1600	G	Water		N	N	X	X	X	X	X
MW06-GW-0325	4/1/25	0940	G	Water		N	N	X	X	X	X	X
MW10-GW-0325	3/31/25	1900	G	Water		N	N	X	X	X	X	X
MW11-GW-0325	4/1/25	1205	G	Water		N	N	X	X	X	X	X
MW12-GW-0325	4/1/25	1130	G	Water		N	N	X	X	X	X	X
MW13-GW-0325	4/1/25	1035	G	Water		N	N	X	X	X	X	X
MW14-GW-0325	3/31/25	1409	G	Water		N	N	X	X	X	X	X
MW15-GW-0325	3/31/25	1440	G	Water		N	N	X	X	X	X	X
MW16-GW-0325	3/31/25	1850	G	Water		N	N	X	X	X	X	X
MW17-GW-0325	3/31/25	1500	G	Water		N	N	X	X	X	X	X
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested. I, II, III, IV, Other (specify)												
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months												
Special Instructions/QC Requirements. All Appendix III and Appendix IV constituents. Database Facility Code 1114654-GD-MidAmer												
Empty Kit Relinquished by:												
Relinquished by: THAO LARSON Date: 4/2/25 1235 Company: GHD												
Relinquished by: Date: Company:												
Relinquished by: Date: Company:												
Custody Seals Intact: Δ Yes Δ No Cooler Temperature(s) °C and Other Remarks:												

[illegible]

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 310-303240-1

Login Number: 303240

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Bunker, Xavier M

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins Cedar Falls

Tracer/Carrier Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-303240-1

Method: 9315 - Radium-226 (GFPC)

Matrix: Ground Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba					
Lab Sample ID	Client Sample ID	(30-110)					
310-303240-1	MW02-GW-0325	92.2					
310-303240-2	MW04-GW-0325	87.9					
310-303240-4	MW10-GW-0325	76.5					
310-303240-5	MW11-GW-0325	87.4					
310-303240-7	MW13-GW-0325	90.7					
310-303240-10	MW16-GW-0325	88.1					
310-303240-10 MS	MW16-GW-0325	93.7					
310-303240-10 MSD	MW16-GW-0325	91.2					
310-303240-11	MW17-GW-0325	88.6					
310-303240-12	MW18-GW-0325	90.7					
310-303240-13	MW19-GW-0325	59.1					
310-303240-14	MW20-GW-0325	80.3					
310-303240-15	MW21-GW-0325	93.9					
Tracer/Carrier Legend							
Ba = Barium							

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba					
Lab Sample ID	Client Sample ID	(30-110)					
310-303240-3	MW08-GW-0325	91.4					
310-303240-6	MW12-GW-0325	92.9					
310-303240-8	MW14-GW-0325	90.4					
310-303240-9	MW15-GW-0325	88.1					
310-303240-16	DP01-GW-0325	99.5					
LCS 160-711580/2-A	Lab Control Sample	93.2					
LCS 160-711588/2-A	Lab Control Sample	91.9					
MB 160-711580/1-A	Method Blank	89.9					
MB 160-711588/1-A	Method Blank	85.6					
Tracer/Carrier Legend							
Ba = Barium							

Method: 9320 - Radium-228 (GFPC)

Matrix: Ground Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba	Y				
Lab Sample ID	Client Sample ID	(30-110)	(30-110)				
310-303240-1	MW02-GW-0325	92.2	82.6				
310-303240-2	MW04-GW-0325	87.9	78.5				
310-303240-4	MW10-GW-0325	76.5	73.3				
310-303240-5	MW11-GW-0325	87.4	72.5				
310-303240-7	MW13-GW-0325	90.7	78.9				
310-303240-10	MW16-GW-0325	88.1	77.8				
310-303240-10 MS	MW16-GW-0325	93.7	78.1				
310-303240-10 MSD	MW16-GW-0325	91.2	77.0				
310-303240-11	MW17-GW-0325	88.6	82.2				

Eurofins Cedar Falls

Tracer/Carrier Summary

Client: GHD Services Inc.

Job ID: 310-303240-1

Project/Site: MEC Neal South - Semiannual CCR

Method: 9320 - Radium-228 (GFPC) (Continued)

Matrix: Ground Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
310-303240-12	MW18-GW-0325	90.7	77.4
310-303240-13	MW19-GW-0325	59.1	82.6
310-303240-14	MW20-GW-0325	80.3	78.9
310-303240-15	MW21-GW-0325	93.9	82.2
Tracer/Carrier Legend			
Ba = Barium			
Y = Y Carrier			

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
310-303240-3	MW08-GW-0325	91.4	83.4
310-303240-6	MW12-GW-0325	92.9	77.0
310-303240-8	MW14-GW-0325	90.4	82.6
310-303240-9	MW15-GW-0325	88.1	80.4
310-303240-16	DP01-GW-0325	99.5	86.0
LCS 160-711585/2-A	Lab Control Sample	93.2	84.1
LCS 160-711592/2-A	Lab Control Sample	91.9	83.4
MB 160-711585/1-A	Method Blank	89.9	80.4
MB 160-711592/1-A	Method Blank	85.6	78.9
Tracer/Carrier Legend			
Ba = Barium			
Y = Y Carrier			



ANALYTICAL REPORT

PREPARED FOR

Attn: Kevin Armstrong
GHD Services Inc.
11228 Aurora Avenue
Des Moines, Iowa 50322-7905

Generated 10/14/2025 8:48:00 AM

JOB DESCRIPTION

MEC Neal South - Semiannual CCR
12576485-004.01

JOB NUMBER

310-315055-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Authorization



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Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Sample Summary	6
Detection Summary	7
Client Sample Results	11
Definitions	43
QC Sample Results	44
QC Association	54
Chronicle	60
Certification Summary	67
Method Summary	68
Chain of Custody	69
Receipt Checklists	76
Tracer Carrier Summary	77



Case Narrative

Client: GHD Services Inc.
Project: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1

Job ID: 310-315055-1

Eurofins Cedar Falls

Job Narrative 310-315055-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/5/2025 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.8°C, 2.3°C, 2.4°C, 2.8°C and 3.3°C.

HPLC/IC

Method 9056A_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: MW02-GW-0925 (310-315055-1), MW04-GW-0925 (310-315055-2), MW08-GW-0925 (310-315055-3), MW10-GW-0925 (310-315055-4), MW11-GW-0925 (310-315055-5), MW12-GW-0925 (310-315055-6), MW13-GW-0925 (310-315055-7), MW14-GW-0925 (310-315055-8), MW15-GW-0925 (310-315055-9), MW16-GW-0925 (310-315055-10) and MW17-GW-0925 (310-315055-11). Elevated reporting limits (RLs) are provided.

Method 9056A_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: MW18-GW-0925 (310-315055-12), MW19-GW-0925 (310-315055-13), MW20-GW-0925 (310-315055-14), MW21-GW-0925 (310-315055-15) and DP01-GW-0925 (310-315055-16). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cedar Falls

Case Narrative

Client: GHD Services Inc.
Project: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1

Job ID: 310-315055-2

Eurofins Cedar Falls

Job Narrative 310-315055-2

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/5/2025 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.8°C, 2.3°C, 2.4°C, 2.8°C and 3.3°C.

Gas Flow Proportional Counter

Method 9320_Ra228: Radium-228 prep batch 160-735570:

The MDC for the following sample(s) is flagged as failing; The laboratory considers the detection goal (requested limit) met when rounding to the appropriate place value. MW19-GW-0925 (310-315055-13) and MW21-GW-0925 (310-315055-15)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Rad

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cedar Falls

Sample Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-315055-1	MW02-GW-0925	Water	09/03/25 09:45	09/05/25 16:45	Iowa
310-315055-2	MW04-GW-0925	Water	09/04/25 10:20	09/05/25 16:45	Iowa
310-315055-3	MW08-GW-0925	Water	09/04/25 08:15	09/05/25 16:45	Iowa
310-315055-4	MW10-GW-0925	Water	09/03/25 18:15	09/05/25 16:45	Iowa
310-315055-5	MW11-GW-0925	Water	09/03/25 14:30	09/05/25 16:45	Iowa
310-315055-6	MW12-GW-0925	Water	09/03/25 15:10	09/05/25 16:45	Iowa
310-315055-7	MW13-GW-0925	Water	09/03/25 16:15	09/05/25 16:45	Iowa
310-315055-8	MW14-GW-0925	Water	09/03/25 13:30	09/05/25 16:45	Iowa
310-315055-9	MW15-GW-0925	Water	09/04/25 09:15	09/05/25 16:45	Iowa
310-315055-10	MW16-GW-0925	Water	09/03/25 08:45	09/05/25 16:45	Iowa
310-315055-11	MW17-GW-0925	Water	09/04/25 08:30	09/05/25 16:45	Iowa
310-315055-12	MW18-GW-0925	Water	09/04/25 10:25	09/05/25 16:45	Iowa
310-315055-13	MW19-GW-0925	Water	09/03/25 12:25	09/05/25 16:45	Iowa
310-315055-14	MW20-GW-0925	Water	09/03/25 11:15	09/05/25 16:45	Iowa
310-315055-15	MW21-GW-0925	Water	09/03/25 17:05	09/05/25 16:45	Iowa
310-315055-16	DP01-GW-0925	Water	09/03/25 00:00	09/05/25 16:45	Iowa

Detection Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW02-GW-0925

Lab Sample ID: 310-315055-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	163		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0165		0.00200		mg/L	1		6020B	Total/NA
Barium	0.221		0.00200		mg/L	1		6020B	Total/NA
Boron	0.435		0.100		mg/L	1		6020B	Total/NA
Calcium	168		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00377		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.123		0.0100		mg/L	1		6020B	Total/NA
Molybdenum	0.00245		0.00200		mg/L	1		6020B	Total/NA
Total Dissolved Solids	810		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.6	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW04-GW-0925

Lab Sample ID: 310-315055-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	22.1		5.00		mg/L	5		9056A	Total/NA
Sulfate	137		5.00		mg/L	5		9056A	Total/NA
Barium	0.0496		0.00200		mg/L	1		6020B	Total/NA
Boron	0.195		0.100		mg/L	1		6020B	Total/NA
Calcium	84.6		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00178		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.0501		0.0100		mg/L	1		6020B	Total/NA
Total Dissolved Solids	562		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.2	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW08-GW-0925

Lab Sample ID: 310-315055-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.45		5.00		mg/L	5		9056A	Total/NA
Sulfate	211		5.00		mg/L	5		9056A	Total/NA
Barium	0.0947		0.00200		mg/L	1		6020B	Total/NA
Boron	2.29		0.100		mg/L	1		6020B	Total/NA
Calcium	147		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00204		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.114		0.0100		mg/L	1		6020B	Total/NA
Molybdenum	0.0115		0.00200		mg/L	1		6020B	Total/NA
Total Dissolved Solids	978		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW10-GW-0925

Lab Sample ID: 310-315055-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.59		5.00		mg/L	5		9056A	Total/NA
Sulfate	47.4		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0393		0.00200		mg/L	1		6020B	Total/NA
Barium	0.373		0.00200		mg/L	1		6020B	Total/NA
Boron	0.443		0.100		mg/L	1		6020B	Total/NA
Calcium	113		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00115		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.0809		0.0100		mg/L	1		6020B	Total/NA
Molybdenum	0.00422		0.00200		mg/L	1		6020B	Total/NA
Total Dissolved Solids	650		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.8	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW11-GW-0925

Lab Sample ID: 310-315055-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	23.1		5.00		mg/L	5		9056A	Total/NA
Sulfate	420		5.00		mg/L	5		9056A	Total/NA
Barium	0.0305		0.00200		mg/L	1		6020B	Total/NA
Boron	0.303		0.100		mg/L	1		6020B	Total/NA
Calcium	202		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00547		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.0930		0.0100		mg/L	1		6020B	Total/NA
Total Dissolved Solids	1150		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.5	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW12-GW-0925

Lab Sample ID: 310-315055-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	89.2		5.00		mg/L	5		9056A	Total/NA
Sulfate	438		5.00		mg/L	5		9056A	Total/NA
Barium	0.0417		0.00200		mg/L	1		6020B	Total/NA
Boron	1.24		0.100		mg/L	1		6020B	Total/NA
Calcium	210		0.500		mg/L	1		6020B	Total/NA
Lithium	0.124		0.0100		mg/L	1		6020B	Total/NA
Selenium	0.0593		0.00500		mg/L	1		6020B	Total/NA
Total Dissolved Solids	1270		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.6	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW13-GW-0925

Lab Sample ID: 310-315055-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.15		5.00		mg/L	5		9056A	Total/NA
Sulfate	382		5.00		mg/L	5		9056A	Total/NA
Barium	0.0277		0.00200		mg/L	1		6020B	Total/NA
Boron	1.48		0.100		mg/L	1		6020B	Total/NA
Calcium	181		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.000780		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.0991		0.0100		mg/L	1		6020B	Total/NA
Total Dissolved Solids	1120		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW14-GW-0925

Lab Sample ID: 310-315055-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	248		5.00		mg/L	5		9056A	Total/NA
Barium	0.0589		0.00200		mg/L	1		6020B	Total/NA
Boron	0.347		0.100		mg/L	1		6020B	Total/NA
Calcium	201		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00264		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.130		0.0100		mg/L	1		6020B	Total/NA
Selenium	0.00582		0.00500		mg/L	1		6020B	Total/NA
Total Dissolved Solids	1060		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.5	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW15-GW-0925

Lab Sample ID: 310-315055-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26.0		5.00		mg/L	5		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW15-GW-0925 (Continued)

Lab Sample ID: 310-315055-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	186		5.00		mg/L	5		9056A	Total/NA
Barium	0.0816		0.00200		mg/L	1		6020B	Total/NA
Boron	0.339		0.100		mg/L	1		6020B	Total/NA
Calcium	105		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00316		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.0617		0.0100		mg/L	1		6020B	Total/NA
Total Dissolved Solids	658		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.1	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW16-GW-0925

Lab Sample ID: 310-315055-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	63.7		5.00		mg/L	5		9056A	Total/NA
Barium	0.324		0.00200		mg/L	1		6020B	Total/NA
Boron	0.180		0.100		mg/L	1		6020B	Total/NA
Calcium	133		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00110		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.0556		0.0100		mg/L	1		6020B	Total/NA
Total Dissolved Solids	748		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.6	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW17-GW-0925

Lab Sample ID: 310-315055-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15.5		5.00		mg/L	5		9056A	Total/NA
Sulfate	97.9		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.00291		0.00200		mg/L	1		6020B	Total/NA
Barium	0.104		0.00200		mg/L	1		6020B	Total/NA
Boron	0.204		0.100		mg/L	1		6020B	Total/NA
Calcium	143		0.500		mg/L	1		6020B	Total/NA
Lithium	0.0772		0.0100		mg/L	1		6020B	Total/NA
Molybdenum	0.00302		0.00200		mg/L	1		6020B	Total/NA
Total Dissolved Solids	748		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.6	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW18-GW-0925

Lab Sample ID: 310-315055-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	130		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0200		0.00200		mg/L	1		6020B	Total/NA
Barium	0.119		0.00200		mg/L	1		6020B	Total/NA
Boron	0.236		0.100		mg/L	1		6020B	Total/NA
Calcium	170		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00356		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.140		0.0100		mg/L	1		6020B	Total/NA
Molybdenum	0.00219		0.00200		mg/L	1		6020B	Total/NA
Total Dissolved Solids	830		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.6	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW19-GW-0925

Lab Sample ID: 310-315055-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	34.5		5.00		mg/L	5		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW19-GW-0925 (Continued)

Lab Sample ID: 310-315055-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	311		5.00		mg/L	5		9056A	Total/NA
Barium	0.0781		0.00200		mg/L	1		6020B	Total/NA
Boron	0.487		0.100		mg/L	1		6020B	Total/NA
Calcium	202		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00280		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.148		0.0100		mg/L	1		6020B	Total/NA
Total Dissolved Solids	1130		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.5	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW20-GW-0925

Lab Sample ID: 310-315055-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	61.5		5.00		mg/L	5		9056A	Total/NA
Sulfate	423		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0148		0.00200		mg/L	1		6020B	Total/NA
Barium	0.0833		0.00200		mg/L	1		6020B	Total/NA
Boron	1.07		0.100		mg/L	1		6020B	Total/NA
Calcium	205		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00109		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.118		0.0100		mg/L	1		6020B	Total/NA
Total Dissolved Solids	1310		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW21-GW-0925

Lab Sample ID: 310-315055-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.32		5.00		mg/L	5		9056A	Total/NA
Sulfate	135		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.00794		0.00200		mg/L	1		6020B	Total/NA
Barium	0.372		0.00200		mg/L	1		6020B	Total/NA
Boron	0.189		0.100		mg/L	1		6020B	Total/NA
Calcium	187		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00600		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.0864		0.0100		mg/L	1		6020B	Total/NA
Total Dissolved Solids	816		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.4	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: DP01-GW-0925

Lab Sample ID: 310-315055-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	168		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0165		0.00200		mg/L	1		6020B	Total/NA
Barium	0.201		0.00200		mg/L	1		6020B	Total/NA
Boron	0.411		0.100		mg/L	1		6020B	Total/NA
Calcium	152		0.500		mg/L	1		6020B	Total/NA
Cobalt	0.00367		0.000500		mg/L	1		6020B	Total/NA
Lithium	0.114		0.0100		mg/L	1		6020B	Total/NA
Molybdenum	0.00235		0.00200		mg/L	1		6020B	Total/NA
Total Dissolved Solids	850		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.6	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW02-GW-0925

Lab Sample ID: 310-315055-1

Date Collected: 09/03/25 09:45

Matrix: Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00		5.00		mg/L			09/16/25 22:32	5
Sulfate	163		5.00		mg/L			09/16/25 22:32	5
Fluoride	<1.00		1.00		mg/L			09/16/25 22:32	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:36	1
Arsenic	0.0165		0.00200		mg/L		09/12/25 09:00	09/16/25 15:36	1
Barium	0.221		0.00200		mg/L		09/12/25 09:00	09/16/25 15:36	1
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 15:36	1
Boron	0.435		0.100		mg/L		09/12/25 09:00	09/16/25 15:36	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/16/25 15:36	1
Calcium	168		0.500		mg/L		09/12/25 09:00	09/16/25 15:36	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 15:36	1
Cobalt	0.00377		0.000500		mg/L		09/12/25 09:00	09/16/25 15:36	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 15:36	1
Lithium	0.123		0.0100		mg/L		09/12/25 09:00	09/16/25 15:36	1
Molybdenum	0.00245		0.00200		mg/L		09/12/25 09:00	09/16/25 15:36	1
Selenium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 15:36	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 15:36	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/11/25 12:35	09/12/25 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	810		50.0		mg/L			09/08/25 11:07	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.6	HF	1.0		SU			09/06/25 02:50	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.285		0.181	0.183	1.00	0.240	pCi/L	09/11/25 08:13	10/08/25 07:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	91.7		30 - 110					09/11/25 08:13	10/08/25 07:32	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.03		0.403	0.414	1.00	0.504	pCi/L	10/09/25 07:56	10/13/25 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	88.1		30 - 110					10/09/25 07:56	10/13/25 11:58	1
Y Carrier	85.2		30 - 110					10/09/25 07:56	10/13/25 11:58	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW02-GW-0925
Date Collected: 09/03/25 09:45
Date Received: 09/05/25 16:45

Lab Sample ID: 310-315055-1
Matrix: Water

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228										
Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.31		0.442	0.453	5.00	0.504	pCi/L		10/13/25 17:58	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW04-GW-0925

Lab Sample ID: 310-315055-2

Date Collected: 09/04/25 10:20

Matrix: Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.1		5.00		mg/L			09/16/25 22:43	5
Sulfate	137		5.00		mg/L			09/16/25 22:43	5
Fluoride	<1.00		1.00		mg/L			09/16/25 22:43	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:39	1
Arsenic	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:39	1
Barium	0.0496		0.00200		mg/L		09/12/25 09:00	09/16/25 15:39	1
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 15:39	1
Boron	0.195		0.100		mg/L		09/12/25 09:00	09/16/25 15:39	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/16/25 15:39	1
Calcium	84.6		0.500		mg/L		09/12/25 09:00	09/16/25 15:39	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 15:39	1
Cobalt	0.00178		0.000500		mg/L		09/12/25 09:00	09/16/25 15:39	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 15:39	1
Lithium	0.0501		0.0100		mg/L		09/12/25 09:00	09/16/25 15:39	1
Molybdenum	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:39	1
Selenium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 15:39	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 15:39	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/11/25 12:35	09/12/25 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	562		50.0		mg/L			09/10/25 16:27	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.2	HF	1.0		SU			09/06/25 03:52	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.289	U	0.168	0.168	1.00	0.289	pCi/L	09/11/25 08:13	10/08/25 07:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	89.0		30 - 110					09/11/25 08:13	10/08/25 07:32	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.519	U	0.339	0.342	1.00	0.519	pCi/L	09/11/25 08:18	10/07/25 09:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	89.0		30 - 110					09/11/25 08:18	10/07/25 09:48	1
Y Carrier	86.4		30 - 110					09/11/25 08:18	10/07/25 09:48	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW04-GW-0925
Date Collected: 09/04/25 10:20
Date Received: 09/05/25 16:45

Lab Sample ID: 310-315055-2
Matrix: Water

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228										
Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.558		0.378	0.381	5.00	0.519	pCi/L		10/08/25 14:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW08-GW-0925

Lab Sample ID: 310-315055-3

Date Collected: 09/04/25 08:15

Matrix: Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.45		5.00		mg/L			09/16/25 22:54	5
Sulfate	211		5.00		mg/L			09/16/25 22:54	5
Fluoride	<1.00		1.00		mg/L			09/16/25 22:54	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:42	1
Arsenic	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:42	1
Barium	0.0947		0.00200		mg/L		09/12/25 09:00	09/16/25 15:42	1
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 15:42	1
Boron	2.29		0.100		mg/L		09/12/25 09:00	09/16/25 15:42	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/16/25 15:42	1
Calcium	147		0.500		mg/L		09/12/25 09:00	09/16/25 15:42	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 15:42	1
Cobalt	0.00204		0.000500		mg/L		09/12/25 09:00	09/16/25 15:42	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 15:42	1
Lithium	0.114		0.0100		mg/L		09/12/25 09:00	09/16/25 15:42	1
Molybdenum	0.0115		0.00200		mg/L		09/12/25 09:00	09/16/25 15:42	1
Selenium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 15:42	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 15:42	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/11/25 12:35	09/12/25 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	978		50.0		mg/L			09/10/25 16:27	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.7	HF	1.0		SU			09/06/25 02:04	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.225	U	0.136	0.137	1.00	0.225	pCi/L	09/11/25 08:13	10/08/25 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	86.8		30 - 110					09/11/25 08:13	10/08/25 07:33	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.855		0.471	0.477	1.00	0.686	pCi/L	09/11/25 08:18	10/07/25 09:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	86.8		30 - 110					09/11/25 08:18	10/07/25 09:48	1
Y Carrier	78.9		30 - 110					09/11/25 08:18	10/07/25 09:48	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW08-GW-0925

Lab Sample ID: 310-315055-3

Date Collected: 09/04/25 08:15

Matrix: Water

Date Received: 09/05/25 16:45

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.963		0.490	0.496	5.00	0.686	pCi/L		10/08/25 14:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW10-GW-0925

Lab Sample ID: 310-315055-4

Date Collected: 09/03/25 18:15

Matrix: Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.59		5.00		mg/L			09/16/25 23:05	5
Sulfate	47.4		5.00		mg/L			09/16/25 23:05	5
Fluoride	<1.00		1.00		mg/L			09/16/25 23:05	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:44	1
Arsenic	0.0393		0.00200		mg/L		09/12/25 09:00	09/16/25 15:44	1
Barium	0.373		0.00200		mg/L		09/12/25 09:00	09/16/25 15:44	1
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 15:44	1
Boron	0.443		0.100		mg/L		09/12/25 09:00	09/16/25 15:44	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/16/25 15:44	1
Calcium	113		0.500		mg/L		09/12/25 09:00	09/16/25 15:44	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 15:44	1
Cobalt	0.00115		0.000500		mg/L		09/12/25 09:00	09/16/25 15:44	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 15:44	1
Lithium	0.0809		0.0100		mg/L		09/12/25 09:00	09/16/25 15:44	1
Molybdenum	0.00422		0.00200		mg/L		09/12/25 09:00	09/16/25 15:44	1
Selenium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 15:44	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 15:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/11/25 12:35	09/12/25 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	650		50.0		mg/L			09/08/25 11:07	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.8	HF	1.0		SU			09/06/25 02:09	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.353		0.233	0.236	1.00	0.311	pCi/L	09/11/25 08:13	10/08/25 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	91.0		30 - 110					09/11/25 08:13	10/08/25 07:33	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.697	U	0.467	0.471	1.00	0.697	pCi/L	09/11/25 08:18	10/07/25 09:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	91.0		30 - 110					09/11/25 08:18	10/07/25 09:48	1
Y Carrier	81.1		30 - 110					09/11/25 08:18	10/07/25 09:48	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW10-GW-0925

Lab Sample ID: 310-315055-4

Date Collected: 09/03/25 18:15

Matrix: Water

Date Received: 09/05/25 16:45

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.04		0.522	0.527	5.00	0.697	pCi/L		10/08/25 14:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW11-GW-0925

Lab Sample ID: 310-315055-5

Date Collected: 09/03/25 14:30

Matrix: Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.1		5.00		mg/L			09/16/25 23:16	5
Sulfate	420		5.00		mg/L			09/16/25 23:16	5
Fluoride	<1.00		1.00		mg/L			09/16/25 23:16	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:53	1
Arsenic	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:53	1
Barium	0.0305		0.00200		mg/L		09/12/25 09:00	09/16/25 15:53	1
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 15:53	1
Boron	0.303		0.100		mg/L		09/12/25 09:00	09/16/25 15:53	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/16/25 15:53	1
Calcium	202		0.500		mg/L		09/12/25 09:00	09/16/25 15:53	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 15:53	1
Cobalt	0.00547		0.000500		mg/L		09/12/25 09:00	09/16/25 15:53	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 15:53	1
Lithium	0.0930		0.0100		mg/L		09/12/25 09:00	09/16/25 15:53	1
Molybdenum	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:53	1
Selenium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 15:53	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 15:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/11/25 12:35	09/12/25 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1150		50.0		mg/L			09/08/25 11:07	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.5	HF	1.0		SU			09/06/25 01:36	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.301	U	0.202	0.204	1.00	0.301	pCi/L	09/11/25 08:13	10/08/25 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	86.3		30 - 110					09/11/25 08:13	10/08/25 07:33	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.708		0.394	0.399	1.00	0.565	pCi/L	09/11/25 08:18	10/07/25 09:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	86.3		30 - 110					09/11/25 08:18	10/07/25 09:48	1
Y Carrier	83.7		30 - 110					09/11/25 08:18	10/07/25 09:48	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW11-GW-0925
Date Collected: 09/03/25 14:30
Date Received: 09/05/25 16:45

Lab Sample ID: 310-315055-5
Matrix: Water

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.962		0.443	0.448	5.00	0.565	pCi/L		10/08/25 14:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW12-GW-0925

Lab Sample ID: 310-315055-6

Date Collected: 09/03/25 15:10

Matrix: Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.2		5.00		mg/L			09/16/25 23:27	5
Sulfate	438		5.00		mg/L			09/16/25 23:27	5
Fluoride	<1.00		1.00		mg/L			09/16/25 23:27	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:56	1
Arsenic	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:56	1
Barium	0.0417		0.00200		mg/L		09/12/25 09:00	09/16/25 15:56	1
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 15:56	1
Boron	1.24		0.100		mg/L		09/12/25 09:00	09/16/25 15:56	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/16/25 15:56	1
Calcium	210		0.500		mg/L		09/12/25 09:00	09/16/25 15:56	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 15:56	1
Cobalt	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 15:56	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 15:56	1
Lithium	0.124		0.0100		mg/L		09/12/25 09:00	09/16/25 15:56	1
Molybdenum	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:56	1
Selenium	0.0593		0.00500		mg/L		09/12/25 09:00	09/16/25 15:56	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 15:56	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/11/25 12:35	09/12/25 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1270		50.0		mg/L			09/08/25 11:07	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.6	HF	1.0		SU			09/06/25 03:23	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.285		0.190	0.192	1.00	0.260	pCi/L	09/11/25 08:13	10/08/25 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	87.3		30 - 110					09/11/25 08:13	10/08/25 07:41	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.675	U	0.435	0.439	1.00	0.675	pCi/L	09/11/25 08:18	10/07/25 09:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	87.3		30 - 110					09/11/25 08:18	10/07/25 09:48	1
Y Carrier	85.2		30 - 110					09/11/25 08:18	10/07/25 09:48	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW12-GW-0925

Lab Sample ID: 310-315055-6

Date Collected: 09/03/25 15:10

Matrix: Water

Date Received: 09/05/25 16:45

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.888		0.475	0.479	5.00	0.675	pCi/L		10/08/25 14:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW13-GW-0925

Lab Sample ID: 310-315055-7

Date Collected: 09/03/25 16:15

Matrix: Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.15		5.00		mg/L			09/16/25 23:39	5
Sulfate	382		5.00		mg/L			09/16/25 23:39	5
Fluoride	<1.00		1.00		mg/L			09/16/25 23:39	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:59	1
Arsenic	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:59	1
Barium	0.0277		0.00200		mg/L		09/12/25 09:00	09/16/25 15:59	1
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 15:59	1
Boron	1.48		0.100		mg/L		09/12/25 09:00	09/16/25 15:59	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/16/25 15:59	1
Calcium	181		0.500		mg/L		09/12/25 09:00	09/16/25 15:59	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 15:59	1
Cobalt	0.000780		0.000500		mg/L		09/12/25 09:00	09/16/25 15:59	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 15:59	1
Lithium	0.0991		0.0100		mg/L		09/12/25 09:00	09/16/25 15:59	1
Molybdenum	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:59	1
Selenium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 15:59	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 15:59	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/15/25 15:55	09/16/25 09:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1120		50.0		mg/L			09/08/25 11:07	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.7	HF	1.0		SU			09/06/25 02:00	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.282	U	0.189	0.190	1.00	0.282	pCi/L	09/11/25 08:13	10/08/25 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	91.5		30 - 110					09/11/25 08:13	10/08/25 07:41	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.564		0.358	0.362	1.00	0.534	pCi/L	09/11/25 08:18	10/07/25 09:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	91.5		30 - 110					09/11/25 08:18	10/07/25 09:46	1
Y Carrier	85.2		30 - 110					09/11/25 08:18	10/07/25 09:46	1

Eurofins Cedar Falls

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW13-GW-0925

Lab Sample ID: 310-315055-7

Date Collected: 09/03/25 16:15

Matrix: Water

Date Received: 09/05/25 16:45

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.797		0.405	0.409	5.00	0.534	pCi/L		10/08/25 14:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW14-GW-0925

Lab Sample ID: 310-315055-8

Date Collected: 09/03/25 13:30

Matrix: Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00		5.00		mg/L			09/16/25 23:50	5
Sulfate	248		5.00		mg/L			09/16/25 23:50	5
Fluoride	<1.00		1.00		mg/L			09/16/25 23:50	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:01	1
Arsenic	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:01	1
Barium	0.0589		0.00200		mg/L		09/12/25 09:00	09/16/25 16:01	1
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 16:01	1
Boron	0.347		0.100		mg/L		09/12/25 09:00	09/16/25 16:01	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/16/25 16:01	1
Calcium	201		0.500		mg/L		09/12/25 09:00	09/16/25 16:01	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 16:01	1
Cobalt	0.00264		0.000500		mg/L		09/12/25 09:00	09/16/25 16:01	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 16:01	1
Lithium	0.130		0.0100		mg/L		09/12/25 09:00	09/16/25 16:01	1
Molybdenum	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:01	1
Selenium	0.00582		0.00500		mg/L		09/12/25 09:00	09/16/25 16:01	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 16:01	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/15/25 15:55	09/16/25 09:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1060		50.0		mg/L			09/09/25 12:35	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.5	HF	1.0		SU			09/06/25 01:00	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.286	U	0.190	0.191	1.00	0.286	pCi/L	09/11/25 08:13	10/08/25 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	88.5		30 - 110					09/11/25 08:13	10/08/25 07:41	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.539	U	0.307	0.307	1.00	0.539	pCi/L	09/11/25 08:18	10/07/25 09:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	88.5		30 - 110					09/11/25 08:18	10/07/25 09:46	1
Y Carrier	85.6		30 - 110					09/11/25 08:18	10/07/25 09:46	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW14-GW-0925
Date Collected: 09/03/25 13:30
Date Received: 09/05/25 16:45

Lab Sample ID: 310-315055-8
Matrix: Water

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.539	U	0.361	0.362	5.00	0.539	pCi/L		10/08/25 14:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW15-GW-0925

Lab Sample ID: 310-315055-9

Date Collected: 09/04/25 09:15

Matrix: Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.0		5.00		mg/L			09/17/25 00:01	5
Sulfate	186		5.00		mg/L			09/17/25 00:01	5
Fluoride	<1.00		1.00		mg/L			09/17/25 00:01	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:04	1
Arsenic	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:04	1
Barium	0.0816		0.00200		mg/L		09/12/25 09:00	09/16/25 16:04	1
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 16:04	1
Boron	0.339		0.100		mg/L		09/12/25 09:00	09/16/25 16:04	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/16/25 16:04	1
Calcium	105		0.500		mg/L		09/12/25 09:00	09/16/25 16:04	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 16:04	1
Cobalt	0.00316		0.000500		mg/L		09/12/25 09:00	09/16/25 16:04	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 16:04	1
Lithium	0.0617		0.0100		mg/L		09/12/25 09:00	09/16/25 16:04	1
Molybdenum	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:04	1
Selenium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 16:04	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 16:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/15/25 15:55	09/16/25 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	658		50.0		mg/L			09/10/25 16:27	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.1	HF	1.0		SU			09/06/25 01:09	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.316	U	0.218	0.220	1.00	0.316	pCi/L	09/11/25 08:13	10/08/25 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	90.5		30 - 110					09/11/25 08:13	10/08/25 07:41	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.844		0.392	0.399	1.00	0.537	pCi/L	09/11/25 08:18	10/07/25 09:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	90.5		30 - 110					09/11/25 08:18	10/07/25 09:47	1
Y Carrier	84.1		30 - 110					09/11/25 08:18	10/07/25 09:47	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW15-GW-0925

Lab Sample ID: 310-315055-9

Date Collected: 09/04/25 09:15

Matrix: Water

Date Received: 09/05/25 16:45

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.15		0.449	0.456	5.00	0.537	pCi/L		10/08/25 14:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW16-GW-0925

Lab Sample ID: 310-315055-10

Date Collected: 09/03/25 08:45

Matrix: Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00		5.00		mg/L			09/17/25 00:34	5
Sulfate	63.7		5.00		mg/L			09/17/25 00:34	5
Fluoride	<1.00		1.00		mg/L			09/17/25 00:34	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:07	1
Arsenic	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:07	1
Barium	0.324		0.00200		mg/L		09/12/25 09:00	09/16/25 16:07	1
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 16:07	1
Boron	0.180		0.100		mg/L		09/12/25 09:00	09/16/25 16:07	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/16/25 16:07	1
Calcium	133		0.500		mg/L		09/12/25 09:00	09/16/25 16:07	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 16:07	1
Cobalt	0.00110		0.000500		mg/L		09/12/25 09:00	09/16/25 16:07	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 16:07	1
Lithium	0.0556		0.0100		mg/L		09/12/25 09:00	09/16/25 16:07	1
Molybdenum	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:07	1
Selenium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 16:07	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 16:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/15/25 15:55	09/16/25 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	748		50.0		mg/L			09/09/25 12:35	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.6	HF	1.0		SU			09/06/25 00:47	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.326		0.215	0.217	1.00	0.302	pCi/L	09/11/25 08:13	10/08/25 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	87.8		30 - 110					09/11/25 08:13	10/08/25 07:41	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.758		0.380	0.386	1.00	0.527	pCi/L	09/11/25 08:18	10/07/25 09:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	87.8		30 - 110					09/11/25 08:18	10/07/25 09:47	1
Y Carrier	85.2		30 - 110					09/11/25 08:18	10/07/25 09:47	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW16-GW-0925

Lab Sample ID: 310-315055-10

Date Collected: 09/03/25 08:45

Matrix: Water

Date Received: 09/05/25 16:45

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.08		0.437	0.443	5.00	0.527	pCi/L		10/08/25 14:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW17-GW-0925

Lab Sample ID: 310-315055-11

Date Collected: 09/04/25 08:30

Matrix: Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.5		5.00		mg/L			09/17/25 01:07	5
Sulfate	97.9		5.00		mg/L			09/17/25 01:07	5
Fluoride	<1.00		1.00		mg/L			09/17/25 01:07	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:18	1
Arsenic	0.00291		0.00200		mg/L		09/12/25 09:00	09/16/25 16:18	1
Barium	0.104		0.00200		mg/L		09/12/25 09:00	09/16/25 16:18	1
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 16:18	1
Boron	0.204		0.100		mg/L		09/12/25 09:00	09/16/25 16:18	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/16/25 16:18	1
Calcium	143		0.500		mg/L		09/12/25 09:00	09/16/25 16:18	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 16:18	1
Cobalt	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 16:18	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 16:18	1
Lithium	0.0772		0.0100		mg/L		09/12/25 09:00	09/16/25 16:18	1
Molybdenum	0.00302		0.00200		mg/L		09/12/25 09:00	09/16/25 16:18	1
Selenium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 16:18	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 16:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/15/25 15:55	09/16/25 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	748		50.0		mg/L			09/10/25 16:27	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.6	HF	1.0		SU			09/06/25 02:45	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.273	U	0.184	0.186	1.00	0.273	pCi/L	09/11/25 08:13	10/08/25 07:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	88.8		30 - 110					09/11/25 08:13	10/08/25 07:42	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.45		0.713	0.725	1.00	0.991	pCi/L	09/11/25 08:18	10/07/25 14:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	88.8		30 - 110					09/11/25 08:18	10/07/25 14:18	1
Y Carrier	84.9		30 - 110					09/11/25 08:18	10/07/25 14:18	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW17-GW-0925

Lab Sample ID: 310-315055-11

Date Collected: 09/04/25 08:30

Matrix: Water

Date Received: 09/05/25 16:45

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.68		0.736	0.748	5.00	0.991	pCi/L		10/08/25 14:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW18-GW-0925

Lab Sample ID: 310-315055-12

Date Collected: 09/04/25 10:25

Matrix: Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00		5.00		mg/L			09/16/25 19:17	5
Sulfate	130		5.00		mg/L			09/16/25 19:17	5
Fluoride	<1.00		1.00		mg/L			09/16/25 19:17	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:27	1
Arsenic	0.0200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:27	1
Barium	0.119		0.00200		mg/L		09/12/25 09:00	09/16/25 16:27	1
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 16:27	1
Boron	0.236		0.100		mg/L		09/12/25 09:00	09/16/25 16:27	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/16/25 16:27	1
Calcium	170		0.500		mg/L		09/12/25 09:00	09/16/25 16:27	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 16:27	1
Cobalt	0.00356		0.000500		mg/L		09/12/25 09:00	09/16/25 16:27	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 16:27	1
Lithium	0.140		0.0100		mg/L		09/12/25 09:00	09/16/25 16:27	1
Molybdenum	0.00219		0.00200		mg/L		09/12/25 09:00	09/16/25 16:27	1
Selenium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 16:27	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 16:27	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/15/25 15:55	09/16/25 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	830		50.0		mg/L			09/10/25 16:27	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.6	HF	1.0		SU			09/06/25 03:30	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.330		0.195	0.197	1.00	0.247	pCi/L	09/11/25 08:13	10/08/25 07:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	85.4		30 - 110					09/11/25 08:13	10/08/25 07:42	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.04		0.416	0.427	1.00	0.533	pCi/L	10/09/25 07:56	10/13/25 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	87.8		30 - 110					10/09/25 07:56	10/13/25 11:58	1
Y Carrier	83.0		30 - 110					10/09/25 07:56	10/13/25 11:58	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW18-GW-0925

Lab Sample ID: 310-315055-12

Date Collected: 09/04/25 10:25

Matrix: Water

Date Received: 09/05/25 16:45

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.37		0.459	0.470	5.00	0.533	pCi/L		10/13/25 17:58	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW19-GW-0925

Lab Sample ID: 310-315055-13

Date Collected: 09/03/25 12:25

Matrix: Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.5		5.00		mg/L			09/16/25 19:30	5
Sulfate	311		5.00		mg/L			09/16/25 19:30	5
Fluoride	<1.00		1.00		mg/L			09/16/25 19:30	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:30	1
Arsenic	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:30	1
Barium	0.0781		0.00200		mg/L		09/12/25 09:00	09/16/25 16:30	1
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 16:30	1
Boron	0.487		0.100		mg/L		09/12/25 09:00	09/16/25 16:30	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/16/25 16:30	1
Calcium	202		0.500		mg/L		09/12/25 09:00	09/16/25 16:30	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 16:30	1
Cobalt	0.00280		0.000500		mg/L		09/12/25 09:00	09/16/25 16:30	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 16:30	1
Lithium	0.148		0.0100		mg/L		09/12/25 09:00	09/16/25 16:30	1
Molybdenum	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:30	1
Selenium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 16:30	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 16:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/15/25 15:55	09/16/25 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1130		50.0		mg/L			09/09/25 12:35	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.5	HF	1.0		SU			09/06/25 01:47	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.356	U	0.234	0.236	1.00	0.356	pCi/L	09/11/25 08:13	10/08/25 07:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	90.2		30 - 110					09/11/25 08:13	10/08/25 07:42	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<1.02	U G	0.622	0.624	1.00	1.02	pCi/L	09/11/25 08:18	10/07/25 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	90.2		30 - 110					09/11/25 08:18	10/07/25 14:17	1
Y Carrier	82.6		30 - 110					09/11/25 08:18	10/07/25 14:17	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW19-GW-0925

Lab Sample ID: 310-315055-13

Date Collected: 09/03/25 12:25

Matrix: Water

Date Received: 09/05/25 16:45

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<1.02	U	0.665	0.667	5.00	1.02	pCi/L		10/08/25 14:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW20-GW-0925

Lab Sample ID: 310-315055-14

Date Collected: 09/03/25 11:15

Matrix: Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.5		5.00		mg/L			09/16/25 19:44	5
Sulfate	423		5.00		mg/L			09/16/25 19:44	5
Fluoride	<1.00		1.00		mg/L			09/16/25 19:44	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:32	1
Arsenic	0.0148		0.00200		mg/L		09/12/25 09:00	09/16/25 16:32	1
Barium	0.0833		0.00200		mg/L		09/12/25 09:00	09/16/25 16:32	1
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 16:32	1
Boron	1.07		0.100		mg/L		09/12/25 09:00	09/16/25 16:32	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/16/25 16:32	1
Calcium	205		0.500		mg/L		09/12/25 09:00	09/16/25 16:32	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 16:32	1
Cobalt	0.00109		0.000500		mg/L		09/12/25 09:00	09/16/25 16:32	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 16:32	1
Lithium	0.118		0.0100		mg/L		09/12/25 09:00	09/16/25 16:32	1
Molybdenum	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:32	1
Selenium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 16:32	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 16:32	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/15/25 15:55	09/16/25 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1310		50.0		mg/L			09/09/25 15:36	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.7	HF	1.0		SU			09/06/25 03:39	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.654		0.242	0.249	1.00	0.252	pCi/L	09/11/25 08:13	10/08/25 07:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	93.4		30 - 110					09/11/25 08:13	10/08/25 07:42	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.858		0.350	0.359	1.00	0.441	pCi/L	09/11/25 08:18	10/07/25 09:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	93.4		30 - 110					09/11/25 08:18	10/07/25 09:48	1
Y Carrier	84.9		30 - 110					09/11/25 08:18	10/07/25 09:48	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW20-GW-0925

Lab Sample ID: 310-315055-14

Date Collected: 09/03/25 11:15

Matrix: Water

Date Received: 09/05/25 16:45

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.51		0.426	0.437	5.00	0.441	pCi/L		10/08/25 14:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW21-GW-0925

Lab Sample ID: 310-315055-15

Date Collected: 09/03/25 17:05

Matrix: Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.32		5.00		mg/L			09/16/25 19:57	5
Sulfate	135		5.00		mg/L			09/16/25 19:57	5
Fluoride	<1.00		1.00		mg/L			09/16/25 19:57	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:35	1
Arsenic	0.00794		0.00200		mg/L		09/12/25 09:00	09/16/25 16:35	1
Barium	0.372		0.00200		mg/L		09/12/25 09:00	09/16/25 16:35	1
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 16:35	1
Boron	0.189		0.100		mg/L		09/12/25 09:00	09/16/25 16:35	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/16/25 16:35	1
Calcium	187		0.500		mg/L		09/12/25 09:00	09/16/25 16:35	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 16:35	1
Cobalt	0.00600		0.000500		mg/L		09/12/25 09:00	09/16/25 16:35	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 16:35	1
Lithium	0.0864		0.0100		mg/L		09/12/25 09:00	09/16/25 16:35	1
Molybdenum	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 16:35	1
Selenium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 16:35	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 16:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/15/25 15:55	09/16/25 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	816		50.0		mg/L			09/09/25 12:35	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.4	HF	1.0		SU			09/06/25 02:28	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.426		0.211	0.215	1.00	0.256	pCi/L	09/11/25 08:13	10/08/25 07:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	92.2		30 - 110					09/11/25 08:13	10/08/25 07:42	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.45	G	0.726	0.739	1.00	1.02	pCi/L	09/11/25 08:18	10/07/25 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	92.2		30 - 110					09/11/25 08:18	10/07/25 14:17	1
Y Carrier	83.4		30 - 110					09/11/25 08:18	10/07/25 14:17	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW21-GW-0925

Lab Sample ID: 310-315055-15

Date Collected: 09/03/25 17:05

Matrix: Water

Date Received: 09/05/25 16:45

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.88		0.756	0.770	5.00	1.02	pCi/L		10/08/25 14:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: DP01-GW-0925

Lab Sample ID: 310-315055-16

Date Collected: 09/03/25 00:00

Matrix: Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00		5.00		mg/L			09/16/25 20:11	5
Sulfate	168		5.00		mg/L			09/16/25 20:11	5
Fluoride	<1.00		1.00		mg/L			09/16/25 20:11	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/15/25 13:41	1
Arsenic	0.0165		0.00200		mg/L		09/12/25 09:00	09/15/25 13:41	1
Barium	0.201		0.00200		mg/L		09/12/25 09:00	09/15/25 13:41	1
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/15/25 13:41	1
Boron	0.411		0.100		mg/L		09/12/25 09:00	09/15/25 13:41	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/15/25 13:41	1
Calcium	152		0.500		mg/L		09/12/25 09:00	09/15/25 13:41	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/15/25 13:41	1
Cobalt	0.00367		0.000500		mg/L		09/12/25 09:00	09/15/25 13:41	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/15/25 13:41	1
Lithium	0.114		0.0100		mg/L		09/12/25 09:00	09/15/25 13:41	1
Molybdenum	0.00235		0.00200		mg/L		09/12/25 09:00	09/16/25 13:24	1
Selenium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/15/25 13:41	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/15/25 13:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/15/25 15:55	09/16/25 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	850		50.0		mg/L			09/09/25 12:35	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.6	HF	1.0		SU			09/06/25 01:52	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.470		0.234	0.237	1.00	0.290	pCi/L	09/11/25 08:13	10/08/25 07:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	86.3		30 - 110					09/11/25 08:13	10/08/25 07:42	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.724		0.401	0.407	1.00	0.569	pCi/L	10/09/25 07:56	10/13/25 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	86.3		30 - 110					10/09/25 07:56	10/13/25 11:58	1
Y Carrier	80.4		30 - 110					10/09/25 07:56	10/13/25 11:58	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: DP01-GW-0925

Lab Sample ID: 310-315055-16

Date Collected: 09/03/25 00:00

Matrix: Water

Date Received: 09/05/25 16:45

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.19		0.464	0.471	5.00	0.569	pCi/L		10/13/25 17:58	1

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-466942/3

Matrix: Water

Analysis Batch: 466942

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00		mg/L			09/16/25 20:30	1
Sulfate	<1.00		1.00		mg/L			09/16/25 20:30	1
Fluoride	<0.200		0.200		mg/L			09/16/25 20:30	1

Lab Sample ID: LCS 310-466942/4

Matrix: Water

Analysis Batch: 466942

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.517		mg/L		95	90 - 110
Sulfate	10.0	10.08		mg/L		101	90 - 110
Fluoride	2.00	2.091		mg/L		105	90 - 110

Lab Sample ID: 310-315055-10 MS

Matrix: Water

Analysis Batch: 466942

Client Sample ID: MW16-GW-0925

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<5.00		25.0	27.02		mg/L		88	80 - 120
Sulfate	63.7		25.0	87.00		mg/L		93	80 - 120
Fluoride	<1.00		5.00	5.321		mg/L		106	80 - 120

Lab Sample ID: 310-315055-10 MSD

Matrix: Water

Analysis Batch: 466942

Client Sample ID: MW16-GW-0925

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.00		25.0	26.99		mg/L		88	80 - 120	0	15
Sulfate	63.7		25.0	87.04		mg/L		93	80 - 120	0	15
Fluoride	<1.00		5.00	5.330		mg/L		107	80 - 120	0	15

Lab Sample ID: MB 310-467026/3

Matrix: Water

Analysis Batch: 467026

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00		mg/L			09/16/25 18:50	1
Sulfate	<1.00		1.00		mg/L			09/16/25 18:50	1
Fluoride	<0.200		0.200		mg/L			09/16/25 18:50	1

Lab Sample ID: LCS 310-467026/4

Matrix: Water

Analysis Batch: 467026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.32		mg/L		103	90 - 110
Sulfate	10.0	10.57		mg/L		106	90 - 110
Fluoride	2.00	2.104		mg/L		105	90 - 110

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QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-466315/1-A

Matrix: Water

Analysis Batch: 466916

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466315

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:11	1
Arsenic	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:11	1
Barium	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 15:11	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/16/25 15:11	1
Calcium	<0.500		0.500		mg/L		09/12/25 09:00	09/16/25 15:11	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 15:11	1
Cobalt	<0.000500		0.000500		mg/L		09/12/25 09:00	09/16/25 15:11	1
Selenium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/16/25 15:11	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/16/25 15:11	1

Lab Sample ID: MB 310-466315/1-A

Matrix: Water

Analysis Batch: 467078

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466315

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/17/25 11:58	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/17/25 11:58	1

Lab Sample ID: MB 310-466315/1-A

Matrix: Water

Analysis Batch: 467205

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466315

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0100		0.0100		mg/L		09/12/25 09:00	09/18/25 12:07	1
Molybdenum	<0.00200		0.00200		mg/L		09/12/25 09:00	09/18/25 12:07	1

Lab Sample ID: LCS 310-466315/2-A

Matrix: Water

Analysis Batch: 466916

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466315

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2343		mg/L		117	80 - 120
Arsenic	0.200	0.2189		mg/L		109	80 - 120
Barium	0.100	0.1127		mg/L		113	80 - 120
Cadmium	0.100	0.1154		mg/L		115	80 - 120
Calcium	2.00	2.235		mg/L		112	80 - 120
Chromium	0.100	0.1161		mg/L		116	80 - 120
Cobalt	0.100	0.1195		mg/L		119	80 - 120
Selenium	0.400	0.4569		mg/L		114	80 - 120
Thallium	0.100	0.09317		mg/L		93	80 - 120

Lab Sample ID: LCS 310-466315/2-A

Matrix: Water

Analysis Batch: 467078

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466315

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.100	0.1201		mg/L		120	80 - 120
Lead	0.200	0.2247		mg/L		112	80 - 120

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QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-466315/2-A
Matrix: Water
Analysis Batch: 467205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466315

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.200	0.2331		mg/L		117	80 - 120
Molybdenum	0.200	0.2405		mg/L		120	80 - 120

Lab Sample ID: 310-315055-10 MS
Matrix: Water
Analysis Batch: 466916

Client Sample ID: MW16-GW-0925
Prep Type: Total/NA
Prep Batch: 466315

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00200		0.200	0.1940		mg/L		97	75 - 125
Arsenic	<0.00200		0.200	0.1854		mg/L		92	75 - 125
Barium	0.324		0.100	0.4246		mg/L		101	75 - 125
Beryllium	<0.00100		0.100	0.09777		mg/L		98	75 - 125
Boron	0.180		0.200	0.3646		mg/L		92	75 - 125
Cadmium	<0.000200		0.100	0.09335		mg/L		93	75 - 125
Calcium	133		2.00	138.5	4	mg/L		287	75 - 125
Chromium	<0.00500		0.100	0.09235		mg/L		92	75 - 125
Cobalt	0.00110		0.100	0.08975		mg/L		89	75 - 125
Lead	<0.000500		0.200	0.2034		mg/L		102	75 - 125
Lithium	0.0556		0.200	0.2436		mg/L		94	75 - 125
Molybdenum	<0.00200		0.200	0.2045		mg/L		102	75 - 125
Selenium	<0.00500		0.400	0.3800		mg/L		95	75 - 125
Thallium	<0.00100		0.100	0.09086		mg/L		91	75 - 125

Lab Sample ID: 310-315055-10 MSD
Matrix: Water
Analysis Batch: 466916

Client Sample ID: MW16-GW-0925
Prep Type: Total/NA
Prep Batch: 466315

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00200		0.200	0.1823		mg/L		91	75 - 125	6	20
Arsenic	<0.00200		0.200	0.1745		mg/L		87	75 - 125	6	20
Barium	0.324		0.100	0.4078		mg/L		84	75 - 125	4	20
Beryllium	<0.00100		0.100	0.09044		mg/L		90	75 - 125	8	20
Boron	0.180		0.200	0.3460		mg/L		83	75 - 125	5	20
Cadmium	<0.000200		0.100	0.08775		mg/L		88	75 - 125	6	20
Calcium	133		2.00	131.6	4	mg/L		-61	75 - 125	5	20
Chromium	<0.00500		0.100	0.08757		mg/L		88	75 - 125	5	20
Cobalt	0.00110		0.100	0.08463		mg/L		84	75 - 125	6	20
Lead	<0.000500		0.200	0.1910		mg/L		95	75 - 125	6	20
Lithium	0.0556		0.200	0.2301		mg/L		87	75 - 125	6	20
Molybdenum	<0.00200		0.200	0.1921		mg/L		96	75 - 125	6	20
Selenium	<0.00500		0.400	0.3586		mg/L		90	75 - 125	6	20
Thallium	<0.00100		0.100	0.09204		mg/L		92	75 - 125	1	20

Lab Sample ID: MB 310-466362/1-A
Matrix: Water
Analysis Batch: 466789

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200		mg/L		09/12/25 09:00	09/15/25 12:55	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 310-466362/1-A
Matrix: Water
Analysis Batch: 466789

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		09/12/25 09:00	09/15/25 12:55	1
Barium	<0.00200		0.00200		mg/L		09/12/25 09:00	09/15/25 12:55	1
Beryllium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/15/25 12:55	1
Boron	<0.100		0.100		mg/L		09/12/25 09:00	09/15/25 12:55	1
Cadmium	<0.000200		0.000200		mg/L		09/12/25 09:00	09/15/25 12:55	1
Calcium	<0.500		0.500		mg/L		09/12/25 09:00	09/15/25 12:55	1
Chromium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/15/25 12:55	1
Cobalt	<0.000500		0.000500		mg/L		09/12/25 09:00	09/15/25 12:55	1
Lead	<0.000500		0.000500		mg/L		09/12/25 09:00	09/15/25 12:55	1
Lithium	<0.0100		0.0100		mg/L		09/12/25 09:00	09/15/25 12:55	1
Selenium	<0.00500		0.00500		mg/L		09/12/25 09:00	09/15/25 12:55	1
Thallium	<0.00100		0.00100		mg/L		09/12/25 09:00	09/15/25 12:55	1

Lab Sample ID: MB 310-466362/1-A
Matrix: Water
Analysis Batch: 466875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	<0.00200		0.00200		mg/L		09/12/25 09:00	09/16/25 12:36	1

Lab Sample ID: LCS 310-466362/2-A
Matrix: Water
Analysis Batch: 466789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.1893		mg/L		95	80 - 120
Arsenic	0.200	0.1885		mg/L		94	80 - 120
Barium	0.100	0.08971		mg/L		90	80 - 120
Beryllium	0.100	0.09042		mg/L		90	80 - 120
Boron	0.200	0.2104		mg/L		105	80 - 120
Cadmium	0.100	0.09345		mg/L		93	80 - 120
Calcium	2.00	1.749		mg/L		87	80 - 120
Chromium	0.100	0.09392		mg/L		94	80 - 120
Cobalt	0.100	0.09260		mg/L		93	80 - 120
Lead	0.200	0.1926		mg/L		96	80 - 120
Lithium	0.200	0.1882		mg/L		94	80 - 120
Selenium	0.400	0.3616		mg/L		90	80 - 120
Thallium	0.100	0.09192		mg/L		92	80 - 120

Lab Sample ID: LCS 310-466362/2-A
Matrix: Water
Analysis Batch: 466875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	0.200	0.1956		mg/L		98	80 - 120

QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-466377/1-A
Matrix: Water
Analysis Batch: 466554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/11/25 12:35	09/12/25 11:28	1

Lab Sample ID: LCS 310-466377/2-A
Matrix: Water
Analysis Batch: 466554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466377

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.001762		mg/L		106	80 - 120

Lab Sample ID: MB 310-466697/1-A
Matrix: Water
Analysis Batch: 466848

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466697

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/15/25 15:55	09/16/25 09:35	1

Lab Sample ID: LCS 310-466697/2-A
Matrix: Water
Analysis Batch: 466848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466697

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.001623		mg/L		97	80 - 120

Lab Sample ID: 310-315055-10 MS
Matrix: Water
Analysis Batch: 466848

Client Sample ID: MW16-GW-0925
Prep Type: Total/NA
Prep Batch: 466697

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000200		0.00167	0.001662		mg/L		100	80 - 120

Lab Sample ID: 310-315055-10 MSD
Matrix: Water
Analysis Batch: 466848

Client Sample ID: MW16-GW-0925
Prep Type: Total/NA
Prep Batch: 466697

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000200		0.00167	0.001676		mg/L		101	80 - 120	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-465959/1
Matrix: Water
Analysis Batch: 465959

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0		mg/L			09/08/25 11:07	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 310-465959/2

Matrix: Water

Analysis Batch: 465959

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1012		mg/L		101	89 - 110

Lab Sample ID: MB 310-466114/1

Matrix: Water

Analysis Batch: 466114

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0		mg/L			09/09/25 12:35	1

Lab Sample ID: LCS 310-466114/2

Matrix: Water

Analysis Batch: 466114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1028		mg/L		103	89 - 110

Lab Sample ID: 310-315055-10 DU

Matrix: Water

Analysis Batch: 466114

Client Sample ID: MW16-GW-0925

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	748		622.0	F3	mg/L		18	13

Lab Sample ID: MB 310-466143/1

Matrix: Water

Analysis Batch: 466143

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0		mg/L			09/09/25 15:36	1

Lab Sample ID: LCS 310-466143/2

Matrix: Water

Analysis Batch: 466143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	982.0		mg/L		98	89 - 110

Lab Sample ID: MB 310-466309/1

Matrix: Water

Analysis Batch: 466309

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0		mg/L			09/10/25 16:27	1

Lab Sample ID: LCS 310-466309/2

Matrix: Water

Analysis Batch: 466309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1010		mg/L		101	89 - 110

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QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: 310-315055-12 DU
Matrix: Water
Analysis Batch: 466309

Client Sample ID: MW18-GW-0925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	830		838.0		mg/L		1	13

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 310-465881/1
Matrix: Water
Analysis Batch: 465881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		101	98 - 102

Lab Sample ID: LCS 310-465881/29
Matrix: Water
Analysis Batch: 465881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	98 - 102

Lab Sample ID: 310-315055-10 DU
Matrix: Water
Analysis Batch: 465881

Client Sample ID: MW16-GW-0925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	7.6	HF	7.6		SU		0.3	20

Lab Sample ID: 310-315055-12 DU
Matrix: Water
Analysis Batch: 465881

Client Sample ID: MW18-GW-0925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	7.6	HF	7.7		SU		0.6	20

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-735568/1-A
Matrix: Water
Analysis Batch: 739535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735568

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.275	U	0.157	0.157	1.00	0.275	pCi/L	09/11/25 08:13	10/07/25 23:37	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	89.3		30 - 110					09/11/25 08:13	10/07/25 23:37	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-735568/2-A
Matrix: Water
Analysis Batch: 739535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735568

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226		9.57	9.243		1.22	1.00	0.296	pCi/L	97	75 - 125		
	LCS	LCS										
Carrier	%Yield	Qualifier	Limits									
Barium	83.9		30 - 110									

Lab Sample ID: 310-315055-10 MS
Matrix: Water
Analysis Batch: 739713

Client Sample ID: MW16-GW-0925
Prep Type: Total/NA
Prep Batch: 735568

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.326		9.53	7.780		1.03	1.00	0.267	pCi/L	78	60 - 140		
	MS	MS											
Carrier	%Yield	Qualifier	Limits										
Barium	87.8		30 - 110										

Lab Sample ID: 310-315055-10 MSD
Matrix: Water
Analysis Batch: 739713

Client Sample ID: MW16-GW-0925
Prep Type: Total/NA
Prep Batch: 735568

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.326		9.52	7.893		1.04	1.00	0.269	pCi/L	79	60 - 140	0.05	1
	MSD	MSD											
Carrier	%Yield	Qualifier	Limits										
Barium	89.5		30 - 110										

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-735570/1-A
Matrix: Water
Analysis Batch: 739538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735570

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.882	U	0.505	0.506	1.00	0.882	pCi/L	09/11/25 08:18	10/07/25 14:19	1
	MB	MB								
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	89.3		30 - 110					09/11/25 08:18	10/07/25 14:19	1
Y Carrier	86.4		30 - 110					09/11/25 08:18	10/07/25 14:19	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-735570/2-A
Matrix: Water
Analysis Batch: 739538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735570

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.00	10.58		1.41	1.00	0.565	pCi/L	117	75 - 125		
		LCS	LCS										
Carrier	%Yield	Qualifier	Limits										
Barium	83.9		30 - 110										
Y Carrier	86.0		30 - 110										

Lab Sample ID: 310-315055-10 MS
Matrix: Water
Analysis Batch: 739562

Client Sample ID: MW16-GW-0925
Prep Type: Total/NA
Prep Batch: 735570

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	0.758		8.96	8.806		1.22	1.00	0.518	pCi/L	90	60 - 140		
		MS	MS										
Carrier	%Yield	Qualifier	Limits										
Barium	87.8		30 - 110										
Y Carrier	84.9		30 - 110										

Lab Sample ID: 310-315055-10 MSD
Matrix: Water
Analysis Batch: 739562

Client Sample ID: MW16-GW-0925
Prep Type: Total/NA
Prep Batch: 735570

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	0.758		8.95	7.799		1.11	1.00	0.514	pCi/L	79	60 - 140	0.43	1
		MSD	MSD										
Carrier	%Yield	Qualifier	Limits										
Barium	89.5		30 - 110										
Y Carrier	88.2		30 - 110										

Lab Sample ID: MB 160-739903/1-A
Matrix: Water
Analysis Batch: 740386

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 739903

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.564	U	0.327	0.327	1.00	0.564	pCi/L	10/09/25 07:56	10/13/25 11:58	1
		MB	MB							
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	88.1		30 - 110					10/09/25 07:56	10/13/25 11:58	1
Y Carrier	83.7		30 - 110					10/09/25 07:56	10/13/25 11:58	1

Eurofins Cedar Falls

QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-739903/2-A
Matrix: Water
Analysis Batch: 740386

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 739903

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228		8.02	8.816		1.23	1.00	0.449	pCi/L	110	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Barium	89.8		30 - 110							
Y Carrier	80.7		30 - 110							

QC Association Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

HPLC/IC

Analysis Batch: 466942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-1	MW02-GW-0925	Total/NA	Water	9056A	
310-315055-2	MW04-GW-0925	Total/NA	Water	9056A	
310-315055-3	MW08-GW-0925	Total/NA	Water	9056A	
310-315055-4	MW10-GW-0925	Total/NA	Water	9056A	
310-315055-5	MW11-GW-0925	Total/NA	Water	9056A	
310-315055-6	MW12-GW-0925	Total/NA	Water	9056A	
310-315055-7	MW13-GW-0925	Total/NA	Water	9056A	
310-315055-8	MW14-GW-0925	Total/NA	Water	9056A	
310-315055-9	MW15-GW-0925	Total/NA	Water	9056A	
310-315055-10	MW16-GW-0925	Total/NA	Water	9056A	
310-315055-11	MW17-GW-0925	Total/NA	Water	9056A	
MB 310-466942/3	Method Blank	Total/NA	Water	9056A	
LCS 310-466942/4	Lab Control Sample	Total/NA	Water	9056A	
310-315055-10 MS	MW16-GW-0925	Total/NA	Water	9056A	
310-315055-10 MSD	MW16-GW-0925	Total/NA	Water	9056A	

Analysis Batch: 467026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-12	MW18-GW-0925	Total/NA	Water	9056A	
310-315055-13	MW19-GW-0925	Total/NA	Water	9056A	
310-315055-14	MW20-GW-0925	Total/NA	Water	9056A	
310-315055-15	MW21-GW-0925	Total/NA	Water	9056A	
310-315055-16	DP01-GW-0925	Total/NA	Water	9056A	
MB 310-467026/3	Method Blank	Total/NA	Water	9056A	
LCS 310-467026/4	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 466315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-1	MW02-GW-0925	Total/NA	Water	3005A	
310-315055-2	MW04-GW-0925	Total/NA	Water	3005A	
310-315055-3	MW08-GW-0925	Total/NA	Water	3005A	
310-315055-4	MW10-GW-0925	Total/NA	Water	3005A	
310-315055-5	MW11-GW-0925	Total/NA	Water	3005A	
310-315055-6	MW12-GW-0925	Total/NA	Water	3005A	
310-315055-7	MW13-GW-0925	Total/NA	Water	3005A	
310-315055-8	MW14-GW-0925	Total/NA	Water	3005A	
310-315055-9	MW15-GW-0925	Total/NA	Water	3005A	
310-315055-10	MW16-GW-0925	Total/NA	Water	3005A	
310-315055-11	MW17-GW-0925	Total/NA	Water	3005A	
310-315055-12	MW18-GW-0925	Total/NA	Water	3005A	
310-315055-13	MW19-GW-0925	Total/NA	Water	3005A	
310-315055-14	MW20-GW-0925	Total/NA	Water	3005A	
310-315055-15	MW21-GW-0925	Total/NA	Water	3005A	
MB 310-466315/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-466315/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-315055-10 MS	MW16-GW-0925	Total/NA	Water	3005A	
310-315055-10 MSD	MW16-GW-0925	Total/NA	Water	3005A	

QC Association Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Metals

Prep Batch: 466362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-16	DP01-GW-0925	Total/NA	Water	3005A	
MB 310-466362/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-466362/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 466377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-1	MW02-GW-0925	Total/NA	Water	7470A	
310-315055-2	MW04-GW-0925	Total/NA	Water	7470A	
310-315055-3	MW08-GW-0925	Total/NA	Water	7470A	
310-315055-4	MW10-GW-0925	Total/NA	Water	7470A	
310-315055-5	MW11-GW-0925	Total/NA	Water	7470A	
310-315055-6	MW12-GW-0925	Total/NA	Water	7470A	
MB 310-466377/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-466377/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 466554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-1	MW02-GW-0925	Total/NA	Water	7470A	466377
310-315055-2	MW04-GW-0925	Total/NA	Water	7470A	466377
310-315055-3	MW08-GW-0925	Total/NA	Water	7470A	466377
310-315055-4	MW10-GW-0925	Total/NA	Water	7470A	466377
310-315055-5	MW11-GW-0925	Total/NA	Water	7470A	466377
310-315055-6	MW12-GW-0925	Total/NA	Water	7470A	466377
MB 310-466377/1-A	Method Blank	Total/NA	Water	7470A	466377
LCS 310-466377/2-A	Lab Control Sample	Total/NA	Water	7470A	466377

Prep Batch: 466697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-7	MW13-GW-0925	Total/NA	Water	7470A	
310-315055-8	MW14-GW-0925	Total/NA	Water	7470A	
310-315055-9	MW15-GW-0925	Total/NA	Water	7470A	
310-315055-10	MW16-GW-0925	Total/NA	Water	7470A	
310-315055-11	MW17-GW-0925	Total/NA	Water	7470A	
310-315055-12	MW18-GW-0925	Total/NA	Water	7470A	
310-315055-13	MW19-GW-0925	Total/NA	Water	7470A	
310-315055-14	MW20-GW-0925	Total/NA	Water	7470A	
310-315055-15	MW21-GW-0925	Total/NA	Water	7470A	
310-315055-16	DP01-GW-0925	Total/NA	Water	7470A	
MB 310-466697/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-466697/2-A	Lab Control Sample	Total/NA	Water	7470A	
310-315055-10 MS	MW16-GW-0925	Total/NA	Water	7470A	
310-315055-10 MSD	MW16-GW-0925	Total/NA	Water	7470A	

Analysis Batch: 466789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-16	DP01-GW-0925	Total/NA	Water	6020B	466362
MB 310-466362/1-A	Method Blank	Total/NA	Water	6020B	466362
LCS 310-466362/2-A	Lab Control Sample	Total/NA	Water	6020B	466362

QC Association Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Metals

Analysis Batch: 466848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-7	MW13-GW-0925	Total/NA	Water	7470A	466697
310-315055-8	MW14-GW-0925	Total/NA	Water	7470A	466697
310-315055-9	MW15-GW-0925	Total/NA	Water	7470A	466697
310-315055-10	MW16-GW-0925	Total/NA	Water	7470A	466697
310-315055-11	MW17-GW-0925	Total/NA	Water	7470A	466697
310-315055-12	MW18-GW-0925	Total/NA	Water	7470A	466697
310-315055-13	MW19-GW-0925	Total/NA	Water	7470A	466697
310-315055-14	MW20-GW-0925	Total/NA	Water	7470A	466697
310-315055-15	MW21-GW-0925	Total/NA	Water	7470A	466697
310-315055-16	DP01-GW-0925	Total/NA	Water	7470A	466697
MB 310-466697/1-A	Method Blank	Total/NA	Water	7470A	466697
LCS 310-466697/2-A	Lab Control Sample	Total/NA	Water	7470A	466697
310-315055-10 MS	MW16-GW-0925	Total/NA	Water	7470A	466697
310-315055-10 MSD	MW16-GW-0925	Total/NA	Water	7470A	466697

Analysis Batch: 466875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-16	DP01-GW-0925	Total/NA	Water	6020B	466362
MB 310-466362/1-A	Method Blank	Total/NA	Water	6020B	466362
LCS 310-466362/2-A	Lab Control Sample	Total/NA	Water	6020B	466362

Analysis Batch: 466916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-1	MW02-GW-0925	Total/NA	Water	6020B	466315
310-315055-2	MW04-GW-0925	Total/NA	Water	6020B	466315
310-315055-3	MW08-GW-0925	Total/NA	Water	6020B	466315
310-315055-4	MW10-GW-0925	Total/NA	Water	6020B	466315
310-315055-5	MW11-GW-0925	Total/NA	Water	6020B	466315
310-315055-6	MW12-GW-0925	Total/NA	Water	6020B	466315
310-315055-7	MW13-GW-0925	Total/NA	Water	6020B	466315
310-315055-8	MW14-GW-0925	Total/NA	Water	6020B	466315
310-315055-9	MW15-GW-0925	Total/NA	Water	6020B	466315
310-315055-10	MW16-GW-0925	Total/NA	Water	6020B	466315
310-315055-11	MW17-GW-0925	Total/NA	Water	6020B	466315
310-315055-12	MW18-GW-0925	Total/NA	Water	6020B	466315
310-315055-13	MW19-GW-0925	Total/NA	Water	6020B	466315
310-315055-14	MW20-GW-0925	Total/NA	Water	6020B	466315
310-315055-15	MW21-GW-0925	Total/NA	Water	6020B	466315
MB 310-466315/1-A	Method Blank	Total/NA	Water	6020B	466315
LCS 310-466315/2-A	Lab Control Sample	Total/NA	Water	6020B	466315
310-315055-10 MS	MW16-GW-0925	Total/NA	Water	6020B	466315
310-315055-10 MSD	MW16-GW-0925	Total/NA	Water	6020B	466315

Analysis Batch: 467078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-466315/1-A	Method Blank	Total/NA	Water	6020B	466315
LCS 310-466315/2-A	Lab Control Sample	Total/NA	Water	6020B	466315

Analysis Batch: 467205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-466315/1-A	Method Blank	Total/NA	Water	6020B	466315

Eurofins Cedar Falls

QC Association Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Metals (Continued)

Analysis Batch: 467205 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-466315/2-A	Lab Control Sample	Total/NA	Water	6020B	466315

General Chemistry

Analysis Batch: 465881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-1	MW02-GW-0925	Total/NA	Water	SM 4500 H+ B	
310-315055-2	MW04-GW-0925	Total/NA	Water	SM 4500 H+ B	
310-315055-3	MW08-GW-0925	Total/NA	Water	SM 4500 H+ B	
310-315055-4	MW10-GW-0925	Total/NA	Water	SM 4500 H+ B	
310-315055-5	MW11-GW-0925	Total/NA	Water	SM 4500 H+ B	
310-315055-6	MW12-GW-0925	Total/NA	Water	SM 4500 H+ B	
310-315055-7	MW13-GW-0925	Total/NA	Water	SM 4500 H+ B	
310-315055-8	MW14-GW-0925	Total/NA	Water	SM 4500 H+ B	
310-315055-9	MW15-GW-0925	Total/NA	Water	SM 4500 H+ B	
310-315055-10	MW16-GW-0925	Total/NA	Water	SM 4500 H+ B	
310-315055-11	MW17-GW-0925	Total/NA	Water	SM 4500 H+ B	
310-315055-12	MW18-GW-0925	Total/NA	Water	SM 4500 H+ B	
310-315055-13	MW19-GW-0925	Total/NA	Water	SM 4500 H+ B	
310-315055-14	MW20-GW-0925	Total/NA	Water	SM 4500 H+ B	
310-315055-15	MW21-GW-0925	Total/NA	Water	SM 4500 H+ B	
310-315055-16	DP01-GW-0925	Total/NA	Water	SM 4500 H+ B	
LCS 310-465881/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCS 310-465881/29	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
310-315055-10 DU	MW16-GW-0925	Total/NA	Water	SM 4500 H+ B	
310-315055-12 DU	MW18-GW-0925	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 465959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-1	MW02-GW-0925	Total/NA	Water	SM 2540C	
310-315055-4	MW10-GW-0925	Total/NA	Water	SM 2540C	
310-315055-5	MW11-GW-0925	Total/NA	Water	SM 2540C	
310-315055-6	MW12-GW-0925	Total/NA	Water	SM 2540C	
310-315055-7	MW13-GW-0925	Total/NA	Water	SM 2540C	
MB 310-465959/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-465959/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 466114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-8	MW14-GW-0925	Total/NA	Water	SM 2540C	
310-315055-10	MW16-GW-0925	Total/NA	Water	SM 2540C	
310-315055-13	MW19-GW-0925	Total/NA	Water	SM 2540C	
310-315055-15	MW21-GW-0925	Total/NA	Water	SM 2540C	
310-315055-16	DP01-GW-0925	Total/NA	Water	SM 2540C	
MB 310-466114/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-466114/2	Lab Control Sample	Total/NA	Water	SM 2540C	
310-315055-10 DU	MW16-GW-0925	Total/NA	Water	SM 2540C	

Analysis Batch: 466143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-14	MW20-GW-0925	Total/NA	Water	SM 2540C	

Eurofins Cedar Falls

QC Association Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

General Chemistry (Continued)

Analysis Batch: 466143 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-466143/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-466143/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 466309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-2	MW04-GW-0925	Total/NA	Water	SM 2540C	
310-315055-3	MW08-GW-0925	Total/NA	Water	SM 2540C	
310-315055-9	MW15-GW-0925	Total/NA	Water	SM 2540C	
310-315055-11	MW17-GW-0925	Total/NA	Water	SM 2540C	
310-315055-12	MW18-GW-0925	Total/NA	Water	SM 2540C	
MB 310-466309/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-466309/2	Lab Control Sample	Total/NA	Water	SM 2540C	
310-315055-12 DU	MW18-GW-0925	Total/NA	Water	SM 2540C	

Rad

Prep Batch: 735568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-1	MW02-GW-0925	Total/NA	Water	PrecSep-21	
310-315055-2	MW04-GW-0925	Total/NA	Water	PrecSep-21	
310-315055-3	MW08-GW-0925	Total/NA	Water	PrecSep-21	
310-315055-4	MW10-GW-0925	Total/NA	Water	PrecSep-21	
310-315055-5	MW11-GW-0925	Total/NA	Water	PrecSep-21	
310-315055-6	MW12-GW-0925	Total/NA	Water	PrecSep-21	
310-315055-7	MW13-GW-0925	Total/NA	Water	PrecSep-21	
310-315055-8	MW14-GW-0925	Total/NA	Water	PrecSep-21	
310-315055-9	MW15-GW-0925	Total/NA	Water	PrecSep-21	
310-315055-10	MW16-GW-0925	Total/NA	Water	PrecSep-21	
310-315055-11	MW17-GW-0925	Total/NA	Water	PrecSep-21	
310-315055-12	MW18-GW-0925	Total/NA	Water	PrecSep-21	
310-315055-13	MW19-GW-0925	Total/NA	Water	PrecSep-21	
310-315055-14	MW20-GW-0925	Total/NA	Water	PrecSep-21	
310-315055-15	MW21-GW-0925	Total/NA	Water	PrecSep-21	
310-315055-16	DP01-GW-0925	Total/NA	Water	PrecSep-21	
MB 160-735568/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-735568/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
310-315055-10 MS	MW16-GW-0925	Total/NA	Water	PrecSep-21	
310-315055-10 MSD	MW16-GW-0925	Total/NA	Water	PrecSep-21	

Prep Batch: 735570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-2	MW04-GW-0925	Total/NA	Water	PrecSep_0	
310-315055-3	MW08-GW-0925	Total/NA	Water	PrecSep_0	
310-315055-4	MW10-GW-0925	Total/NA	Water	PrecSep_0	
310-315055-5	MW11-GW-0925	Total/NA	Water	PrecSep_0	
310-315055-6	MW12-GW-0925	Total/NA	Water	PrecSep_0	
310-315055-7	MW13-GW-0925	Total/NA	Water	PrecSep_0	
310-315055-8	MW14-GW-0925	Total/NA	Water	PrecSep_0	
310-315055-9	MW15-GW-0925	Total/NA	Water	PrecSep_0	
310-315055-10	MW16-GW-0925	Total/NA	Water	PrecSep_0	
310-315055-11	MW17-GW-0925	Total/NA	Water	PrecSep_0	

Eurofins Cedar Falls

QC Association Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Rad (Continued)

Prep Batch: 735570 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-13	MW19-GW-0925	Total/NA	Water	PrecSep_0	
310-315055-14	MW20-GW-0925	Total/NA	Water	PrecSep_0	
310-315055-15	MW21-GW-0925	Total/NA	Water	PrecSep_0	
MB 160-735570/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-735570/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
310-315055-10 MS	MW16-GW-0925	Total/NA	Water	PrecSep_0	
310-315055-10 MSD	MW16-GW-0925	Total/NA	Water	PrecSep_0	

Prep Batch: 739903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315055-1	MW02-GW-0925	Total/NA	Water	PrecSep_0	
310-315055-12	MW18-GW-0925	Total/NA	Water	PrecSep_0	
310-315055-16	DP01-GW-0925	Total/NA	Water	PrecSep_0	
MB 160-739903/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-739903/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW02-GW-0925

Lab Sample ID: 310-315055-1

Date Collected: 09/03/25 09:45

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	466942	QTZ5	EET CF	09/16/25 22:32
Total/NA	Prep	3005A			466315	QTZ5	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466916	NFT2	EET CF	09/16/25 15:36
Total/NA	Prep	7470A			466377	RLT9	EET CF	09/11/25 12:35
Total/NA	Analysis	7470A		1	466554	RLT9	EET CF	09/12/25 12:11
Total/NA	Analysis	SM 2540C		1	465959	ENB7	EET CF	09/08/25 11:07
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 02:50
Total/NA	Prep	PrecSep-21			735568	JTR	EET SL	09/11/25 08:13
Total/NA	Analysis	9315		1	739694	SWS	EET SL	10/08/25 07:32
Total/NA	Prep	PrecSep_0			739903	AS	EET SL	10/09/25 07:56
Total/NA	Analysis	9320		1	740386	SWS	EET SL	10/13/25 11:58
Total/NA	Analysis	Ra226_Ra228		1	740444	CMM	EET SL	10/13/25 17:58

Client Sample ID: MW04-GW-0925

Lab Sample ID: 310-315055-2

Date Collected: 09/04/25 10:20

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	466942	QTZ5	EET CF	09/16/25 22:43
Total/NA	Prep	3005A			466315	QTZ5	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466916	NFT2	EET CF	09/16/25 15:39
Total/NA	Prep	7470A			466377	RLT9	EET CF	09/11/25 12:35
Total/NA	Analysis	7470A		1	466554	RLT9	EET CF	09/12/25 12:13
Total/NA	Analysis	SM 2540C		1	466309	ENB7	EET CF	09/10/25 16:27
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 03:52
Total/NA	Prep	PrecSep-21			735568	JTR	EET SL	09/11/25 08:13
Total/NA	Analysis	9315		1	739694	SWS	EET SL	10/08/25 07:32
Total/NA	Prep	PrecSep_0			735570	JTR	EET SL	09/11/25 08:18
Total/NA	Analysis	9320		1	739538	SCB	EET SL	10/07/25 09:48
Total/NA	Analysis	Ra226_Ra228		1	739768	SCB	EET SL	10/08/25 14:17

Client Sample ID: MW08-GW-0925

Lab Sample ID: 310-315055-3

Date Collected: 09/04/25 08:15

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	466942	QTZ5	EET CF	09/16/25 22:54
Total/NA	Prep	3005A			466315	QTZ5	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466916	NFT2	EET CF	09/16/25 15:42
Total/NA	Prep	7470A			466377	RLT9	EET CF	09/11/25 12:35
Total/NA	Analysis	7470A		1	466554	RLT9	EET CF	09/12/25 12:19
Total/NA	Analysis	SM 2540C		1	466309	ENB7	EET CF	09/10/25 16:27
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 02:04

Eurofins Cedar Falls

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW08-GW-0925

Lab Sample ID: 310-315055-3

Date Collected: 09/04/25 08:15

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			735568	JTR	EET SL	09/11/25 08:13
Total/NA	Analysis	9315		1	739694	SWS	EET SL	10/08/25 07:33
Total/NA	Prep	PrecSep_0			735570	JTR	EET SL	09/11/25 08:18
Total/NA	Analysis	9320		1	739538	SCB	EET SL	10/07/25 09:48
Total/NA	Analysis	Ra226_Ra228		1	739768	SCB	EET SL	10/08/25 14:17

Client Sample ID: MW10-GW-0925

Lab Sample ID: 310-315055-4

Date Collected: 09/03/25 18:15

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	466942	QTZ5	EET CF	09/16/25 23:05
Total/NA	Prep	3005A			466315	QTZ5	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466916	NFT2	EET CF	09/16/25 15:44
Total/NA	Prep	7470A			466377	RLT9	EET CF	09/11/25 12:35
Total/NA	Analysis	7470A		1	466554	RLT9	EET CF	09/12/25 12:22
Total/NA	Analysis	SM 2540C		1	465959	ENB7	EET CF	09/08/25 11:07
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 02:09
Total/NA	Prep	PrecSep-21			735568	JTR	EET SL	09/11/25 08:13
Total/NA	Analysis	9315		1	739694	SWS	EET SL	10/08/25 07:33
Total/NA	Prep	PrecSep_0			735570	JTR	EET SL	09/11/25 08:18
Total/NA	Analysis	9320		1	739538	SCB	EET SL	10/07/25 09:48
Total/NA	Analysis	Ra226_Ra228		1	739768	SCB	EET SL	10/08/25 14:17

Client Sample ID: MW11-GW-0925

Lab Sample ID: 310-315055-5

Date Collected: 09/03/25 14:30

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	466942	QTZ5	EET CF	09/16/25 23:16
Total/NA	Prep	3005A			466315	QTZ5	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466916	NFT2	EET CF	09/16/25 15:53
Total/NA	Prep	7470A			466377	RLT9	EET CF	09/11/25 12:35
Total/NA	Analysis	7470A		1	466554	RLT9	EET CF	09/12/25 12:24
Total/NA	Analysis	SM 2540C		1	465959	ENB7	EET CF	09/08/25 11:07
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 01:36
Total/NA	Prep	PrecSep-21			735568	JTR	EET SL	09/11/25 08:13
Total/NA	Analysis	9315		1	739694	SWS	EET SL	10/08/25 07:33
Total/NA	Prep	PrecSep_0			735570	JTR	EET SL	09/11/25 08:18
Total/NA	Analysis	9320		1	739538	SCB	EET SL	10/07/25 09:48
Total/NA	Analysis	Ra226_Ra228		1	739768	SCB	EET SL	10/08/25 14:17

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW12-GW-0925

Lab Sample ID: 310-315055-6

Date Collected: 09/03/25 15:10

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	466942	QTZ5	EET CF	09/16/25 23:27
Total/NA	Prep	3005A			466315	QTZ5	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466916	NFT2	EET CF	09/16/25 15:56
Total/NA	Prep	7470A			466377	RLT9	EET CF	09/11/25 12:35
Total/NA	Analysis	7470A		1	466554	RLT9	EET CF	09/12/25 12:26
Total/NA	Analysis	SM 2540C		1	465959	ENB7	EET CF	09/08/25 11:07
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 03:23
Total/NA	Prep	PrecSep-21			735568	JTR	EET SL	09/11/25 08:13
Total/NA	Analysis	9315		1	739713	SWS	EET SL	10/08/25 07:41
Total/NA	Prep	PrecSep_0			735570	JTR	EET SL	09/11/25 08:18
Total/NA	Analysis	9320		1	739538	SCB	EET SL	10/07/25 09:48
Total/NA	Analysis	Ra226_Ra228		1	739768	SCB	EET SL	10/08/25 14:17

Client Sample ID: MW13-GW-0925

Lab Sample ID: 310-315055-7

Date Collected: 09/03/25 16:15

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	466942	QTZ5	EET CF	09/16/25 23:39
Total/NA	Prep	3005A			466315	QTZ5	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466916	NFT2	EET CF	09/16/25 15:59
Total/NA	Prep	7470A			466697	RLT9	EET CF	09/15/25 15:55
Total/NA	Analysis	7470A		1	466848	RLT9	EET CF	09/16/25 09:45
Total/NA	Analysis	SM 2540C		1	465959	ENB7	EET CF	09/08/25 11:07
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 02:00
Total/NA	Prep	PrecSep-21			735568	JTR	EET SL	09/11/25 08:13
Total/NA	Analysis	9315		1	739713	SWS	EET SL	10/08/25 07:41
Total/NA	Prep	PrecSep_0			735570	JTR	EET SL	09/11/25 08:18
Total/NA	Analysis	9320		1	739562	SWS	EET SL	10/07/25 09:46
Total/NA	Analysis	Ra226_Ra228		1	739768	SCB	EET SL	10/08/25 14:17

Client Sample ID: MW14-GW-0925

Lab Sample ID: 310-315055-8

Date Collected: 09/03/25 13:30

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	466942	QTZ5	EET CF	09/16/25 23:50
Total/NA	Prep	3005A			466315	QTZ5	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466916	NFT2	EET CF	09/16/25 16:01
Total/NA	Prep	7470A			466697	RLT9	EET CF	09/15/25 15:55
Total/NA	Analysis	7470A		1	466848	RLT9	EET CF	09/16/25 09:47
Total/NA	Analysis	SM 2540C		1	466114	HE7K	EET CF	09/09/25 12:35
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 01:00

Eurofins Cedar Falls

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW14-GW-0925

Lab Sample ID: 310-315055-8

Date Collected: 09/03/25 13:30

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			735568	JTR	EET SL	09/11/25 08:13
Total/NA	Analysis	9315		1	739713	SWS	EET SL	10/08/25 07:41
Total/NA	Prep	PrecSep_0			735570	JTR	EET SL	09/11/25 08:18
Total/NA	Analysis	9320		1	739562	SWS	EET SL	10/07/25 09:46
Total/NA	Analysis	Ra226_Ra228		1	739768	SCB	EET SL	10/08/25 14:17

Client Sample ID: MW15-GW-0925

Lab Sample ID: 310-315055-9

Date Collected: 09/04/25 09:15

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	466942	QTZ5	EET CF	09/17/25 00:01
Total/NA	Prep	3005A			466315	QTZ5	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466916	NFT2	EET CF	09/16/25 16:04
Total/NA	Prep	7470A			466697	RLT9	EET CF	09/15/25 15:55
Total/NA	Analysis	7470A		1	466848	RLT9	EET CF	09/16/25 09:49
Total/NA	Analysis	SM 2540C		1	466309	ENB7	EET CF	09/10/25 16:27
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 01:09
Total/NA	Prep	PrecSep-21			735568	JTR	EET SL	09/11/25 08:13
Total/NA	Analysis	9315		1	739713	SWS	EET SL	10/08/25 07:41
Total/NA	Prep	PrecSep_0			735570	JTR	EET SL	09/11/25 08:18
Total/NA	Analysis	9320		1	739562	SWS	EET SL	10/07/25 09:47
Total/NA	Analysis	Ra226_Ra228		1	739768	SCB	EET SL	10/08/25 14:17

Client Sample ID: MW16-GW-0925

Lab Sample ID: 310-315055-10

Date Collected: 09/03/25 08:45

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	466942	QTZ5	EET CF	09/17/25 00:34
Total/NA	Prep	3005A			466315	QTZ5	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466916	NFT2	EET CF	09/16/25 16:07
Total/NA	Prep	7470A			466697	RLT9	EET CF	09/15/25 15:55
Total/NA	Analysis	7470A		1	466848	RLT9	EET CF	09/16/25 09:39
Total/NA	Analysis	SM 2540C		1	466114	HE7K	EET CF	09/09/25 12:35
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 00:47
Total/NA	Prep	PrecSep-21			735568	JTR	EET SL	09/11/25 08:13
Total/NA	Analysis	9315		1	739713	SWS	EET SL	10/08/25 07:41
Total/NA	Prep	PrecSep_0			735570	JTR	EET SL	09/11/25 08:18
Total/NA	Analysis	9320		1	739562	SWS	EET SL	10/07/25 09:47
Total/NA	Analysis	Ra226_Ra228		1	739768	SCB	EET SL	10/08/25 14:17

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW17-GW-0925

Lab Sample ID: 310-315055-11

Date Collected: 09/04/25 08:30

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	466942	QTZ5	EET CF	09/17/25 01:07
Total/NA	Prep	3005A			466315	QTZ5	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466916	NFT2	EET CF	09/16/25 16:18
Total/NA	Prep	7470A			466697	RLT9	EET CF	09/15/25 15:55
Total/NA	Analysis	7470A		1	466848	RLT9	EET CF	09/16/25 09:56
Total/NA	Analysis	SM 2540C		1	466309	ENB7	EET CF	09/10/25 16:27
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 02:45
Total/NA	Prep	PrecSep-21			735568	JTR	EET SL	09/11/25 08:13
Total/NA	Analysis	9315		1	739713	SWS	EET SL	10/08/25 07:42
Total/NA	Prep	PrecSep_0			735570	JTR	EET SL	09/11/25 08:18
Total/NA	Analysis	9320		1	739548	SWS	EET SL	10/07/25 14:18
Total/NA	Analysis	Ra226_Ra228		1	739768	SCB	EET SL	10/08/25 14:17

Client Sample ID: MW18-GW-0925

Lab Sample ID: 310-315055-12

Date Collected: 09/04/25 10:25

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/16/25 19:17
Total/NA	Prep	3005A			466315	QTZ5	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466916	NFT2	EET CF	09/16/25 16:27
Total/NA	Prep	7470A			466697	RLT9	EET CF	09/15/25 15:55
Total/NA	Analysis	7470A		1	466848	RLT9	EET CF	09/16/25 09:58
Total/NA	Analysis	SM 2540C		1	466309	ENB7	EET CF	09/10/25 16:27
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 03:30
Total/NA	Prep	PrecSep-21			735568	JTR	EET SL	09/11/25 08:13
Total/NA	Analysis	9315		1	739713	SWS	EET SL	10/08/25 07:42
Total/NA	Prep	PrecSep_0			739903	AS	EET SL	10/09/25 07:56
Total/NA	Analysis	9320		1	740386	SWS	EET SL	10/13/25 11:58
Total/NA	Analysis	Ra226_Ra228		1	740444	CMM	EET SL	10/13/25 17:58

Client Sample ID: MW19-GW-0925

Lab Sample ID: 310-315055-13

Date Collected: 09/03/25 12:25

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/16/25 19:30
Total/NA	Prep	3005A			466315	QTZ5	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466916	NFT2	EET CF	09/16/25 16:30
Total/NA	Prep	7470A			466697	RLT9	EET CF	09/15/25 15:55
Total/NA	Analysis	7470A		1	466848	RLT9	EET CF	09/16/25 10:00
Total/NA	Analysis	SM 2540C		1	466114	HE7K	EET CF	09/09/25 12:35
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 01:47

Eurofins Cedar Falls

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: MW19-GW-0925

Lab Sample ID: 310-315055-13

Date Collected: 09/03/25 12:25

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			735568	JTR	EET SL	09/11/25 08:13
Total/NA	Analysis	9315		1	739713	SWS	EET SL	10/08/25 07:42
Total/NA	Prep	PrecSep_0			735570	JTR	EET SL	09/11/25 08:18
Total/NA	Analysis	9320		1	739548	SWS	EET SL	10/07/25 14:17
Total/NA	Analysis	Ra226_Ra228		1	739768	SCB	EET SL	10/08/25 14:17

Client Sample ID: MW20-GW-0925

Lab Sample ID: 310-315055-14

Date Collected: 09/03/25 11:15

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/16/25 19:44
Total/NA	Prep	3005A			466315	QTZ5	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466916	NFT2	EET CF	09/16/25 16:32
Total/NA	Prep	7470A			466697	RLT9	EET CF	09/15/25 15:55
Total/NA	Analysis	7470A		1	466848	RLT9	EET CF	09/16/25 10:02
Total/NA	Analysis	SM 2540C		1	466143	HE7K	EET CF	09/09/25 15:36
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 03:39
Total/NA	Prep	PrecSep-21			735568	JTR	EET SL	09/11/25 08:13
Total/NA	Analysis	9315		1	739713	SWS	EET SL	10/08/25 07:42
Total/NA	Prep	PrecSep_0			735570	JTR	EET SL	09/11/25 08:18
Total/NA	Analysis	9320		1	739562	SWS	EET SL	10/07/25 09:48
Total/NA	Analysis	Ra226_Ra228		1	739768	SCB	EET SL	10/08/25 14:17

Client Sample ID: MW21-GW-0925

Lab Sample ID: 310-315055-15

Date Collected: 09/03/25 17:05

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/16/25 19:57
Total/NA	Prep	3005A			466315	QTZ5	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466916	NFT2	EET CF	09/16/25 16:35
Total/NA	Prep	7470A			466697	RLT9	EET CF	09/15/25 15:55
Total/NA	Analysis	7470A		1	466848	RLT9	EET CF	09/16/25 10:04
Total/NA	Analysis	SM 2540C		1	466114	HE7K	EET CF	09/09/25 12:35
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 02:28
Total/NA	Prep	PrecSep-21			735568	JTR	EET SL	09/11/25 08:13
Total/NA	Analysis	9315		1	739713	SWS	EET SL	10/08/25 07:42
Total/NA	Prep	PrecSep_0			735570	JTR	EET SL	09/11/25 08:18
Total/NA	Analysis	9320		1	739548	SWS	EET SL	10/07/25 14:17
Total/NA	Analysis	Ra226_Ra228		1	739768	SCB	EET SL	10/08/25 14:17

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Client Sample ID: DP01-GW-0925

Lab Sample ID: 310-315055-16

Date Collected: 09/03/25 00:00

Matrix: Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/16/25 20:11
Total/NA	Prep	3005A			466362	WK2X	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466789	NFT2	EET CF	09/15/25 13:41
Total/NA	Prep	3005A			466362	WK2X	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466875	NFT2	EET CF	09/16/25 13:24
Total/NA	Prep	7470A			466697	RLT9	EET CF	09/15/25 15:55
Total/NA	Analysis	7470A		1	466848	RLT9	EET CF	09/16/25 10:07
Total/NA	Analysis	SM 2540C		1	466114	HE7K	EET CF	09/09/25 12:35
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 01:52
Total/NA	Prep	PrecSep-21			735568	JTR	EET SL	09/11/25 08:13
Total/NA	Analysis	9315		1	739713	SWS	EET SL	10/08/25 07:42
Total/NA	Prep	PrecSep_0			739903	AS	EET SL	10/09/25 07:56
Total/NA	Analysis	9320		1	740386	SWS	EET SL	10/13/25 11:58
Total/NA	Analysis	Ra226_Ra228		1	740444	CMM	EET SL	10/13/25 17:58

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020B	3005A	Water	Lithium

Laboratory: Eurofins St. Louis

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	373	12-01-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9315	PrecSep-21	Water	Radium-226
9320	PrecSep_0	Water	Radium-228
Ra226_Ra228		Water	Combined Radium 226 + 228

Method Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CF
SM 4500 H+ B	pH	SM	EET CF
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
3005A	Preparation, Total Metals	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Cooler/Sample Receipt and Temperature Log Form

Information			
Client: <u>GHD Services</u>			
City/State	CITY	STATE	Project:
Receipt Information			
Date/Time Received.	DATE <u>9/5/25</u>	TIME <u>1645</u>	Received By <u>SA</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes: Cooler ID:			
Multiple Coolers? ☒ Yes ☐ No If yes: Cooler # <u>1</u> of <u>5</u>			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes: Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes: Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☐ Yes ☒ No If yes: Which VOA samples are in cooler? ↓			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: ☐ NONE			
Thermometer ID <u>A-A</u>		Correction Factor (°C) <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C) <u>1.8</u>		Corrected Temp (°C) <u>1.8</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No			
a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



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Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client <u>GHD Services</u>			
City/State	CITY	STATE	Project.
Receipt Information			
Date/Time Received.	DATE <u>9/5/25</u>	TIME <u>1645</u>	Received By <u>SA</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID
Multiple Coolers?		☒ Yes ☐ No	If yes: Cooler # <u>2</u> of <u>5</u>
Cooler Custody Seals Present?		☐ Yes ☒ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☐ Yes ☒ No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>AA</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>2.3</u>		Corrected Temp (°C):	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>		<u>CONTAINER 2</u>
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login.			
Additional Comments			



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Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client <u>GHP Services</u>			
City/State	CITY	STATE	Project
Receipt Information			
Date/Time Received:	DATE <u>9/5/25</u>	TIME <u>1645</u>	Received By <u>SA</u>
Delivery Type ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes Cooler ID: _____			
Multiple Coolers? ☒ Yes ☐ No If yes. Cooler # <u>3</u> of <u>5</u>			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes. Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes: Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☐ Yes ☒ No If yes: Which VOA samples are in cooler? ↓			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>AA</u>		Correction Factor (°C). <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C) <u>2.8</u>		Corrected Temp (°C). <u>2.8</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C).			
Corrected Temp (°C).			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			



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Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client. <u>GHD Services</u>			
City/State	CITY	STATE	Project.
Receipt Information			
Date/Time Received	DATE <u>9/5/25</u>	TIME <u>1645</u>	Received By <u>SA</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes Cooler ID _____			
Multiple Coolers? ☒ Yes ☐ No If yes Cooler # <u>4</u> of <u>5</u>			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes: Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes: Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☐ Yes ☒ No If yes: Which VOA samples are in cooler? ↓			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>AA</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>3.3</u>		Corrected Temp (°C): <u>3.3</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



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Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client <u>GHD Services</u>			
City/State	CITY	STATE	Project.
Receipt Information			
Date/Time Received.	DATE <u>9/5/25</u>	TIME <u>1645</u>	Received By <u>SA</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes: Cooler ID _____			
Multiple Coolers? ☒ Yes ☐ No If yes: Cooler # <u>5</u> of <u>5</u>			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes: Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes: Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☐ Yes ☒ No If yes: Which VOA samples are in cooler? ↓			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>AA</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>2.4</u>		Corrected Temp (°C): <u>2.4</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>		<u>CONTAINER 2</u>
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

Chain of Custody Record

214 DSM



Client Information		Sampler		Lab PW		Carrier Tracking No(s)		COC No:	
Client Contact:		Phone:		E-Mail:		State of Origin:		Page:	
Kevin Armstrong		7123090121		zach.binder@eurofins.com		Iowa		Page 1 of 2	
Company:		PWSID:		Analysis Requested		Job #:			
GHD Services Inc.									
Address:		Due Date Requested:		TAT Requested (days):		Standard		Preservation Codes:	
11228 Aurora Avenue								A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
City:		Des Moines		Compliance Project:		Δ Yes Δ No		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
State Zip:		IA, 50322-7905		PO #:		340017051			
Phone:		515-414-3935(Tel)		WO #:		31017262			
Email:		Kevin.Armstrong@ghd.com		Project #:		12576485-004 01			
Project Name:		IMEC Neal South - Semiannual CCR		SSOW#:		12576485-02			
Site:		Neal South CCR Monofill		Sample Date		Sample Time		Sample Type	
								(C=comp, G=grab)	
								Matrix	
								(W=water, S=solid, O=oil, A=air)	
								Preservation Code:	
Sample Identification		Sample Date		Sample Time		Sample Type		Matrix	
		9/3/25		0945		G		Water	
MW02-GW-0925									
MW04-GW-0925		9/4/25		1020		G		Water	
MW08-GW-0925		9/4/25		0815		G		Water	
MW10-GW-0925		9/3/25		1815		G		Water	
MW11-GW-0925		9/3/25		1430		G		Water	
MW12-GW-0925		9/3/25		1510		G		Water	
MW13-GW-0925		9/3/25		11015		G		Water	
MW14-GW-0925		9/3/25		1330		G		Water	
MW15-GW-0925		9/4/25		0915		G		Water	
MW16-GW-0925		9/3/25		0845		G		Water	
MW17-GW-0925		9/4/25		0830		G		Water	
Possible Hazard Identification		Non-Hazard		Flammable		Skin Irritant		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
								Return To Client	
Deliverable Requested I, II, III, IV, Other (specify)		Polish B		Unknown		Ratological		Disposal By Lab	
								Archive For	
								Months	
Empty Kit Relinquished by:		Date:		Date:		Date:		Method of Shipment:	
Relinquished by: Dave Richards		9/5/25 1200		GHD		Company:		Company: Eurofins	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:		Date/Time:	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:					

[illegible]

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 310-315055-1
SDG Number: 12576485-004.01

Login Number: 315055

List Number: 1

Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins Cedar Falls

Tracer/Carrier Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba					
Lab Sample ID	Client Sample ID	(30-110)					
310-315055-1	MW02-GW-0925	91.7					
310-315055-2	MW04-GW-0925	89.0					
310-315055-3	MW08-GW-0925	86.8					
310-315055-4	MW10-GW-0925	91.0					
310-315055-5	MW11-GW-0925	86.3					
310-315055-6	MW12-GW-0925	87.3					
310-315055-7	MW13-GW-0925	91.5					
310-315055-8	MW14-GW-0925	88.5					
310-315055-9	MW15-GW-0925	90.5					
310-315055-10	MW16-GW-0925	87.8					
310-315055-10 MS	MW16-GW-0925	87.8					
310-315055-10 MSD	MW16-GW-0925	89.5					
310-315055-11	MW17-GW-0925	88.8					
310-315055-12	MW18-GW-0925	85.4					
310-315055-13	MW19-GW-0925	90.2					
310-315055-14	MW20-GW-0925	93.4					
310-315055-15	MW21-GW-0925	92.2					
310-315055-16	DP01-GW-0925	86.3					
LCS 160-735568/2-A	Lab Control Sample	83.9					
MB 160-735568/1-A	Method Blank	89.3					
Tracer/Carrier Legend							
Ba = Barium							

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba	Y				
Lab Sample ID	Client Sample ID	(30-110)	(30-110)				
310-315055-1	MW02-GW-0925	88.1	85.2				
310-315055-2	MW04-GW-0925	89.0	86.4				
310-315055-3	MW08-GW-0925	86.8	78.9				
310-315055-4	MW10-GW-0925	91.0	81.1				
310-315055-5	MW11-GW-0925	86.3	83.7				
310-315055-6	MW12-GW-0925	87.3	85.2				
310-315055-7	MW13-GW-0925	91.5	85.2				
310-315055-8	MW14-GW-0925	88.5	85.6				
310-315055-9	MW15-GW-0925	90.5	84.1				
310-315055-10	MW16-GW-0925	87.8	85.2				
310-315055-10 MS	MW16-GW-0925	87.8	84.9				
310-315055-10 MSD	MW16-GW-0925	89.5	88.2				
310-315055-11	MW17-GW-0925	88.8	84.9				
310-315055-12	MW18-GW-0925	87.8	83.0				
310-315055-13	MW19-GW-0925	90.2	82.6				
310-315055-14	MW20-GW-0925	93.4	84.9				
310-315055-15	MW21-GW-0925	92.2	83.4				
310-315055-16	DP01-GW-0925	86.3	80.4				
LCS 160-735570/2-A	Lab Control Sample	83.9	86.0				
LCS 160-739903/2-A	Lab Control Sample	89.8	80.7				

Eurofins Cedar Falls

Tracer/Carrier Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South - Semiannual CCR

Job ID: 310-315055-1
SDG: 12576485-004.01

Method: 9320 - Radium-228 (GFPC) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
MB 160-735570/1-A	Method Blank	89.3	86.4
MB 160-739903/1-A	Method Blank	88.1	83.7
Tracer/Carrier Legend			
Ba = Barium			
Y = Y Carrier			

ANALYTICAL REPORT

PREPARED FOR

Attn: Kevin Armstrong
GHD Services Inc.
11228 Aurora Avenue
Des Moines, Iowa 50322-7905

Generated 9/19/2025 11:32:08 AM Revision 2

JOB DESCRIPTION

MEC Neal South PME Monitoring
12576485-004.01
Neal South PME Monitoring

JOB NUMBER

310-315069-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



Authorized for release by
Zach Bindert, Senior Project Manager
Zach.Bindert@et.eurofinsus.com
(319)595-2016

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Revision 2



Table of Contents

Cover Page 1

Table of Contents 3

Case Narrative 4

Sample Summary 5

Detection Summary 6

Client Sample Results 9

Definitions 26

QC Sample Results 27

QC Association 31

Chronicle 34

Certification Summary 38

Method Summary 39

Chain of Custody 40

Receipt Checklists 44

Case Narrative

Client: GHD Services Inc.
Project: MEC Neal South PME Monitoring

Job ID: 310-315069-1

Job ID: 310-315069-1

Eurofins Cedar Falls

Job Narrative 310-315069-1

REVISION

The report being provided is a revision of the original report sent on 9/19/2025. The report (revision 2) is being revised due to This report was revised 9/19/2025. Due to lab PM error Chromium was reported by mistake instead of Calcium..

Report revision history

Revision 1 - 9/19/2025 - Reason - This report was revised 09/19/2025. Chromium is supposed to be reported instead of Calcium..

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/5/2025 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.8°C and 4.4°C.

HPLC/IC

Method 9056A_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: MW26-GW-0925 (310-315069-1), MW27-GW-0925 (310-315069-2), MW28-GW-0925 (310-315069-3), MW29-GW-0925 (310-315069-4), MW30-GW-0925 (310-315069-5) and MW51-GW-0925 (310-315069-13). Elevated reporting limits (RLs) are provided.

Method 9056A_ORGFM_28D: The following sample was diluted due to the nature of the sample matrix: MW31-GW-0925 (310-315069-17). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cedar Falls

Sample Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-315069-1	MW26-GW-0925	Ground Water	09/02/25 12:15	09/05/25 16:45	Iowa
310-315069-2	MW27-GW-0925	Groundwater	09/02/25 13:25	09/05/25 16:45	Iowa
310-315069-3	MW28-GW-0925	Ground Water	09/03/25 17:30	09/05/25 16:45	Iowa
310-315069-4	MW29-GW-0925	Groundwater	09/03/25 15:05	09/05/25 16:45	Iowa
310-315069-5	MW30-GW-0925	Ground Water	09/03/25 13:25	09/05/25 16:45	Iowa
310-315069-6	MW32-GW-0925	Ground Water	09/02/25 16:10	09/05/25 16:45	Iowa
310-315069-7	MW33-GW-0925	Ground Water	09/03/25 16:30	09/05/25 16:45	Iowa
310-315069-8	MW34-GW-0925	Ground Water	09/02/25 14:55	09/05/25 16:45	Iowa
310-315069-9	MW36-GW-0925	Ground Water	09/02/25 16:55	09/05/25 16:45	Iowa
310-315069-10	MW43-GW-0925	Ground Water	09/02/25 18:15	09/05/25 16:45	Iowa
310-315069-11	MW49-GW-0925	Ground Water	09/03/25 09:05	09/05/25 16:45	Iowa
310-315069-12	MW50-GW-0925	Ground Water	09/02/25 18:45	09/05/25 16:45	Iowa
310-315069-13	MW51-GW-0925	Ground Water	09/03/25 10:55	09/05/25 16:45	Iowa
310-315069-14	MW52-GW-0925	Ground Water	09/03/25 09:50	09/05/25 16:45	Iowa
310-315069-15	MW53-GW-0925	Ground Water	09/03/25 07:35	09/05/25 16:45	Iowa
310-315069-16	DP02-GW-0925	Ground Water	09/02/25 00:00	09/05/25 16:45	Iowa
310-315069-17	MW31-GW-0925	Ground Water	09/03/25 11:45	09/05/25 16:45	Iowa

Detection Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW26-GW-0925

Lab Sample ID: 310-315069-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10.5		5.00		mg/L	5		9056A	Total/NA
Sulfate	183		5.00		mg/L	5		9056A	Total/NA
Boron	0.720		0.100		mg/L	1		6020B	Total/NA
Calcium	168		0.500		mg/L	1		6020B	Total/NA
Total Dissolved Solids	796		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.6	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW27-GW-0925

Lab Sample ID: 310-315069-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	36.3		5.00		mg/L	5		9056A	Total/NA
Sulfate	67.3		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0117		0.00200		mg/L	1		6020B	Total/NA
Boron	0.343		0.100		mg/L	1		6020B	Total/NA
Calcium	151		0.500		mg/L	1		6020B	Total/NA
Total Dissolved Solids	684		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW28-GW-0925

Lab Sample ID: 310-315069-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19.0		5.00		mg/L	5		9056A	Total/NA
Sulfate	108		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0194		0.00200		mg/L	1		6020B	Total/NA
Boron	0.227		0.100		mg/L	1		6020B	Total/NA
Calcium	170		0.500		mg/L	1		6020B	Total/NA
Total Dissolved Solids	788		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW29-GW-0925

Lab Sample ID: 310-315069-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	21.3		5.00		mg/L	5		9056A	Total/NA
Sulfate	35.7		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0528		0.00200		mg/L	1		6020B	Total/NA
Boron	0.237		0.100		mg/L	1		6020B	Total/NA
Calcium	160		0.500		mg/L	1		6020B	Total/NA
Total Dissolved Solids	760		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.8	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW30-GW-0925

Lab Sample ID: 310-315069-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20.0		5.00		mg/L	5		9056A	Total/NA
Sulfate	113		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0584		0.00200		mg/L	1		6020B	Total/NA
Boron	0.232		0.100		mg/L	1		6020B	Total/NA
Calcium	163		0.500		mg/L	1		6020B	Total/NA
Total Dissolved Solids	814		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.6	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW32-GW-0925

Lab Sample ID: 310-315069-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	200		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0241		0.00200		mg/L	1		6020B	Total/NA
Calcium	196		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW33-GW-0925

Lab Sample ID: 310-315069-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	383		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.00520		0.00200		mg/L	1		6020B	Total/NA
Calcium	228		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW34-GW-0925

Lab Sample ID: 310-315069-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	200		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0236		0.00200		mg/L	1		6020B	Total/NA
Calcium	173		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW36-GW-0925

Lab Sample ID: 310-315069-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	210		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0101		0.00200		mg/L	1		6020B	Total/NA
Calcium	171		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW43-GW-0925

Lab Sample ID: 310-315069-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	94.7		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0746		0.00200		mg/L	1		6020B	Total/NA
Calcium	148		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW49-GW-0925

Lab Sample ID: 310-315069-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	37.6		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.0471		0.00200		mg/L	1		6020B	Total/NA
Calcium	82.4		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW50-GW-0925

Lab Sample ID: 310-315069-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	290		5.00		mg/L	5		9056A	Total/NA
Calcium	172		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW51-GW-0925

Lab Sample ID: 310-315069-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	300		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.00469	F1	0.00200		mg/L	1		6020B	Total/NA
Calcium	183		0.500		mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW52-GW-0925

Lab Sample ID: 310-315069-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	295		5.00		mg/L	5		9056A	Total/NA
Calcium	158		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW53-GW-0925

Lab Sample ID: 310-315069-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	182		5.00		mg/L	5		9056A	Total/NA
Calcium	167		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: DP02-GW-0925

Lab Sample ID: 310-315069-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	288		5.00		mg/L	5		9056A	Total/NA
Calcium	165		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: MW31-GW-0925

Lab Sample ID: 310-315069-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25.7		5.00		mg/L	5		9056A	Total/NA
Sulfate	67.2		5.00		mg/L	5		9056A	Total/NA
Arsenic	0.00241		0.00200		mg/L	1		6020B	Total/NA
Boron	0.250		0.100		mg/L	1		6020B	Total/NA
Calcium	164		0.500		mg/L	1		6020B	Total/NA
Total Dissolved Solids	722		50.0		mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	1.0		SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW26-GW-0925

Lab Sample ID: 310-315069-1

Date Collected: 09/02/25 12:15

Matrix: Ground Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.5		5.00		mg/L			09/16/25 20:25	5
Sulfate	183		5.00		mg/L			09/16/25 20:25	5
Fluoride	<1.00		1.00		mg/L			09/16/25 20:25	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		09/10/25 09:00	09/17/25 14:04	1
Boron	0.720		0.100		mg/L		09/10/25 09:00	09/18/25 12:50	1
Calcium	168		0.500		mg/L		09/10/25 09:00	09/17/25 14:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	796		50.0		mg/L			09/09/25 12:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.6	HF	1.0		SU			09/06/25 01:25	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW27-GW-0925

Lab Sample ID: 310-315069-2

Date Collected: 09/02/25 13:25

Matrix: Groundwater

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.3		5.00		mg/L			09/16/25 20:38	5
Sulfate	67.3		5.00		mg/L			09/16/25 20:38	5
Fluoride	<1.00		1.00		mg/L			09/16/25 20:38	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0117		0.00200		mg/L		09/10/25 09:00	09/17/25 14:06	1
Boron	0.343		0.100		mg/L		09/10/25 09:00	09/18/25 12:53	1
Calcium	151		0.500		mg/L		09/10/25 09:00	09/17/25 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	684		50.0		mg/L			09/09/25 12:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.7	HF	1.0		SU			09/06/25 02:58	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW28-GW-0925

Lab Sample ID: 310-315069-3

Date Collected: 09/03/25 17:30

Matrix: Ground Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.0		5.00		mg/L			09/17/25 09:40	5
Sulfate	108		5.00		mg/L			09/17/25 09:40	5
Fluoride	<1.00		1.00		mg/L			09/17/25 09:40	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0194		0.00200		mg/L		09/10/25 09:00	09/17/25 14:09	1
Boron	0.227		0.100		mg/L		09/10/25 09:00	09/18/25 12:56	1
Calcium	170		0.500		mg/L		09/10/25 09:00	09/17/25 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	788		50.0		mg/L			09/09/25 12:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.7	HF	1.0		SU			09/06/25 03:02	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW29-GW-0925

Lab Sample ID: 310-315069-4

Date Collected: 09/03/25 15:05

Matrix: Groundwater

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.3		5.00		mg/L			09/16/25 21:19	5
Sulfate	35.7		5.00		mg/L			09/16/25 21:19	5
Fluoride	<1.00		1.00		mg/L			09/16/25 21:19	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0528		0.00200		mg/L		09/10/25 09:00	09/17/25 14:12	1
Boron	0.237		0.100		mg/L		09/10/25 09:00	09/18/25 12:58	1
Calcium	160		0.500		mg/L		09/10/25 09:00	09/17/25 14:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	760		50.0		mg/L			09/09/25 12:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.8	HF	1.0		SU			09/06/25 04:15	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW30-GW-0925

Lab Sample ID: 310-315069-5

Date Collected: 09/03/25 13:25

Matrix: Ground Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.0		5.00		mg/L			09/16/25 21:33	5
Sulfate	113		5.00		mg/L			09/16/25 21:33	5
Fluoride	<1.00		1.00		mg/L			09/16/25 21:33	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0584		0.00200		mg/L		09/10/25 09:00	09/17/25 14:17	1
Boron	0.232		0.100		mg/L		09/10/25 09:00	09/18/25 13:03	1
Calcium	163		0.500		mg/L		09/10/25 09:00	09/17/25 14:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	814		50.0		mg/L			09/09/25 12:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.6	HF	1.0		SU			09/06/25 01:12	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW32-GW-0925

Lab Sample ID: 310-315069-6

Date Collected: 09/02/25 16:10

Matrix: Ground Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	200		5.00		mg/L			09/16/25 21:46	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0241		0.00200		mg/L		09/10/25 09:00	09/17/25 14:19	1
Calcium	196		0.500		mg/L		09/10/25 09:00	09/17/25 14:19	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW33-GW-0925
Date Collected: 09/03/25 16:30
Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-7
Matrix: Ground Water

Method: SW846 9056A - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	383		5.00		mg/L			09/16/25 22:00	5

Method: SW846 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00520		0.00200		mg/L		09/10/25 09:00	09/17/25 14:22	1
Calcium	228		0.500		mg/L		09/10/25 09:00	09/17/25 14:22	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW34-GW-0925

Lab Sample ID: 310-315069-8

Date Collected: 09/02/25 14:55

Matrix: Ground Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	200		5.00		mg/L			09/16/25 22:13	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0236		0.00200		mg/L		09/10/25 09:00	09/17/25 14:29	1
Calcium	173		0.500		mg/L		09/10/25 09:00	09/17/25 14:29	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW36-GW-0925
Date Collected: 09/02/25 16:55
Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-9
Matrix: Ground Water

Method: SW846 9056A - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	210		5.00		mg/L			09/16/25 22:27	5

Method: SW846 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0101		0.00200		mg/L		09/10/25 09:00	09/17/25 14:32	1
Calcium	171		0.500		mg/L		09/10/25 09:00	09/17/25 14:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW43-GW-0925
Date Collected: 09/02/25 18:15
Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-10
Matrix: Ground Water

Method: SW846 9056A - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	94.7		5.00		mg/L			09/16/25 22:40	5

Method: SW846 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0746		0.00200		mg/L		09/10/25 09:00	09/17/25 14:35	1
Calcium	148		0.500		mg/L		09/10/25 09:00	09/17/25 14:35	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW49-GW-0925
Date Collected: 09/03/25 09:05
Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-11
Matrix: Ground Water

Method: SW846 9056A - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	37.6		5.00		mg/L			09/16/25 22:54	5

Method: SW846 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0471		0.00200		mg/L		09/10/25 09:00	09/17/25 14:37	1
Calcium	82.4		0.500		mg/L		09/10/25 09:00	09/17/25 14:37	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW50-GW-0925

Lab Sample ID: 310-315069-12

Date Collected: 09/02/25 18:45

Matrix: Ground Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	290		5.00		mg/L			09/16/25 23:08	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		09/10/25 09:00	09/17/25 14:40	1
Calcium	172		0.500		mg/L		09/10/25 09:00	09/17/25 14:40	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW51-GW-0925

Lab Sample ID: 310-315069-13

Date Collected: 09/03/25 10:55

Matrix: Ground Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	300		5.00		mg/L			09/16/25 23:21	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00469	F1	0.00200		mg/L		09/12/25 09:00	09/15/25 14:22	1
Calcium	183		0.500		mg/L		09/12/25 09:00	09/15/25 14:22	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW52-GW-0925

Lab Sample ID: 310-315069-14

Date Collected: 09/03/25 09:50

Matrix: Ground Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	295		5.00		mg/L			09/17/25 13:38	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		09/12/25 09:00	09/15/25 14:37	1
Calcium	158		0.500		mg/L		09/12/25 09:00	09/15/25 14:37	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW53-GW-0925

Lab Sample ID: 310-315069-15

Date Collected: 09/03/25 07:35

Matrix: Ground Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	182		5.00		mg/L			09/17/25 13:52	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		09/12/25 09:00	09/15/25 14:40	1
Calcium	167		0.500		mg/L		09/12/25 09:00	09/15/25 14:40	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: DP02-GW-0925
Date Collected: 09/02/25 00:00
Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-16
Matrix: Ground Water

Method: SW846 9056A - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	288		5.00		mg/L			09/17/25 14:06	5

Method: SW846 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		09/12/25 09:00	09/15/25 14:43	1
Calcium	165		0.500		mg/L		09/12/25 09:00	09/15/25 14:43	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW31-GW-0925

Lab Sample ID: 310-315069-17

Date Collected: 09/03/25 11:45

Matrix: Ground Water

Date Received: 09/05/25 16:45

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.7		5.00		mg/L			09/17/25 14:19	5
Sulfate	67.2		5.00		mg/L			09/17/25 14:19	5
Fluoride	<1.00		1.00		mg/L			09/17/25 14:19	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00241		0.00200		mg/L		09/12/25 09:00	09/15/25 14:45	1
Boron	0.250		0.100		mg/L		09/12/25 09:00	09/15/25 14:45	1
Calcium	164		0.500		mg/L		09/12/25 09:00	09/15/25 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	722		50.0		mg/L			09/09/25 12:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.7	HF	1.0		SU			09/06/25 04:02	1

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-467026/3

Matrix: Water

Analysis Batch: 467026

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00		mg/L			09/16/25 18:50	1
Sulfate	<1.00		1.00		mg/L			09/16/25 18:50	1
Fluoride	<0.200		0.200		mg/L			09/16/25 18:50	1

Lab Sample ID: LCS 310-467026/4

Matrix: Water

Analysis Batch: 467026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.32		mg/L		103	90 - 110
Sulfate	10.0	10.57		mg/L		106	90 - 110
Fluoride	2.00	2.104		mg/L		105	90 - 110

Lab Sample ID: 310-315069-13 MS

Matrix: Ground Water

Analysis Batch: 467026

Client Sample ID: MW51-GW-0925

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	300		25.0	317.1	4	mg/L		68	80 - 120

Lab Sample ID: 310-315069-13 MSD

Matrix: Ground Water

Analysis Batch: 467026

Client Sample ID: MW51-GW-0925

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	300		25.0	318.4	4	mg/L		73	80 - 120	0	15

Lab Sample ID: MB 310-467134/3

Matrix: Water

Analysis Batch: 467134

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00		mg/L			09/17/25 10:28	1
Sulfate	<1.00		1.00		mg/L			09/17/25 10:28	1
Fluoride	<0.200		0.200		mg/L			09/17/25 10:28	1

Lab Sample ID: LCS 310-467134/4

Matrix: Water

Analysis Batch: 467134

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.07		mg/L		101	90 - 110
Sulfate	10.0	10.17		mg/L		102	90 - 110
Fluoride	2.00	2.049		mg/L		102	90 - 110

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QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-466149/1-A
Matrix: Water
Analysis Batch: 467078

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466149

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		09/10/25 09:00	09/17/25 13:28	1
Calcium	<0.500		0.500		mg/L		09/10/25 09:00	09/17/25 13:28	1

Lab Sample ID: MB 310-466149/1-A
Matrix: Water
Analysis Batch: 467205

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466149

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.100		0.100		mg/L		09/10/25 09:00	09/18/25 12:15	1

Lab Sample ID: LCS 310-466149/2-A
Matrix: Water
Analysis Batch: 467078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.2064		mg/L		103	80 - 120
Calcium	2.00	1.986		mg/L		99	80 - 120

Lab Sample ID: LCS 310-466149/2-A
Matrix: Water
Analysis Batch: 467205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.200	0.2069		mg/L		103	80 - 120

Lab Sample ID: 310-315069-4 DU
Matrix: Groundwater
Analysis Batch: 467078

Client Sample ID: MW29-GW-0925
Prep Type: Total/NA
Prep Batch: 466149

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.0528		0.05437		mg/L		3	20
Calcium	160		163.9		mg/L		2	20

Lab Sample ID: 310-315069-4 DU
Matrix: Groundwater
Analysis Batch: 467205

Client Sample ID: MW29-GW-0925
Prep Type: Total/NA
Prep Batch: 466149

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	0.237		0.2290		mg/L		4	20

Lab Sample ID: MB 310-466415/1-A
Matrix: Water
Analysis Batch: 466789

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		09/12/25 09:00	09/15/25 14:17	1
Boron	<0.100		0.100		mg/L		09/12/25 09:00	09/15/25 14:17	1
Calcium	<0.500		0.500		mg/L		09/12/25 09:00	09/15/25 14:17	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-466415/2-A
Matrix: Water
Analysis Batch: 466789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.300	0.2761		mg/L		92	80 - 120
Boron	0.300	0.2762		mg/L		92	80 - 120
Calcium	3.00	2.572		mg/L		86	80 - 120

Lab Sample ID: 310-315069-13 MS
Matrix: Ground Water
Analysis Batch: 466789

Client Sample ID: MW51-GW-0925
Prep Type: Total/NA
Prep Batch: 466415

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.00469	F1	0.200	0.2367		mg/L		116	75 - 125
Calcium	183		2.00	178.6	4	mg/L		-236	75 - 125

Lab Sample ID: 310-315069-13 MSD
Matrix: Ground Water
Analysis Batch: 466789

Client Sample ID: MW51-GW-0925
Prep Type: Total/NA
Prep Batch: 466415

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.00469	F1	0.200	0.2785	F1	mg/L		137	75 - 125	16	20
Calcium	183		2.00	187.6	4	mg/L		211	75 - 125	5	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-466114/1
Matrix: Water
Analysis Batch: 466114

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0		mg/L			09/09/25 12:35	1

Lab Sample ID: LCS 310-466114/2
Matrix: Water
Analysis Batch: 466114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1028		mg/L		103	89 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 310-465881/1
Matrix: Water
Analysis Batch: 465881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		101	98 - 102

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QC Sample Results

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: LCS 310-465881/29				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 465881							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	98 - 102

QC Association Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

HPLC/IC

Analysis Batch: 467026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315069-1	MW26-GW-0925	Total/NA	Ground Water	9056A	
310-315069-2	MW27-GW-0925	Total/NA	Groundwater	9056A	
310-315069-3	MW28-GW-0925	Total/NA	Ground Water	9056A	
310-315069-4	MW29-GW-0925	Total/NA	Groundwater	9056A	
310-315069-5	MW30-GW-0925	Total/NA	Ground Water	9056A	
310-315069-6	MW32-GW-0925	Total/NA	Ground Water	9056A	
310-315069-7	MW33-GW-0925	Total/NA	Ground Water	9056A	
310-315069-8	MW34-GW-0925	Total/NA	Ground Water	9056A	
310-315069-9	MW36-GW-0925	Total/NA	Ground Water	9056A	
310-315069-10	MW43-GW-0925	Total/NA	Ground Water	9056A	
310-315069-11	MW49-GW-0925	Total/NA	Ground Water	9056A	
310-315069-12	MW50-GW-0925	Total/NA	Ground Water	9056A	
310-315069-13	MW51-GW-0925	Total/NA	Ground Water	9056A	
MB 310-467026/3	Method Blank	Total/NA	Water	9056A	
LCS 310-467026/4	Lab Control Sample	Total/NA	Water	9056A	
310-315069-13 MS	MW51-GW-0925	Total/NA	Ground Water	9056A	
310-315069-13 MSD	MW51-GW-0925	Total/NA	Ground Water	9056A	

Analysis Batch: 467134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315069-14	MW52-GW-0925	Total/NA	Ground Water	9056A	
310-315069-15	MW53-GW-0925	Total/NA	Ground Water	9056A	
310-315069-16	DP02-GW-0925	Total/NA	Ground Water	9056A	
310-315069-17	MW31-GW-0925	Total/NA	Ground Water	9056A	
MB 310-467134/3	Method Blank	Total/NA	Water	9056A	
LCS 310-467134/4	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 466149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315069-1	MW26-GW-0925	Total/NA	Ground Water	3005A	
310-315069-2	MW27-GW-0925	Total/NA	Groundwater	3005A	
310-315069-3	MW28-GW-0925	Total/NA	Ground Water	3005A	
310-315069-4	MW29-GW-0925	Total/NA	Groundwater	3005A	
310-315069-5	MW30-GW-0925	Total/NA	Ground Water	3005A	
310-315069-6	MW32-GW-0925	Total/NA	Ground Water	3005A	
310-315069-7	MW33-GW-0925	Total/NA	Ground Water	3005A	
310-315069-8	MW34-GW-0925	Total/NA	Ground Water	3005A	
310-315069-9	MW36-GW-0925	Total/NA	Ground Water	3005A	
310-315069-10	MW43-GW-0925	Total/NA	Ground Water	3005A	
310-315069-11	MW49-GW-0925	Total/NA	Ground Water	3005A	
310-315069-12	MW50-GW-0925	Total/NA	Ground Water	3005A	
MB 310-466149/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-466149/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-315069-4 DU	MW29-GW-0925	Total/NA	Groundwater	3005A	

Prep Batch: 466415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315069-13	MW51-GW-0925	Total/NA	Ground Water	3005A	
310-315069-14	MW52-GW-0925	Total/NA	Ground Water	3005A	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Metals (Continued)

Prep Batch: 466415 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315069-15	MW53-GW-0925	Total/NA	Ground Water	3005A	
310-315069-16	DP02-GW-0925	Total/NA	Ground Water	3005A	
310-315069-17	MW31-GW-0925	Total/NA	Ground Water	3005A	
MB 310-466415/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-466415/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-315069-13 MS	MW51-GW-0925	Total/NA	Ground Water	3005A	
310-315069-13 MSD	MW51-GW-0925	Total/NA	Ground Water	3005A	

Analysis Batch: 466789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315069-13	MW51-GW-0925	Total/NA	Ground Water	6020B	466415
310-315069-14	MW52-GW-0925	Total/NA	Ground Water	6020B	466415
310-315069-15	MW53-GW-0925	Total/NA	Ground Water	6020B	466415
310-315069-16	DP02-GW-0925	Total/NA	Ground Water	6020B	466415
310-315069-17	MW31-GW-0925	Total/NA	Ground Water	6020B	466415
MB 310-466415/1-A	Method Blank	Total/NA	Water	6020B	466415
LCS 310-466415/2-A	Lab Control Sample	Total/NA	Water	6020B	466415
310-315069-13 MS	MW51-GW-0925	Total/NA	Ground Water	6020B	466415
310-315069-13 MSD	MW51-GW-0925	Total/NA	Ground Water	6020B	466415

Analysis Batch: 467078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315069-1	MW26-GW-0925	Total/NA	Ground Water	6020B	466149
310-315069-2	MW27-GW-0925	Total/NA	Groundwater	6020B	466149
310-315069-3	MW28-GW-0925	Total/NA	Ground Water	6020B	466149
310-315069-4	MW29-GW-0925	Total/NA	Groundwater	6020B	466149
310-315069-5	MW30-GW-0925	Total/NA	Ground Water	6020B	466149
310-315069-6	MW32-GW-0925	Total/NA	Ground Water	6020B	466149
310-315069-7	MW33-GW-0925	Total/NA	Ground Water	6020B	466149
310-315069-8	MW34-GW-0925	Total/NA	Ground Water	6020B	466149
310-315069-9	MW36-GW-0925	Total/NA	Ground Water	6020B	466149
310-315069-10	MW43-GW-0925	Total/NA	Ground Water	6020B	466149
310-315069-11	MW49-GW-0925	Total/NA	Ground Water	6020B	466149
310-315069-12	MW50-GW-0925	Total/NA	Ground Water	6020B	466149
MB 310-466149/1-A	Method Blank	Total/NA	Water	6020B	466149
LCS 310-466149/2-A	Lab Control Sample	Total/NA	Water	6020B	466149
310-315069-4 DU	MW29-GW-0925	Total/NA	Groundwater	6020B	466149

Analysis Batch: 467205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315069-1	MW26-GW-0925	Total/NA	Ground Water	6020B	466149
310-315069-2	MW27-GW-0925	Total/NA	Groundwater	6020B	466149
310-315069-3	MW28-GW-0925	Total/NA	Ground Water	6020B	466149
310-315069-4	MW29-GW-0925	Total/NA	Groundwater	6020B	466149
310-315069-5	MW30-GW-0925	Total/NA	Ground Water	6020B	466149
MB 310-466149/1-A	Method Blank	Total/NA	Water	6020B	466149
LCS 310-466149/2-A	Lab Control Sample	Total/NA	Water	6020B	466149
310-315069-4 DU	MW29-GW-0925	Total/NA	Groundwater	6020B	466149

QC Association Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

General Chemistry

Analysis Batch: 465881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315069-1	MW26-GW-0925	Total/NA	Ground Water	SM 4500 H+ B	
310-315069-2	MW27-GW-0925	Total/NA	Groundwater	SM 4500 H+ B	
310-315069-3	MW28-GW-0925	Total/NA	Ground Water	SM 4500 H+ B	
310-315069-4	MW29-GW-0925	Total/NA	Groundwater	SM 4500 H+ B	
310-315069-5	MW30-GW-0925	Total/NA	Ground Water	SM 4500 H+ B	
310-315069-17	MW31-GW-0925	Total/NA	Ground Water	SM 4500 H+ B	
LCS 310-465881/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCS 310-465881/29	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 466114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315069-1	MW26-GW-0925	Total/NA	Ground Water	SM 2540C	
310-315069-2	MW27-GW-0925	Total/NA	Groundwater	SM 2540C	
310-315069-3	MW28-GW-0925	Total/NA	Ground Water	SM 2540C	
310-315069-4	MW29-GW-0925	Total/NA	Groundwater	SM 2540C	
310-315069-5	MW30-GW-0925	Total/NA	Ground Water	SM 2540C	
310-315069-17	MW31-GW-0925	Total/NA	Ground Water	SM 2540C	
MB 310-466114/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-466114/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW26-GW-0925

Date Collected: 09/02/25 12:15

Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/16/25 20:25
Total/NA	Prep	3005A			466149	QTZ5	EET CF	09/10/25 09:00
Total/NA	Analysis	6020B		1	467078	NFT2	EET CF	09/17/25 14:04
Total/NA	Prep	3005A			466149	QTZ5	EET CF	09/10/25 09:00
Total/NA	Analysis	6020B		1	467205	NFT2	EET CF	09/18/25 12:50
Total/NA	Analysis	SM 2540C		1	466114	HE7K	EET CF	09/09/25 12:35
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 01:25

Client Sample ID: MW27-GW-0925

Date Collected: 09/02/25 13:25

Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-2

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/16/25 20:38
Total/NA	Prep	3005A			466149	QTZ5	EET CF	09/10/25 09:00
Total/NA	Analysis	6020B		1	467078	NFT2	EET CF	09/17/25 14:06
Total/NA	Prep	3005A			466149	QTZ5	EET CF	09/10/25 09:00
Total/NA	Analysis	6020B		1	467205	NFT2	EET CF	09/18/25 12:53
Total/NA	Analysis	SM 2540C		1	466114	HE7K	EET CF	09/09/25 12:35
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 02:58

Client Sample ID: MW28-GW-0925

Date Collected: 09/03/25 17:30

Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/17/25 09:40
Total/NA	Prep	3005A			466149	QTZ5	EET CF	09/10/25 09:00
Total/NA	Analysis	6020B		1	467078	NFT2	EET CF	09/17/25 14:09
Total/NA	Prep	3005A			466149	QTZ5	EET CF	09/10/25 09:00
Total/NA	Analysis	6020B		1	467205	NFT2	EET CF	09/18/25 12:56
Total/NA	Analysis	SM 2540C		1	466114	HE7K	EET CF	09/09/25 12:35
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 03:02

Client Sample ID: MW29-GW-0925

Date Collected: 09/03/25 15:05

Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-4

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/16/25 21:19
Total/NA	Prep	3005A			466149	QTZ5	EET CF	09/10/25 09:00
Total/NA	Analysis	6020B		1	467078	NFT2	EET CF	09/17/25 14:12
Total/NA	Prep	3005A			466149	QTZ5	EET CF	09/10/25 09:00
Total/NA	Analysis	6020B		1	467205	NFT2	EET CF	09/18/25 12:58

Eurofins Cedar Falls

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW29-GW-0925

Lab Sample ID: 310-315069-4

Date Collected: 09/03/25 15:05

Matrix: Groundwater

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	466114	HE7K	EET CF	09/09/25 12:35
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 04:15

Client Sample ID: MW30-GW-0925

Lab Sample ID: 310-315069-5

Date Collected: 09/03/25 13:25

Matrix: Ground Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/16/25 21:33
Total/NA	Prep	3005A			466149	QTZ5	EET CF	09/10/25 09:00
Total/NA	Analysis	6020B		1	467078	NFT2	EET CF	09/17/25 14:17
Total/NA	Prep	3005A			466149	QTZ5	EET CF	09/10/25 09:00
Total/NA	Analysis	6020B		1	467205	NFT2	EET CF	09/18/25 13:03
Total/NA	Analysis	SM 2540C		1	466114	HE7K	EET CF	09/09/25 12:35
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 01:12

Client Sample ID: MW32-GW-0925

Lab Sample ID: 310-315069-6

Date Collected: 09/02/25 16:10

Matrix: Ground Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/16/25 21:46
Total/NA	Prep	3005A			466149	QTZ5	EET CF	09/10/25 09:00
Total/NA	Analysis	6020B		1	467078	NFT2	EET CF	09/17/25 14:19

Client Sample ID: MW33-GW-0925

Lab Sample ID: 310-315069-7

Date Collected: 09/03/25 16:30

Matrix: Ground Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/16/25 22:00
Total/NA	Prep	3005A			466149	QTZ5	EET CF	09/10/25 09:00
Total/NA	Analysis	6020B		1	467078	NFT2	EET CF	09/17/25 14:22

Client Sample ID: MW34-GW-0925

Lab Sample ID: 310-315069-8

Date Collected: 09/02/25 14:55

Matrix: Ground Water

Date Received: 09/05/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/16/25 22:13
Total/NA	Prep	3005A			466149	QTZ5	EET CF	09/10/25 09:00
Total/NA	Analysis	6020B		1	467078	NFT2	EET CF	09/17/25 14:29

Eurofins Cedar Falls

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW36-GW-0925

Date Collected: 09/02/25 16:55

Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/16/25 22:27
Total/NA	Prep	3005A			466149	QTZ5	EET CF	09/10/25 09:00
Total/NA	Analysis	6020B		1	467078	NFT2	EET CF	09/17/25 14:32

Client Sample ID: MW43-GW-0925

Date Collected: 09/02/25 18:15

Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-10

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/16/25 22:40
Total/NA	Prep	3005A			466149	QTZ5	EET CF	09/10/25 09:00
Total/NA	Analysis	6020B		1	467078	NFT2	EET CF	09/17/25 14:35

Client Sample ID: MW49-GW-0925

Date Collected: 09/03/25 09:05

Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-11

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/16/25 22:54
Total/NA	Prep	3005A			466149	QTZ5	EET CF	09/10/25 09:00
Total/NA	Analysis	6020B		1	467078	NFT2	EET CF	09/17/25 14:37

Client Sample ID: MW50-GW-0925

Date Collected: 09/02/25 18:45

Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-12

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/16/25 23:08
Total/NA	Prep	3005A			466149	QTZ5	EET CF	09/10/25 09:00
Total/NA	Analysis	6020B		1	467078	NFT2	EET CF	09/17/25 14:40

Client Sample ID: MW51-GW-0925

Date Collected: 09/03/25 10:55

Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-13

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467026	QTZ5	EET CF	09/16/25 23:21
Total/NA	Prep	3005A			466415	WK2X	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466789	NFT2	EET CF	09/15/25 14:22

Client Sample ID: MW52-GW-0925

Date Collected: 09/03/25 09:50

Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-14

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467134	QTZ5	EET CF	09/17/25 13:38

Eurofins Cedar Falls

Lab Chronicle

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Client Sample ID: MW52-GW-0925

Date Collected: 09/03/25 09:50

Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-14

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			466415	WK2X	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466789	NFT2	EET CF	09/15/25 14:37

Client Sample ID: MW53-GW-0925

Date Collected: 09/03/25 07:35

Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-15

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467134	QTZ5	EET CF	09/17/25 13:52
Total/NA	Prep	3005A			466415	WK2X	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466789	NFT2	EET CF	09/15/25 14:40

Client Sample ID: DP02-GW-0925

Date Collected: 09/02/25 00:00

Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-16

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467134	QTZ5	EET CF	09/17/25 14:06
Total/NA	Prep	3005A			466415	WK2X	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466789	NFT2	EET CF	09/15/25 14:43

Client Sample ID: MW31-GW-0925

Date Collected: 09/03/25 11:45

Date Received: 09/05/25 16:45

Lab Sample ID: 310-315069-17

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467134	QTZ5	EET CF	09/17/25 14:19
Total/NA	Prep	3005A			466415	WK2X	EET CF	09/12/25 09:00
Total/NA	Analysis	6020B		1	466789	NFT2	EET CF	09/15/25 14:45
Total/NA	Analysis	SM 2540C		1	466114	HE7K	EET CF	09/09/25 12:35
Total/NA	Analysis	SM 4500 H+ B		1	465881	ZJX4	EET CF	09/06/25 04:02

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: GHD Services Inc.
Project/Site: MEC Neal South PME Monitoring

Job ID: 310-315069-1
SDG: 12576485-004.01

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CF
SM 4500 H+ B	pH	SM	EET CF
3005A	Preparation, Total Metals	SW846	EET CF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
America



310-315069 Chain of Custody

Cooler/Sample Receipt and Temperature L

Client Information			
Client. <u>GHD Services</u>			
City/State	CITY	STATE	Project
Receipt Information			
Date/Time Received	DATE <u>9/5/25</u>	TIME <u>1645</u>	Received By <u>SA</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes Cooler ID: _____			
Multiple Coolers? ☒ Yes ☒ No ^{cont} If yes. Cooler # <u>1</u> of <u>2</u>			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes. Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☐ Yes ☒ No If yes Which VOA samples are in cooler? ↓			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>AA</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>4.4</u>		Corrected Temp (°C): <u>4.4</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g , bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE. If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



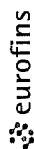
Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client. <u>GHD Services</u>			
City/State	CITY	STATE	Project.
Receipt Information			
Date/Time Received	DATE <u>9/5/25</u>	TIME <u>1645</u>	Received By <u>SA</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes. Cooler ID: _____			
Multiple Coolers? ☒ Yes ☐ No If yes: Cooler # <u>2</u> of <u>2</u>			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes. Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes. Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☐ Yes ☒ No If yes. Which VOA samples are in cooler? ↓			
Temperature Record			
Coolant. ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID <u>AA</u>		Correction Factor (°C). <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>1.8</u>		Corrected Temp (°C): <u>1.8</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>		<u>CONTAINER 2</u>
Uncorrected Temp (°C).			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE. If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Chain of Custody Record



Sampler THOU Larson		Lab PM Zach Bindert	Carrier Tracking No(s):		COC No.
Phone: 615-491-7791		E-Mail zach.bindert@eurofins.com	State of Origin: Iowa		Page: Page 1 of 2
Company GHD Services Inc.		PWSID:	Job #:		
Address: 11228 Aurora Avenue		Analysis Requested			
City: Des Moines		Preservation Codes			
State, Zip: IA, 50322-7905		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other			
Phone: 515-414-3935(Tel)		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)			
Email: Kevin.Armstrong@ghd.com					
Project Name: MEC Neal South PME Monitoring					
Site: Neal South CCR Monofill					
SSOW#: 12576485-02					
TAT Requested (days): Standard					
Compliance Project: ☐ Yes ☐ No					
PO #: 340017051					
WO #: 31017262					
Field Filtered Sample (Yes or No)					
Sample Date					
Sample Time					
Sample Type (C=Comp, G=grab)					
Matrix (W=water, S=solid, O=wastebill, BT=Tissue, AA=Air)					
Preservation Code:					
Sample Identification					
MW26-GW-0925					
MW27-GW-0925					
MW28-GW-0925					
MW29-GW-0925					
MW30-GW-0925					
MW32-GW-0925					
MW33-GW-0925					
MW34-GW-0925					
MW36-GW-0925					
MW43-GW-0925					
MW49-GW-0925					
Possible Hazard Identification					
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological					
Deliverable Requested I, II, III, IV, Other (specify)					
Empty Kit Relinquished by		Time			
Relinquished by: <i>Paula Radwanski</i>		Date/Time: 9/15/25 1200			
Relinquished by:		Date/Time:			
Relinquished by:		Date/Time:			
Custody Seals Intact: ☐ Yes ☐ No		Cooler Temperature(s) °C and Other Remarks:			

Chain of Custody Record



Sampler: 1000 LWSM		Lab PM: Zach Bindert	Carrier Tracking No(s)		COC No:
Client Contact: Kevin Armstrong		Phone: 319-241-1791	E-Mail: zach.bindert@et.eurofins.com		State of Origin: Iowa
Company: GHD Services Inc.		PWSID: 15-491791		Page: Page 2 of 2	
Address: 11228 Aurora Avenue		Job #:			
City: Des Moines		Analysis Requested			
State, Zip: IA, 50322-7905		Due Date Requested:			
Phone: 515-414-3935 (Tel)		TAT Requested (days)			
Email: Kevin.Armstrong@ghd.com		Compliance Project: ☐ Yes ☐ No			
Project Name: MEC Neal South PME Monitoring		PO #: 340017051			
Site: Neal South CCR Monofill		WO #: 31017262			
		Project #: 12576485-004 01			
		SSOW#: 12576485-02			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Other)
MW50-GW-0925	9/2/25	1845	G	Water	Water
MW51-GW-0925	9/3/25	1055	G	Water	Water
MW52-GW-0925	9/3/25	0950	G	Water	Water
MW53-GW-0925	9/3/25	0735	G	Water	Water
DP02-GW-0925	9/2/25	—	G	Water	Water
MW31-GW-0925	9/3/25	1445	G	Water	Water
Possible Hazard Identification		Poison B	Unknown	Radioactive	
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant					
Deliverable Requested I II III IV, Other (specify)					
Empty Kit Relinquished by		Time			
Relinquished by: Angie P. Edwards		Date/Time: 9/5/25 1200	Company: GHD		
Relinquished by:		Date/Time:	Company:		
Relinquished by:		Date/Time:	Company:		
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:	
				Received by: CGL	
				Date/Time: 9.5.25 1645	
				Company: Eurofins	
				Received by:	
				Date/Time:	
				Company:	
				Received by:	
				Date/Time:	
				Company:	
				Cooler Temperature(s) °C and Other Remarks:	
				Var: 01/16/2019	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 310-315069-1
SDG Number: 12576485-004.01

Login Number: 315069

List Number: 1

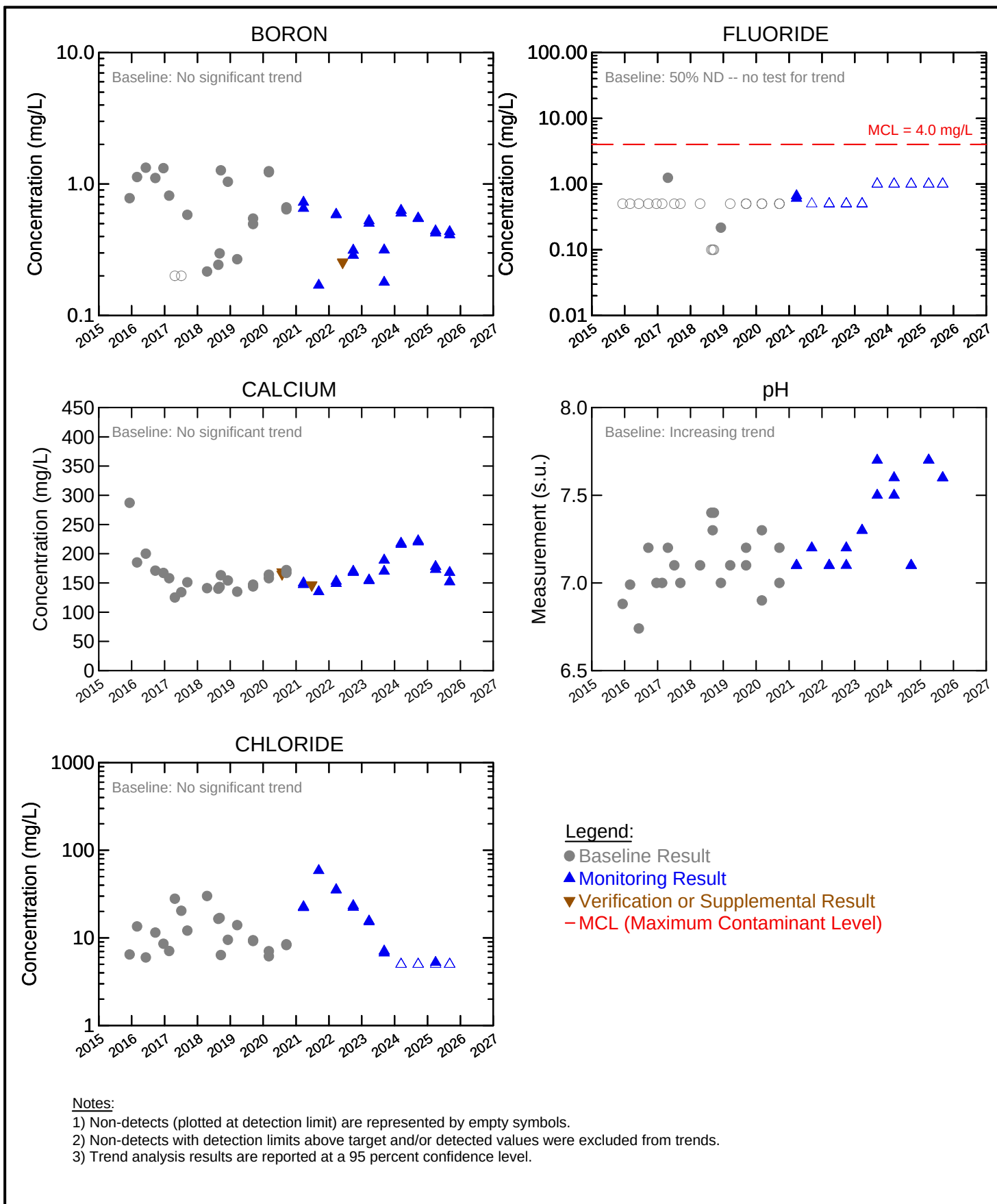
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix C

**Time Series Graphs for Assessment
Monitoring Wells**

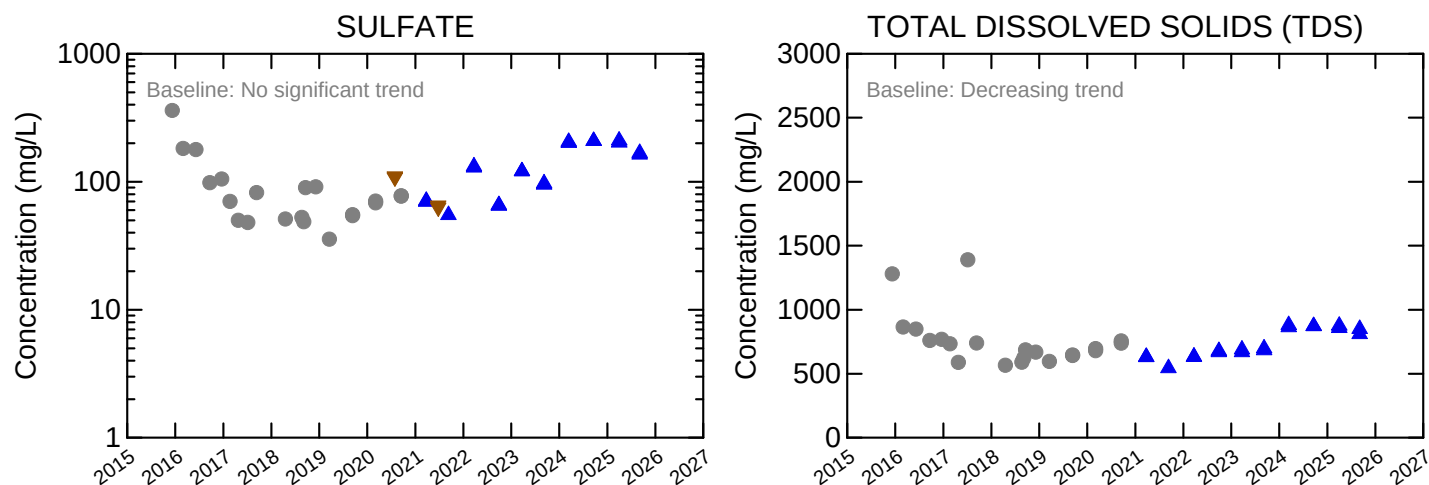


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-2 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 1.a



Legend:

- Baseline Result
- ▲ Detection Monitoring Result
- ▼ Verification or Supplemental Result

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

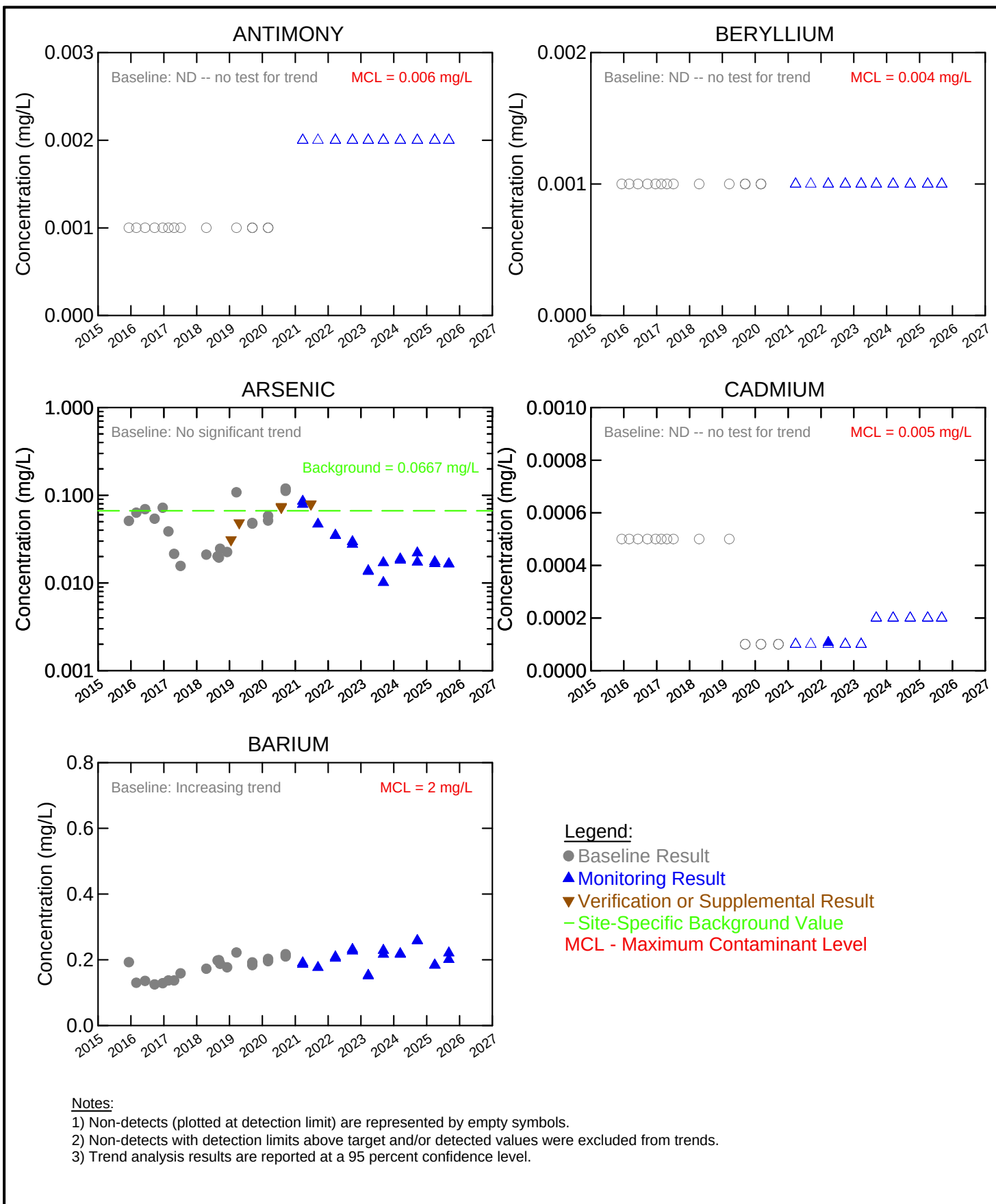


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-2 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. **12576485**
Date: **Nov 24, 2025**

FIGURE 1.b

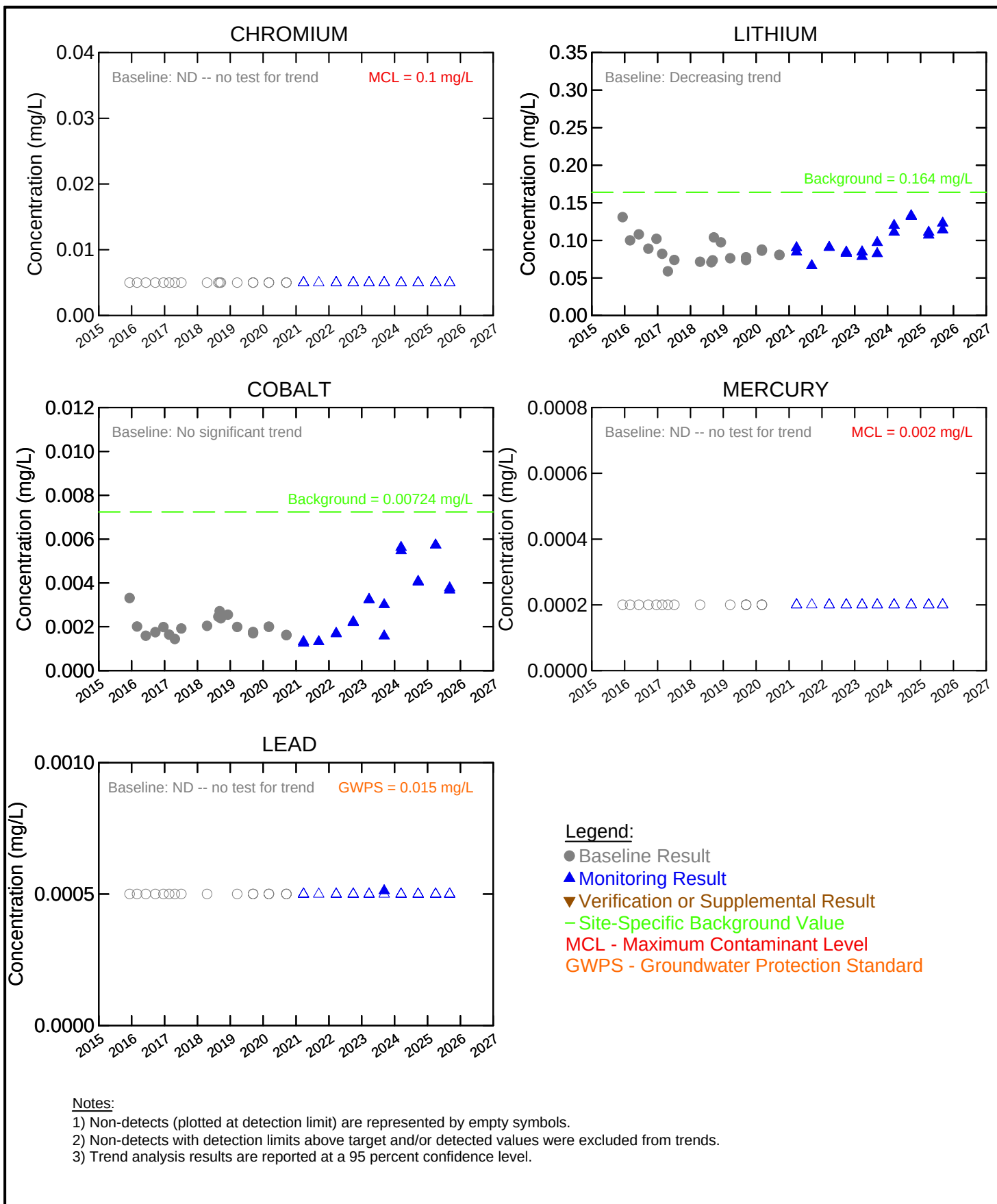


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-2 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 24, 2025

FIGURE 1.c

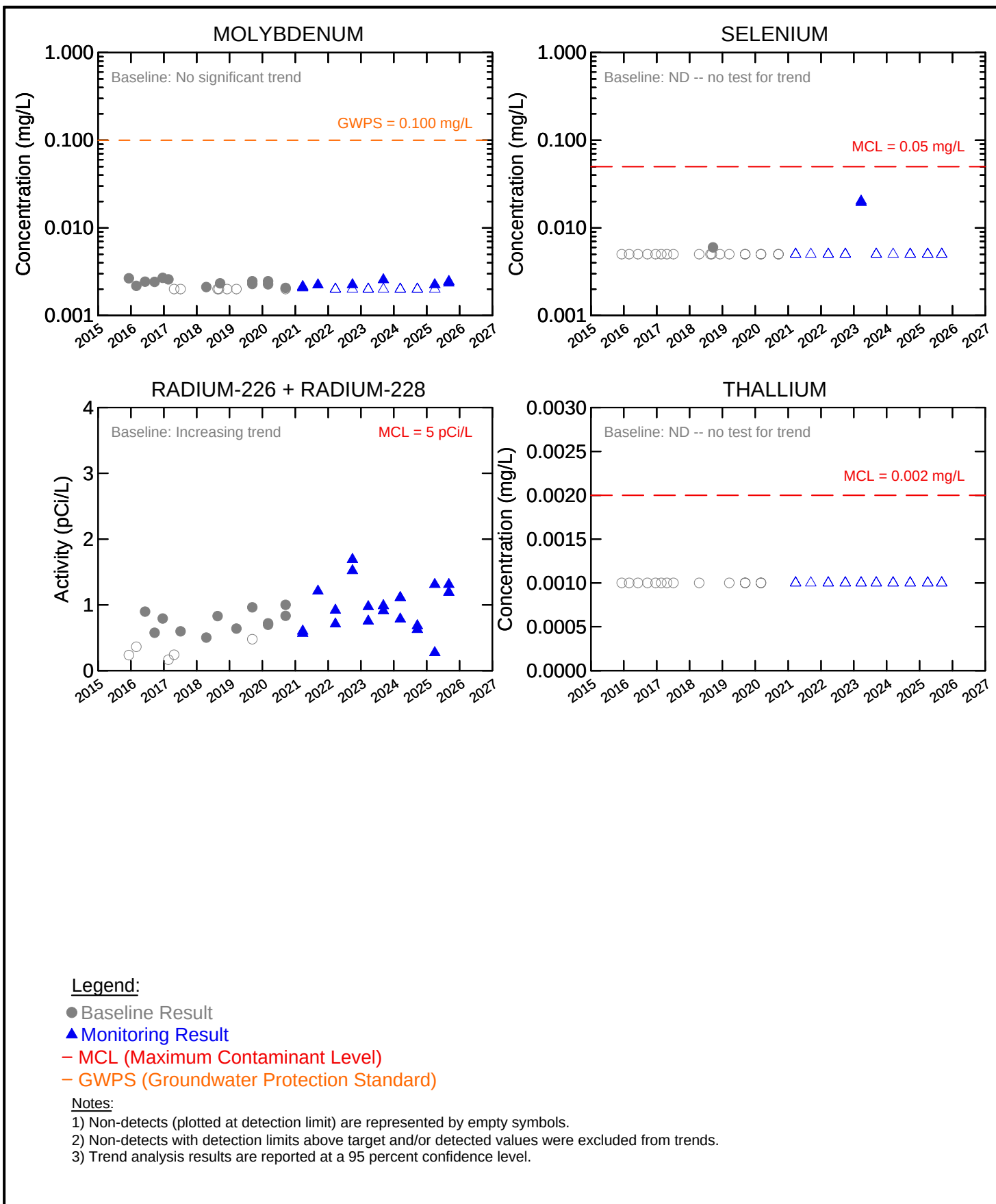


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-2 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 26, 2025

FIGURE 1.d

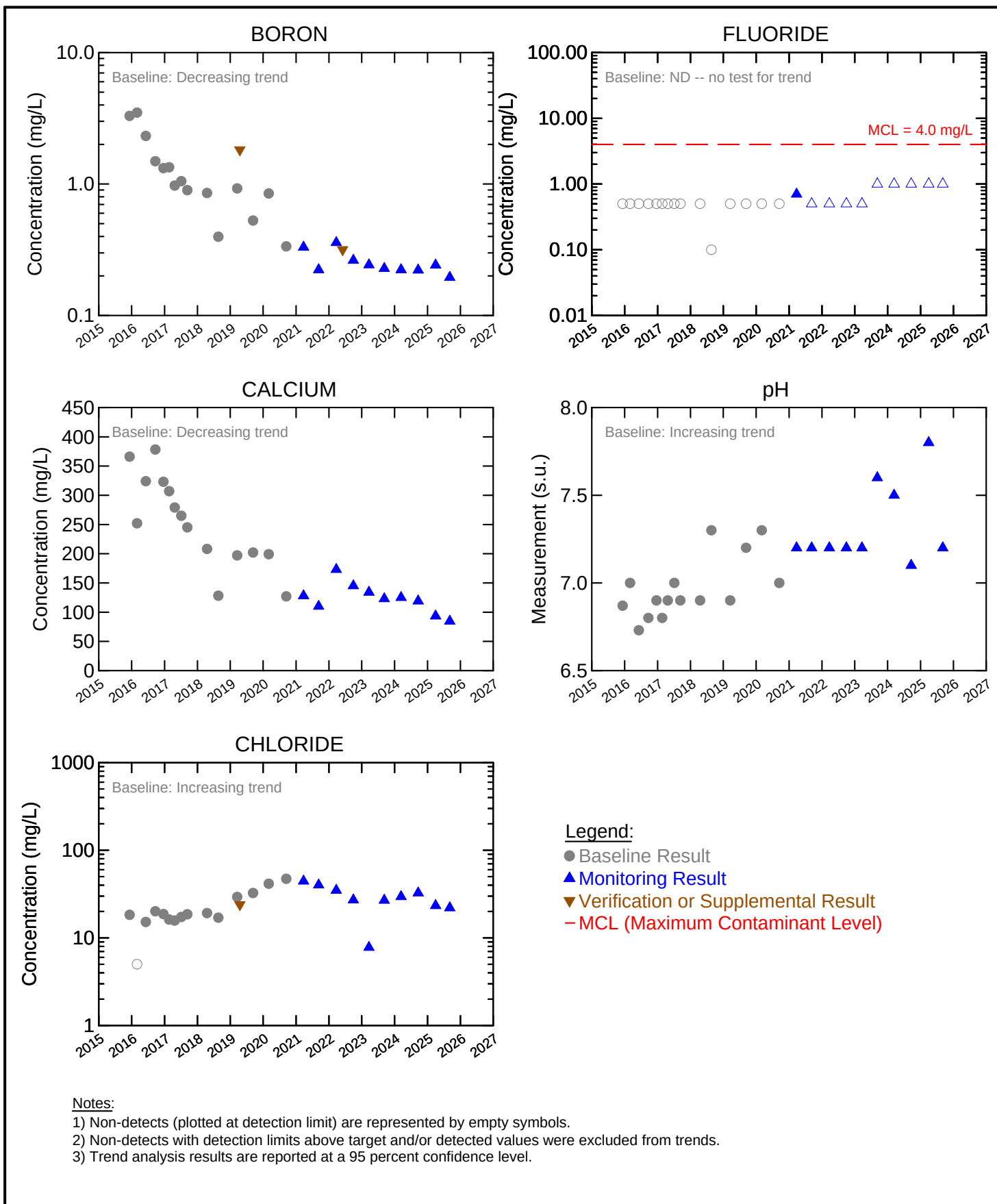


MidAmerican Energy Company
 Neal South CCR Monofill
 Salix, Iowa

**MW-2 -- APPENDIX IV PARAMETERS
 ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
 Date: Nov 24, 2025

FIGURE 1.e

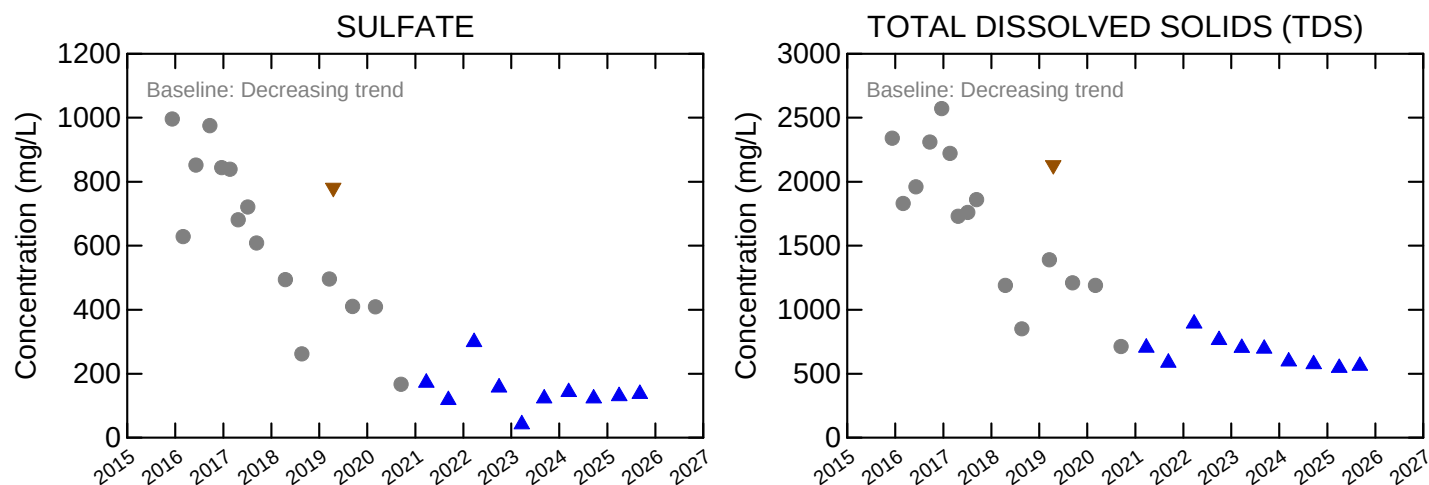


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-4 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 2.a



Legend:

- Baseline Result
- ▲ Detection Monitoring Result
- ▼ Verification or Supplemental Result

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

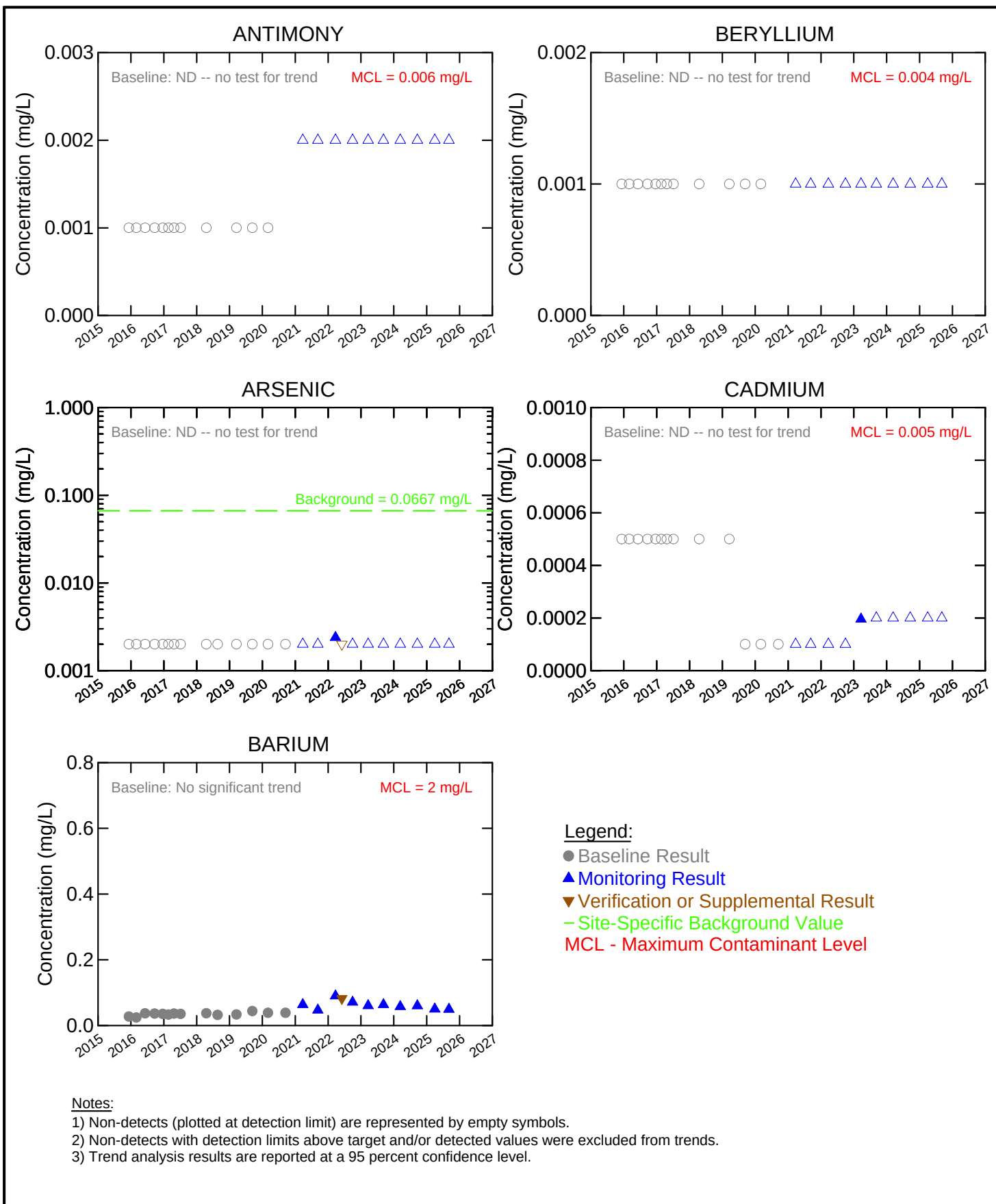


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-4 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. **12576485**
Date: **Nov 24, 2025**

FIGURE 2.b

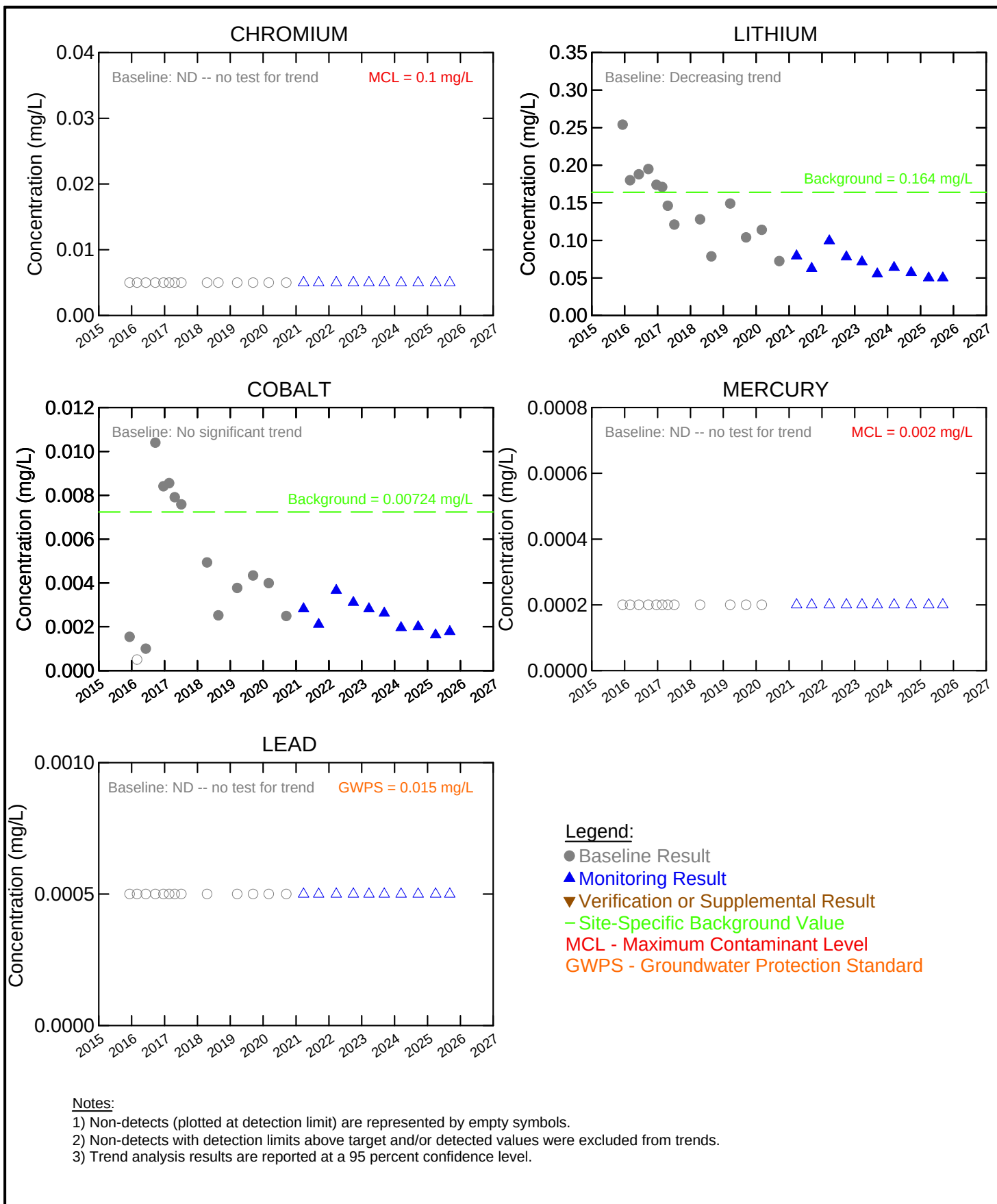


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-4 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 2.c

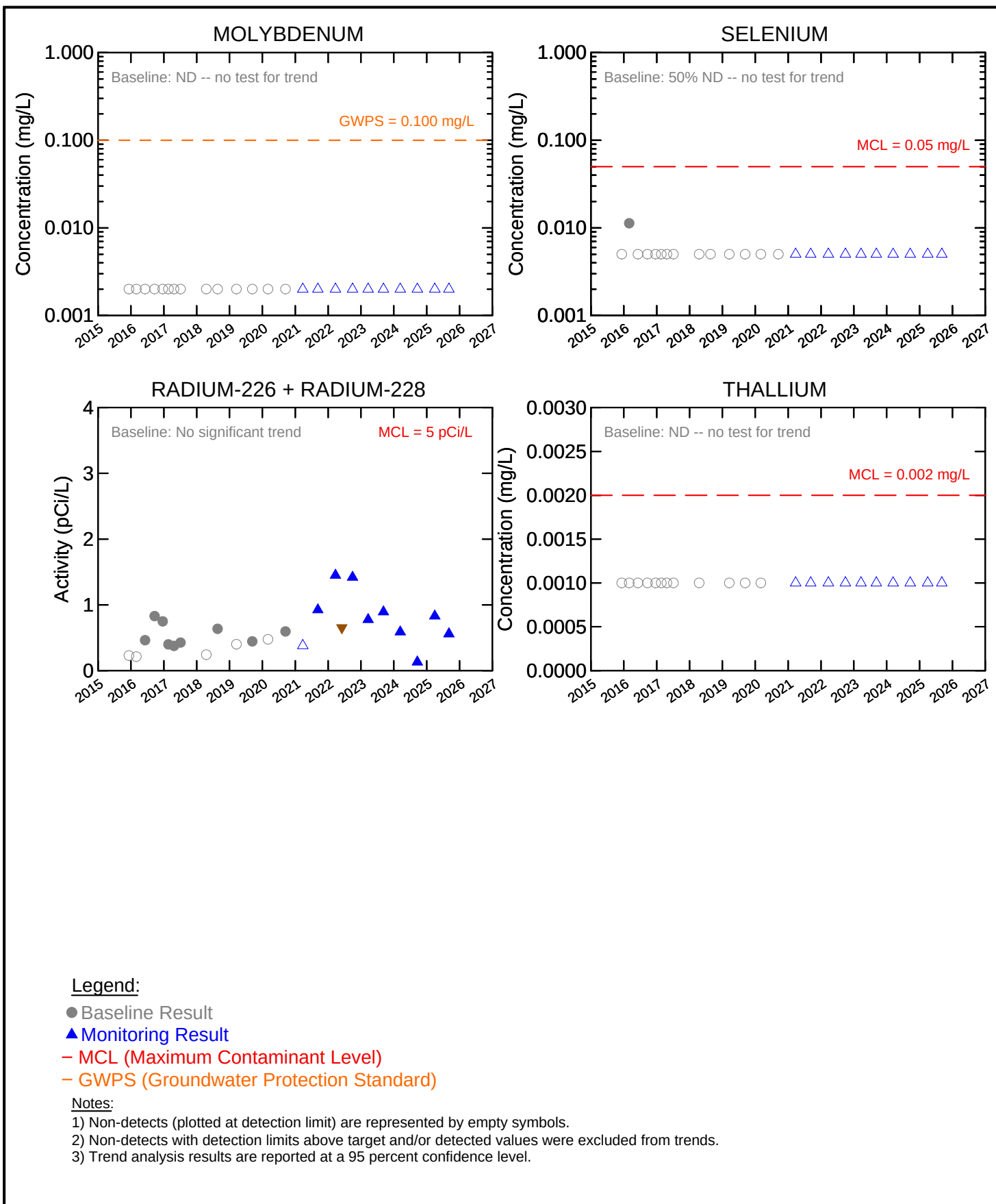


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-4 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 26, 2025

FIGURE 2.d

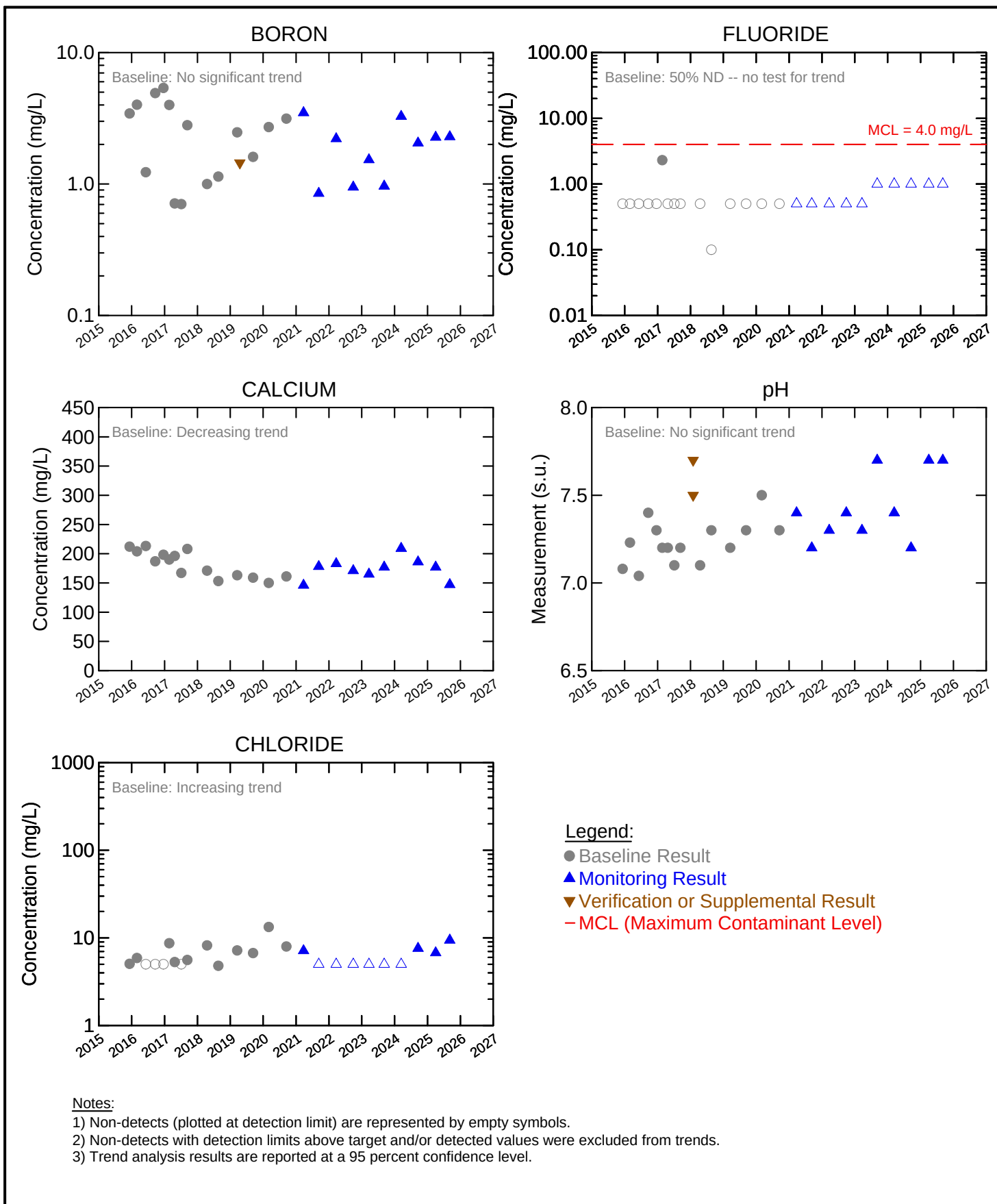


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-4 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 24, 2025

FIGURE 2.e

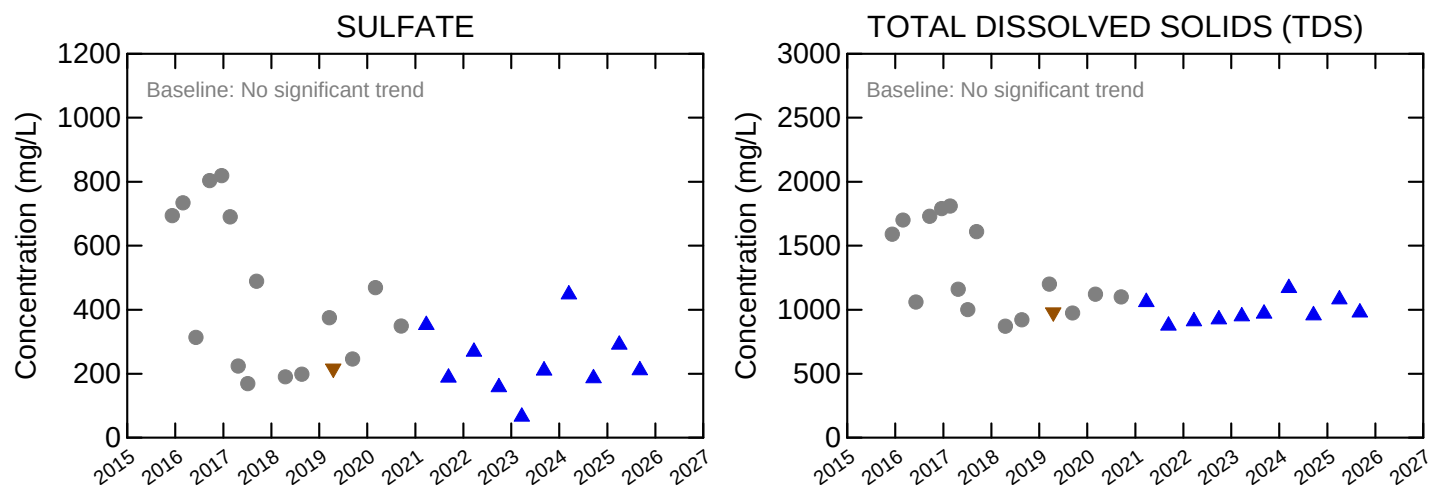


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-8 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 3.a



Legend:

- Baseline Result
- ▲ Detection Monitoring Result
- ▼ Verification or Supplemental Result

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

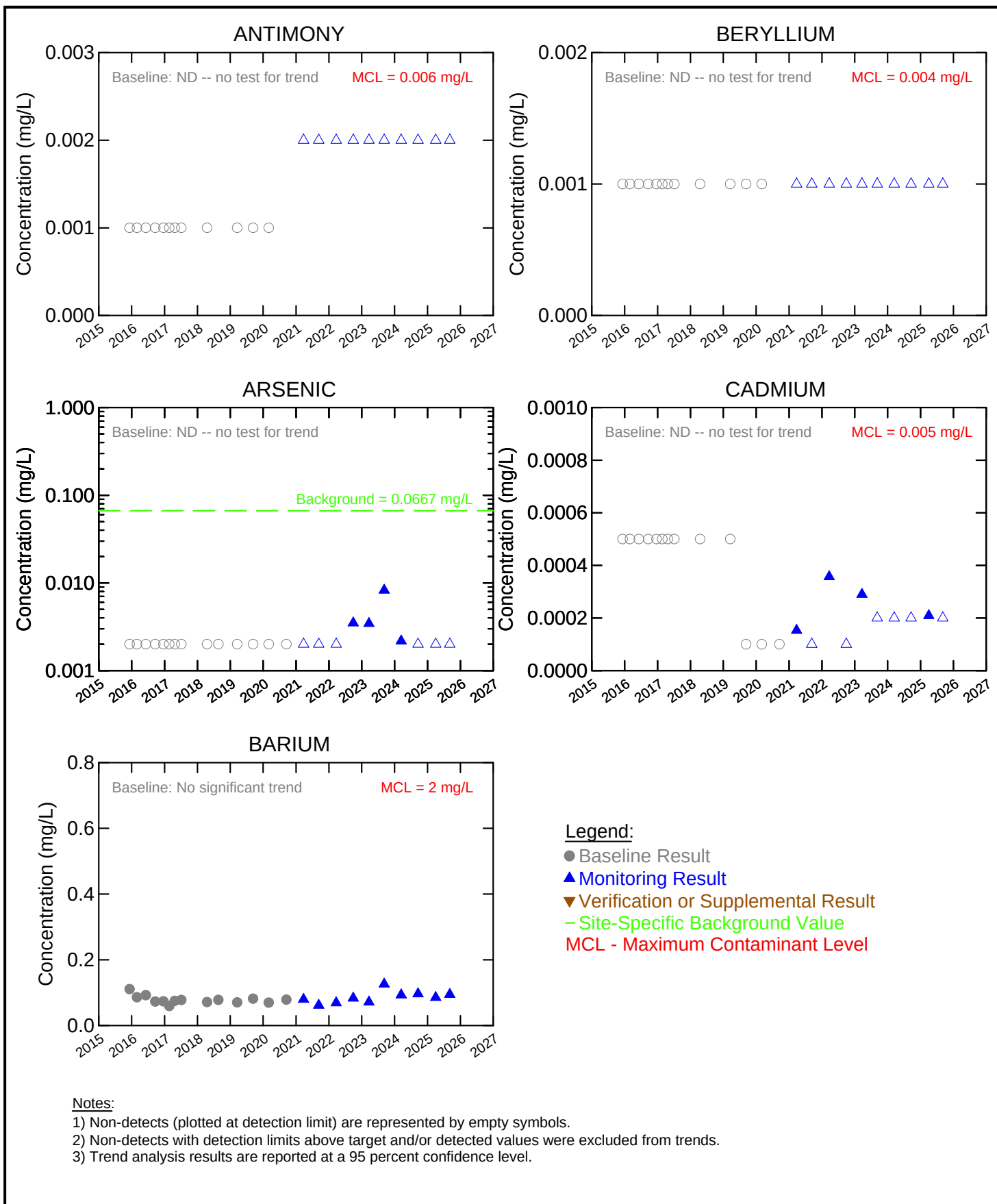


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-8 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 24, 2025

FIGURE 3.b

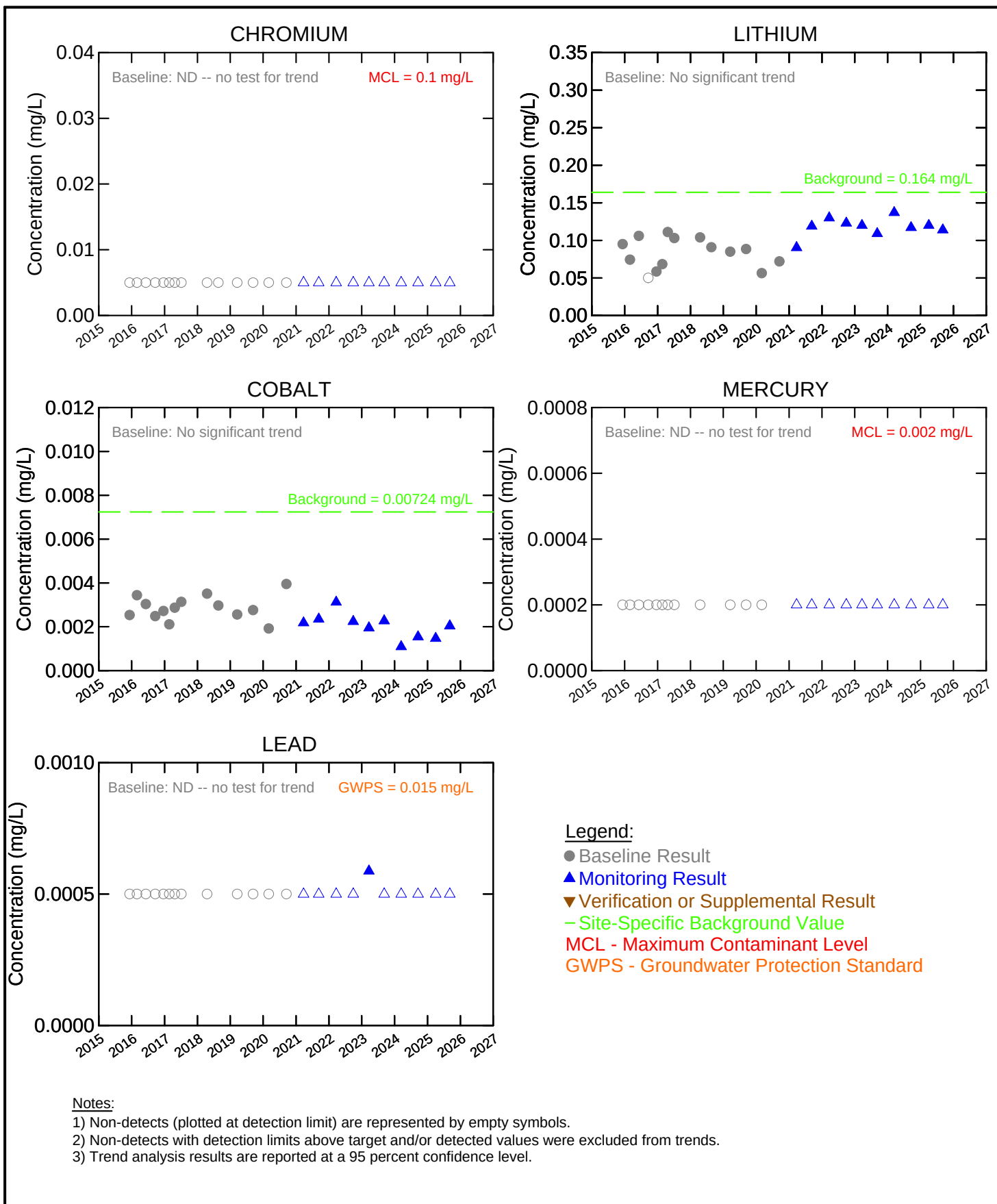


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-8 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 3.c

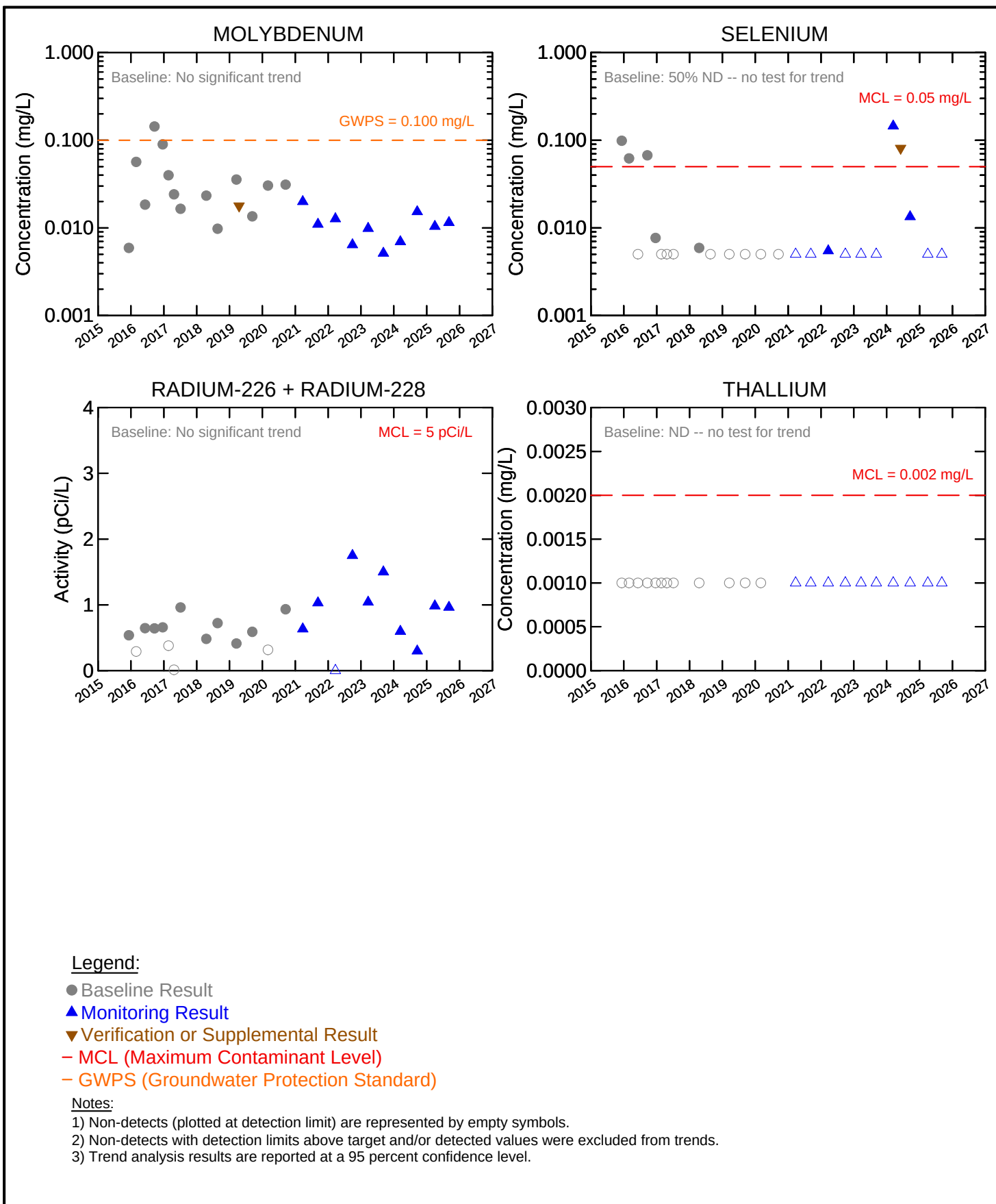


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-8 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 26, 2025

FIGURE 3.d

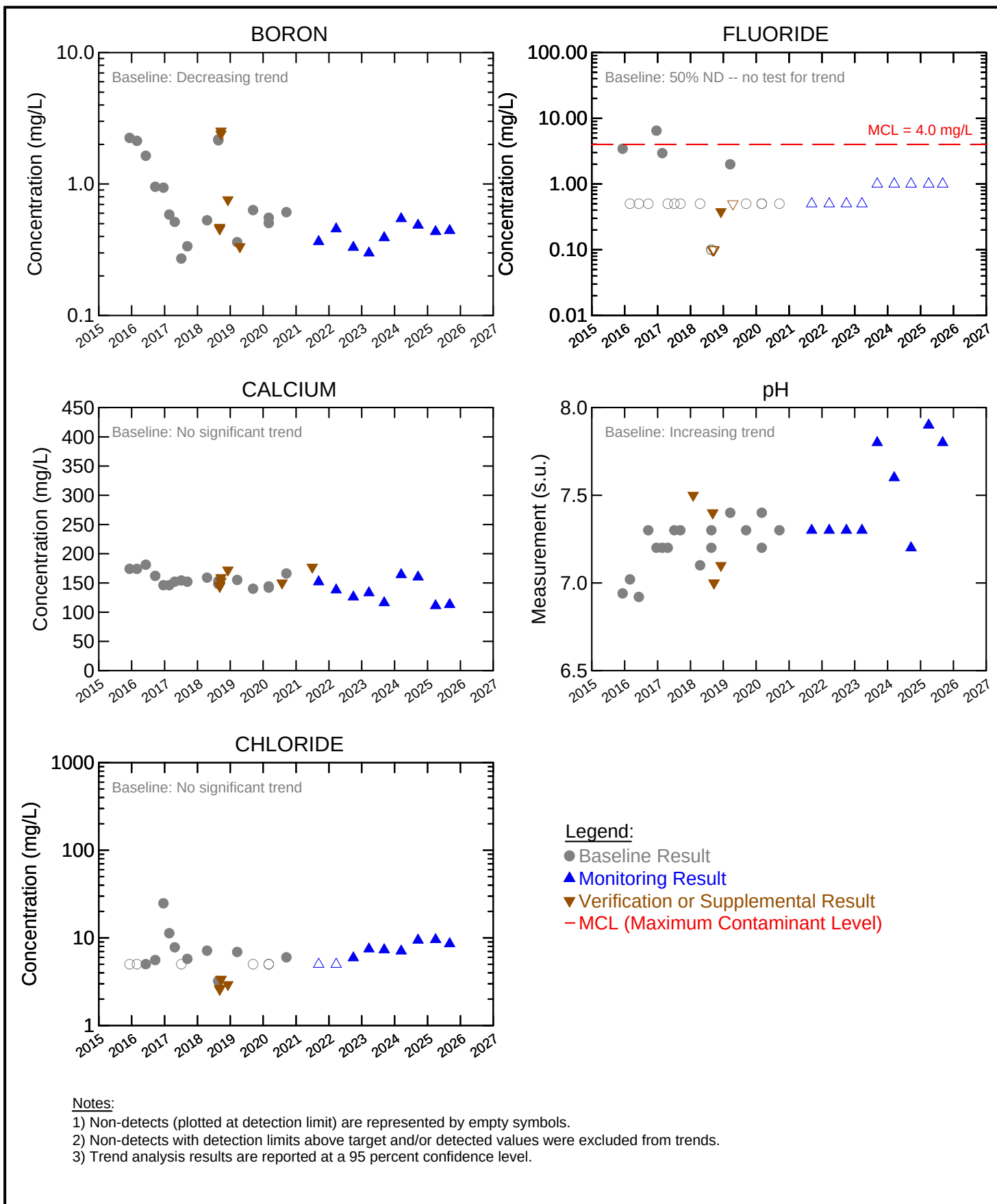


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-8 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 24, 2025

FIGURE 3.e

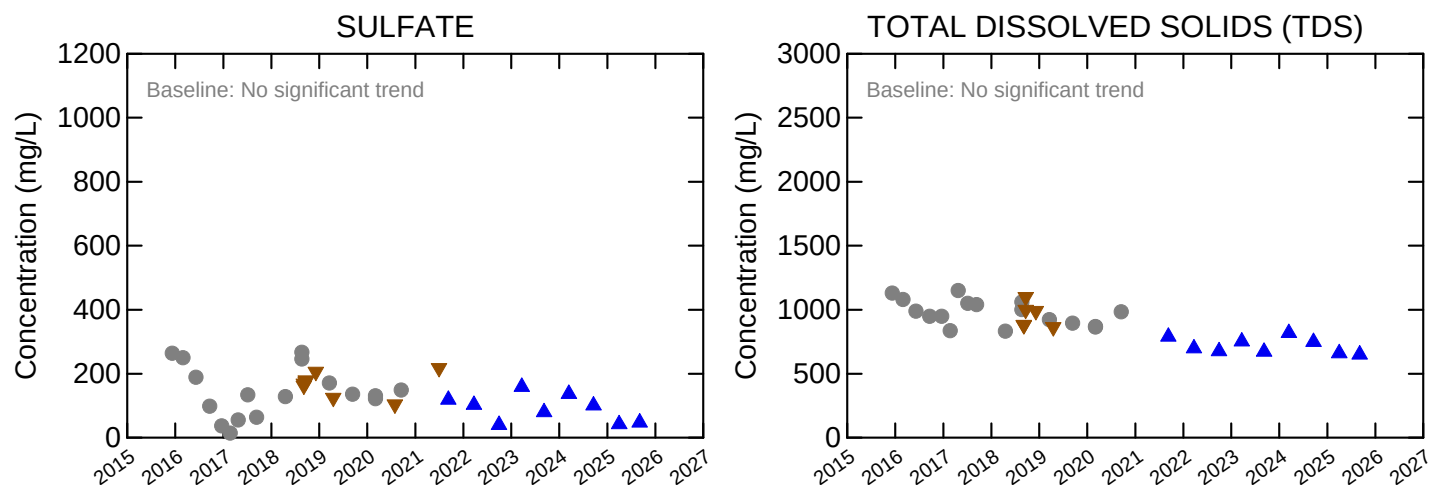


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-10 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 4.a



Legend:

- Baseline Result
- ▲ Detection Monitoring Result
- ▼ Verification or Supplemental Result

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

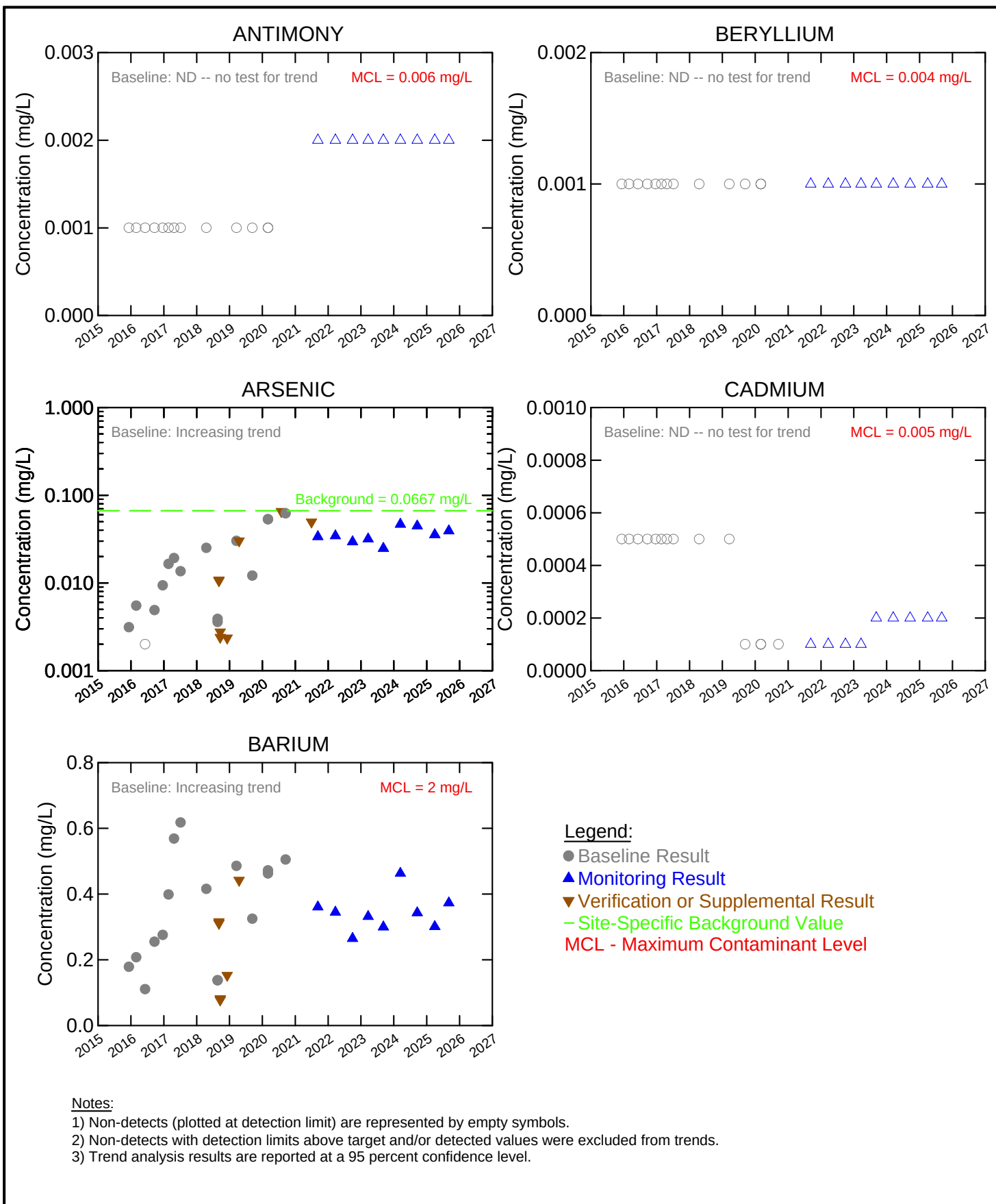


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-10 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. **12576485**
Date: **Nov 24, 2025**

FIGURE 4.b

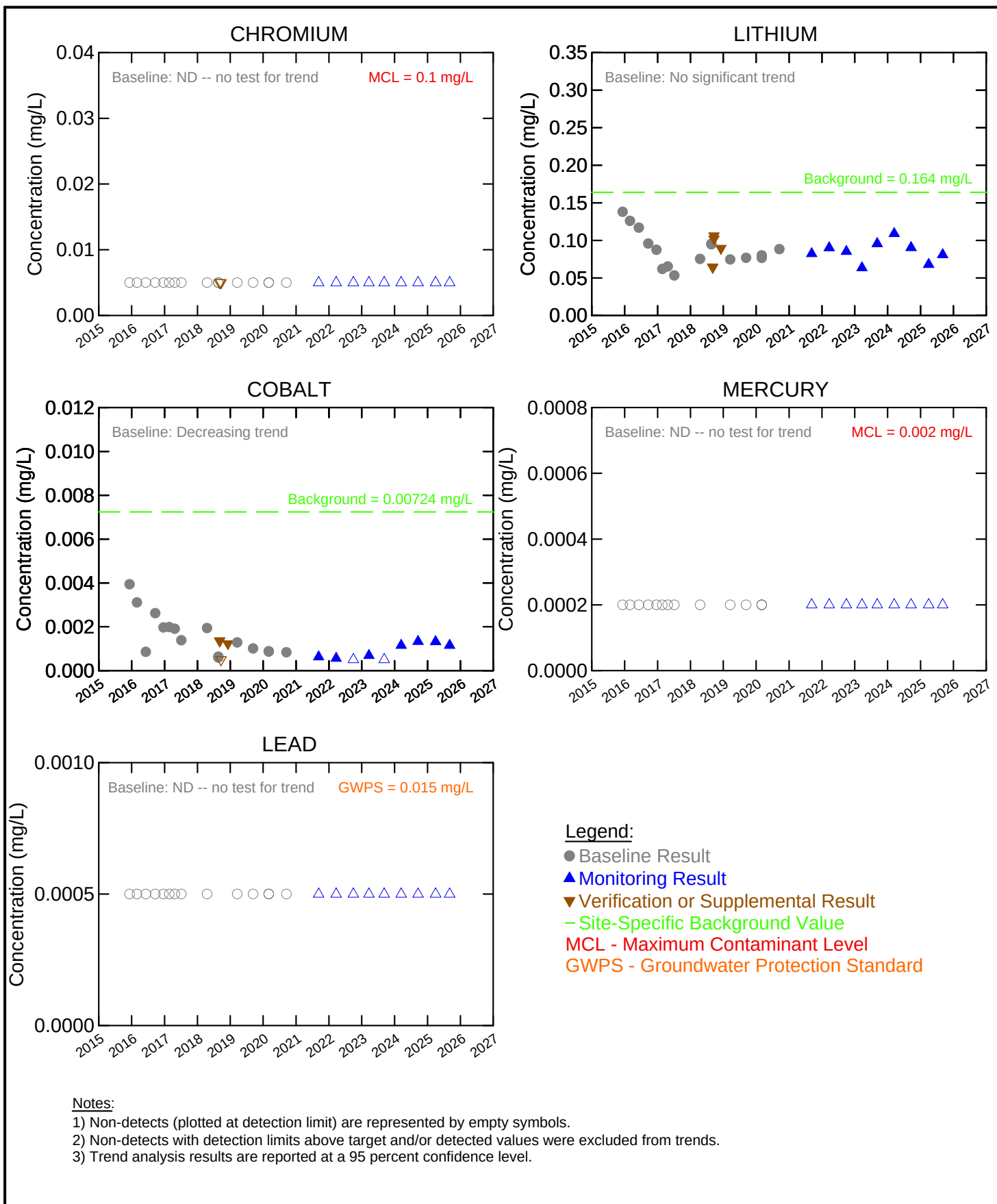


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-10 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 4.c

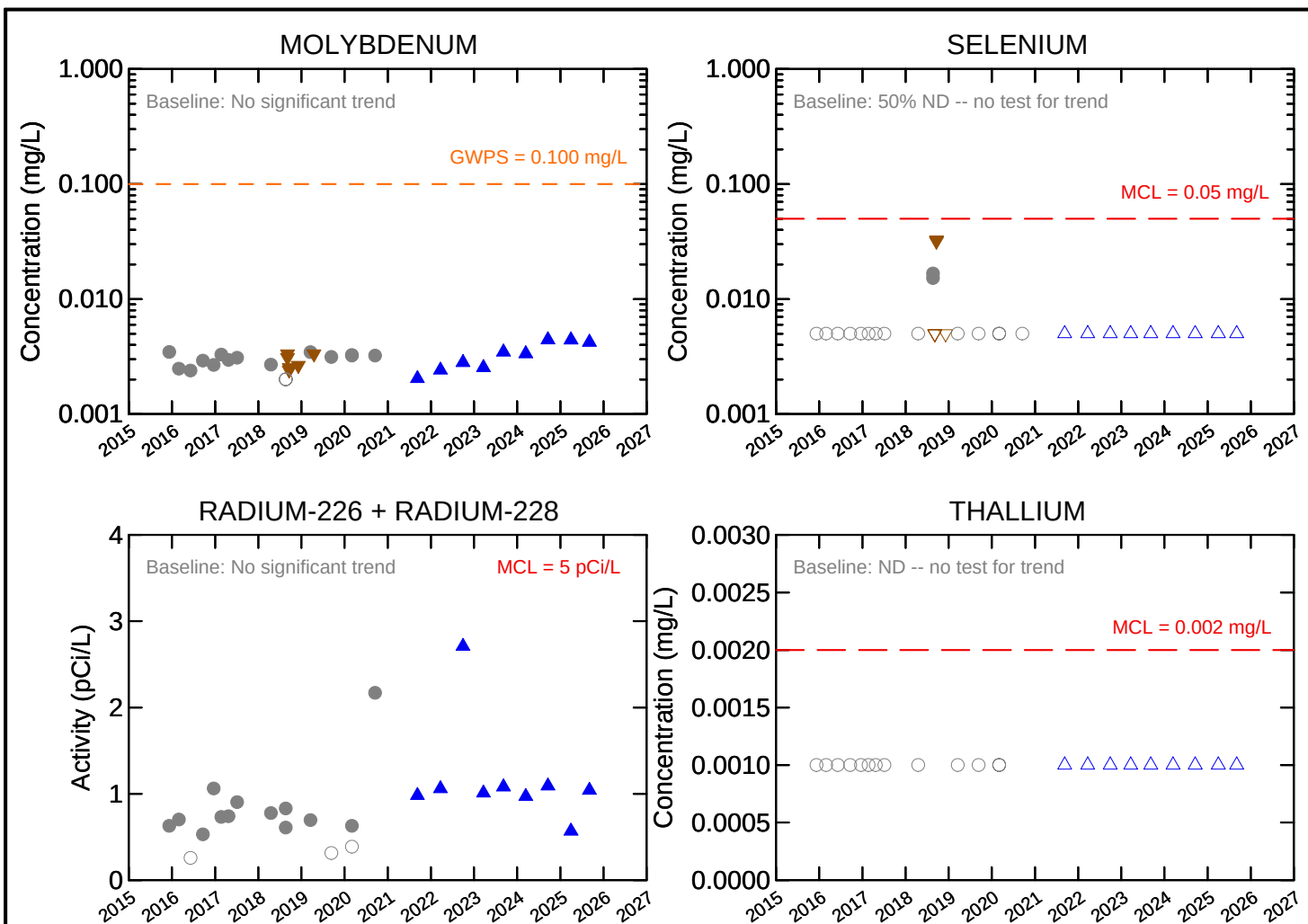


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-10 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 26, 2025

FIGURE 4.d



Legend:

- Baseline Result
- ▲ Monitoring Result
- ▼ Verification or Supplemental Result
- MCL (Maximum Contaminant Level)
- GWPS (Groundwater Protection Standard)

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

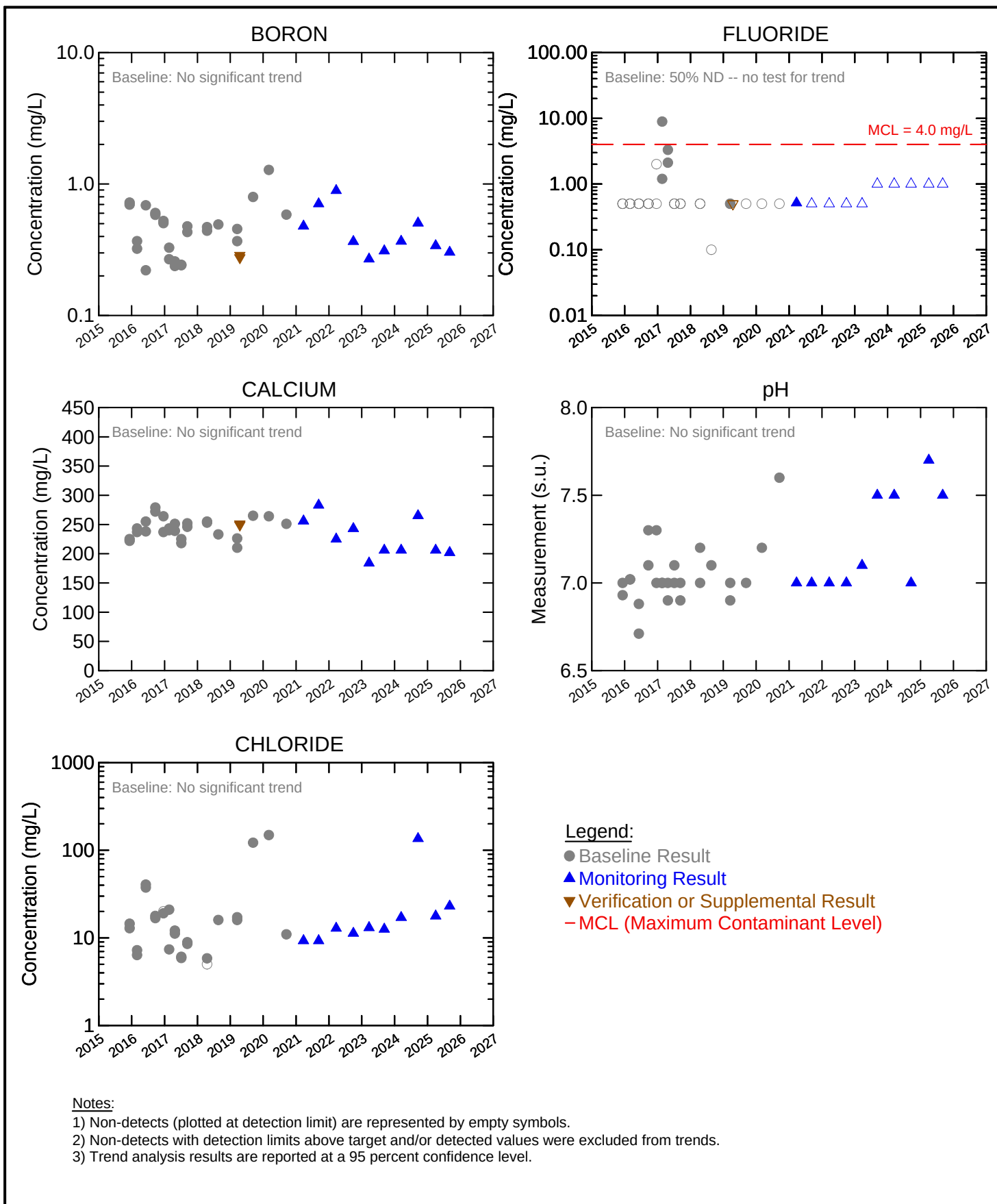


MidAmerican Energy Company
 Neal South CCR Monofill
 Salix, Iowa

**MW-10 -- APPENDIX IV PARAMETERS
 ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
 Date: Nov 24, 2025

FIGURE 4.e

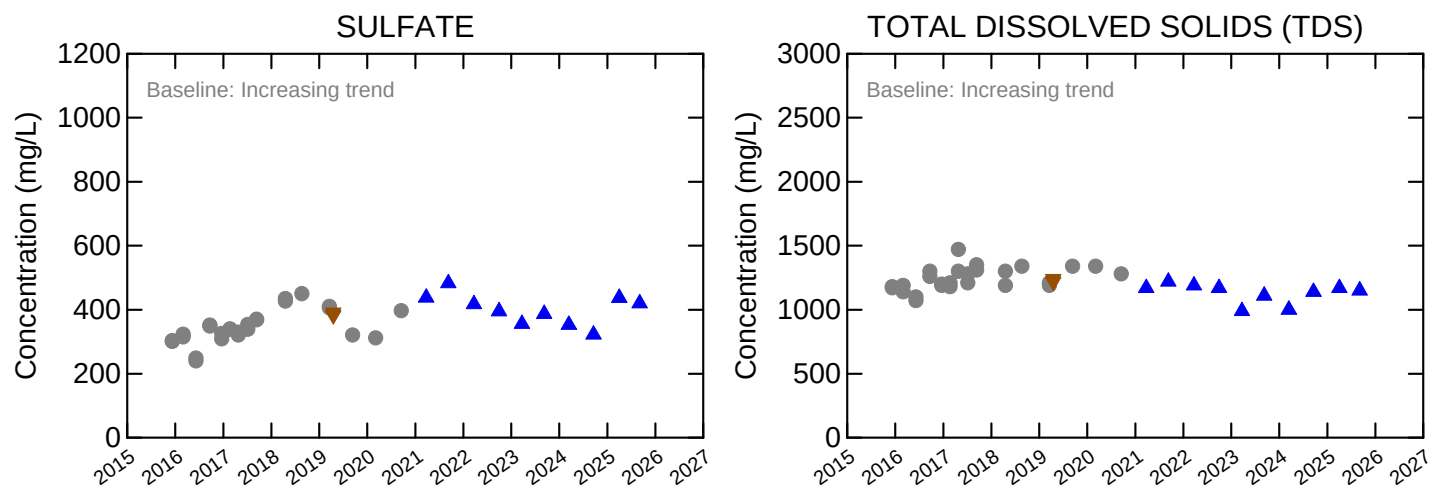


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-11 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 5.a

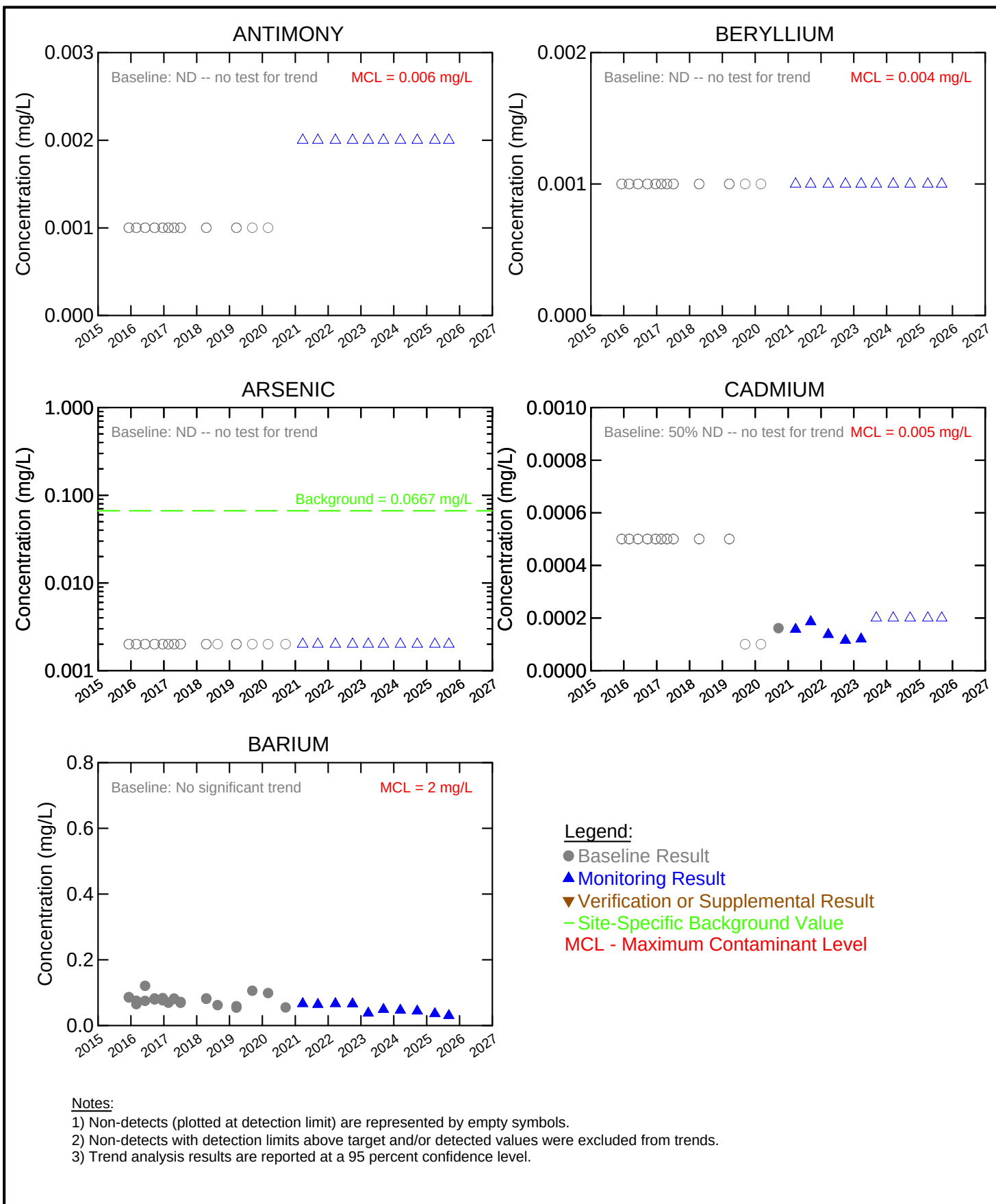


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-11 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 24, 2025

FIGURE 5.b

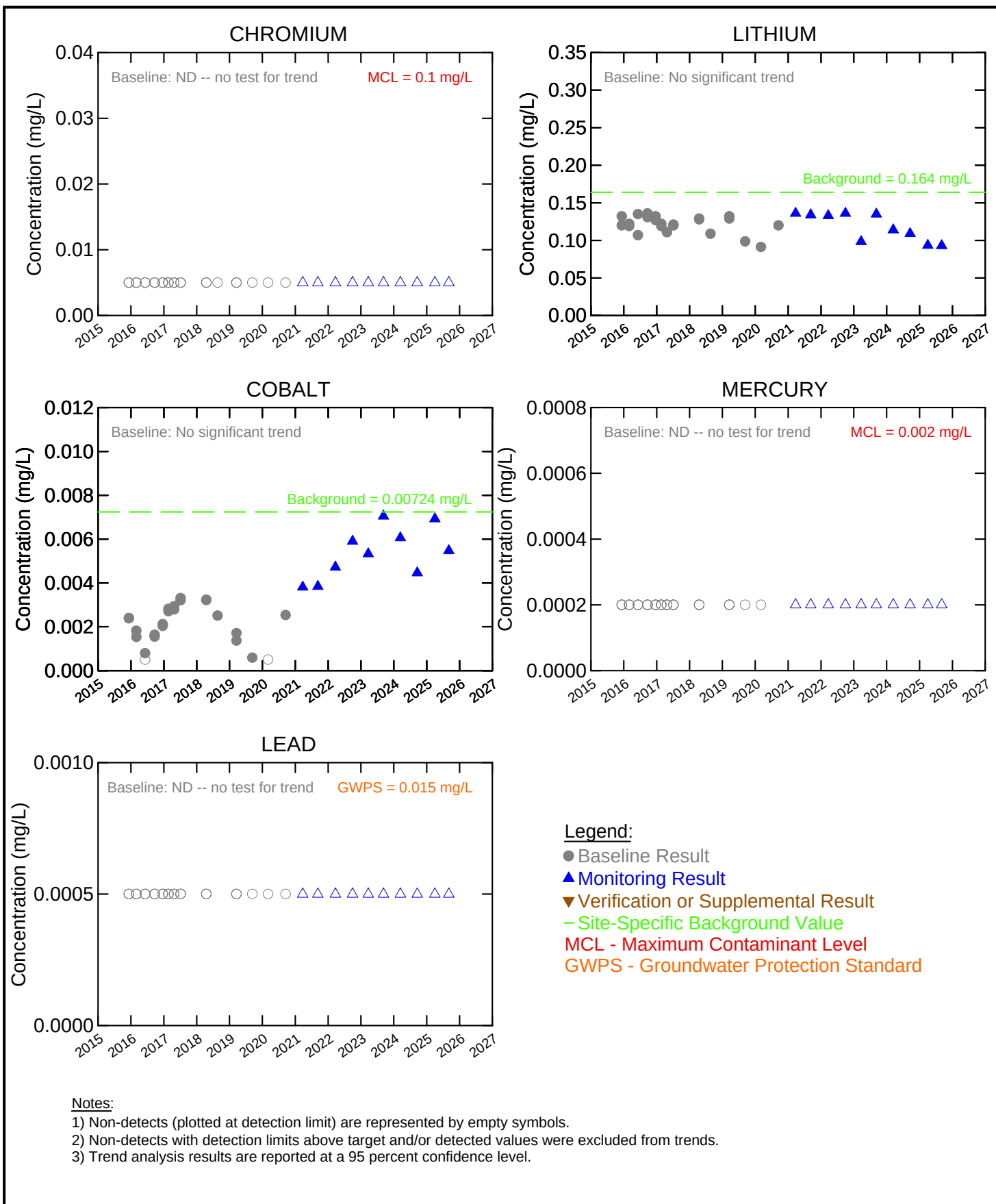


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-11 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 5.c

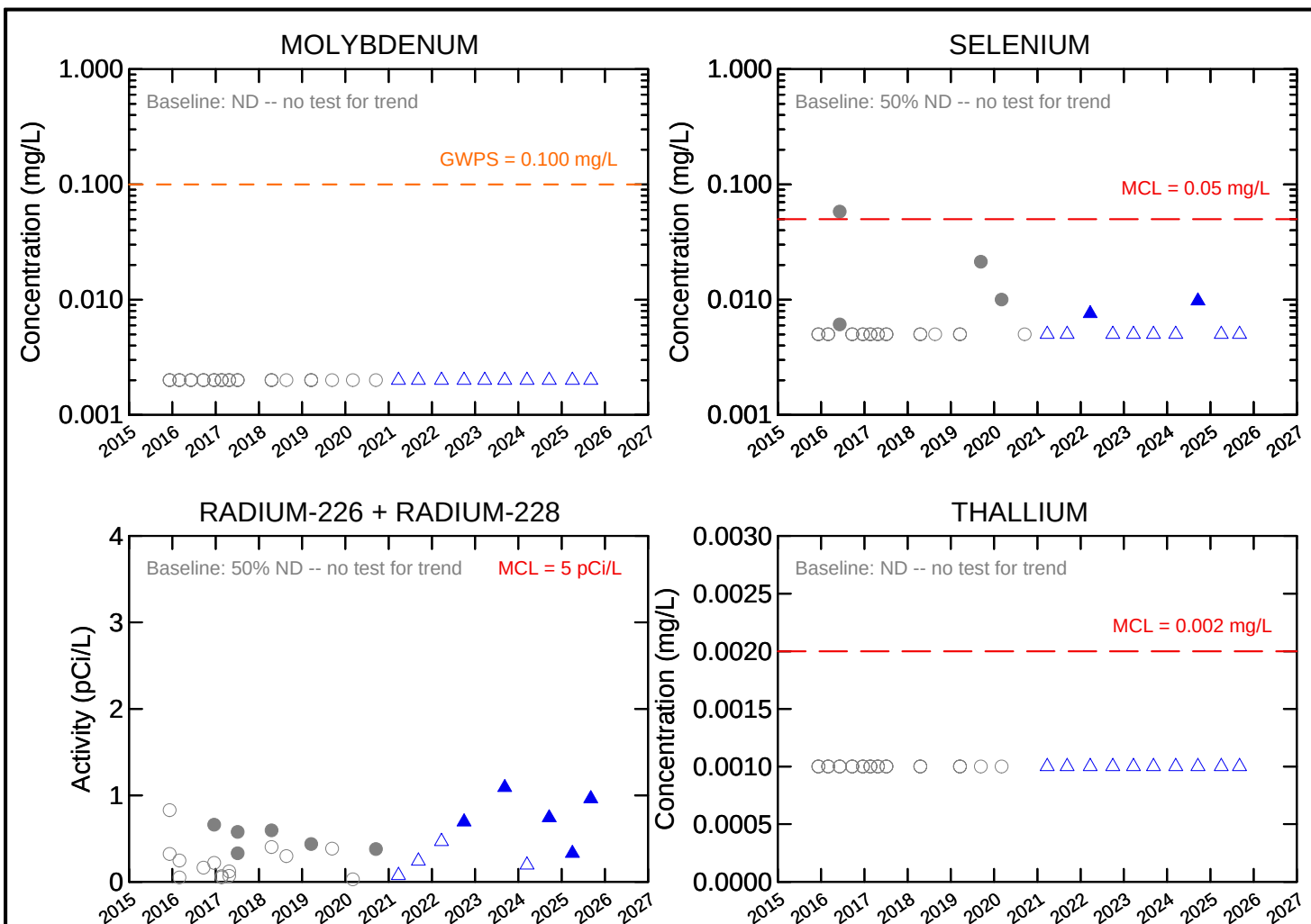


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-11 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 26, 2025

FIGURE 5.d



Legend:

- Baseline Result
- ▲ Monitoring Result
- ▼ Verification or Supplemental Result
- MCL (Maximum Contaminant Level)
- GWPS (Groundwater Protection Standard)

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

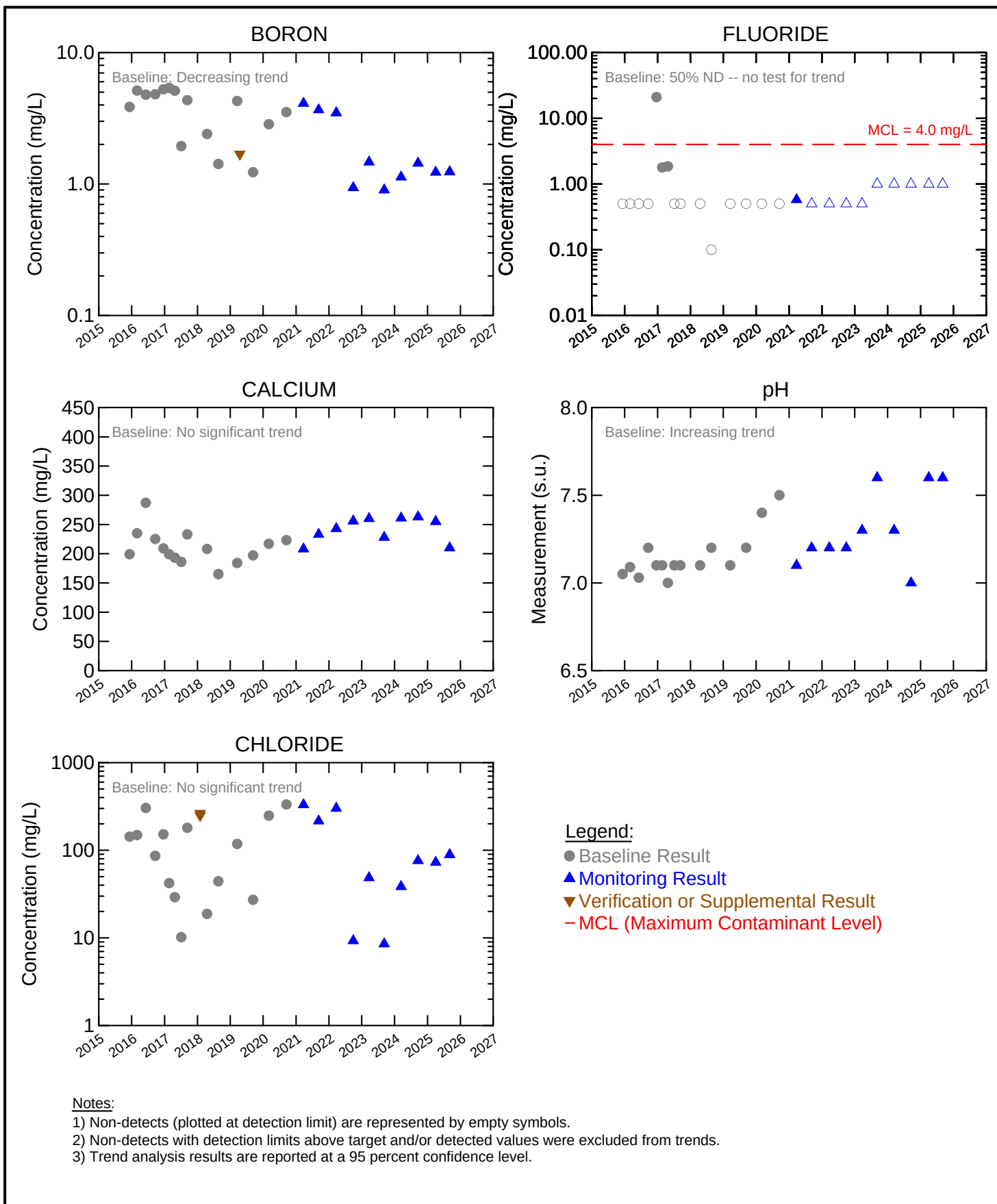


MidAmerican Energy Company
 Neal South CCR Monofill
 Salix, Iowa

**MW-11 -- APPENDIX IV PARAMETERS
 ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
 Date: Nov 24, 2025

FIGURE 5.e

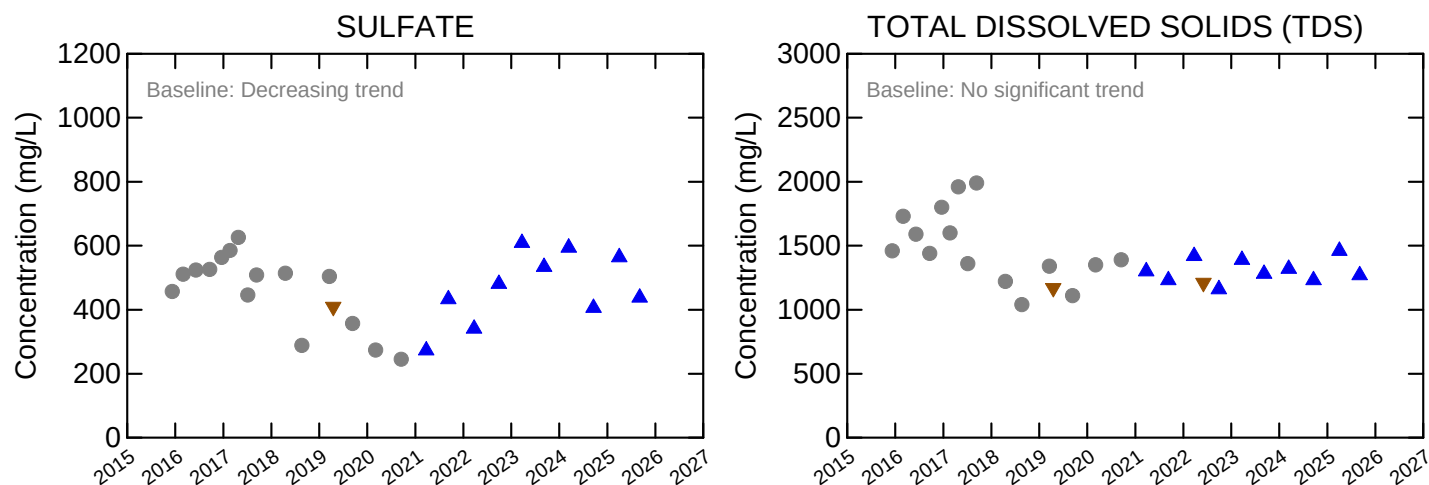


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-12 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 6.a



Legend:

- Baseline Result
- ▲ Detection Monitoring Result
- ▼ Verification or Supplemental Result

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

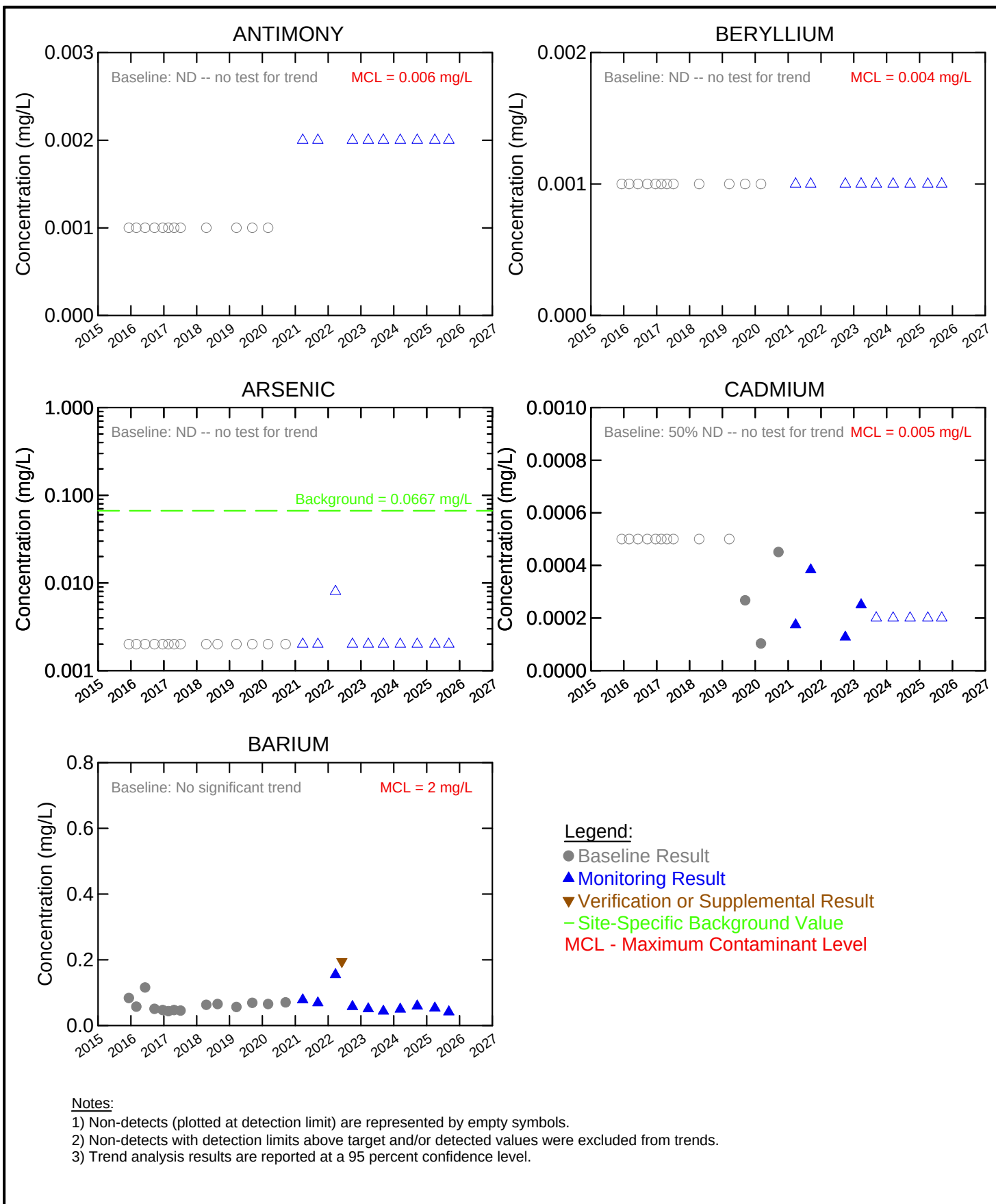


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-12 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. **12576485**
Date: **Nov 24, 2025**

FIGURE 6.b

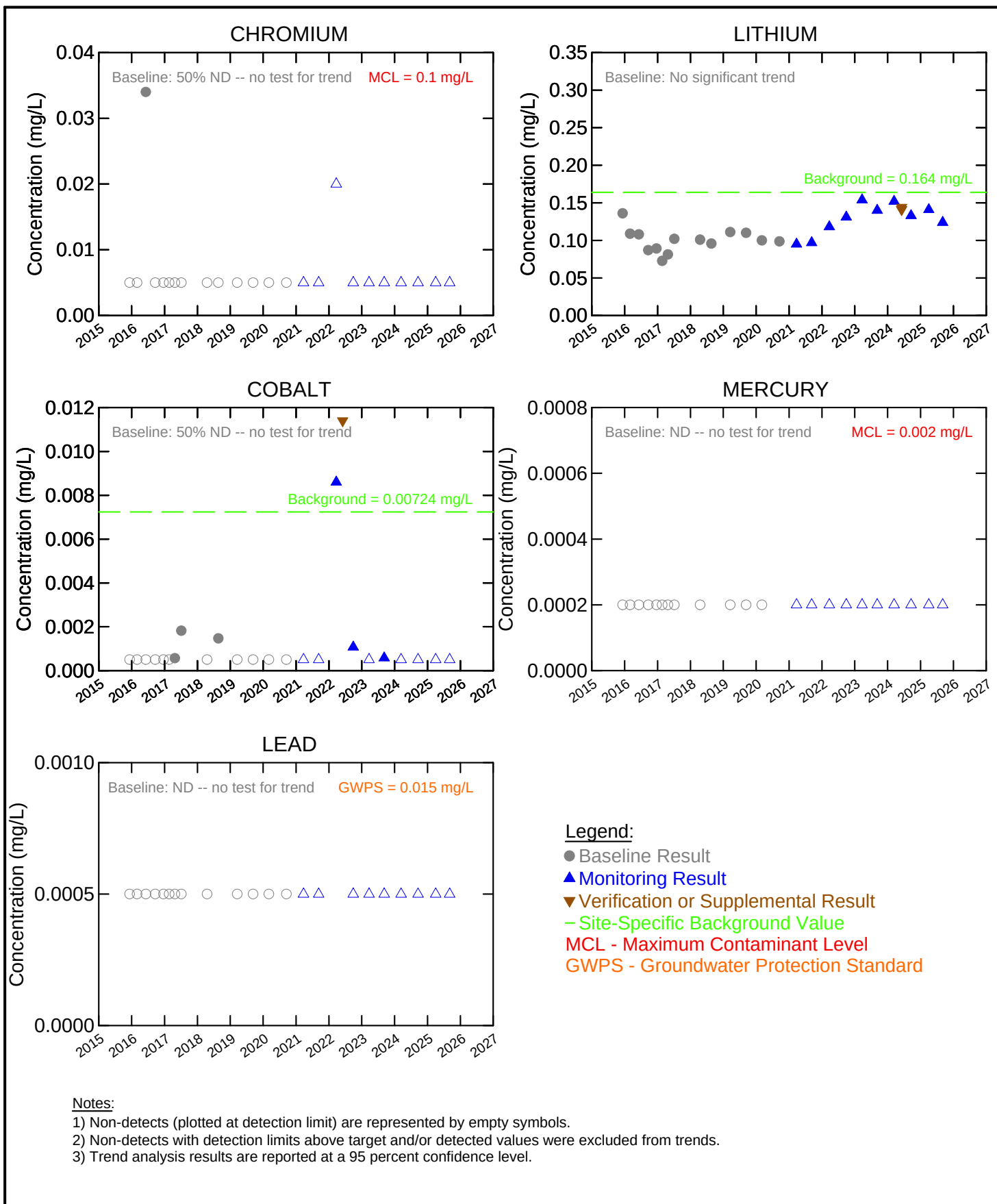


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-12 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 6.c

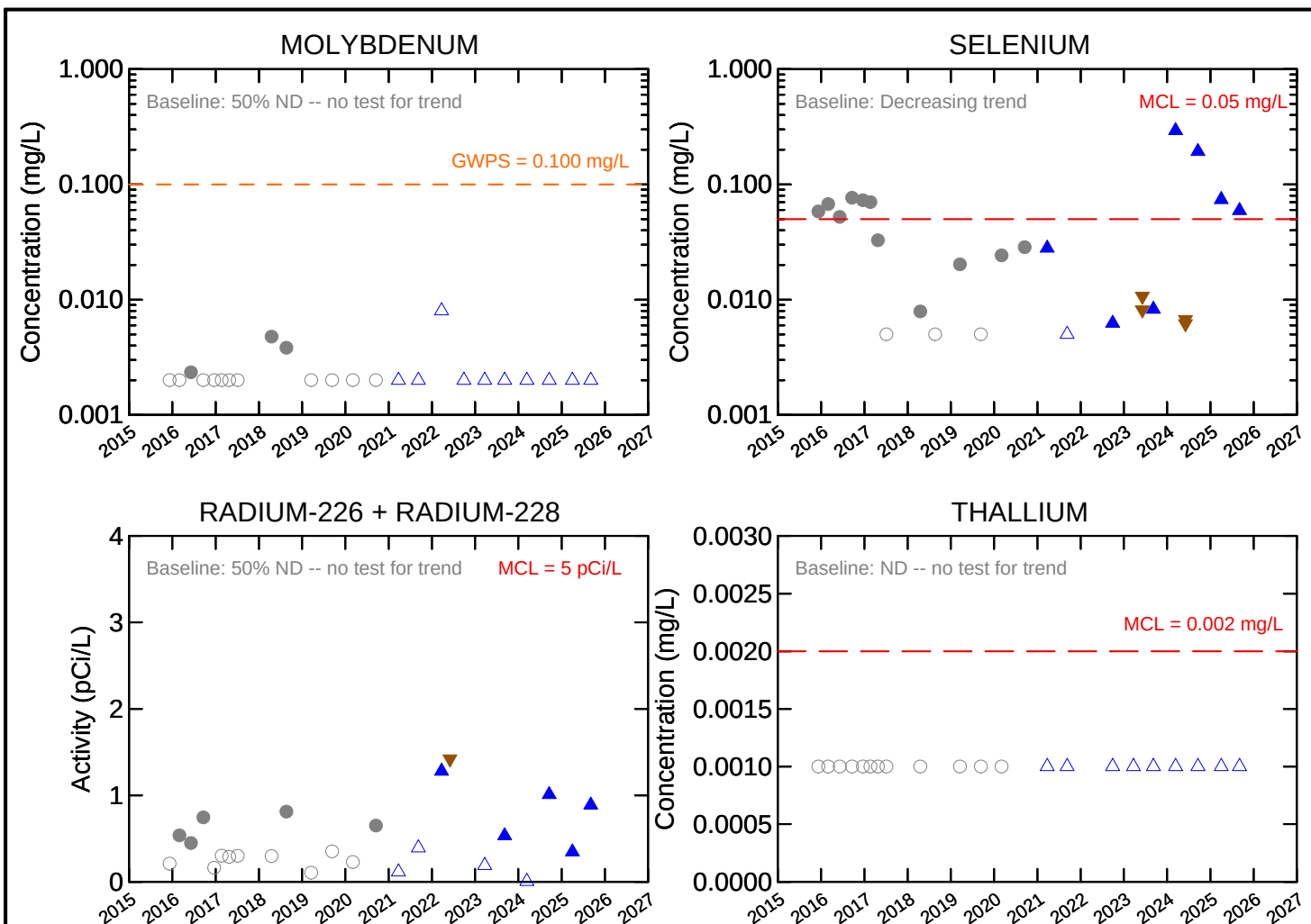


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-12 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 26, 2025

FIGURE 6.d



Legend:

- Baseline Result
- ▲ Monitoring Result
- ▼ Verification or Supplemental Result
- MCL (Maximum Contaminant Level)
- GWPS (Groundwater Protection Standard)

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

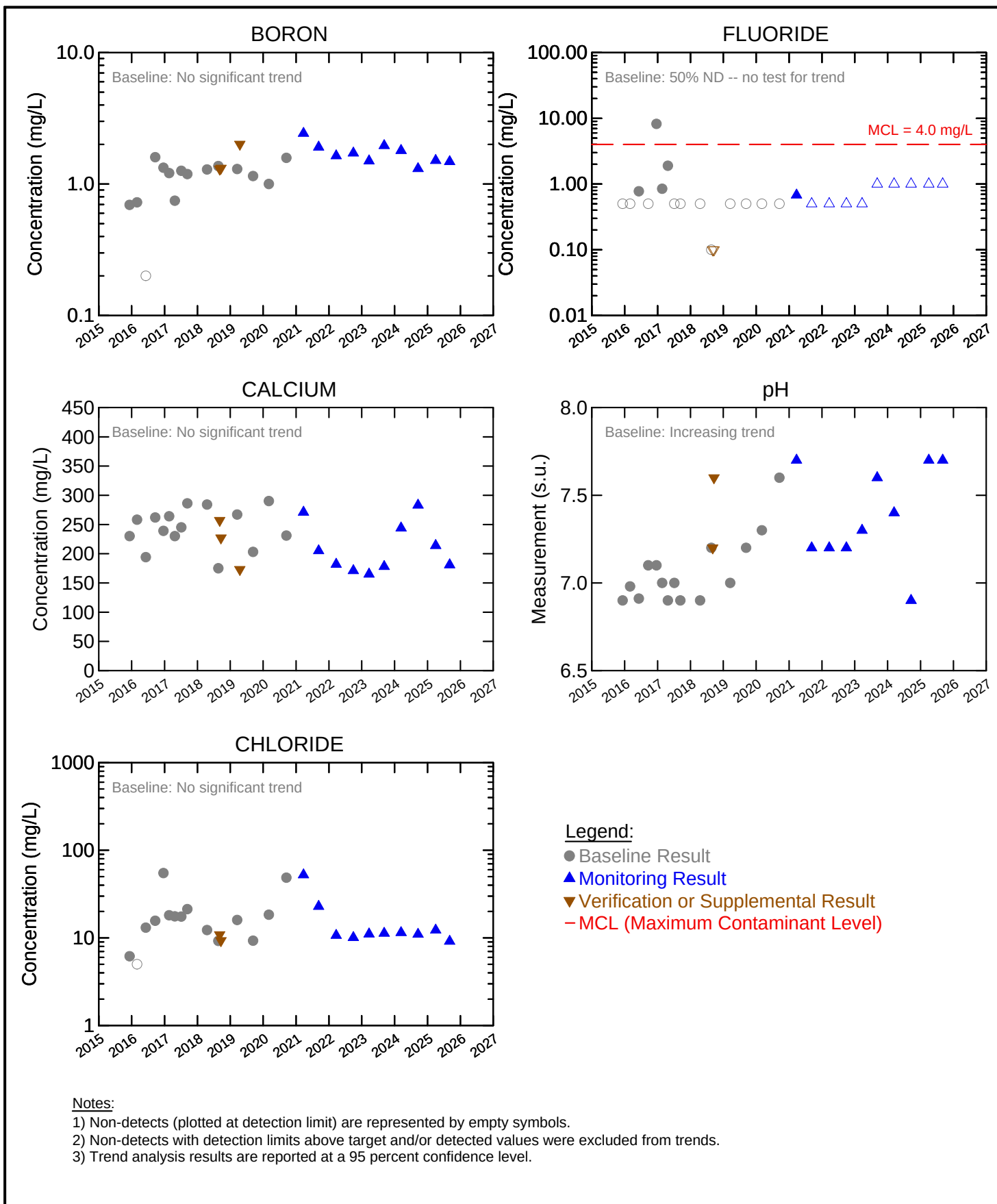


MidAmerican Energy Company
 Neal South CCR Monofill
 Salix, Iowa

**MW-12 -- APPENDIX IV PARAMETERS
 ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
 Date: Nov 24, 2025

FIGURE 6.e

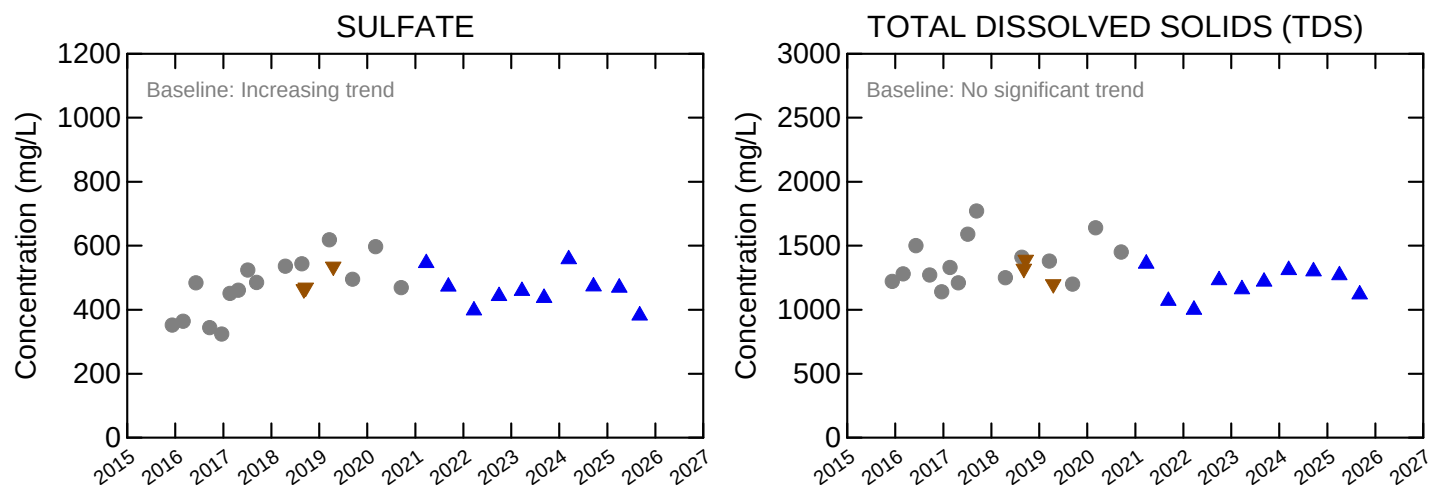


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-13 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 7.a



Legend:

- Baseline Result
- ▲ Detection Monitoring Result
- ▼ Verification or Supplemental Result

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

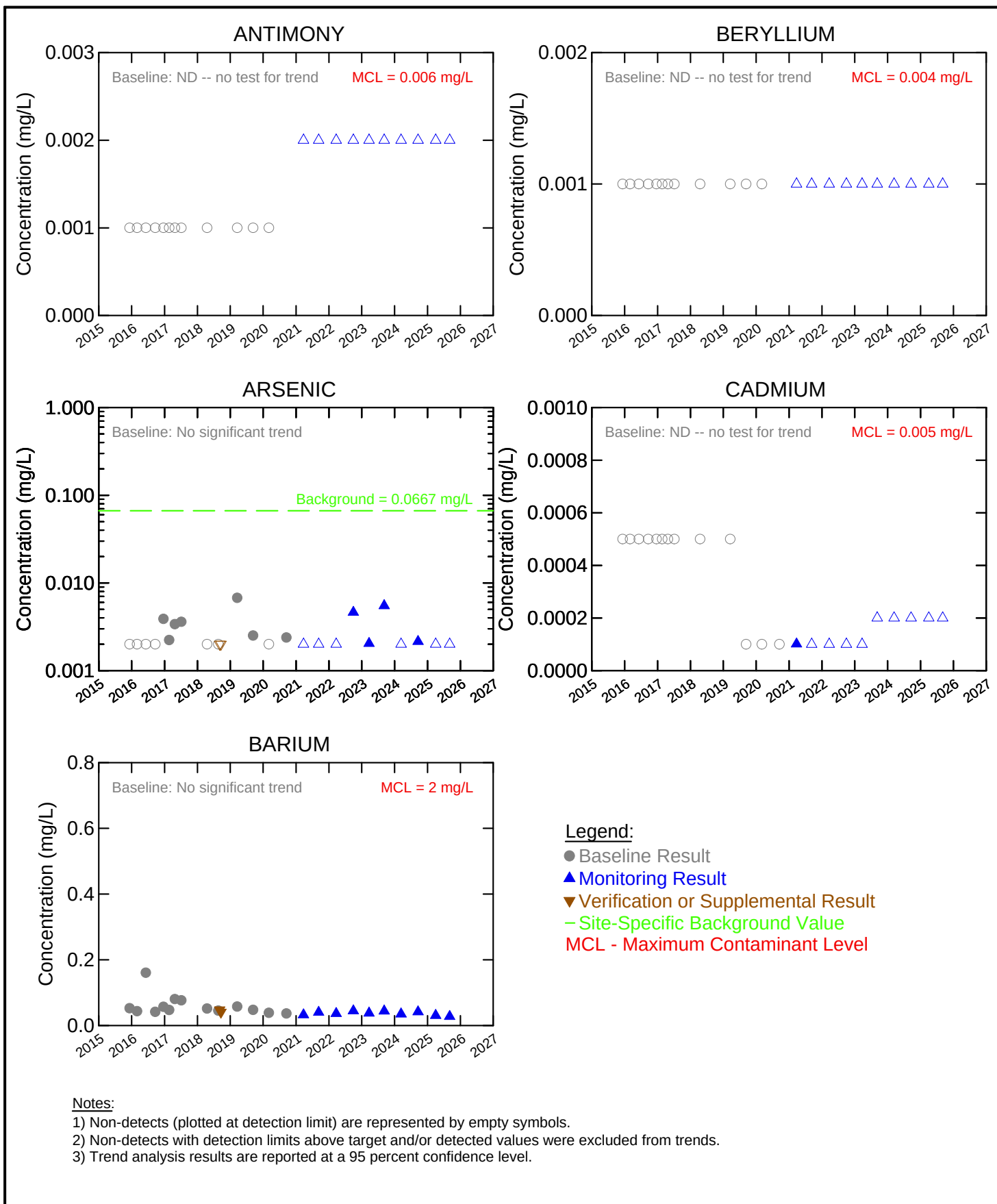


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-13 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. **12576485**
Date: **Nov 24, 2025**

FIGURE 7.b

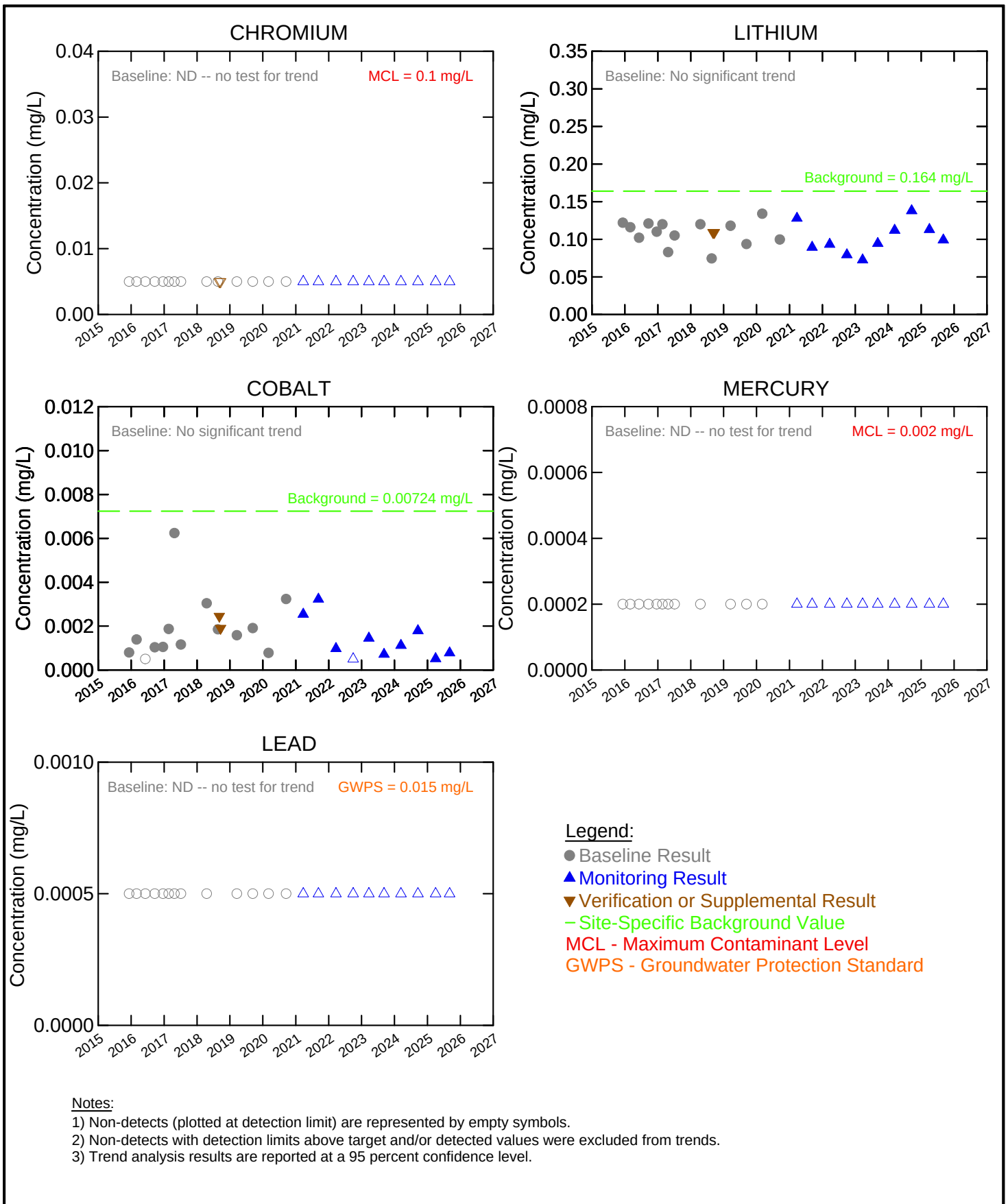


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-13 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 7.c

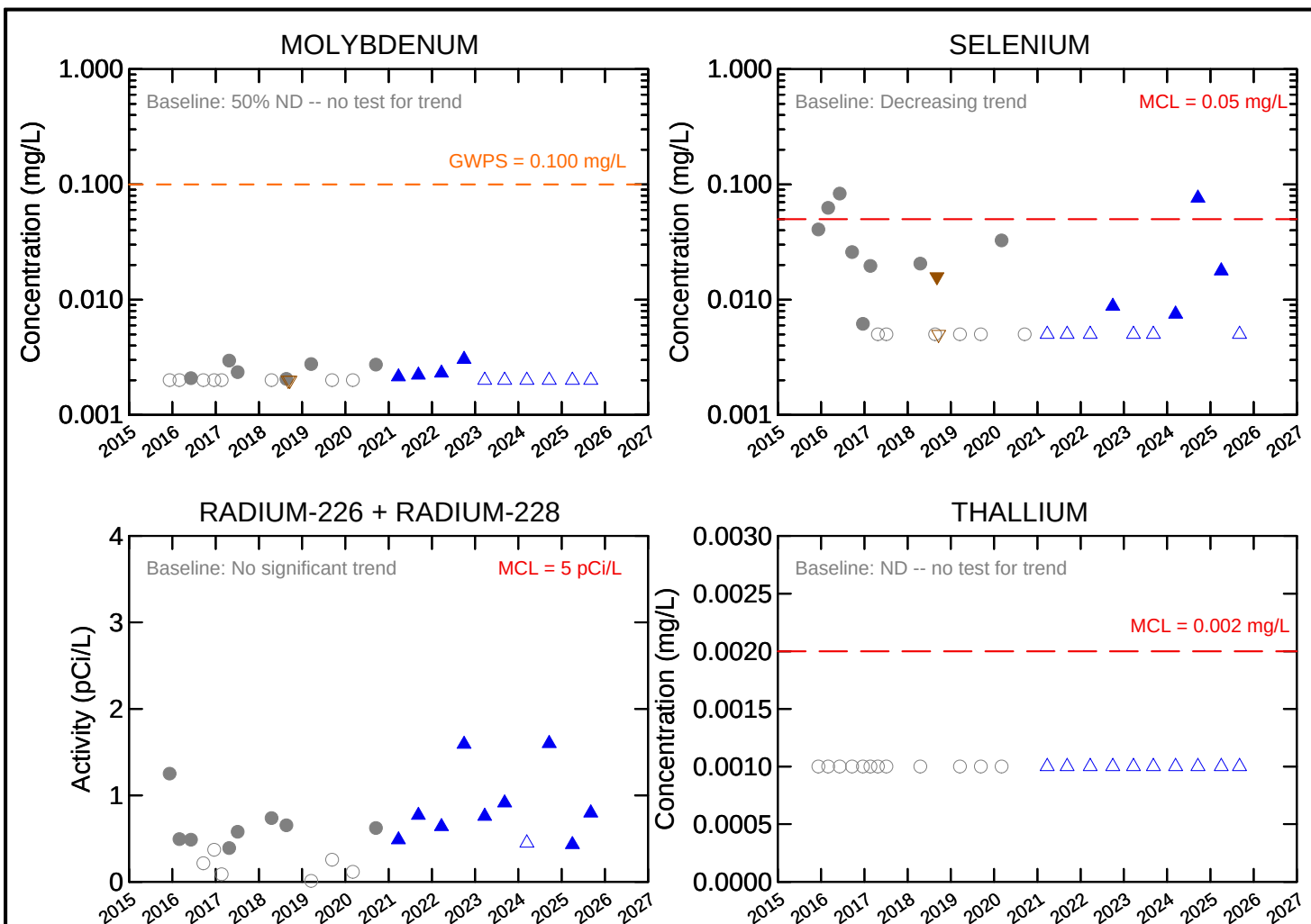


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-13 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 26, 2025

FIGURE 7.d



Legend:

- Baseline Result
- ▲ Monitoring Result
- ▼ Verification or Supplemental Result
- MCL (Maximum Contaminant Level)
- GWPS (Groundwater Protection Standard)

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

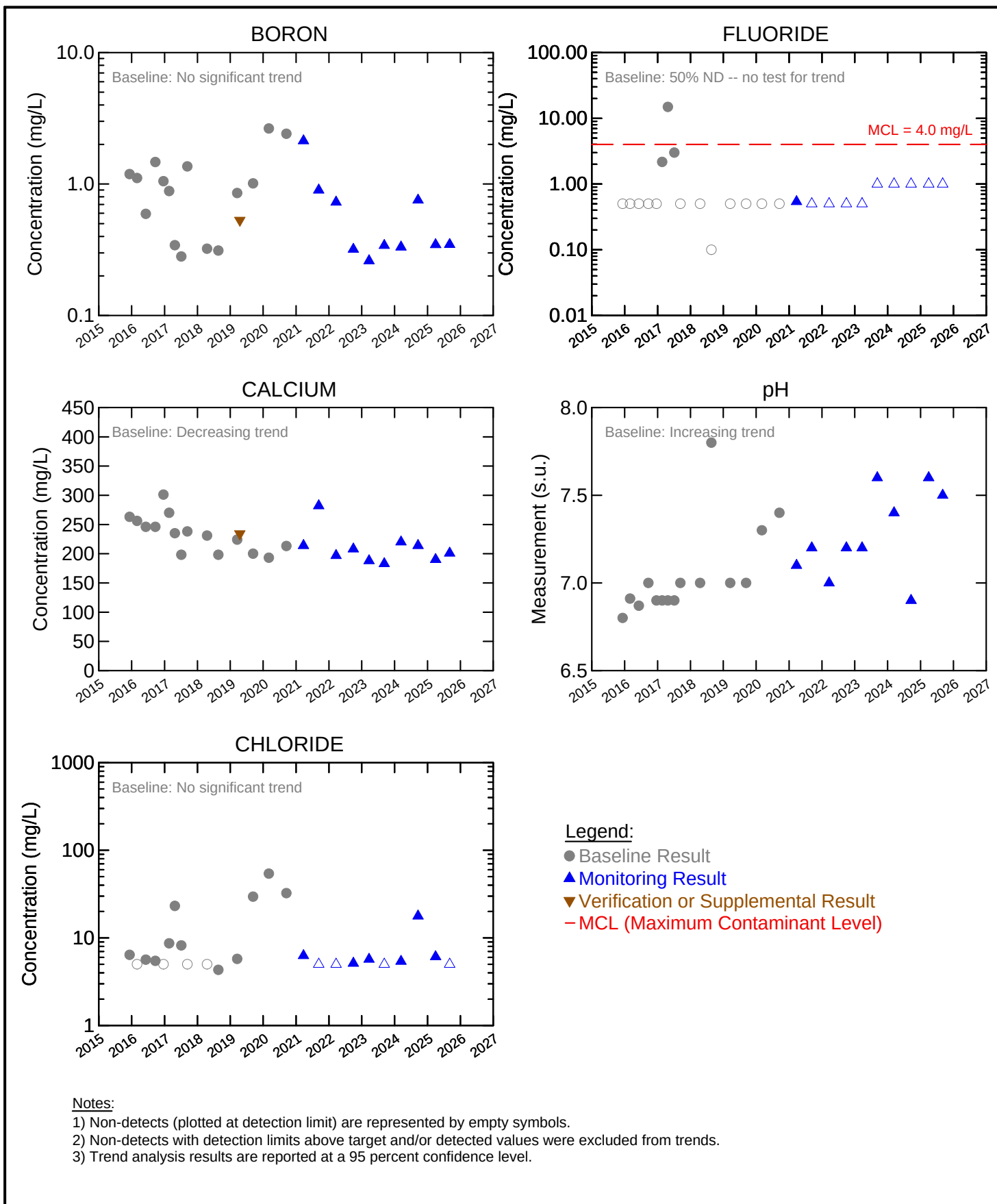


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-13 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 24, 2025

FIGURE 7.e

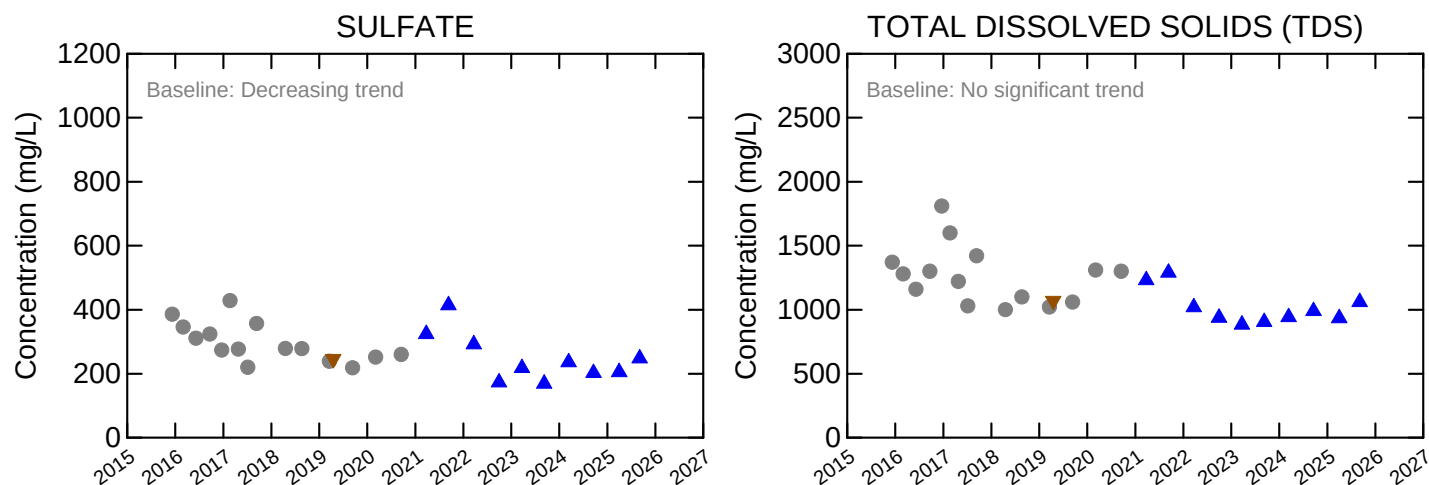


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-14 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 8.a



Legend:

- Baseline Result
- ▲ Detection Monitoring Result
- ▼ Verification or Supplemental Result

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

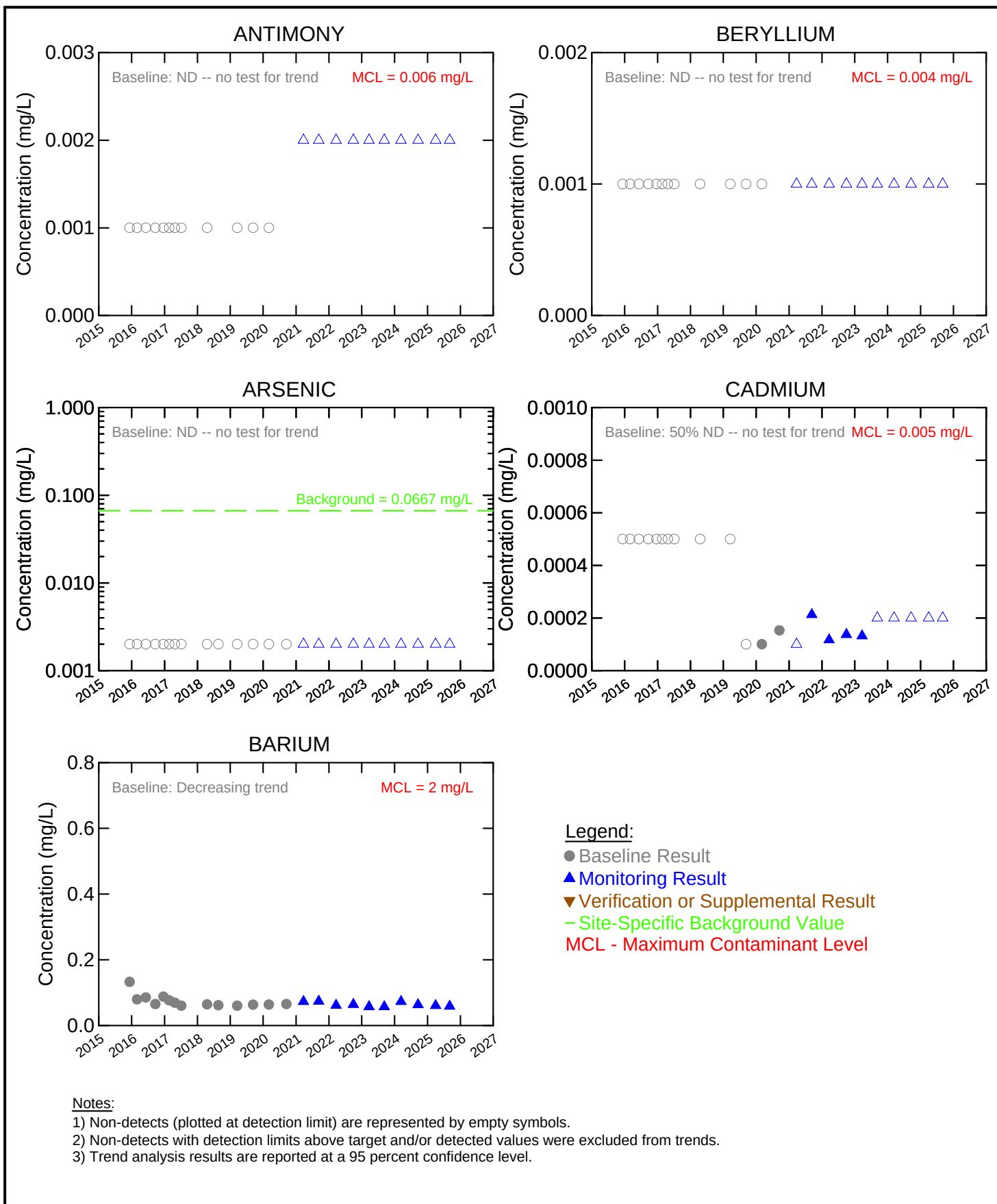


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-14 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. **12576485**
Date: **Nov 24, 2025**

FIGURE 8.b

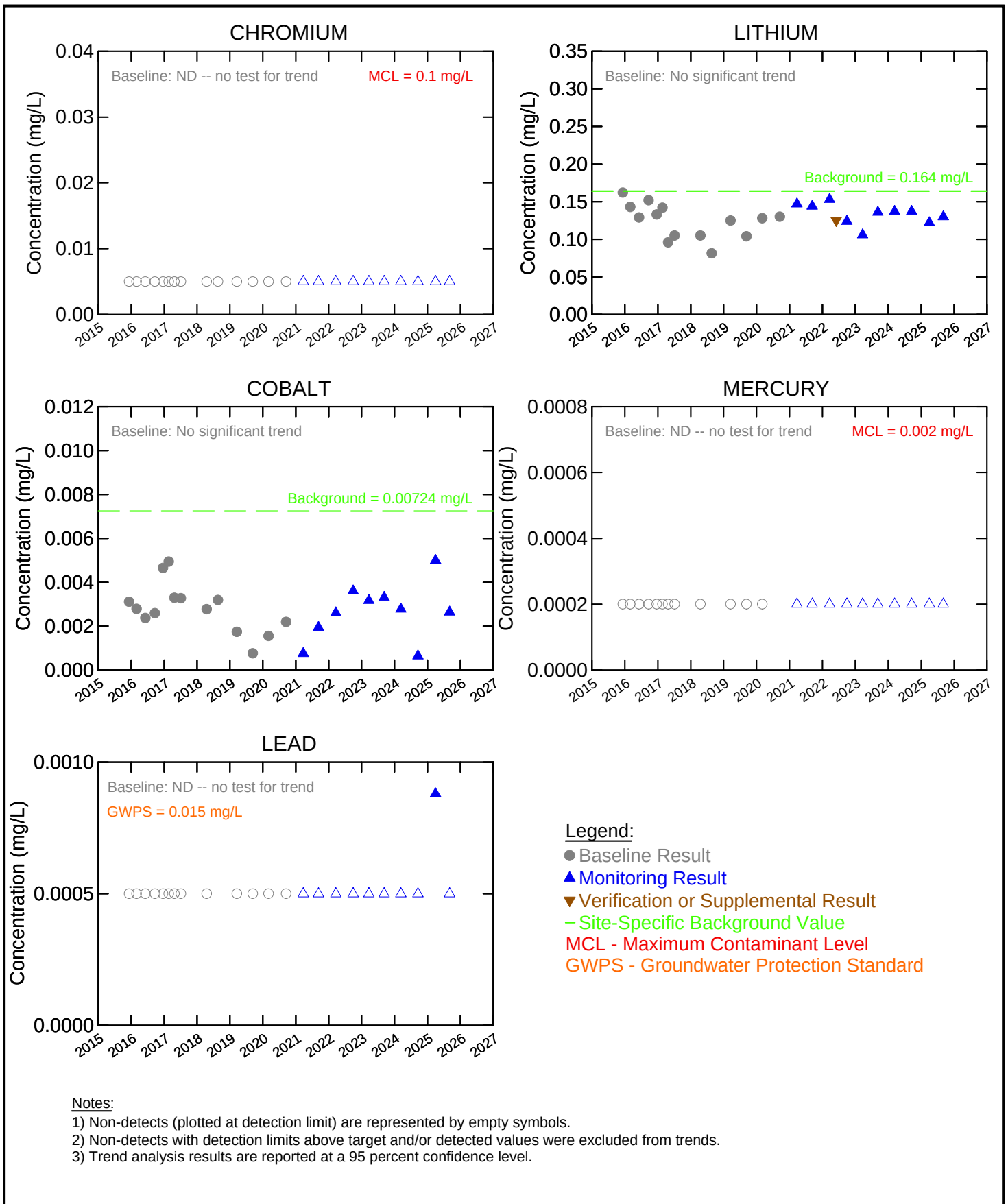


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-14 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 8.c

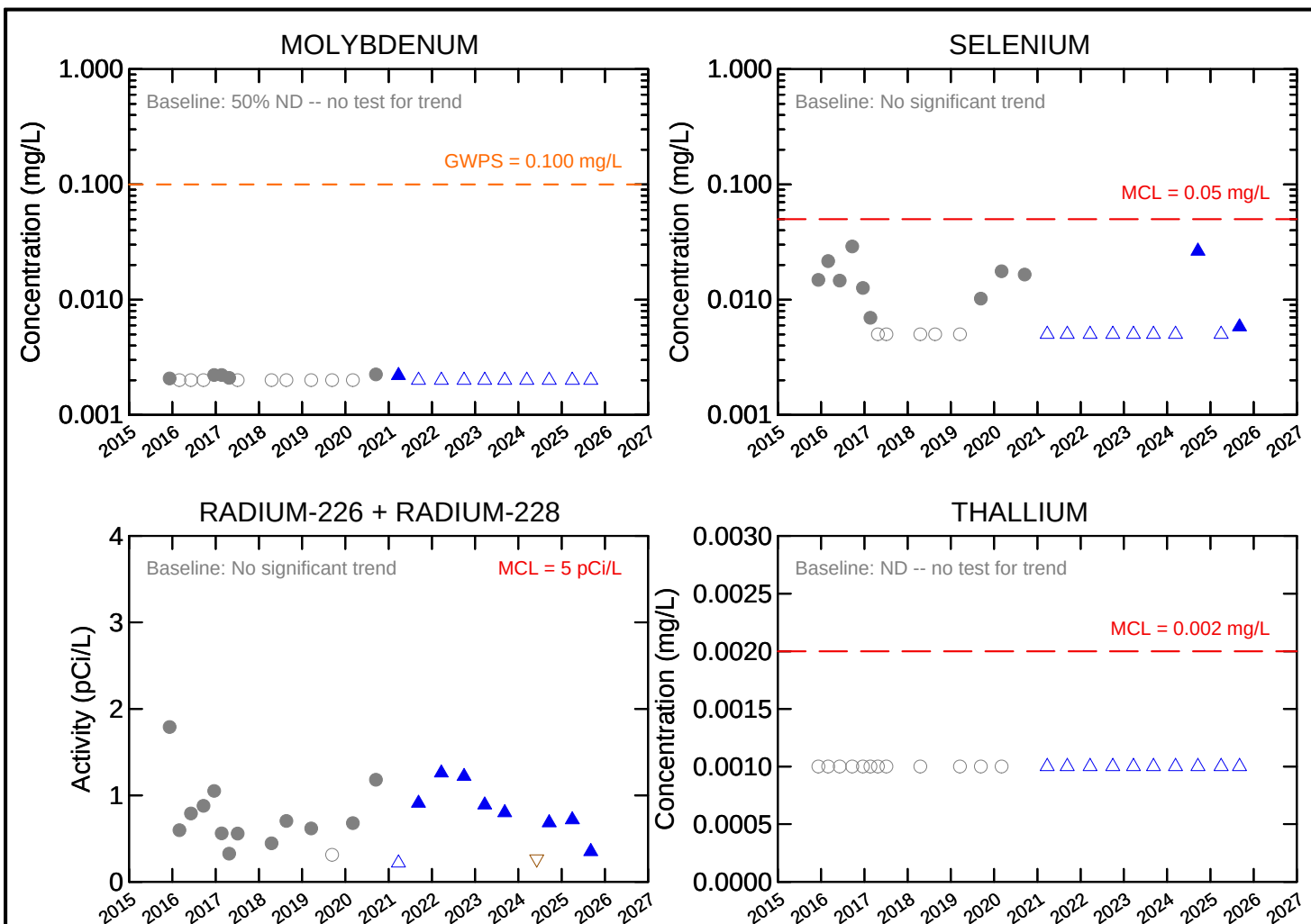


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-14 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 26, 2025

FIGURE 8.d



Legend:

- Baseline Result
- ▲ Monitoring Result
- ▼ Verification or Supplemental Result
- MCL (Maximum Contaminant Level)
- GWPS (Groundwater Protection Standard)

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

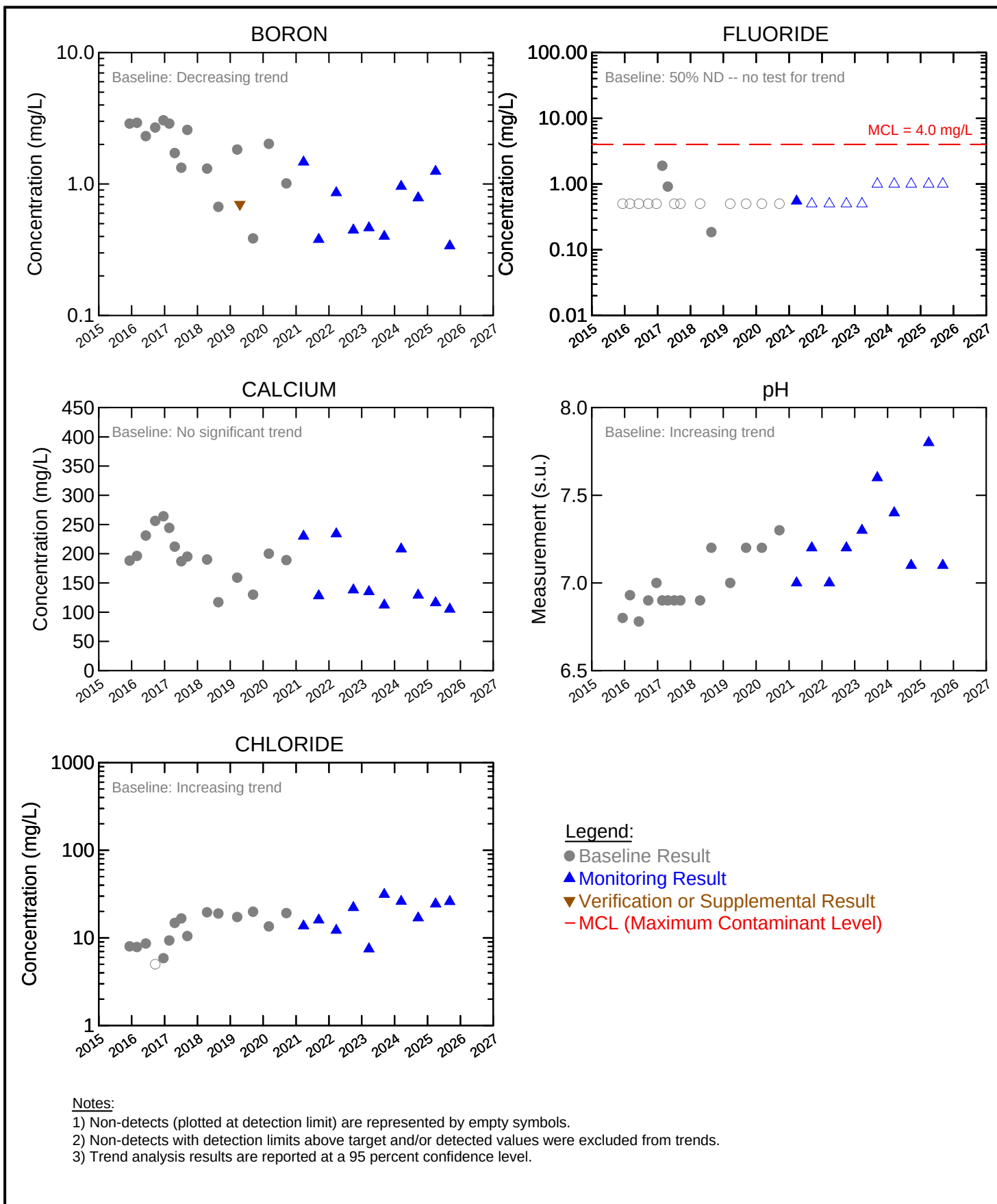


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-14 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 24, 2025

FIGURE 8.e

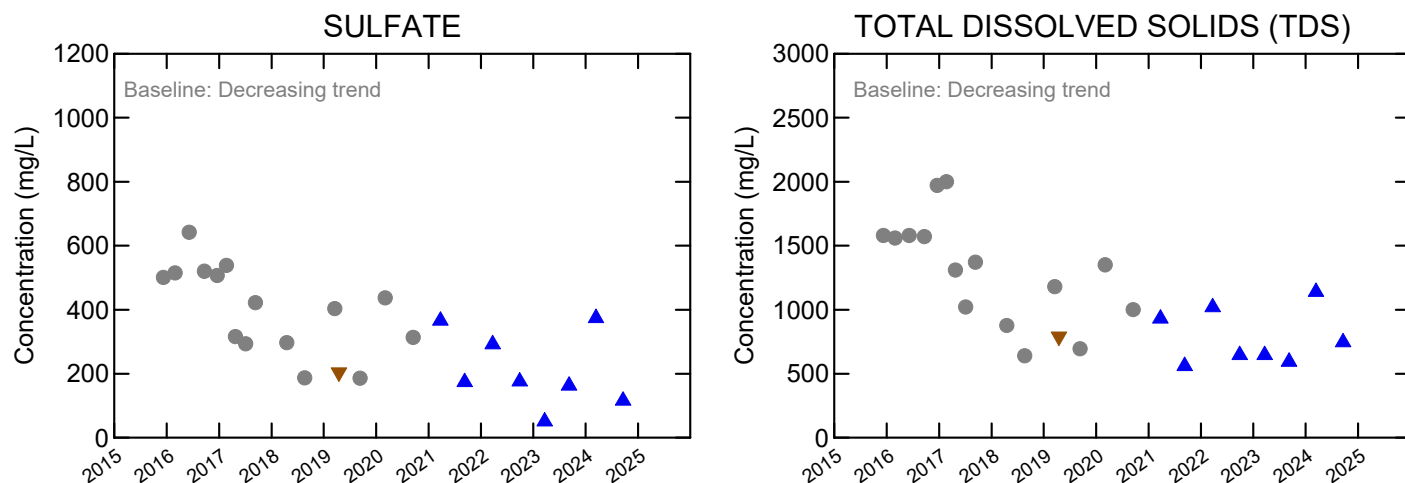


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-15 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 9.a



Legend:

- Baseline Result
- ▲ Monitoring Result

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

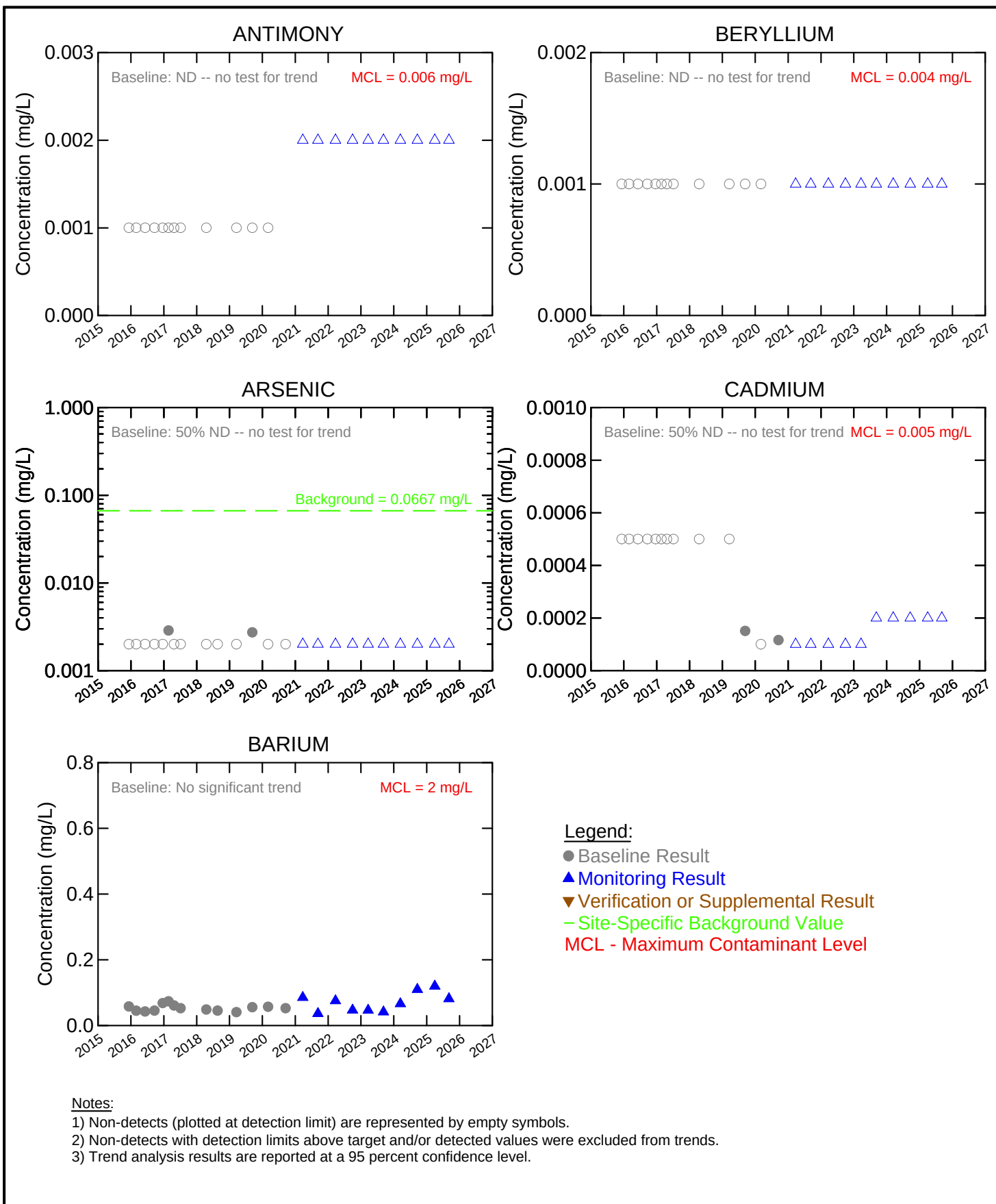


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-15 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 14, 2024

FIGURE 9.b

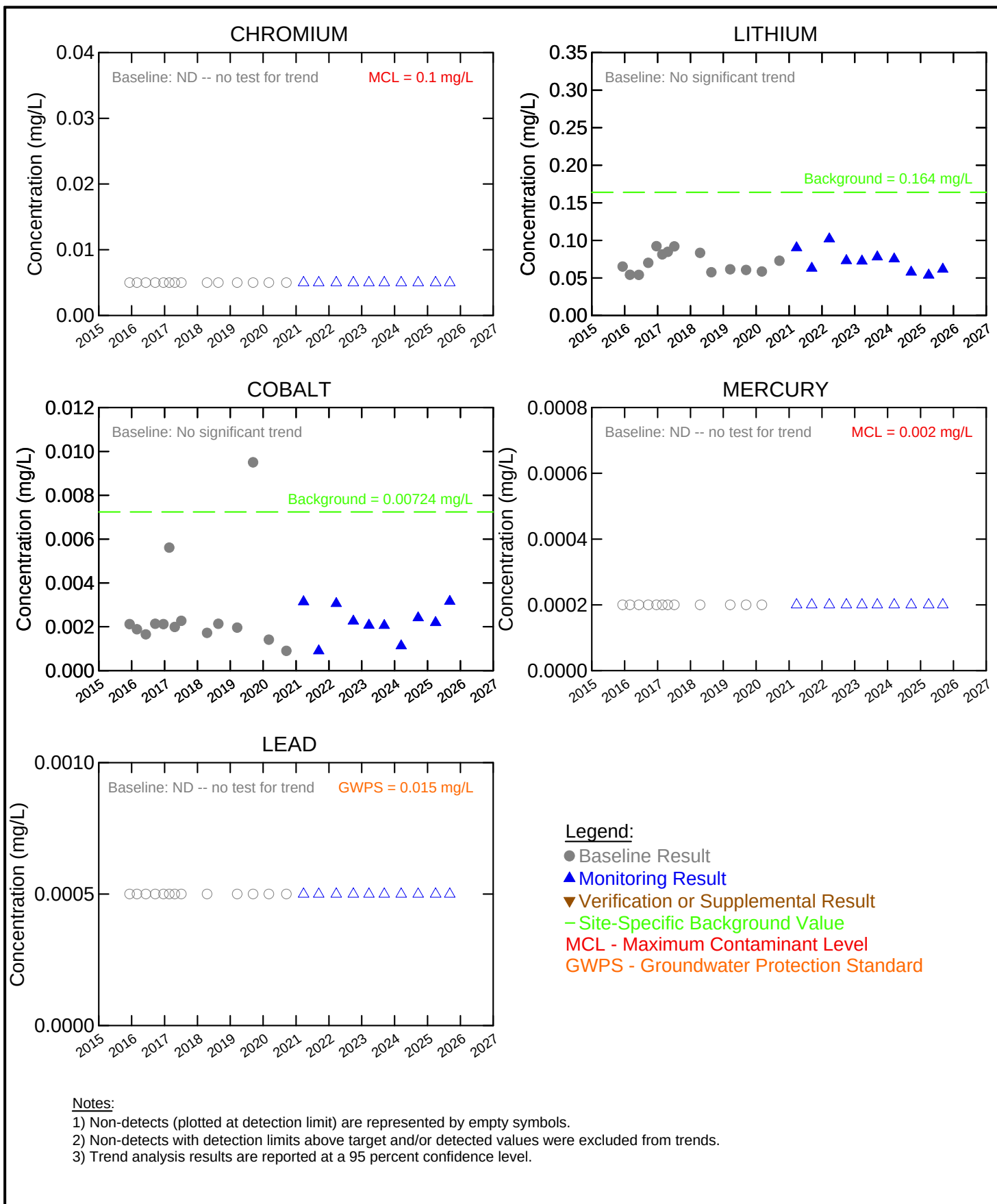


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-15 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 9.c

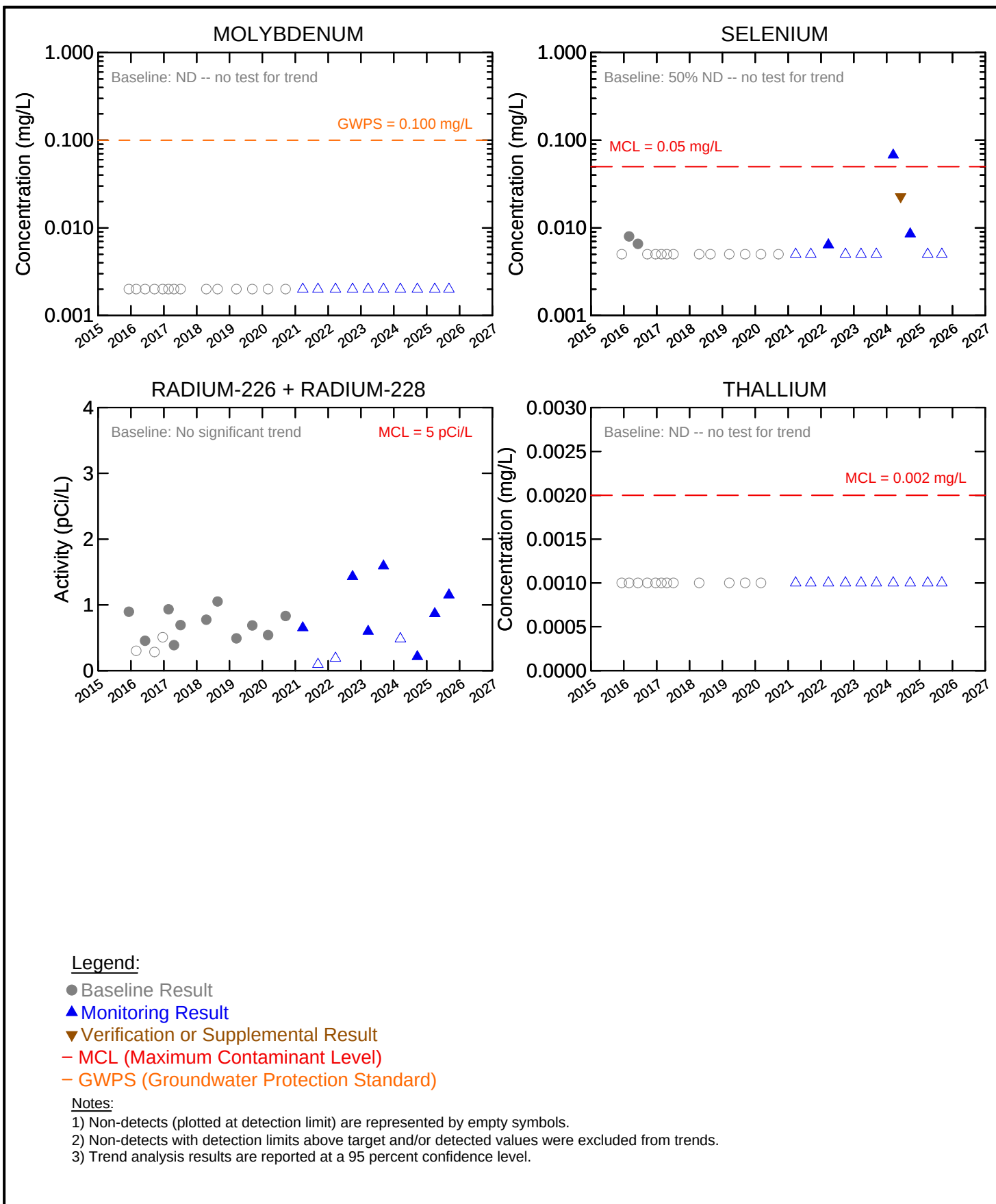


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-15 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 26, 2025

FIGURE 9.d

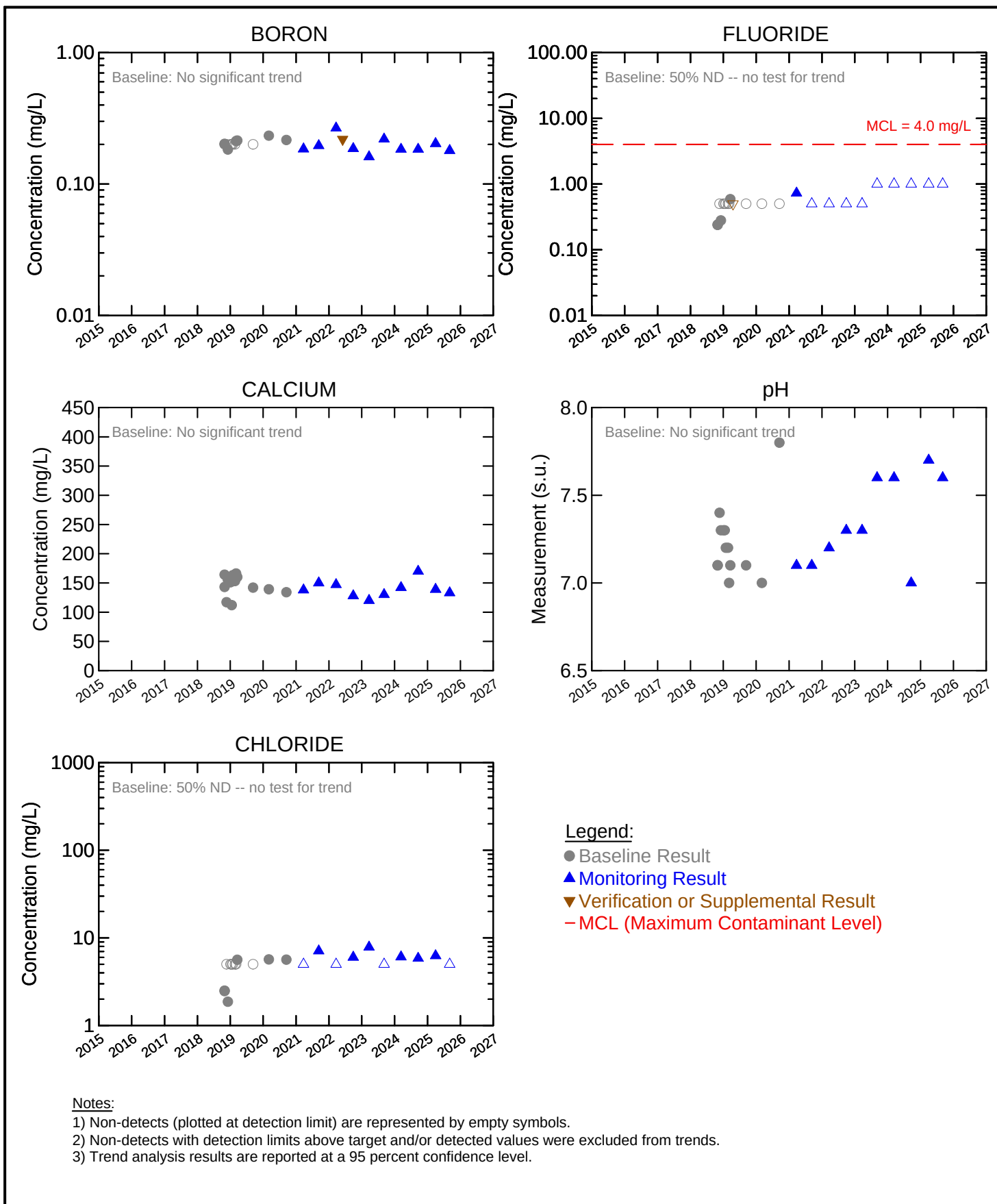


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-15 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 24, 2025

FIGURE 9.e

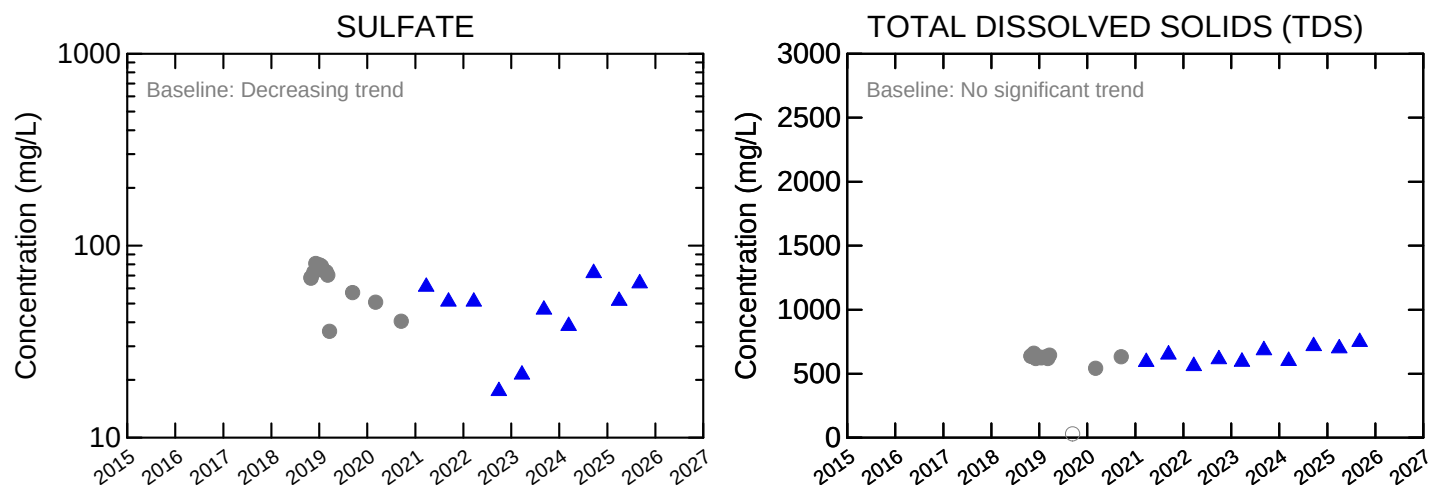


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-16 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. **12576485**
Date: **Nov 24, 2025**

FIGURE 10.a



Legend:

- Baseline Result
- ▲ Detection Monitoring Result

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

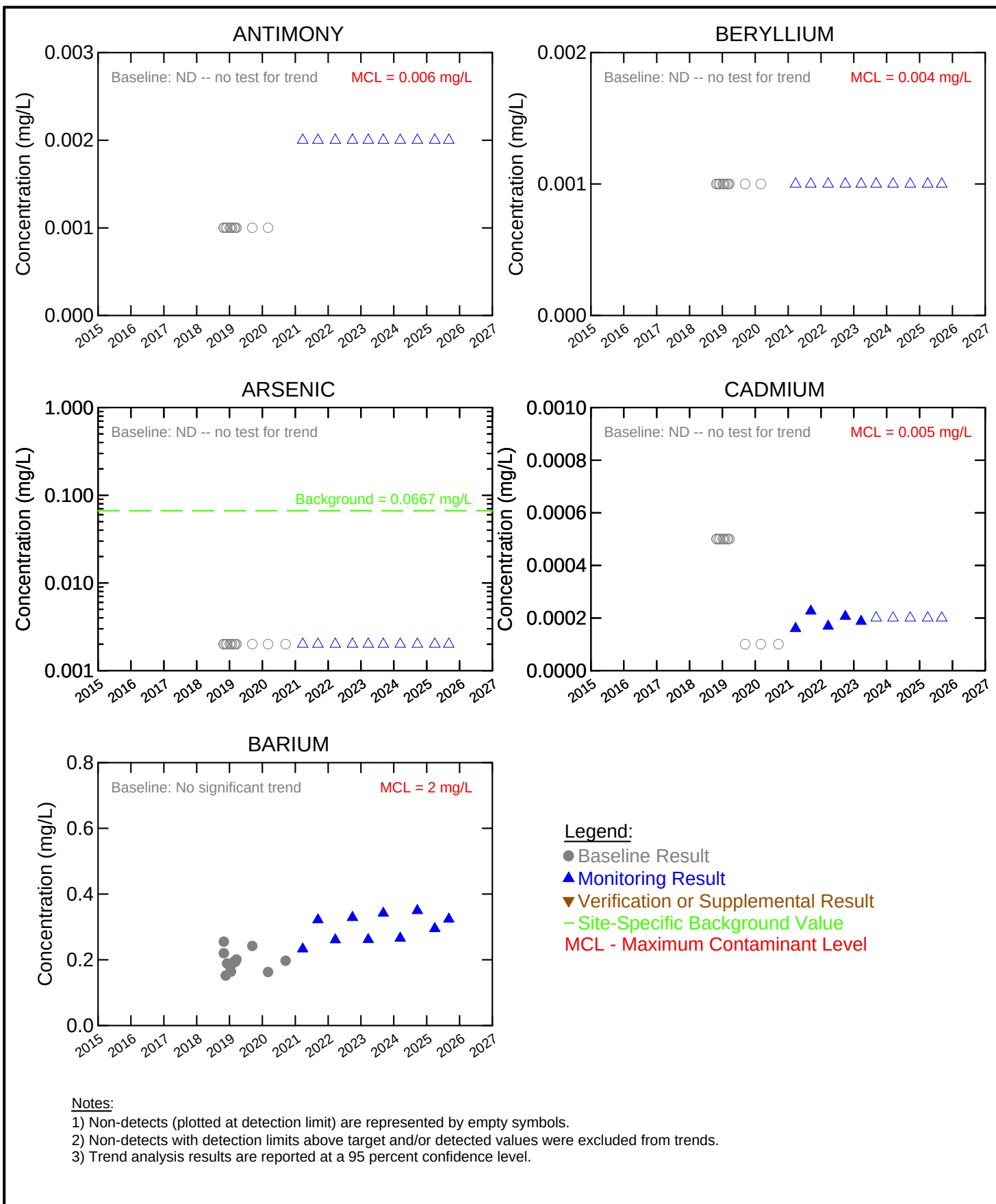


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-16 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. **12576485**
Date: **Nov 24, 2025**

FIGURE 10.b

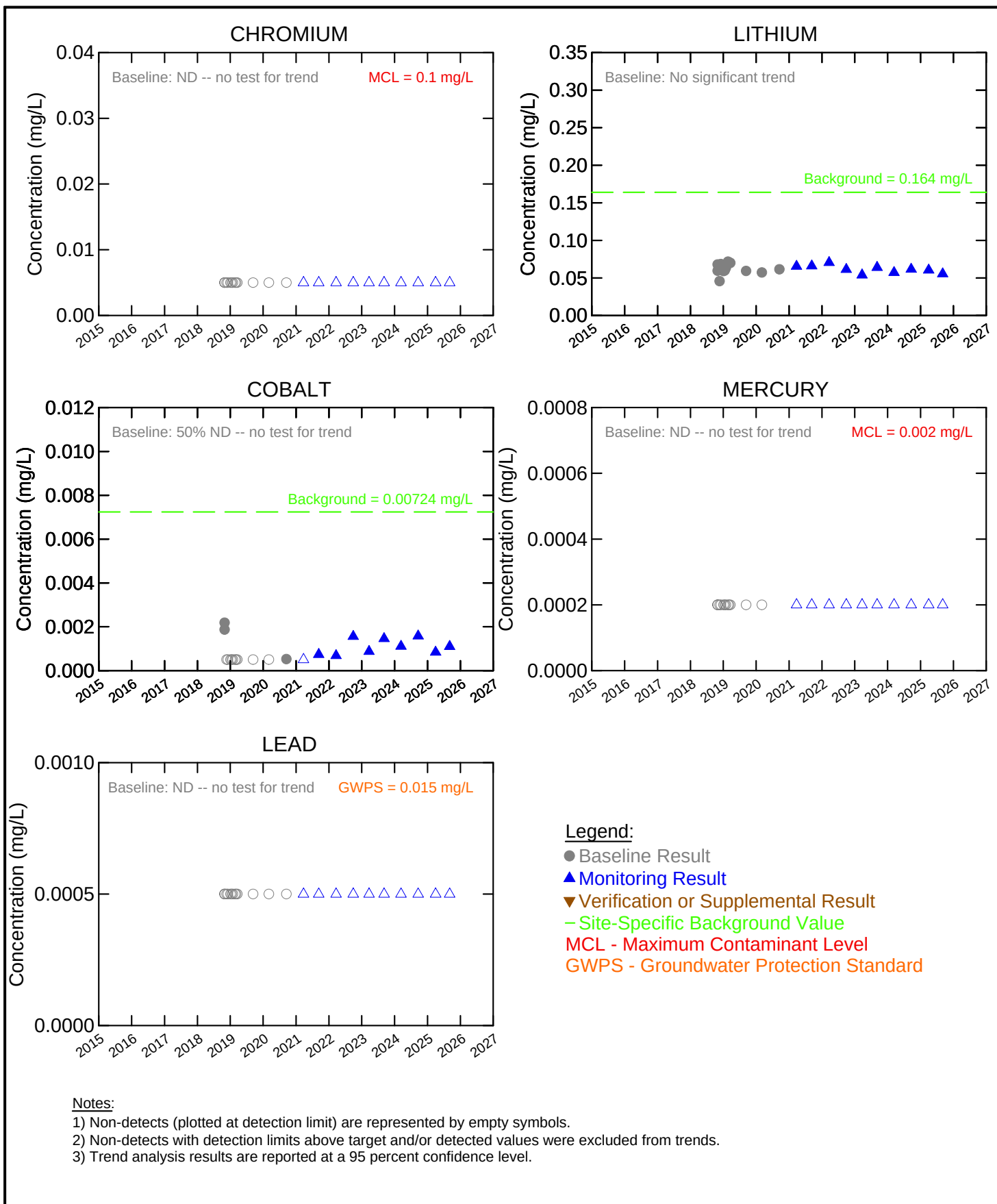


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-16 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 10.c

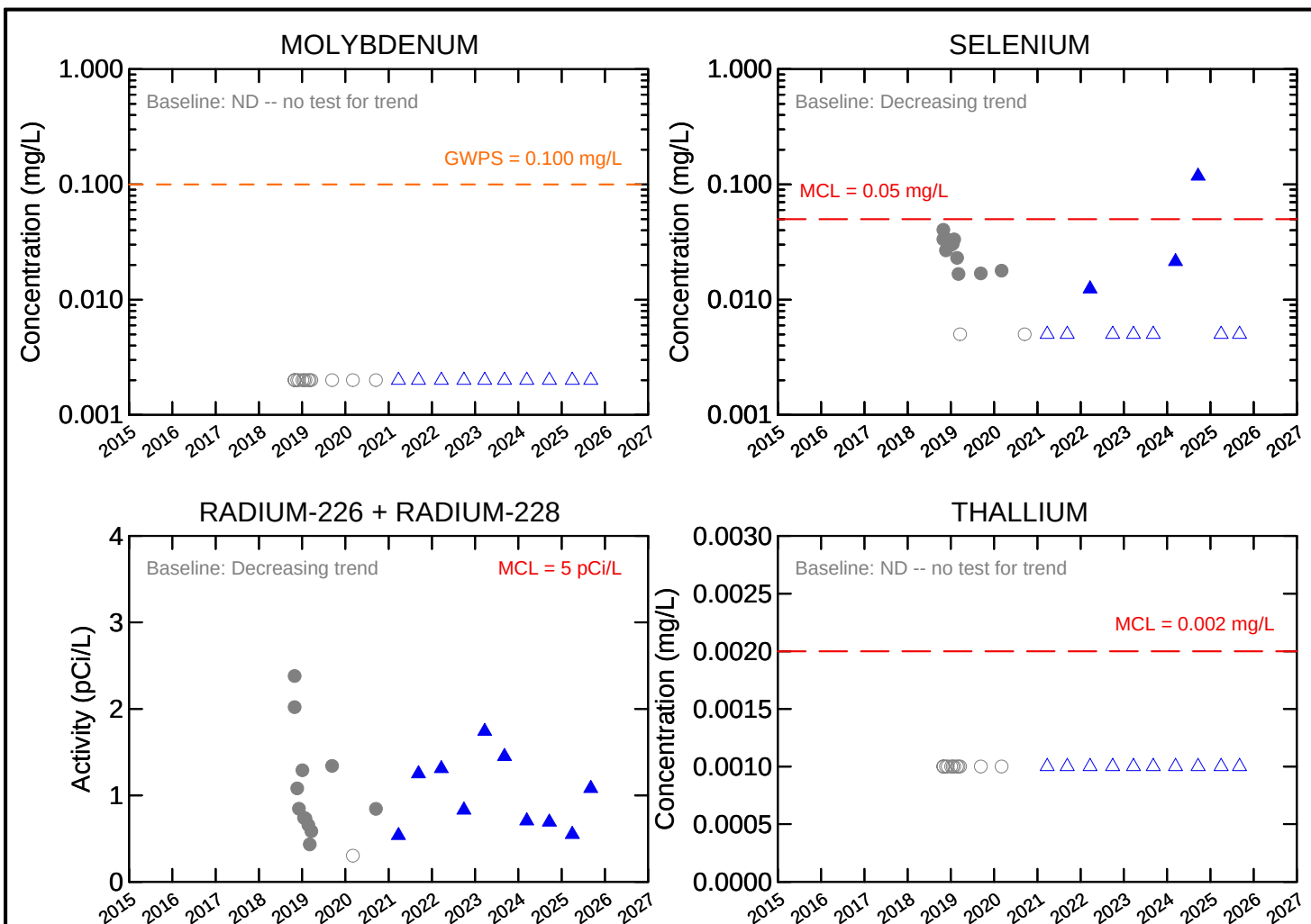


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-16 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 26, 2025

FIGURE 10.d



Legend:

- Baseline Result
- ▲ Monitoring Result
- ▼ Verification or Supplemental Result
- MCL (Maximum Contaminant Level)
- GWPS (Groundwater Protection Standard)

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

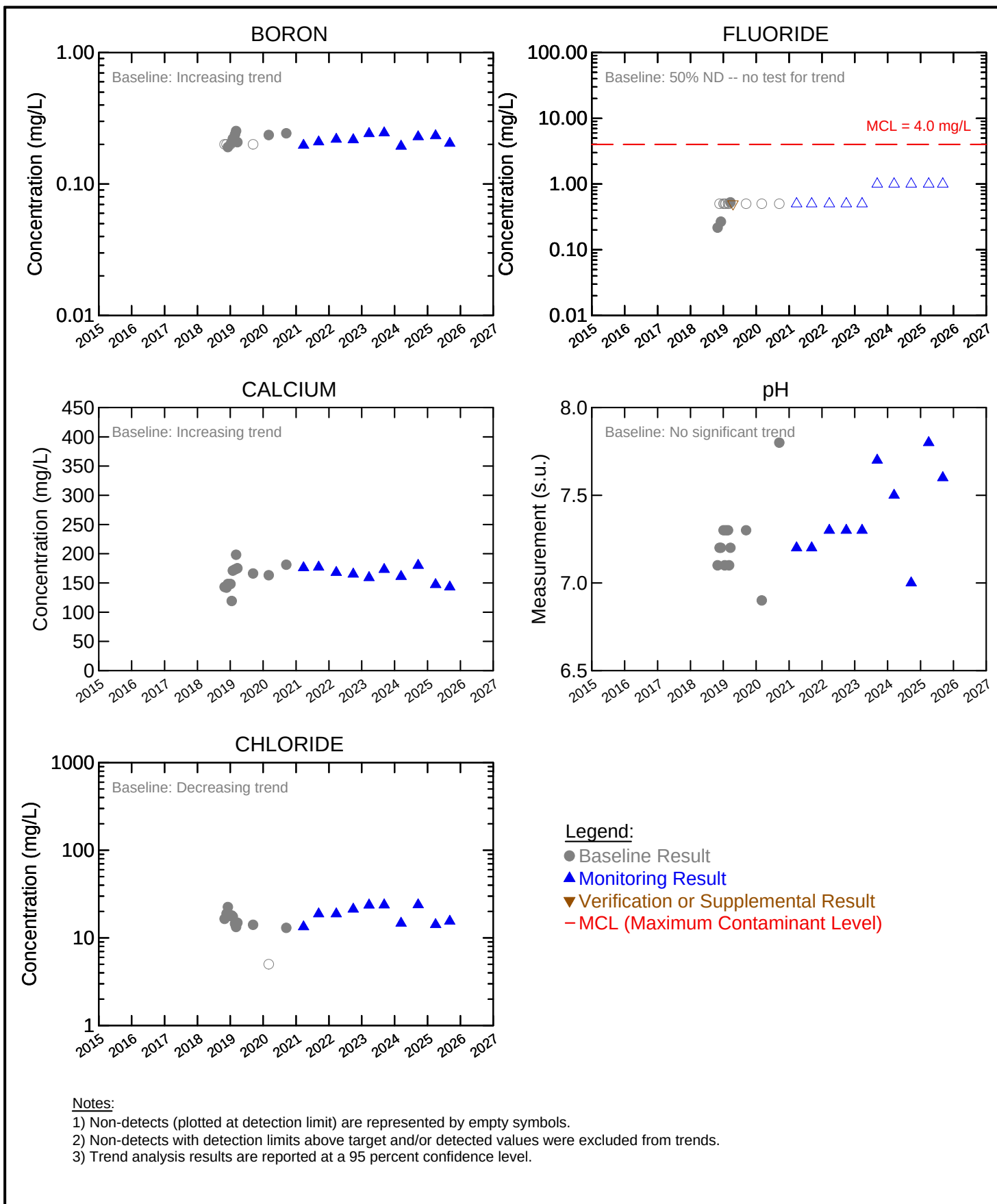


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-16 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 24, 2025

FIGURE 10.e

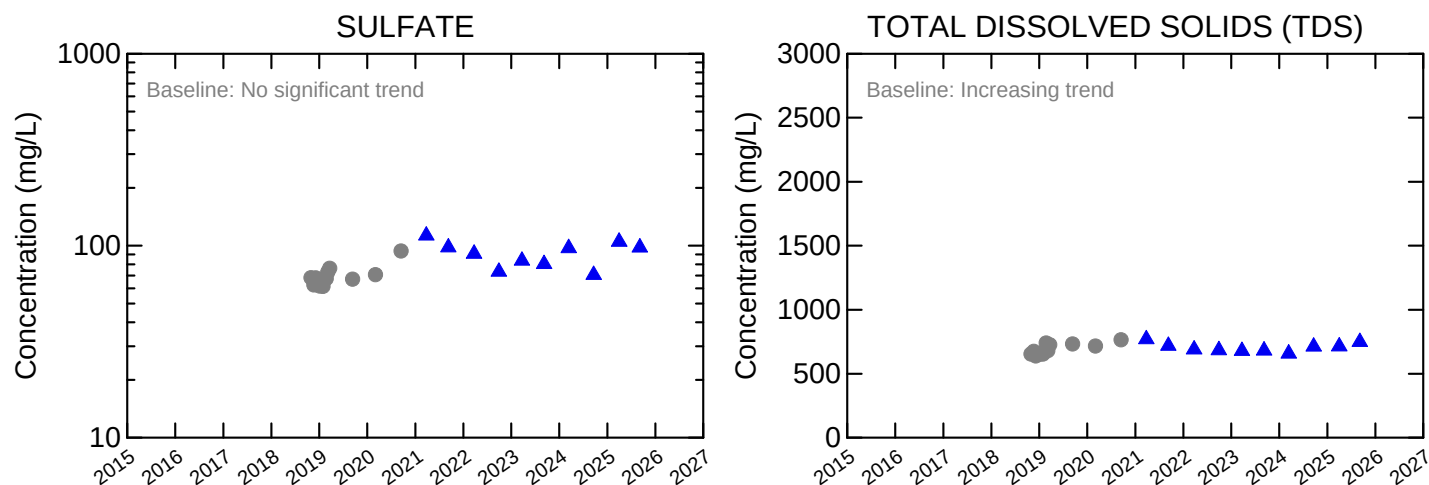


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-17 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 24, 2025

FIGURE 11.a



Legend:

- Baseline Result
- ▲ Detection Monitoring Result

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

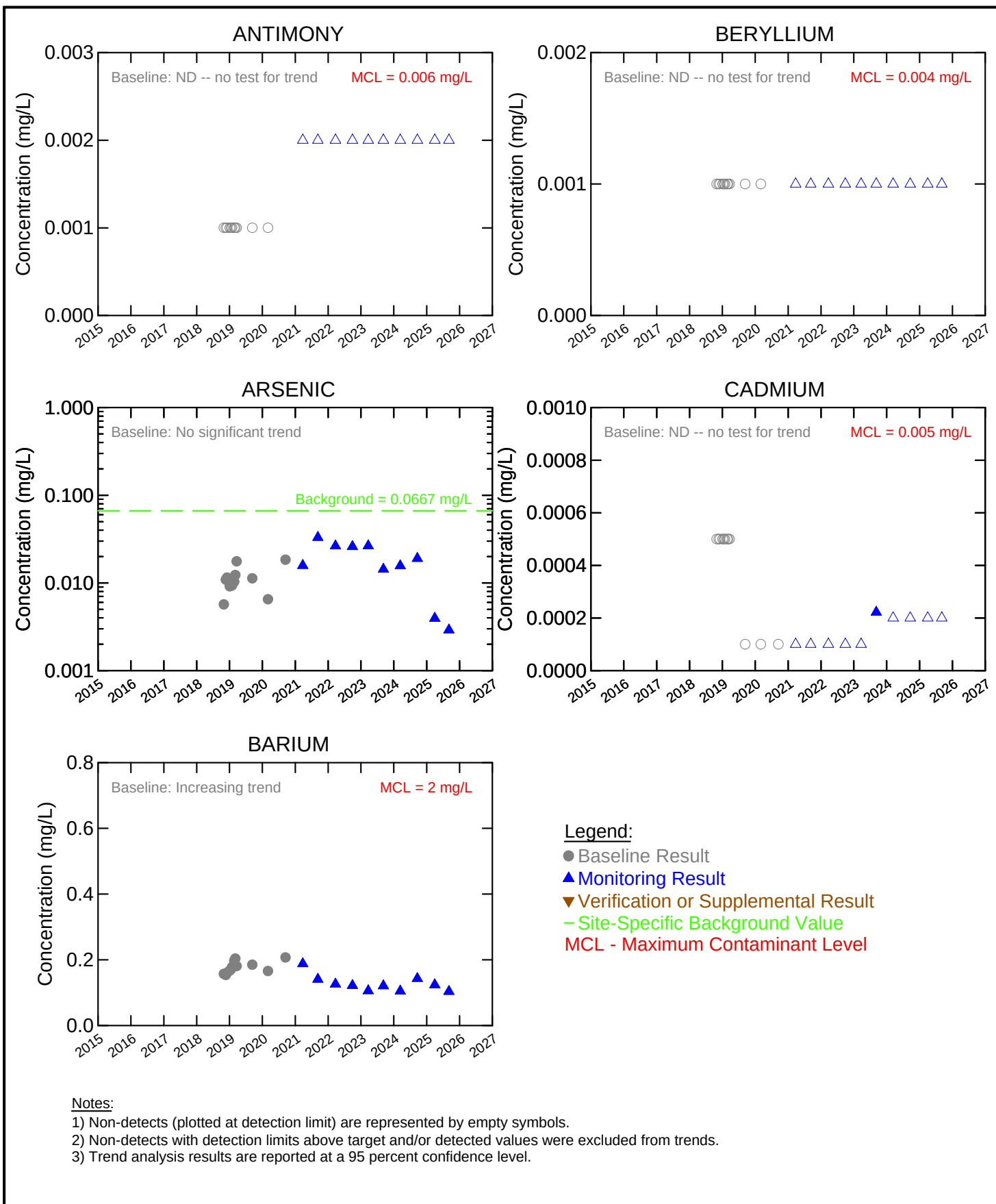


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-17 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. **12576485**
Date: **Nov 24, 2025**

FIGURE 11.b

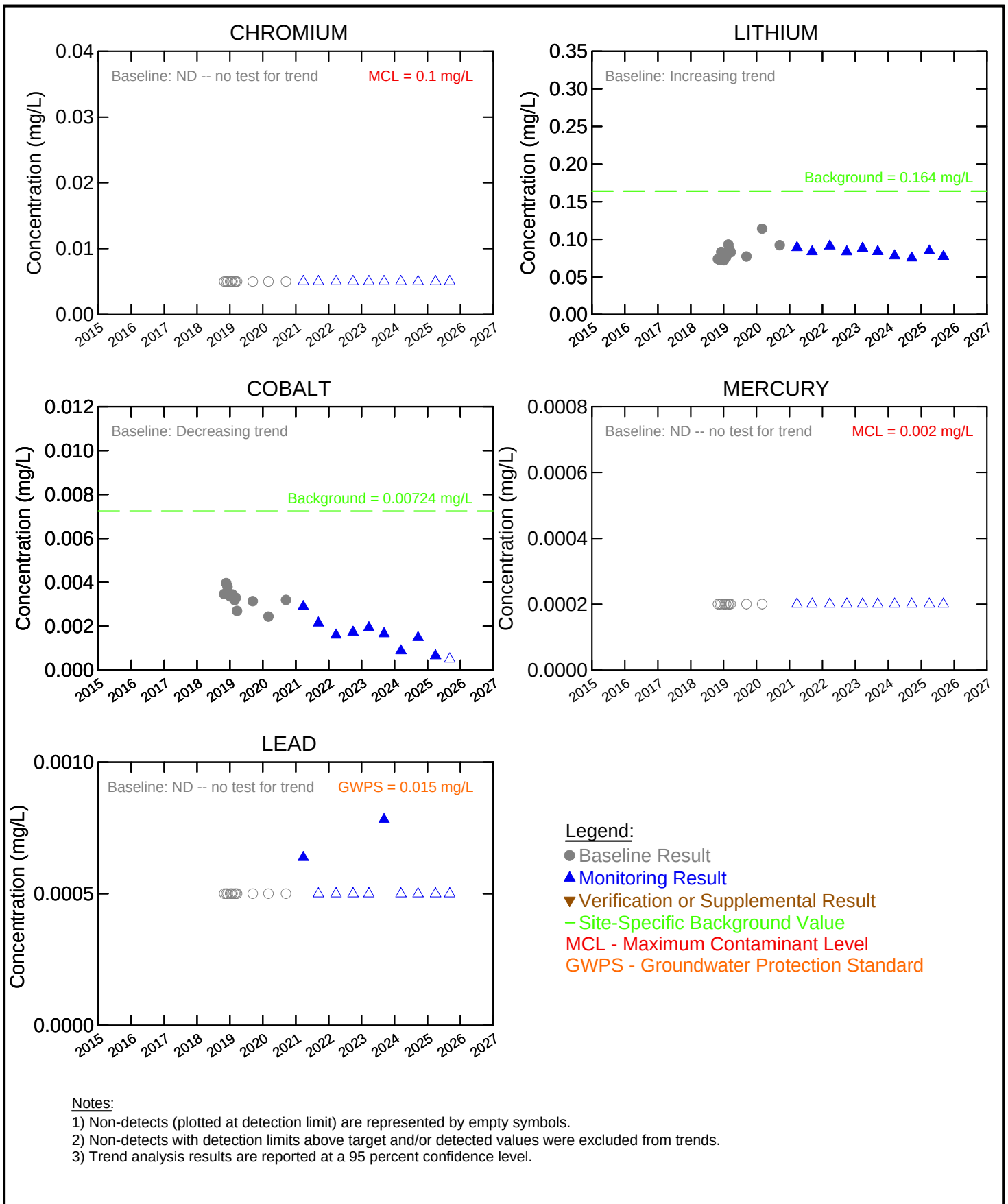


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-17 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 11.c

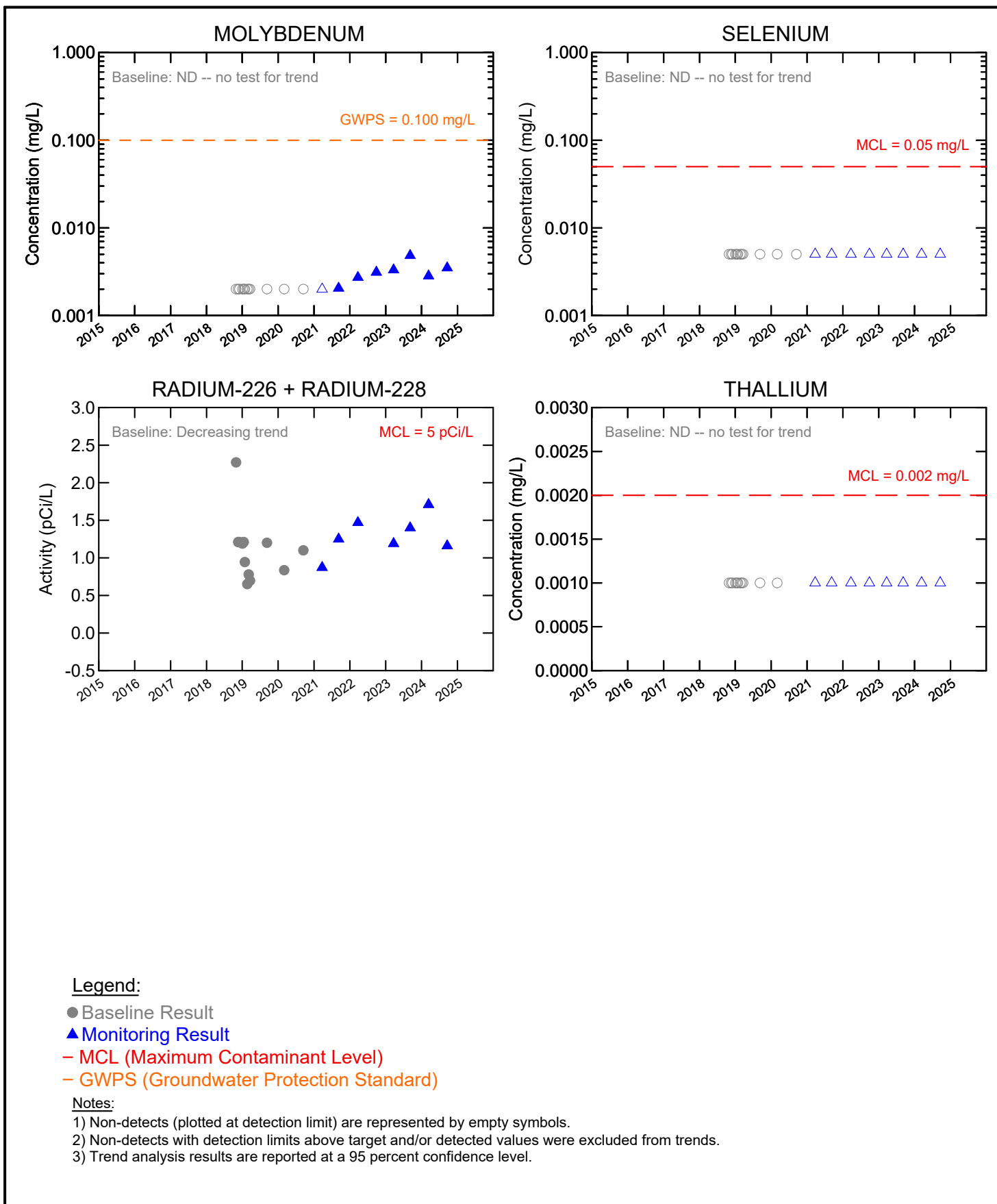


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-17 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 26, 2025

FIGURE 11.d

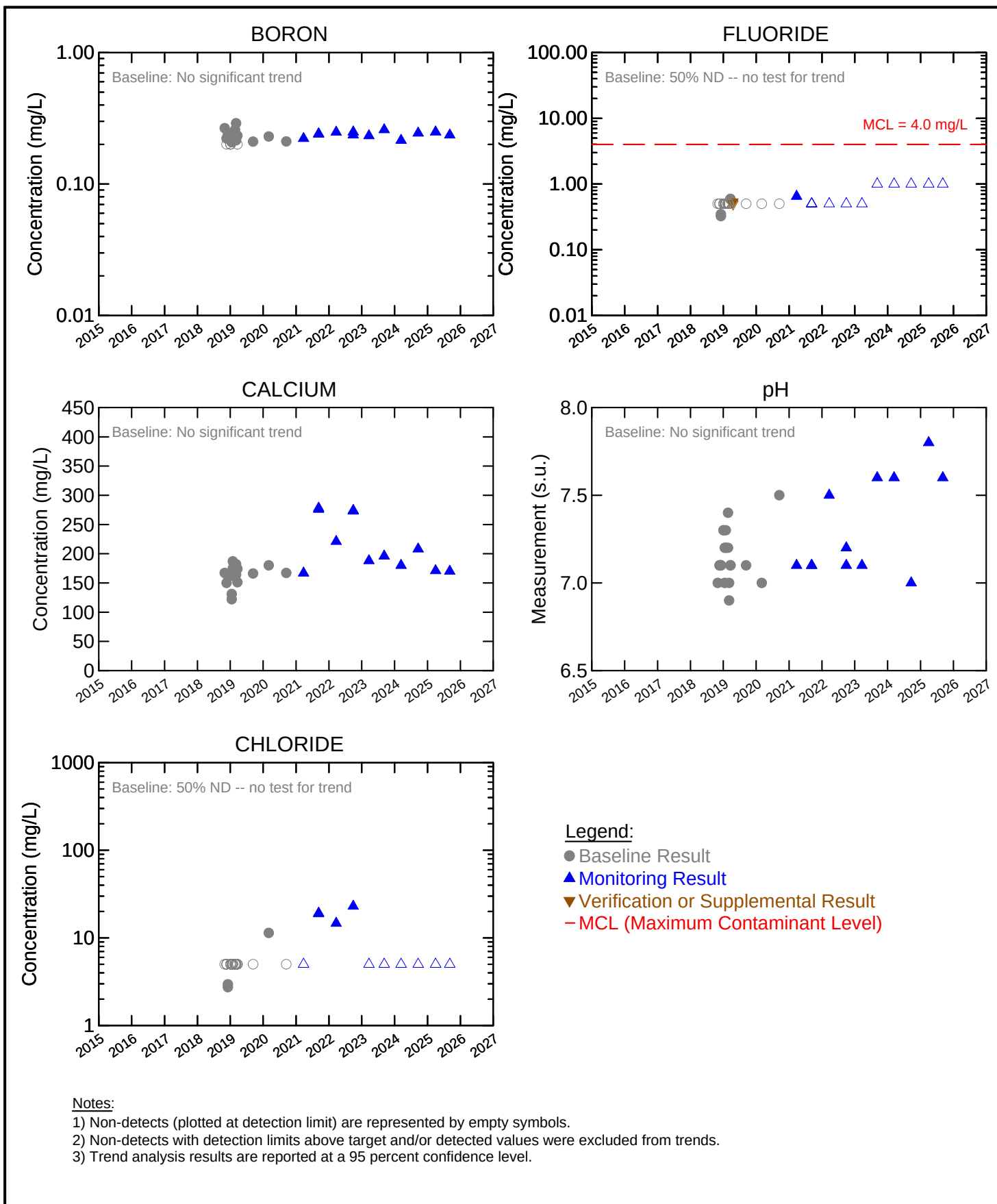


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-17 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 14, 2024

FIGURE 11.e

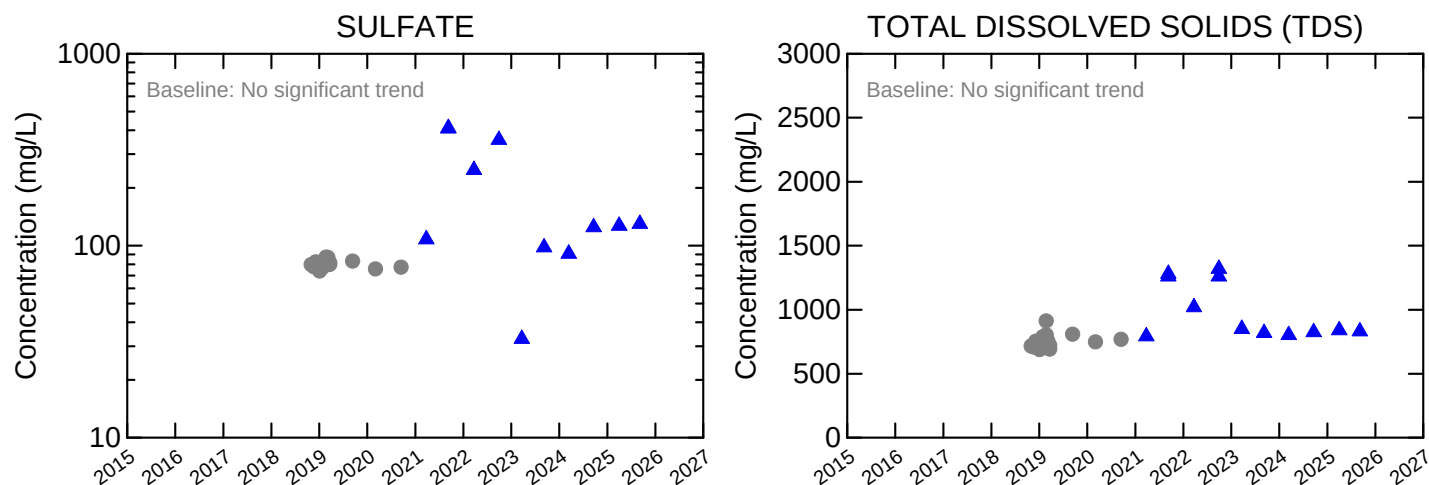


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-18 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. **12576485**
Date: **Nov 24, 2025**

FIGURE 12.a



Legend:

- Baseline Result
- ▲ Detection Monitoring Result

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

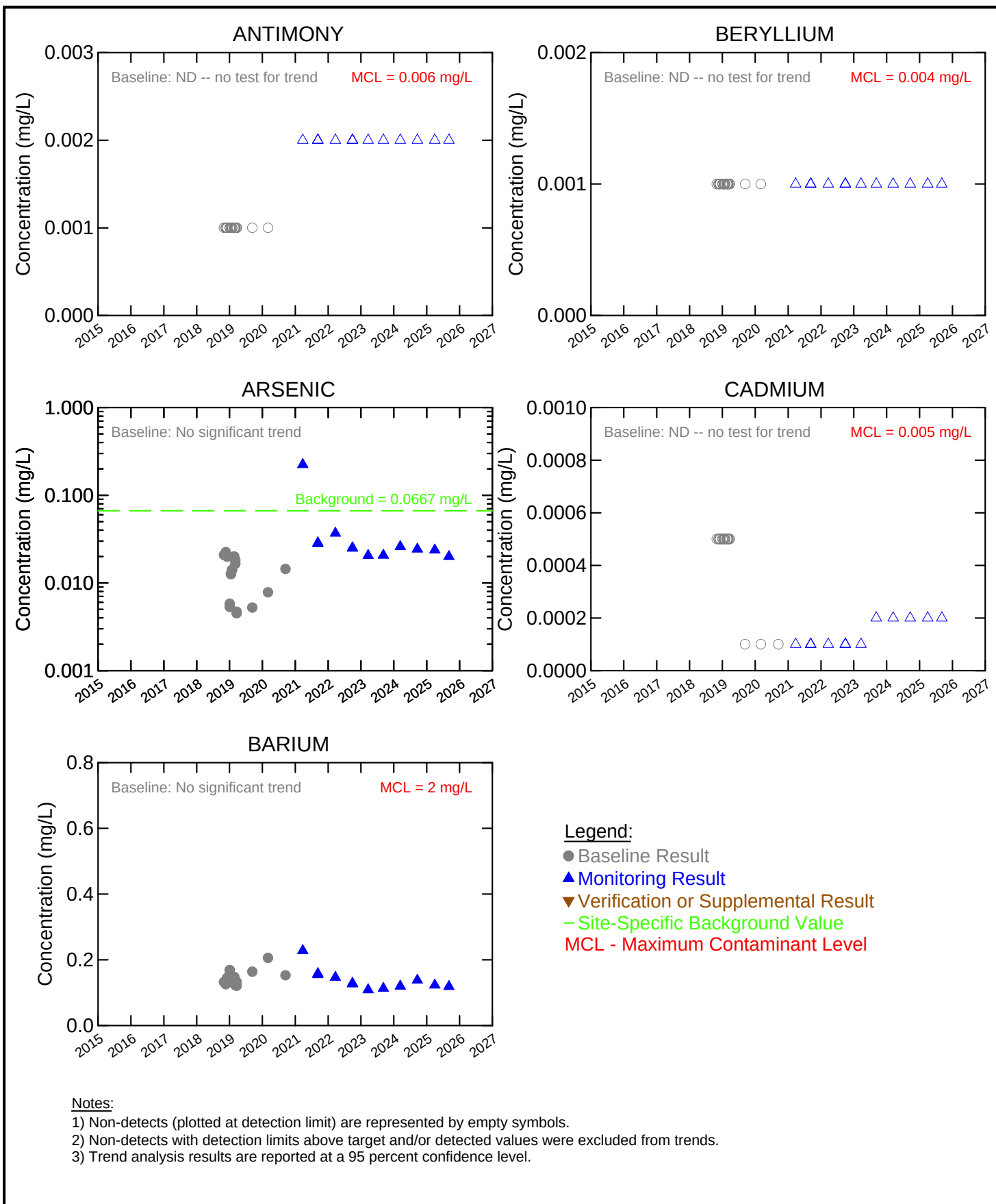


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-18 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. **12576485**
Date: **Nov 24, 2025**

FIGURE 12.b

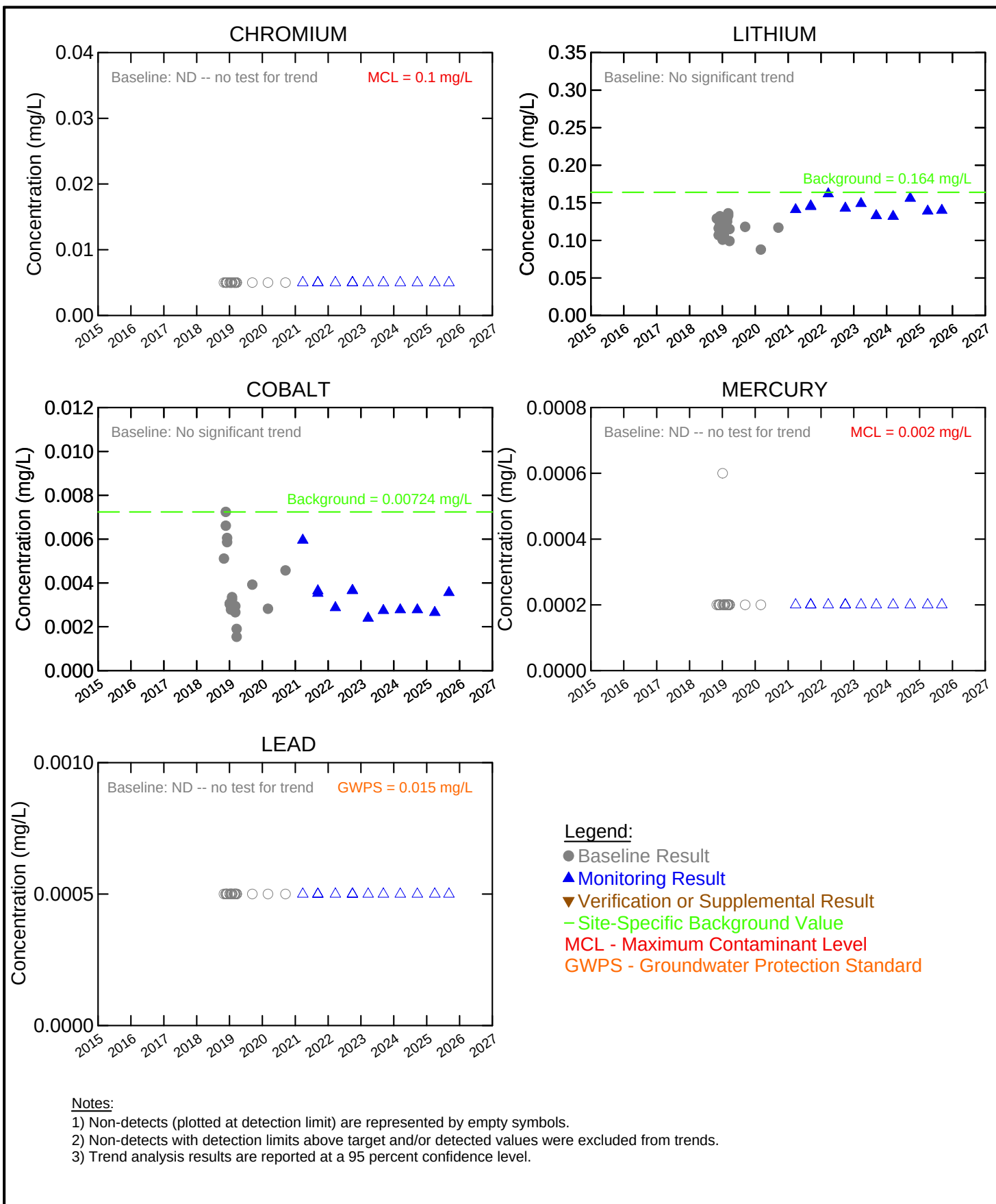


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-18 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 12.c

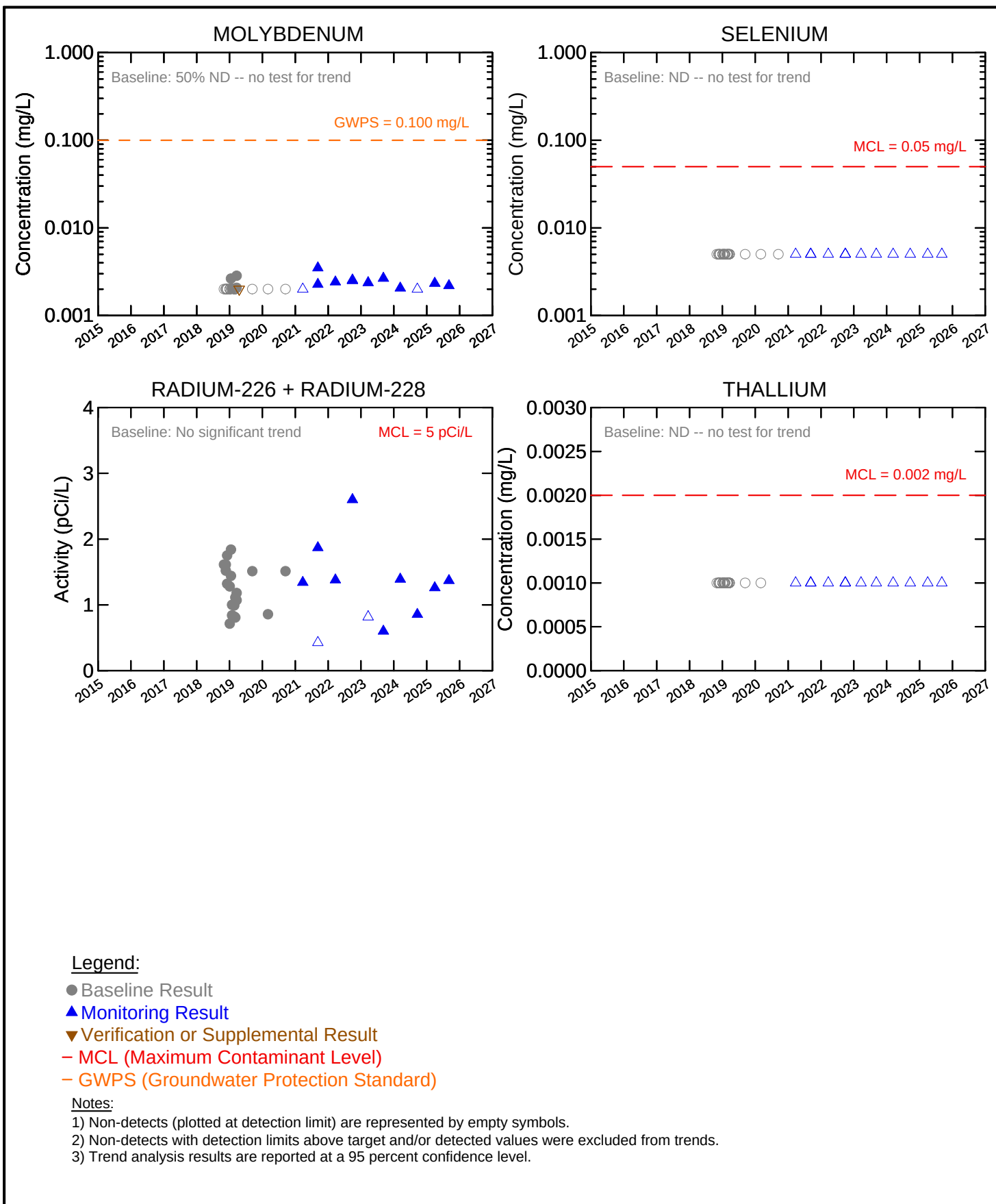


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-18 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 26, 2025

FIGURE 12.d

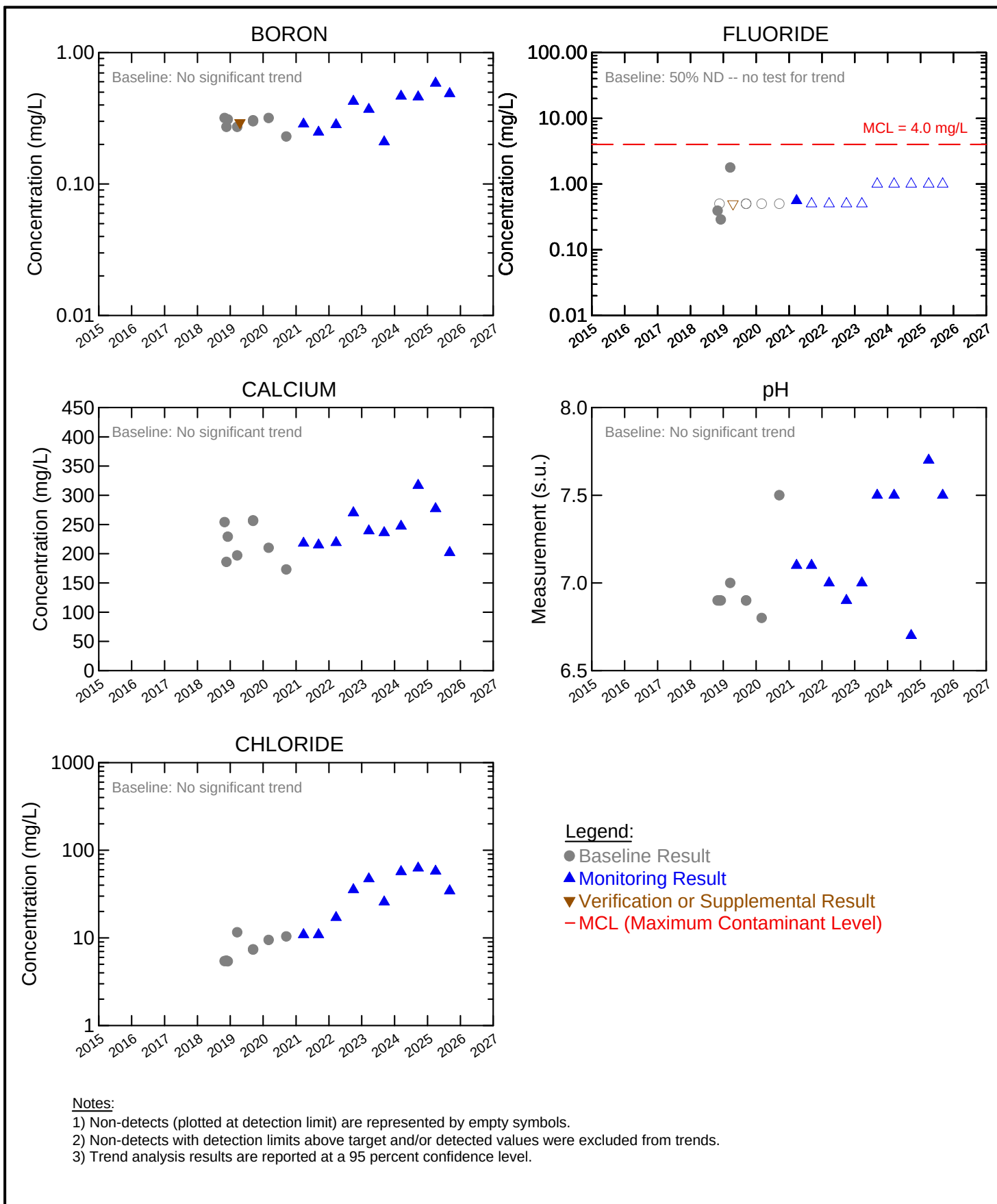


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-18 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 24, 2025

FIGURE 12.e

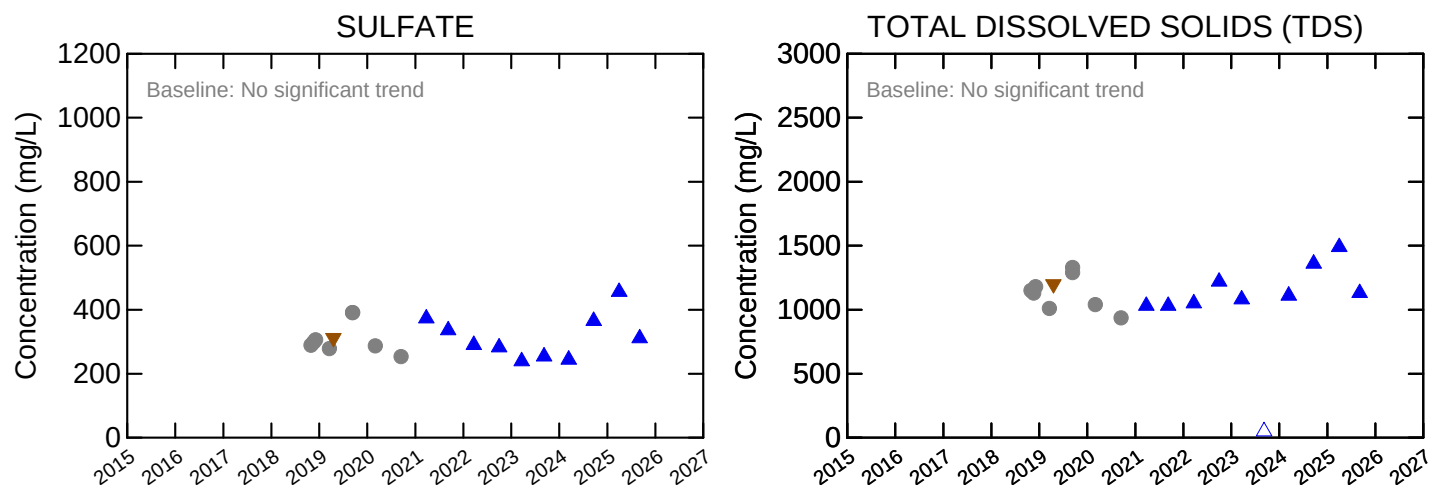


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-19 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 24, 2025

FIGURE 13.a



Legend:

- Baseline Result
- ▲ Detection Monitoring Result
- ▼ Verification or Supplemental Result

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

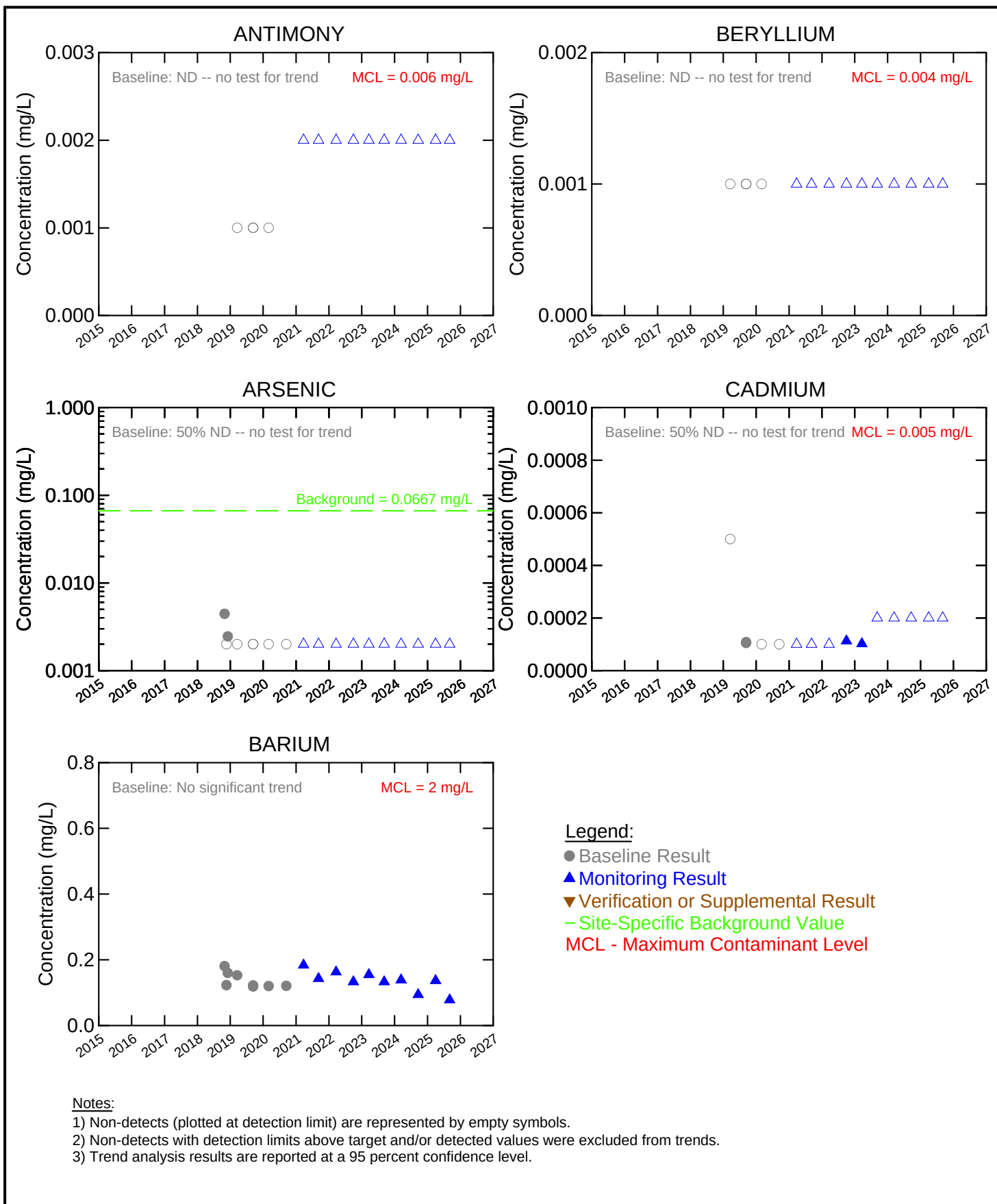


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-19 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. **12576485**
Date: **Nov 24, 2025**

FIGURE 13.b

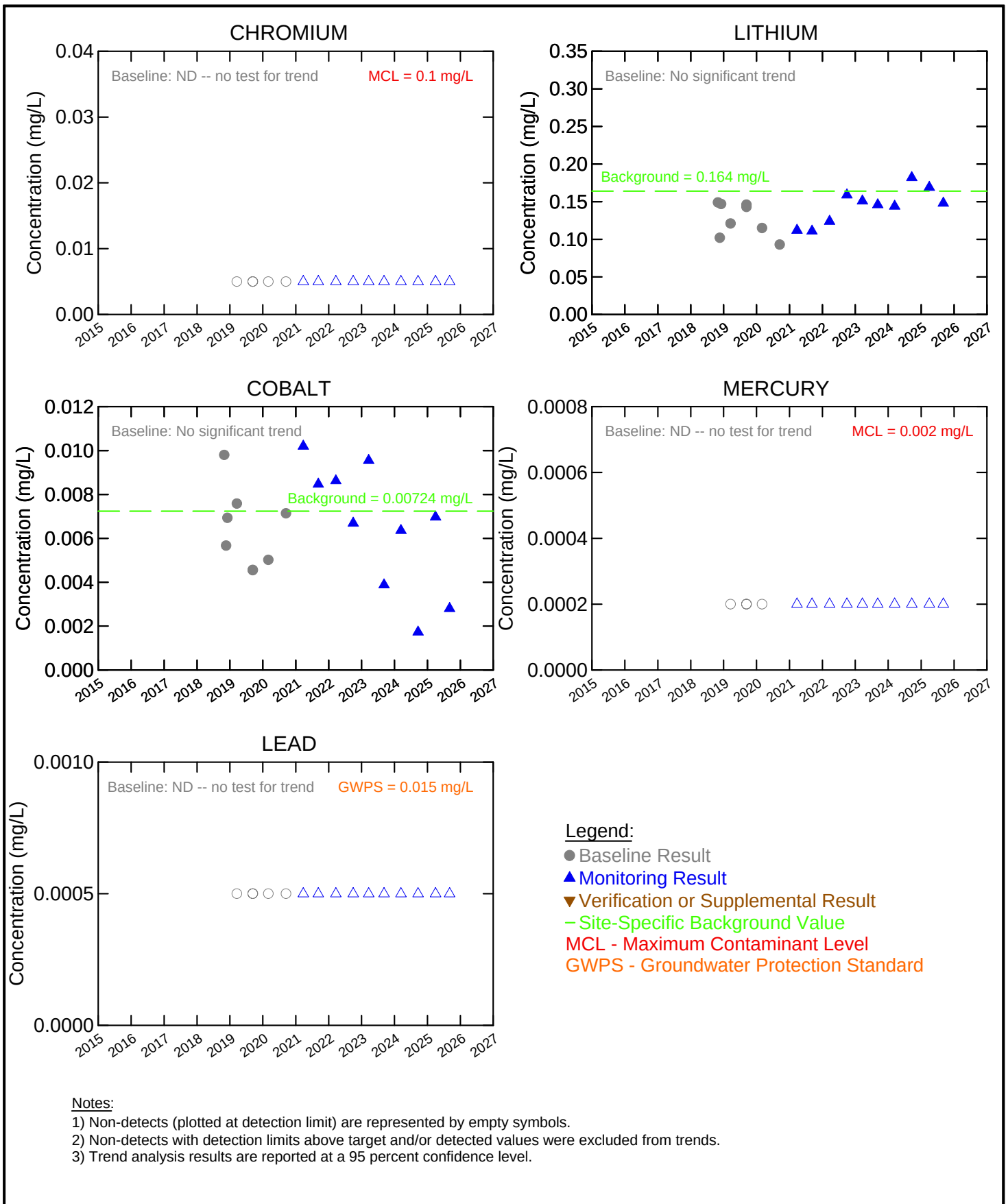


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-19 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 13.c

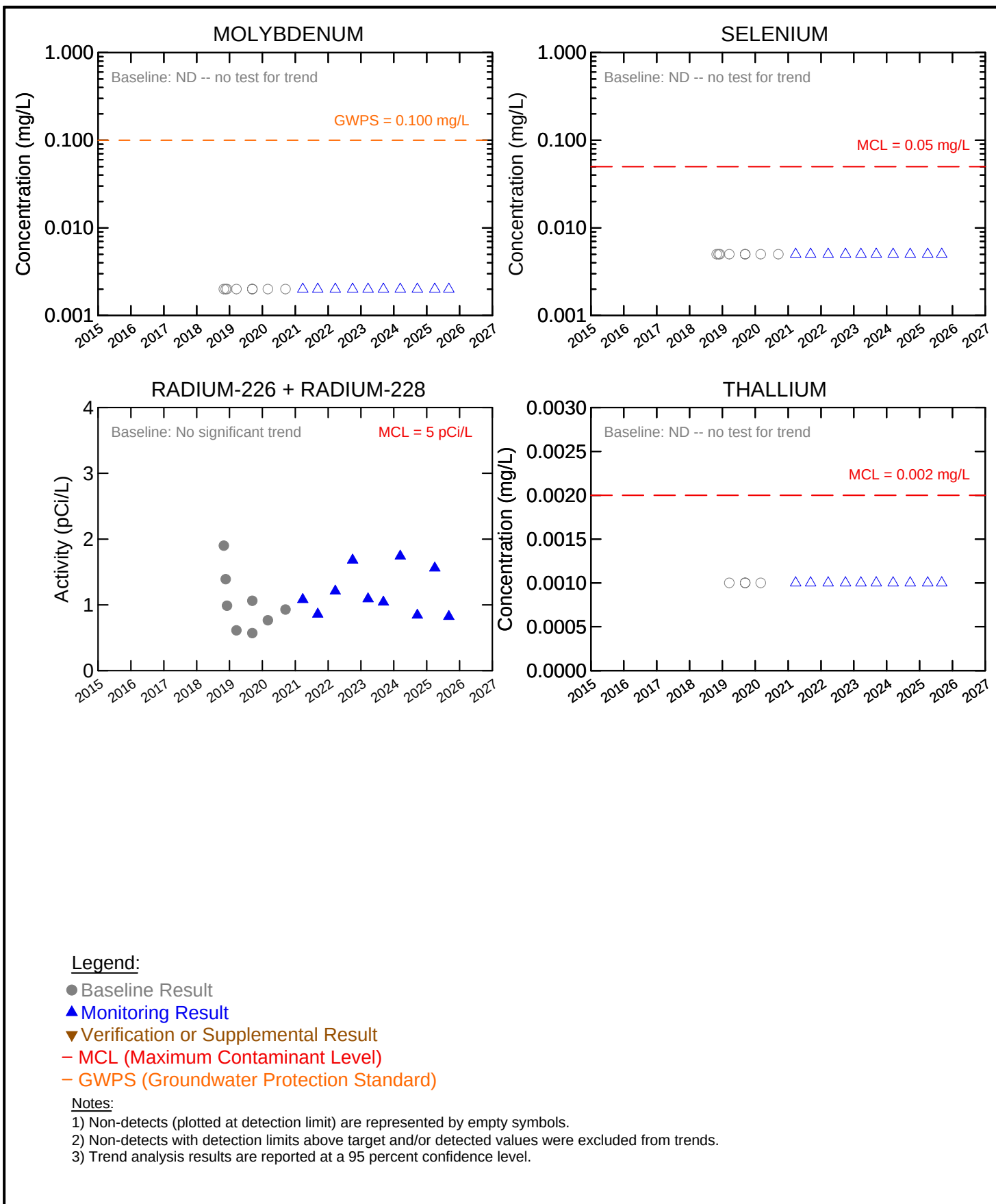


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-19 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 26, 2025

FIGURE 13.d

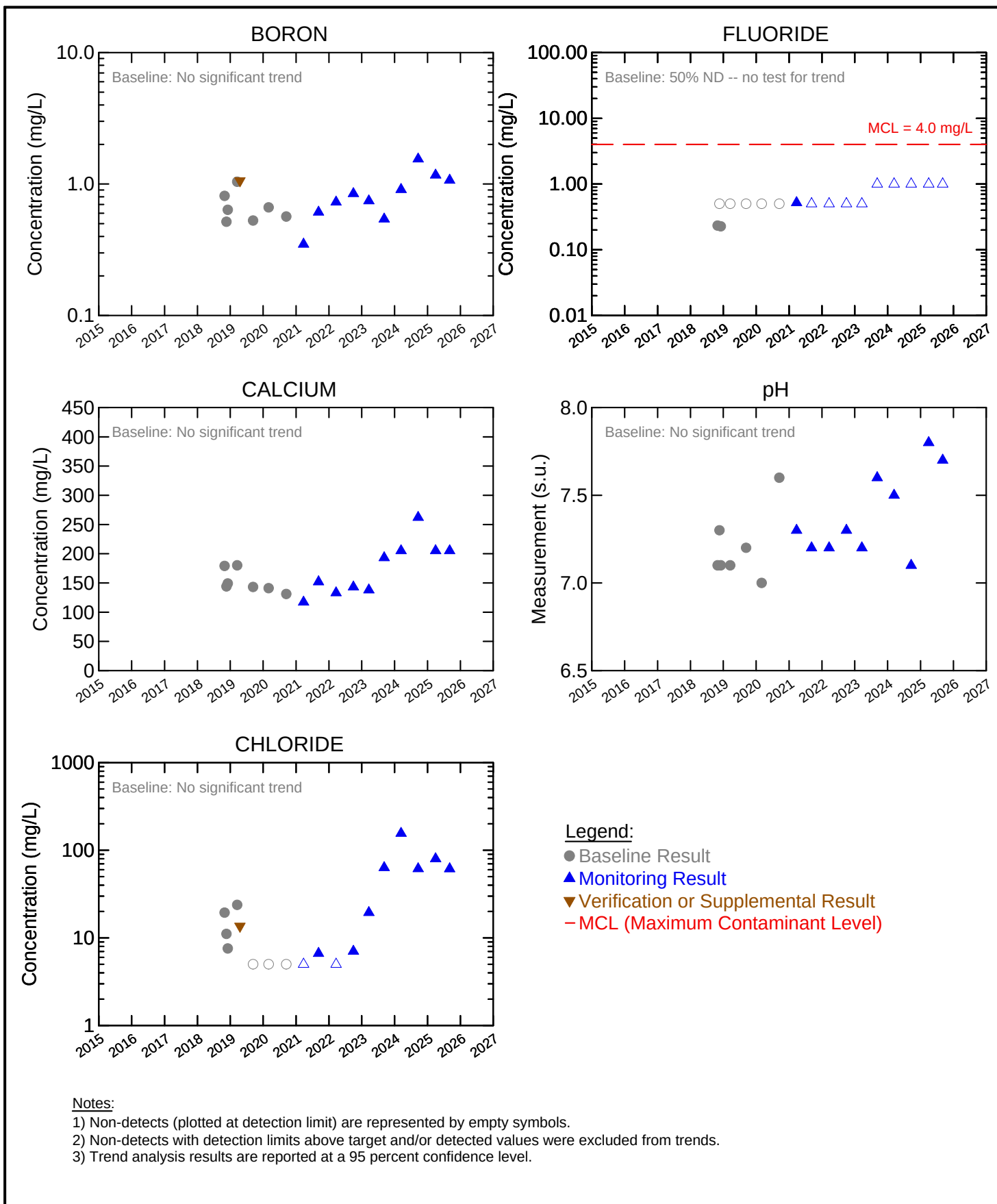


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-19 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 24, 2025

FIGURE 13.e

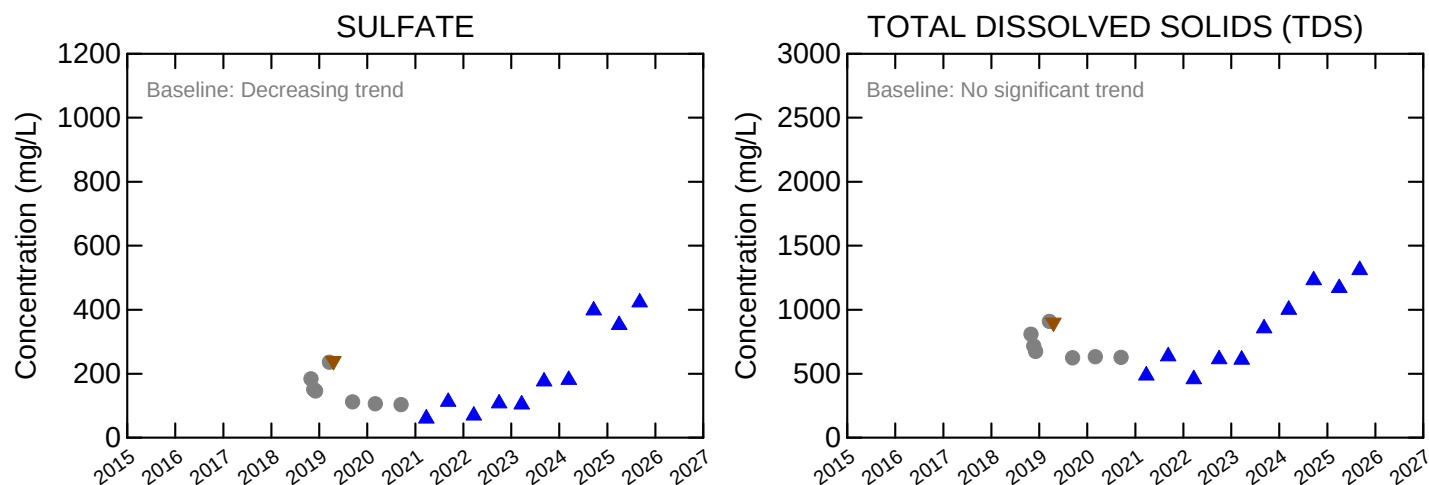


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-20 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 24, 2025

FIGURE 14.a



Legend:

- Baseline Result
- ▲ Detection Monitoring Result
- ▼ Verification or Supplemental Result

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

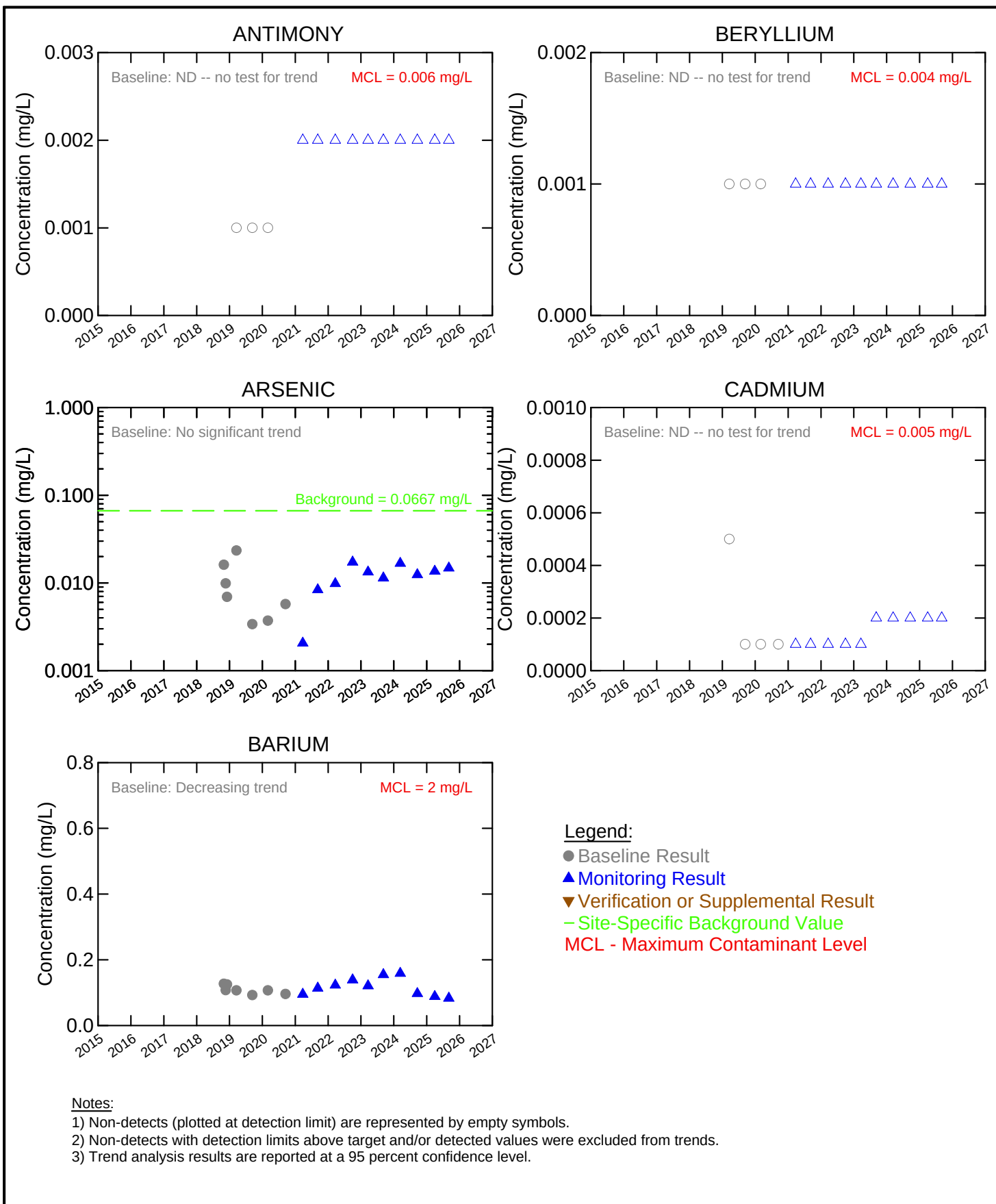


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-20 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. **12576485**
Date: **Nov 24, 2025**

FIGURE 14.b

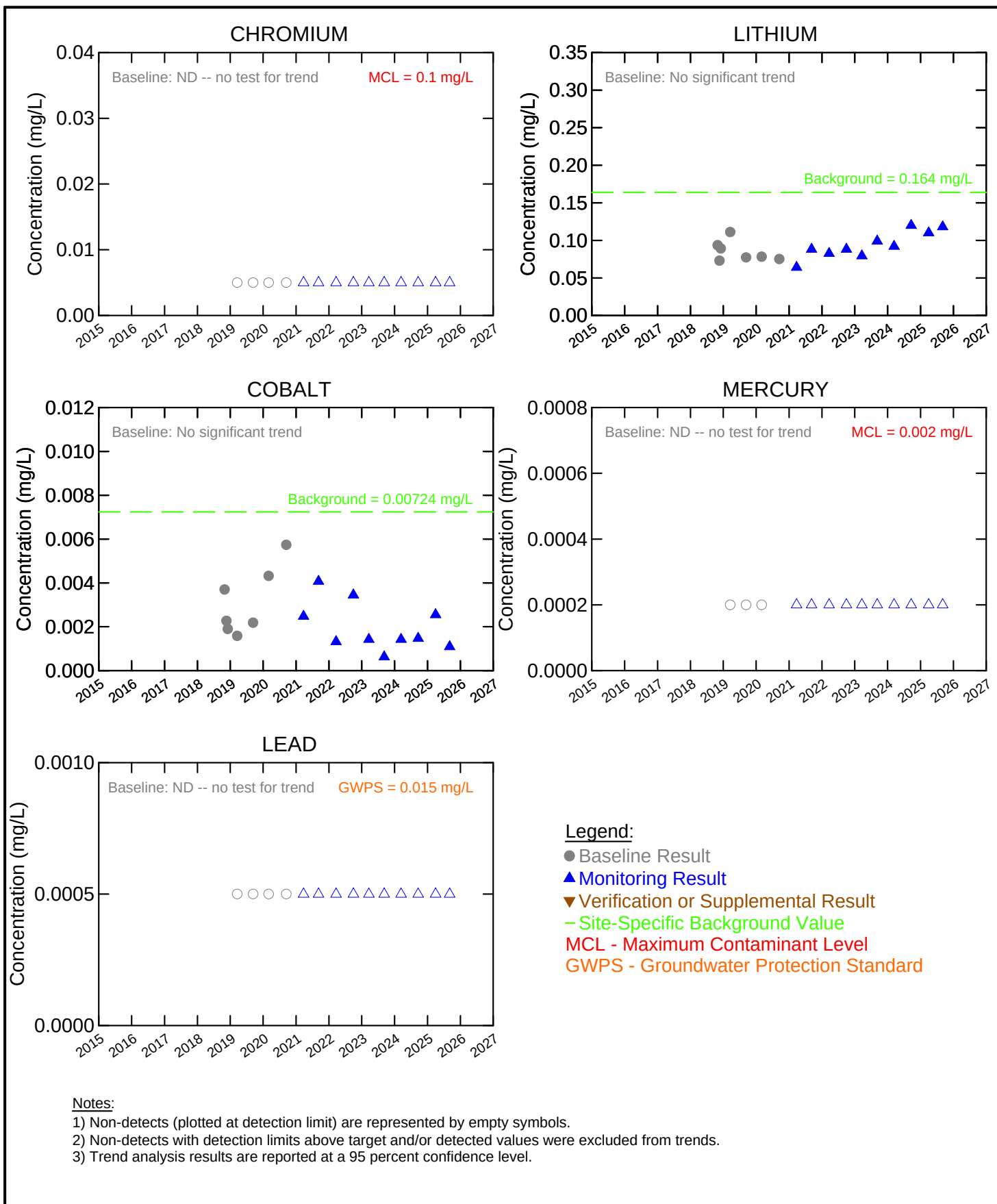


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-20 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 14.c

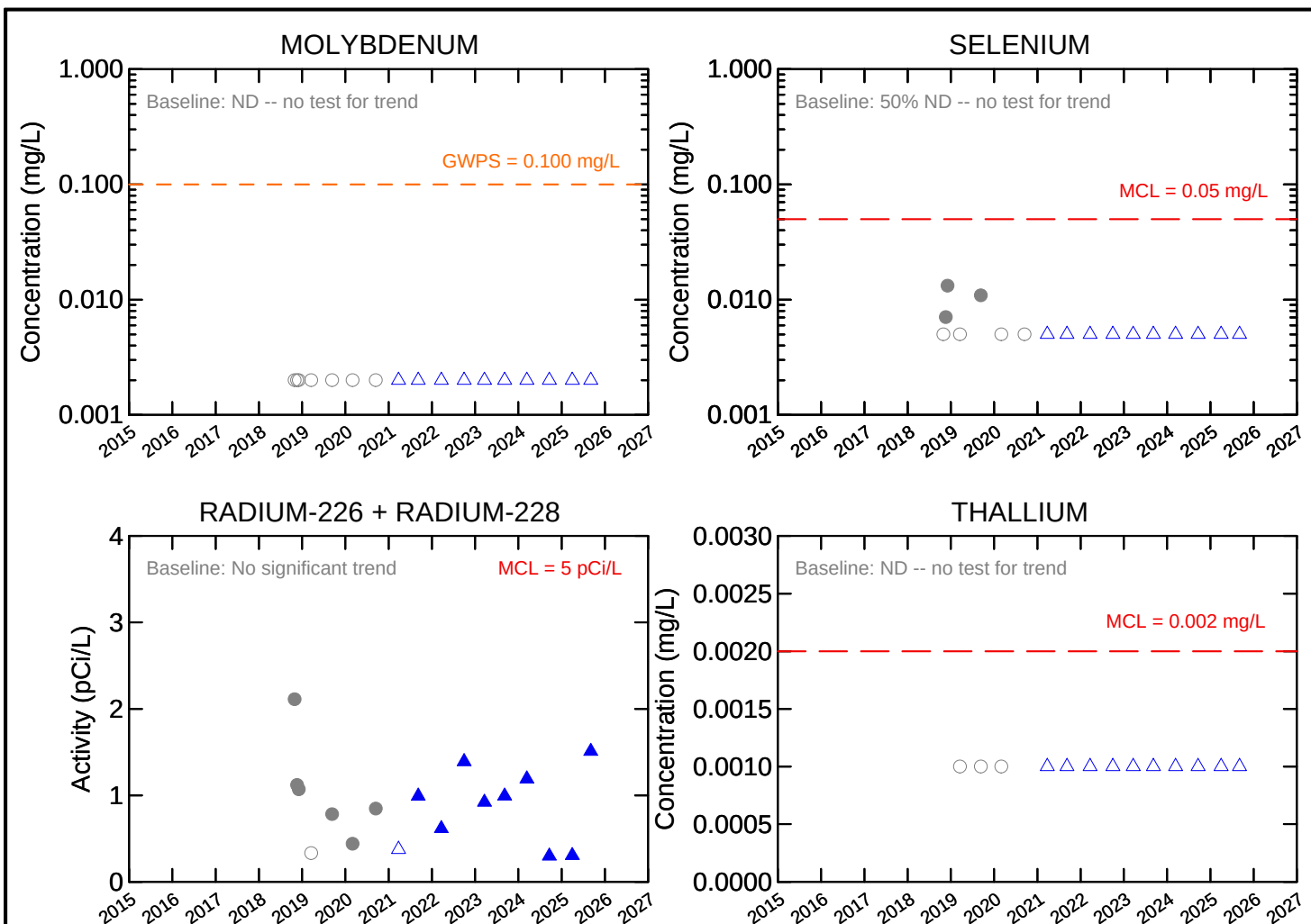


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-20 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 26, 2025

FIGURE 14.d



Legend:

- Baseline Result
- ▲ Monitoring Result
- ▼ Verification or Supplemental Result
- MCL (Maximum Contaminant Level)
- GWPS (Groundwater Protection Standard)

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

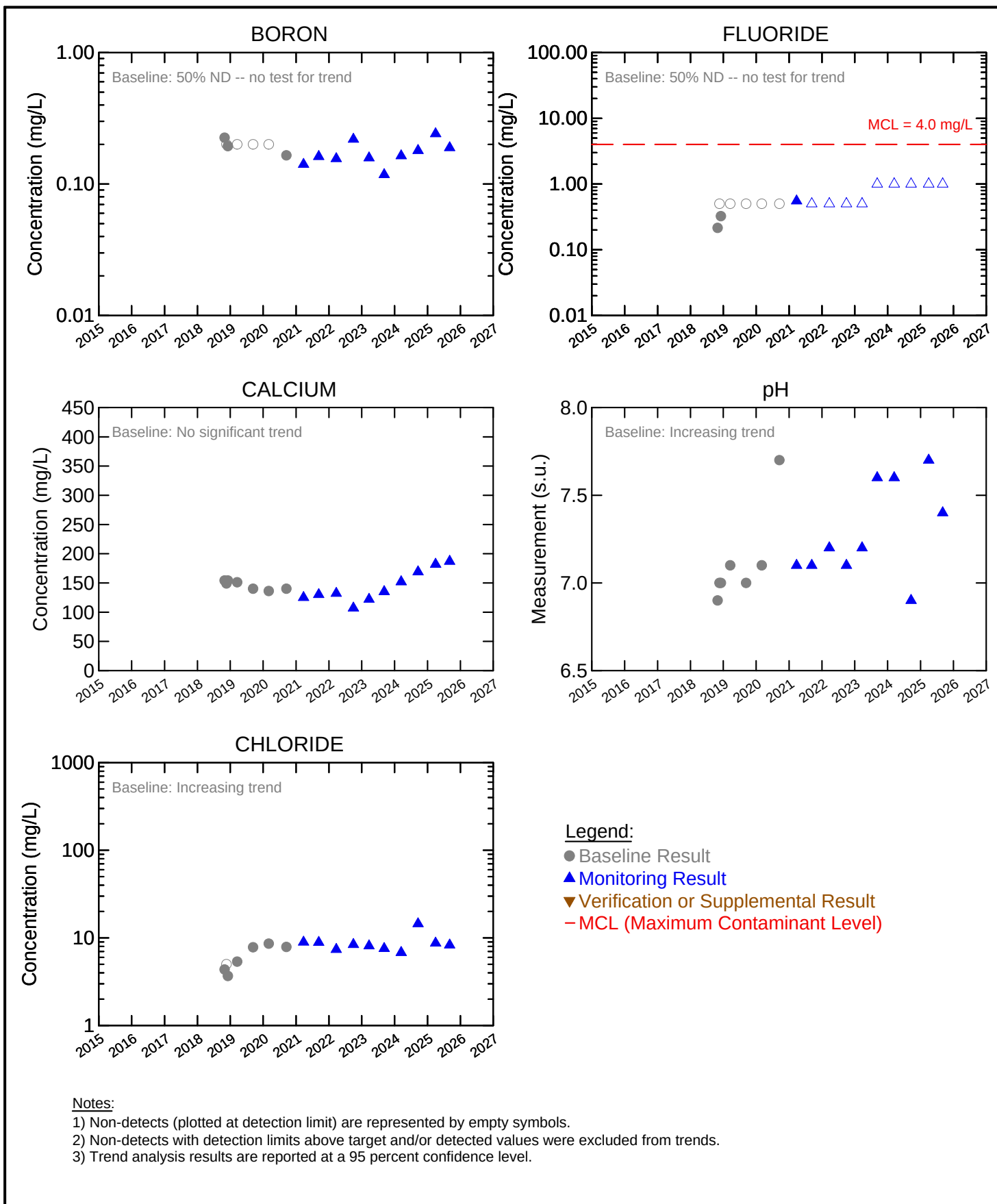


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-20 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 24, 2025

FIGURE 14.e

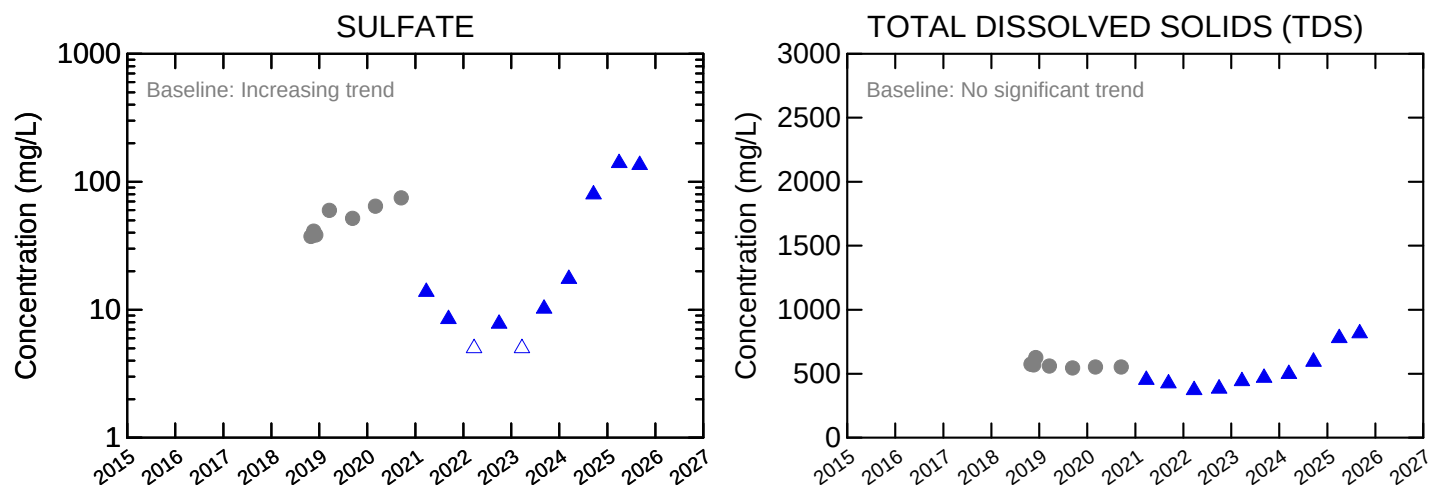


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-21 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 24, 2025

FIGURE 15.a



Legend:

- Baseline Result
- ▲ Detection Monitoring Result

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.

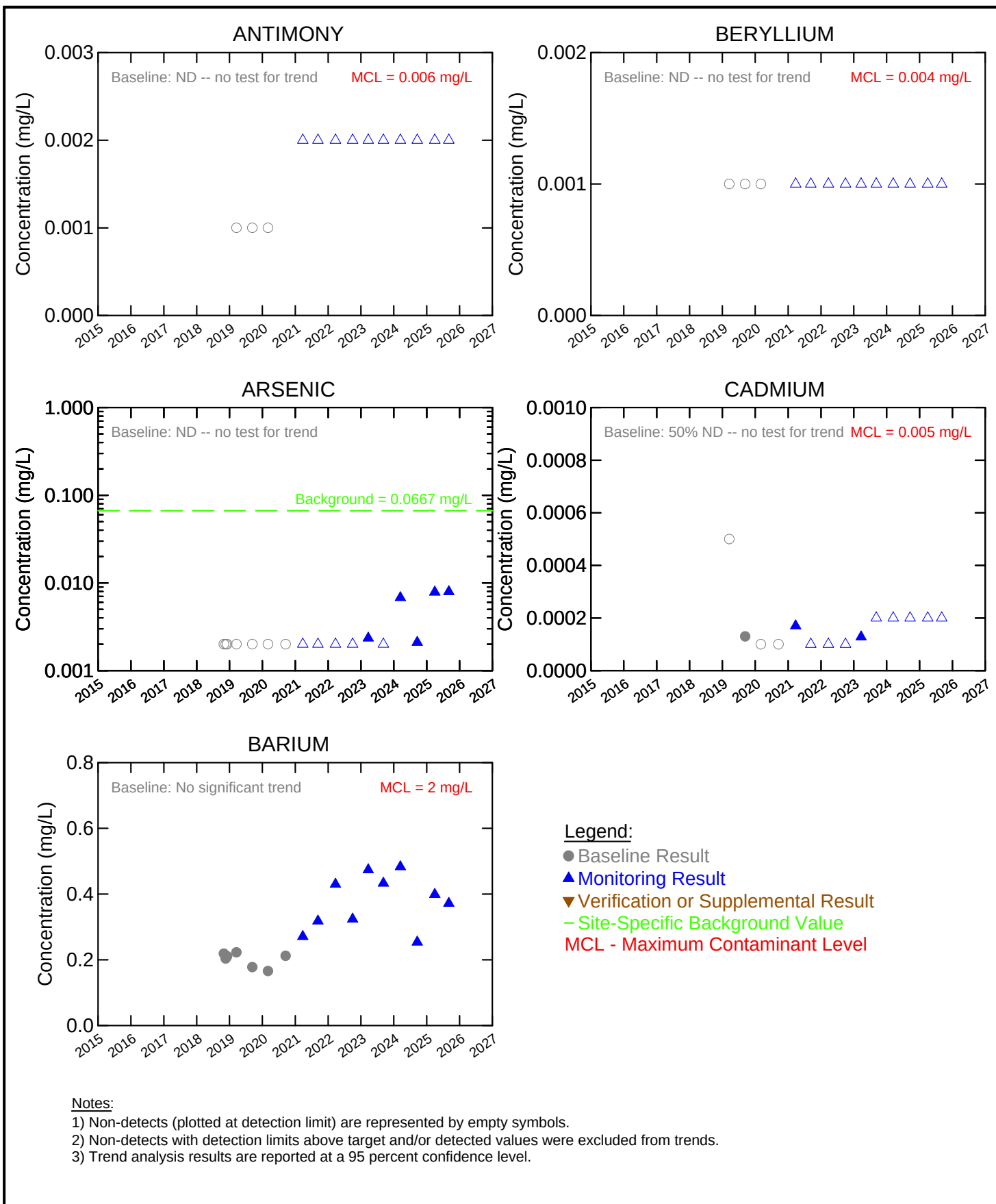


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-21 -- APPENDIX III PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. **12576485**
Date: **Nov 24, 2025**

FIGURE 15.b

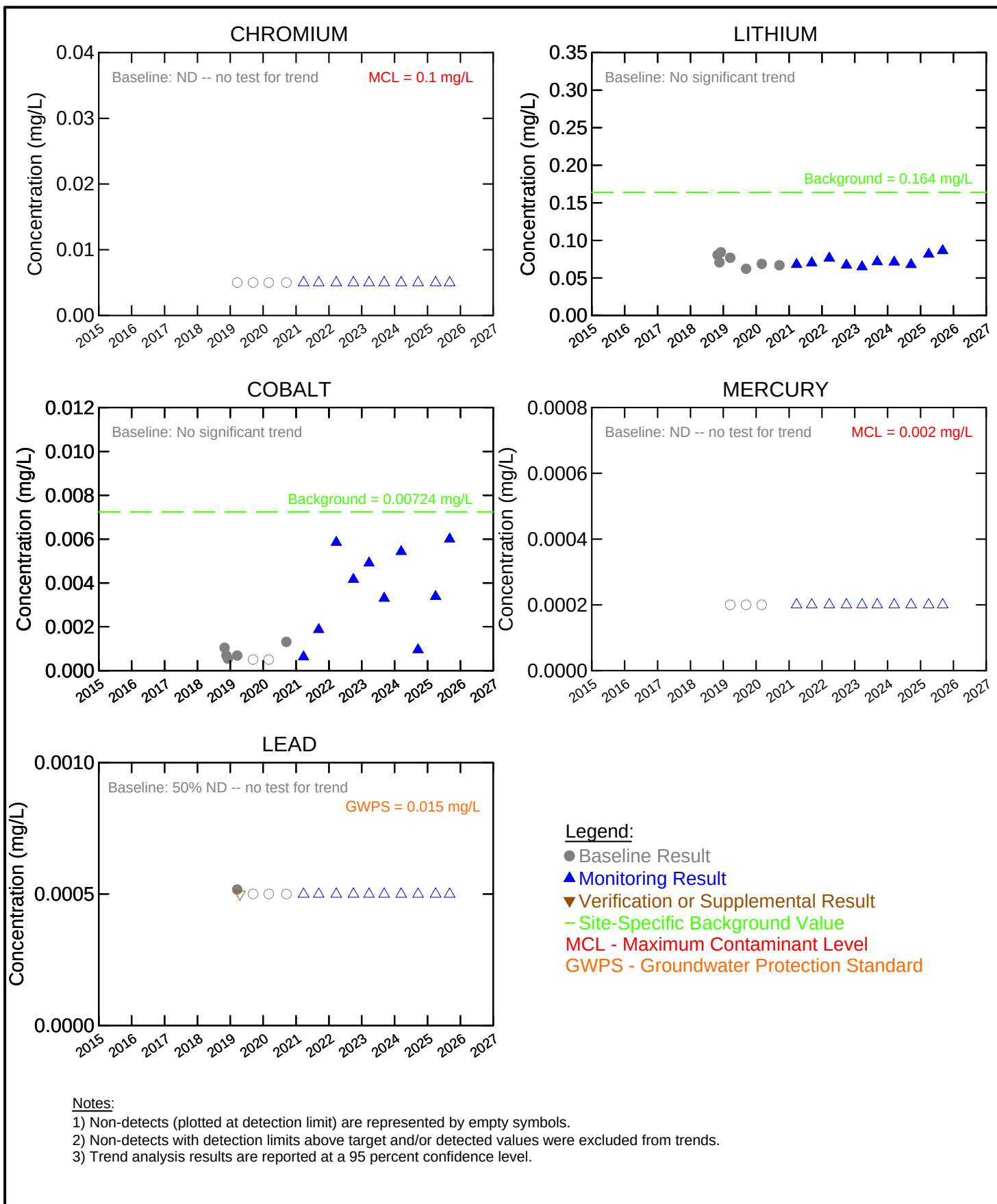


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-21 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 25, 2025

FIGURE 15.c

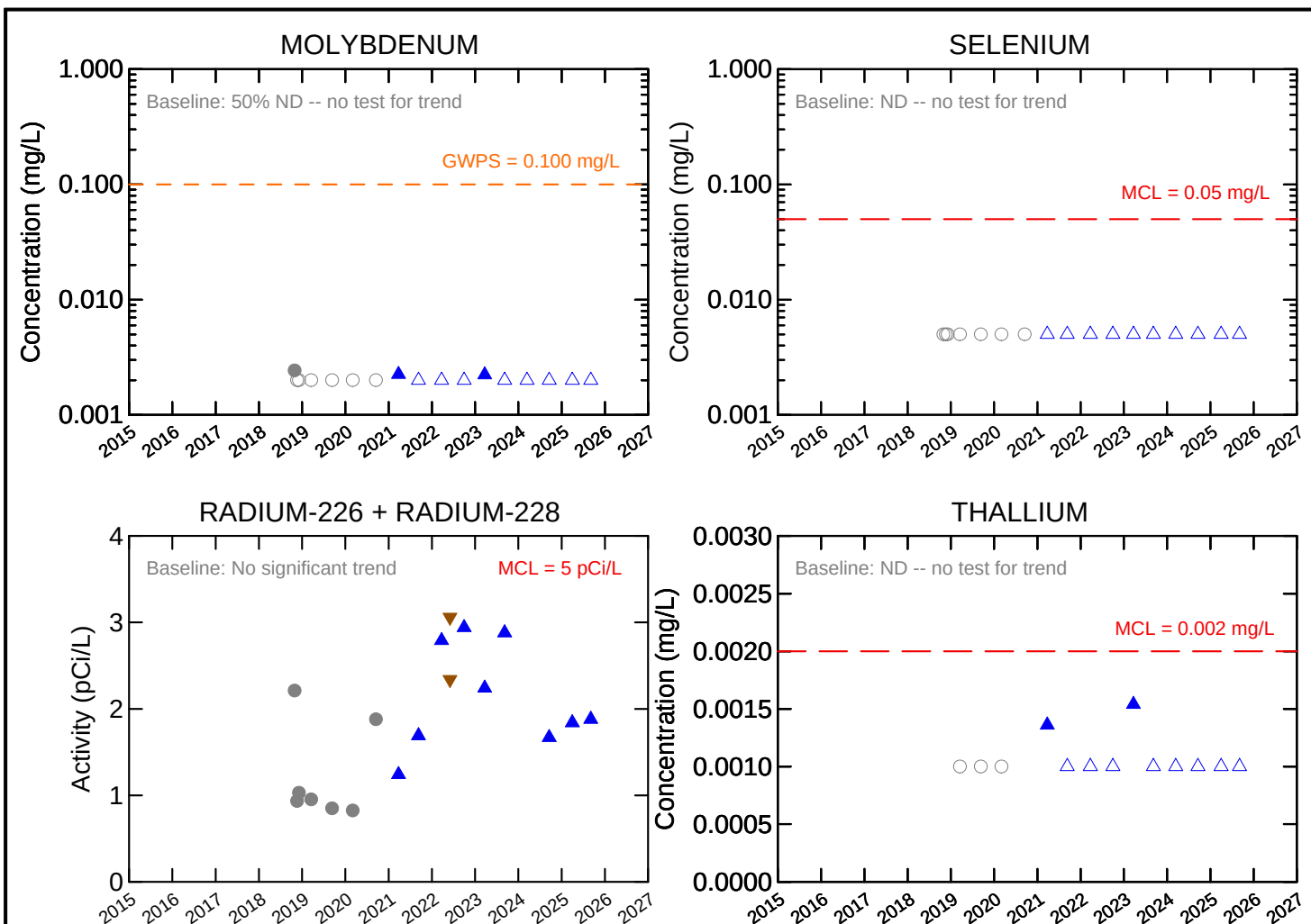


MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-21 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 26, 2025

FIGURE 15.d



Legend:

- Baseline Result
- ▲ Monitoring Result
- ▼ Verification or Supplemental Result
- MCL (Maximum Contaminant Level)
- GWPS (Groundwater Protection Standard)

Notes:

- 1) Non-detects (plotted at detection limit) are represented by empty symbols.
- 2) Non-detects with detection limits above target and/or detected values were excluded from trends.
- 3) Trend analysis results are reported at a 95 percent confidence level.



MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

**MW-21 -- APPENDIX IV PARAMETERS
ANALYTE CONCENTRATION vs. TIME**

Project No. 12576485
Date: Nov 24, 2025

FIGURE 15.e

Appendix D

Groundwater Analytical Data Summary

Appendix D

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:			MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	
Sample ID:			MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	
Sample Date:			12/9/2015	3/1/2016	6/6/2016	9/20/2016	12/19/2016	2/20/2017	4/25/2017	7/5/2017	9/11/2017	4/18/2018	8/21/2018	9/4/2018	9/18/2018	12/4/2018	1/17/2019	3/19/2019	4/17/2019	9/11/2019	9/11/2019 (Duplicate)	12/12/2019
Parameters	Units	Site-Specific GWPS																				
Appendix III																						
Boron	mg/L	--	0.780	1.13	1.33	1.11	1.32	0.815	<0.200	<0.200	0.583	0.216	0.243	0.297	1.27	1.04	--	0.268	--	0.496	0.546	--
Calcium	mg/L	--	287	185	200	171	167	158	125	134	151	141	140	143	163	154	--	135	--	144	147	--
Chloride	mg/L	--	6.47	13.5	5.99	11.5	8.57	7.08	28.0	20.4	12.1	30.1 J	16.5	16.9	6.38	9.52	--	14.0	--	9.40	9.20	<5.00
Fluoride	mg/L	4.0	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	1.24	<0.500	<0.500	<0.500	<0.100	<0.100	<0.100	0.217	--	<0.500	--	<0.500	<0.500	--
pH, lab	s.u.	--	6.88 J	6.99 J	6.74 J	7.2 J	7.0 J	7.0 J	7.2 J	7.1 J	7.0 J	7.1 J	7.4 J	7.3 J	7.4 J	7.0 J	--	7.1 J	--	7.2 J	7.1 J	--
Sulfate	mg/L	--	360	182	178	98.3	105	70.0	49.9	48.0	82.3	51.2 J	52.7	48.6	89.8	91.1	--	35.5	--	54.3	55.2	--
Total dissolved solids (TDS)	mg/L	--	1280	864	848 J	760	768	734	588	1390	740	566	590	622	686	668	--	596	--	642	646	--
Appendix IV																						
Antimony	mg/L	0.006	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	--	--	--	--	--	<0.00100	--	<0.00100	<0.00100	--
Arsenic	mg/L	0.0667	0.0509	0.0632	0.0694	0.0539	0.0720	0.0386	0.0214	0.0156	--	0.0210	0.0201	0.0194	0.0245	0.0225	0.0310 J	0.108 J/0.230 J	0.0484	0.0483	0.0474	0.0569
Barium	mg/L	2.0	0.193	0.130	0.136	0.125	0.129	0.137	0.137	0.159	--	0.173	0.198	0.199	0.188	0.177	--	0.222	--	0.184	0.192	--
Beryllium	mg/L	0.004	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	--	--	--	--	--	<0.00100	--	<0.00100	<0.00100	--
Cadmium	mg/L	0.005	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500	--	--	--	--	--	<0.000500	--	<0.000100	<0.000100	--
Chromium	mg/L	0.1	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500	--	--	<0.00500	--	<0.00500	<0.00500	--
Cobalt	mg/L	0.00724	0.00331	0.00201	0.00159	0.00175	0.00198	0.00164	0.00144	0.00192	--	0.00204	0.00246	0.00271	0.00238	0.00255	--	0.00199	--	0.00170	0.00176	--
Lead	mg/L	0.015	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500	--	--	--	--	--	<0.000500	--	<0.000500	<0.000500	--
Lithium	mg/L	0.164	0.131	0.100	0.108	0.0889	0.102	0.0821	0.0589	0.0739	--	0.0715	0.0708	0.0735	0.104	0.0974	--	0.0763	--	0.0737	0.0776	--
Mercury	mg/L	0.002	<0.000200	<0.000200	<0.000200	<0.000200 J	<0.000200	<0.000200	<0.000200	<0.000200	--	<0.000200	--	--	--	--	--	<0.000200	--	<0.000200	<0.000200	--
Molybdenum	mg/L	0.100	0.00266	0.00218	0.00243	0.00242	0.00269	0.00258	<0.00200	<0.00200	--	0.00211	<0.00200	<0.00200	0.00233	<0.00200	--	<0.00200	--	0.00229	0.00246	--
Radium-226 & 228	pCi/L	5	<0.324	<0.426	0.896	0.575	0.791	<0.164	<0.239	0.597	--	0.501	0.829	--	--	--	--	0.638	--	<0.476	0.960	--
Selenium	mg/L	0.05	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	0.00599	<0.00500	--	<0.00500	--	<0.00500	<0.00500	--
Thallium	mg/L	0.002	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	--	--	--	--	--	<0.00100	--	<0.00100	<0.00100	--
Other																						
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0314	--	--	0.0379	0.0374	0.0467
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0181	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.002 J	--	--	--	--	--
Copper	mg/L	--	<0.00200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	--	--	--	--	--	--	--	--	--
Iron	mg/L	--	24.2	23.1	25.9	23.7	--	18.8	7.83	8.18	15.8	--	10.7	10.3	9.90	10.4	14.6	--	--	17.9	17.6	19.2
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14.7	--	--	14.8	14.7	18.0
Magnesium	mg/L	--	95.9	59.9	63.0	53.0	50.1	54.5	41.5	45.2	53.3	47.4	47.2	47.3	51.5	47.3	--	--	--	--	--	--
Manganese	mg/L	--	2.86	1.89	1.66	1.66	2.10	1.39	1.04	1.17	1.25	1.32	1.30	1.48	1.39	1.58	--	--	--	--	--	--
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	--	9.67	8.28	7.37	7.56	7.54	7.54	6.87	6.58	--	7.58	7.04	7.12	7.92	7.44	--	--	--	--	--	--
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	--	27.4	23.9	23.9	23.6	20.7	22.3	17.6	16.6	20.7	19.2	20.8	20.4	27.5	22.9	--	--	--	--	--	--
Radium-226	pCi/L	--	0.165	0.117	0.213	0.234	<0.387	<0.0886	0.102	0.168	--	0.178	0.371	--	--	--	--	0.164 J	--	<0.112	0.248	--
Radium-228	pCi/L	--	<0.324	<0.426	0.683	<0.453	<0.403	<0.0752	<0.136	0.429	--	<0.324	0.457	--	--	--	--	0.475	--	<0.364	0.712	--
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	536	--	--	579	584	--
Ammonia-N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.08	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	--	<2.00 J	<0.500 J	0.749 J	<0.500 J	<0.500 J	2.42 J	<0.500 J	<0.500 J	<0.500 J	0.872 J	<0.100	<0.100	<0.100	0.506	--	--	--	--	--	--
Nitrite (as N)	mg/L	--	--	<0.500 J	<0.500 J	--	--	--	--	--	--	--	<0.100	<0.100	<0.100	<0.100	--	--	--	--	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	--	--	--	--	--	1.49	1.22	1.84 J-	1.75	--	--	--	--	--	--
Total nitrogen	mg/L	--	--	--	--	--	--	--	--	--	--	--	1.49	1.22	1.84	2.26	--	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

< Not detected at the associated reporting limit.

J Estimated concentration.

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-4	MW-4	MW-4	MW-4
Sample ID:		MW02-GW-0922	DP01-GW-0922	MW02-GW-0323	DP01-GW-0323	MW02-GW-0923	DP01-GW-0923	MW02-GW-0324	DP01-GW-0324	MW02-GW-0924	DP01-GW-0924	MW02-GW-0325	DP01-GW-0325	MW02-GW-0925	DP01-GW-0925	MW-4	MW-4	MW-4	MW-4
Sample Date:		9/27/2022	9/27/2022	3/22/2023	3/22/2023	9/6/2023	9/6/2023	3/12/2024	3/12/2024	9/18/2024	9/18/2024	3/31/2025	3/31/2025	9/3/2025	9/3/2025	12/9/2015	3/1/2016	6/6/2016	9/20/2016
Parameters	Units		(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)				
Appendix III																			
Boron	mg/L	0.287	0.314	0.503	0.526	0.315 J	0.179 J	0.631	0.602	0.547	0.551	0.440	0.424	0.435	0.411	3.30	3.49	2.32	1.49
Calcium	mg/L	168	170	155	154	170	189	216	218	220	222	178	173	168	152	366	252	324	378
Chloride	mg/L	22.4	23.3	15.6	15.3	6.73	7.07	<5.00	<5.00	<5.00	<5.00	<5.00	5.26	<5.00	<5.00	18.3	<5.00	15.2	20.1
Fluoride	mg/L	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<0.500	<0.500
pH, lab	s.u.	7.1 J	7.2 J	7.3 J	7.3 J	7.5 J	7.3 J	7.3 J	7.5 J	7.1 J	7.1 J	7.6 J	7.7 J	7.6 J	7.7 J	6.87 J	7.00 J	6.73 J	6.8 J
Sulfate	mg/L	65.0	65.7	121	121	97.3	95.0	205	201	208	208	210	202	163	168	996	628	852	975
Total dissolved solids (TDS)	mg/L	668	678	690	668	684	698	880	864	872	872	858	876	810	850	2340	1830	1960 J	2310
Appendix IV																			
Antimony	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00100	<0.00100	<0.00100	<0.00100
Arsenic	mg/L	0.0276	0.0296	0.0135	0.0138	0.0170 J	0.0101 J	0.0182	0.0188	0.0220	0.0173	0.0166	0.0174	0.0165	0.0165	<0.00200	<0.00200	<0.00200	<0.00200
Barium	mg/L	0.227	0.232	0.153	0.151	0.217	0.229	0.217 J+	0.219 J+	0.259 J+	0.258 J+	0.184	0.184	0.221	0.201	0.0275	0.0245	0.0374	0.0364
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	<0.000100	<0.000100	<0.000100	<0.000100	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000500	<0.000500	<0.000500	<0.000500
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	0.00223	0.00219	0.00325	0.00323	0.00301 J	0.00158 J	0.00547	0.00562	0.00404	0.00407	0.00573	0.00572	0.00377	0.00367	0.00154	<0.000500	0.000997	0.0104
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	0.000513	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.0828	0.0845	0.0785	0.0848	0.0824	0.0971	0.120	0.111	0.132	0.133	0.111	0.107	0.123	0.114	0.254	0.180	0.188	0.195
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200 J
Molybdenum	mg/L	0.00225	<0.00200	<0.00200	<0.00200	0.00256	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00225	<0.00200	0.00245	0.00235	<0.00200	<0.00200	<0.00200	<0.00200
Radium-226 & 228	pCi/L	1.69	1.52	0.973	0.753	0.910	0.987	1.11	0.785	0.682	0.987	1.11	0.272	1.31	1.19	<0.372	<0.427	0.460	0.829
Selenium	mg/L	<0.00500	<0.00500	0.0202	0.0195	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0113	<0.00500	<0.00500
Thallium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00100 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Other																			
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.00200	<0.00500	<0.00500	<0.00500
Iron	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.137	0.155	<0.100	13.1
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	145	104	114	112
Manganese	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.424	0.0166	0.611	5.13
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.2	9.06	8.12	10.8
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	252	196	151	152
Radium-226	pCi/L	0.330	0.269	0.240	<0.157	0.218	0.259	0.273	0.184	0.300	0.255	0.175	0.0581	0.285	0.470	0.0798	<0.0698	0.168	0.147
Radium-228	pCi/L	1.36	1.25	0.733	<0.596	0.692	0.728	0.838	0.601	0.382	0.372	1.14	0.214	1.03	0.724	<0.372	<0.427	<0.406	0.682
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.00 J	<0.500 J	<0.500 J	<0.500 J
Nitrite (as N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.500 J	<0.500 J	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total nitrogen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	
Sample ID:	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW04-GW-0919	MW-4-GW-0320	MW4-GW-0920	MW04-GW-0321	MW04-GW-0921	MW04-GW-0322	MW04-GW-0622	MW04-GW-0922	MW04-GW-0323	MW04-GW-0923	
Sample Date:	12/19/2016	2/20/2017	4/24/2017	7/5/2017	9/11/2017	4/18/2018	8/21/2018	3/19/2019	4/16/2019	9/11/2019	3/3/2020	9/14/2020	3/24/2021	9/8/2021	3/23/2022	6/2/2022	9/28/2022	3/21/2023	9/7/2023	
Parameters	Units																			
Appendix III																				
Boron	mg/L	1.32	1.34	0.972	1.05	0.898	0.855	0.397	0.926	1.82	0.528	0.848	0.335	0.331	0.223	0.359	0.317	0.263	0.243	0.228
Calcium	mg/L	323	307	279	265	245	208	128	197	--	202	199	127	128	110	173	--	145	134	123
Chloride	mg/L	18.7	16.2	15.8	17.3	18.6	19.2 J	17.0	29.3	24.0	32.5	41.5	47.2	44.5	40.2	35.0	--	27.1	7.80	26.9
Fluoride	mg/L	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.100	<0.500	--	<0.500	<0.500	<0.500	0.702	<0.500	<0.500	--	<0.500	<0.500	<1.00
pH, lab	s.u.	6.9 J	6.8 J	6.9 J	7.0 J	6.9 J	6.9 J	7.3 J	6.9 J	--	7.2 J	7.3 J	7.2 J	7.2 J	7.2 J	7.2 J	--	7.2 J	7.2 J	7.6 J
Sulfate	mg/L	844	839	681	721	608	494 J	262	496	781	410	409	167	172	118	299	--	157	41.9	123
Total dissolved solids (TDS)	mg/L	2570	2220	1730	1760	1860	1190	850	1390	2130	1210	1190	712	704	586	892	--	764	702	696
Appendix IV																				
Antimony	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	--	<0.00100	--	<0.00100	<0.00100	--	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200
Arsenic	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200	0.00239	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Barium	mg/L	0.0355	0.0334	0.0364	0.0353	--	0.0376	0.0325	0.0338	--	0.0444	0.0389	0.0391	0.0640	0.0474	0.0902	0.0824	0.0711	0.0607	0.0639
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	--	<0.00100	--	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500	--	<0.000500	--	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	--	<0.000100	0.000196	<0.000200
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	0.00841	0.00855	0.00791	0.00758	--	0.00493	0.00252	0.00377	--	0.00434	0.00399	0.00249	0.00282	0.00211	0.00366	--	0.00311	0.00282	0.00262
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500	--	<0.000500	--	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.174	0.171	0.146	0.121	--	0.128	0.0787	0.149	--	0.104	0.114	0.0725	0.0793	0.0628	0.0994	--	0.0780	0.0714	0.0555
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	--	<0.000200	--	<0.000200	--	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200
Molybdenum	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200
Radium-226 & 228	pCi/L	0.748	0.398	0.375	0.425	--	<0.241	0.634	<0.399	--	<0.241	<0.475	0.594	<0.380	0.924	1.45	0.652	1.42	0.777	0.893
Selenium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500
Thallium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	--	<0.00100	--	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100 J
Other																				
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	mg/L	--	18.1	13.7	13.4	13.5	--	2.96	--	--	--	--	--	--	--	--	--	--	--	--
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	96.2	115	94.6	94.0	93.1	76.6	46.4	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	mg/L	4.47	3.43	4.33	3.35	3.13	2.32	1.12	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	10.3	10.1	9.93	9.18	--	9.16	6.08	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	120	136	123	125	120	117	77.3	--	--	--	--	--	--	--	--	--	--	--	--
Radium-226	pCi/L	<0.0956	<0.123	0.139	<0.0713	--	<0.0482	0.183	0.149 J	--	<0.108	0.184	<0.0881	<0.0647	0.478	<0.501	0.141	<0.0532	<0.173	<0.113
Radium-228	pCi/L	0.653 J	<0.275	<0.236	0.353	--	<0.193	0.452	<0.250	--	<0.334	<0.291	0.506	<0.315	<0.445	0.947	0.511	1.36	<0.604	0.779
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	<0.500 J	<0.500 J	<0.500 H	<0.500 J	<0.500 J	0.574 J	<0.100	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite (as N)	mg/L	--	--	--	--	--	--	<0.100	--	--	--	--	--	--	--	--	--	--	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--
Total nitrogen	mg/L	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix D

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-4	MW-4	MW-4	MW-4	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	
Sample ID:		MW04-GW-0324	MW04-GW-0924	MW04-GW-0325	MW04-GW-0925	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	DP-02	MW-8	MW-8	MW-8	MW-8	MW-8	
Sample Date:		3/12/2024	9/18/2024	3/31/2025	9/4/2025	12/9/2015	2/29/2016	6/6/2016	9/19/2016	12/19/2016	2/21/2017	4/24/2017	7/5/2017	9/11/2017	1/30/2018	1/30/2018	4/18/2018	8/21/2018	3/18/2019	4/16/2019	9/10/2019	3/3/2020
Parameters		(Duplicate)																				
Units																						
Appendix III																						
Boron	mg/L	0.223	0.222	0.242	0.195	3.44	4.01	1.23	4.91	5.38	4.00	0.712	0.703	2.80	--	--	0.999	1.14	2.47	1.45	1.61	2.71
Calcium	mg/L	125	119	93.3	84.6	212	204	213	187	198	190	196	167	208	--	--	171	153	163	--	159	150
Chloride	mg/L	29.6	32.6	23.4	22.1	5.07	5.90	<5.00	<5.00	<5.00	8.69	5.30	<5.00	5.60	--	--	8.23 J	4.80	7.19	--	6.70	13.3
Fluoride	mg/L	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	2.31	<0.500	<0.500	<0.500	--	--	<0.500	<0.100	<0.500	--	<0.500	<0.500
pH, lab	s.u.	7.5 J	7.1 J	7.8 J	7.2 J	7.08 J	7.23 J	7.04 J	7.3 J	7.2 J	7.4 J	7.2 J	7.1 J	7.2 J	7.5 J	7.7 J	7.1 J	7.3 J	7.2 J	--	7.3 J	7.5 J
Sulfate	mg/L	143	123	130	137	694	734	313	803	819	690	224	169	489	--	--	190 J	198	375	216	246	469
Total dissolved solids (TDS)	mg/L	596	574	546	562	1590	1700	1060 J	1730	1790	1810	1160	1000	1610	--	--	870	920	1200	980	974	1120
Appendix IV																						
Antimony	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	--	--	<0.00100	--	<0.00100	--	<0.00100	<0.00100
Arsenic	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	--	--	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200
Barium	mg/L	0.0578 J+	0.0604 J+	0.0504	0.0496	0.111	0.0862	0.0926	0.0731	0.0736	0.0596	0.0751	0.0778	--	--	--	0.0714	0.0782	0.0705	--	0.0819	0.0697
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	--	--	<0.00100	--	<0.00100	--	<0.00100	<0.00100
Cadmium	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	--	--	<0.000500	--	<0.000500	--	<0.000100	<0.000100
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	--	--	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500
Cobalt	mg/L	0.00196	0.00200	0.00163	0.00178	0.00253	0.00344	0.00303	0.00248	0.00272	0.00211	0.00287	0.00313	--	--	--	0.00351	0.00297	0.00256	--	0.00276	0.00192
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	--	--	<0.000500	--	<0.000500	--	<0.000500	<0.000500
Lithium	mg/L	0.0639	0.0572	0.0501	0.0501	0.0950	0.0743	0.106	<0.0500	0.0585	0.0684	0.111	0.103	--	--	--	0.104	0.0909	0.0850	--	0.0884	0.0563
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200 J	<0.000200	<0.000200	<0.000200	<0.000200	--	--	--	<0.000200	--	<0.000200	--	<0.000200	<0.000200
Molybdenum	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	0.00589	0.0565	0.0184	0.143	0.0895	0.0398	0.0241	0.0165	--	--	--	0.0233	0.00976	0.0355	0.0178	0.0135	0.0303
Radium-226 & 228	pCi/L	0.588	0.130	0.829	0.558	0.535	<0.479	0.644	0.641	0.657	<0.377	<0.0102	0.959	--	--	--	0.481	0.722	0.410	--	0.589	<0.315
Selenium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	0.0985	0.0620	<0.00500	0.0672	0.00768	<0.00500	<0.00500	<0.00500	--	--	--	0.00590	<0.00500	<0.00500	--	<0.00500	<0.00500
Thallium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	--	--	<0.00100	--	<0.00100	--	<0.00100	<0.00100
Other																						
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	--	--	--	--	<0.00200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	--	<0.00500	--	--	--	--	--
Iron	mg/L	--	--	--	--	<0.100	<0.100	1.50	<0.100	<1.00	0.469	0.733	1.25	1.27	--	--	--	2.83	--	--	--	--
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	--	--	--	--	35.3	31.2	46.9	25.3	28.0	39.6	57.5	51.1	60.3	--	--	48.6	45.5	--	--	--	--
Manganese	mg/L	--	--	--	--	1.28	1.96	2.16	1.56	2.05	1.75	3.81	3.29	3.06	--	--	3.47	3.02	--	--	--	--
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	--	--	--	--	20.1	19.5	12.5	18.9	19.2	16.0	10.4	8.11	--	--	--	10.5	6.56	--	--	--	--
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	--	--	--	--	220	241	93.2	296	305	238	84.5	89.9	188	--	--	99.3	98.0	--	--	--	--
Radium-226	pCi/L	<0.110	0.0976	0.138	0.109	0.108	0.181	0.308	0.251	<0.165	0.139	<0.0459	0.184	--	--	--	0.185	0.300	0.135 J	--	<0.0953	<0.0985
Radium-228	pCi/L	<0.478	0.0328	0.691	0.449	0.428	<0.479	<0.370	<0.426	<0.493	<0.239	<-0.0356	0.776	--	--	--	<0.297	0.422	<0.275	--	0.493	<0.217
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	--	--	--	--	6.68 J	0.807 J	<0.500 J	0.525 J	<0.500 J	<0.500 J	<0.500 H	<0.500 J	<0.500 J	--	--	0.744 J	0.116 J	--	--	--	--
Nitrite (as N)	mg/L	--	--	--	--	--	<0.500 J	<0.500 J	--	--	--	--	--	--	--	--	--	<0.100	--	--	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.13	--	--	--	--
Total nitrogen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.25	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-10	
Sample ID:		MW8-GW-0920	MW08-GW-0321	MW08-GW-0921	MW08-GW-0322	MW08-GW-0922	MW08-GW-0323	MW08-GW-0923	MW08-GW-0324	MW08-GW-0624	MW08-GW-0924	MW08-GW-1124	DP01-GW-1124	MW08-GW-1224	DP01-GW-1224	MW08-GW-0325	MW08-GW-0925	MW-10
Sample Date:		9/15/2020	3/24/2021	9/9/2021	3/22/2022	9/27/2022	3/21/2023	9/6/2023	3/13/2024	6/3/2024	9/17/2024	11/14/2024	11/14/2024 (Duplicate)	12/10/2024	12/10/2024 (Duplicate)	4/1/2025	9/4/2025	12/9/2015
Parameters	Units																	
Appendix III																		
Boron	mg/L	3.14	3.49	0.849	2.21	0.948	1.53	0.965	3.27	--	2.05	2.59	2.58	2.68	2.77	2.27	2.29	2.24
Calcium	mg/L	161	146	178	183	171	165	177	209	--	186	147	146	144	145	177	147	174
Chloride	mg/L	7.99	7.14	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	--	7.60	8.61	9.09	9.11	8.33	6.76	9.45	<5.00
Fluoride	mg/L	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	--	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	3.43
pH, lab	s.u.	7.3 J	7.4 J	7.2 J	7.3 J	7.4 J	7.3 J	7.2 J	7.4 J	--	7.3 J	7.2 J	7.2 J	7.4 J	7.2 J	7.7 J	7.7 J	6.94 J
Sulfate	mg/L	349	352	188	269	158	65.8	210	448	--	186	144	155	133	140	291	211	264
Total dissolved solids (TDS)	mg/L	1100	1060	876	910	924	948	970	1170	--	956	946	970	952	976	1080	978	1130
Appendix IV																		
Antimony	mg/L	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00100
Arsenic	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	0.00349	0.00344	0.00826	0.00217	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00312
Barium	mg/L	0.0791	0.0798	0.0620	0.0693	0.0836	0.0715	0.126	0.0934 J+	--	0.0965	0.0868	0.0879	0.0887	0.0900	0.0856	0.0947	0.179
Beryllium	mg/L	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	<0.000100	0.000153	<0.000100	0.000357	<0.000100	0.000290	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.000209	<0.000200	<0.000500
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	0.00395	0.00218	0.00235	0.00312	0.00224	0.00195	0.00227	0.00109	--	0.00154	0.000926	0.000938	0.000548	0.000556	0.00147	0.00204	0.00394
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	0.000588	<0.000500	<0.000500	--	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.0720	0.0905	0.119	0.130	0.123	0.120	0.109	0.137	--	0.117	0.0784	0.0784	0.0710	0.0722	0.120	0.114	0.138
Mercury	mg/L	--	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum	mg/L	0.0311	0.0199	0.0110	0.0127	0.00642	0.00986	0.00514	0.00695	--	0.0153	0.0218	0.0220	0.0253	0.0251	0.0104	0.0115	0.00346
Radium-226 & 228	pCi/L	0.932	0.633	1.03	<0.000354	1.75	1.04	1.50	0.597	--	0.297	0.464	0.953	1.05	0.750	0.983	0.963	0.627
Selenium	mg/L	<0.00500	<0.00500	<0.00500	0.00548	<0.00500	<0.00500	<0.00500	0.145	0.0809	0.0134	0.0202	0.0203	0.0110	0.0112	<0.00500	<0.00500	<0.00500
Thallium	mg/L	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Other																		
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.00200
Iron	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.0
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	73.4
Manganese	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.01
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.94
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	125
Radium-226	pCi/L	0.262	0.199	0.294	<-0.00239	<0.0753	<0.154	<0.115	<0.150	--	0.0986	0.0770	0.120	0.142	0.152	0.0893	0.108	0.260
Radium-228	pCi/L	0.670	<0.434	0.740	<0.00274	1.68	0.890	1.39	<0.447	--	0.198	0.387	0.833	0.904	0.598	0.894	0.855	0.367
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.00 J
Nitrite (as N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total nitrogen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	
Sample ID:	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	DP-01	MW-10	DP-01	MW-10	DP-01	MW-10	MW-10	MW-10	MW10-GW-0919	MW10-GW-1219	MW-10-GW-0320	
Sample Date:	2/29/2016	6/6/2016	9/19/2016	12/19/2016	2/21/2017	4/24/2017	7/5/2017	9/11/2017	1/30/2018	4/18/2018	8/21/2018	8/21/2018 (Duplicate)	9/4/2018	9/4/2018 (Duplicate)	9/18/2018	9/18/2018 (Duplicate)	12/4/2018	3/18/2019	4/16/2019	9/11/2019	12/12/2019	3/3/2020	
Parameters	Units																						
Appendix III																							
Boron	mg/L	2.13	1.64	0.953	0.938	0.585	0.515	0.271	0.336	--	0.530	2.15	2.18	0.469	0.456	2.53	2.40	0.759	0.361	0.334	0.633	--	0.553
Calcium	mg/L	174	181	162	146	146	152	154	152	--	159	148	153	146	144	153	159	172	155	--	140	--	142
Chloride	mg/L	<5.00	5.02	5.59	24.8	11.3	7.81	<5.00	5.77	--	7.15 J	3.23	3.23	2.59	2.67	3.36	3.39	2.94	6.92	--	<5.00	<5.00	<5.00
Fluoride	mg/L	<0.500	<0.500	<0.500	6.47	2.95	<0.500	<0.500	<0.500	--	<0.500	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.381	1.99	<0.500	<0.500	--	<0.500
pH, lab	s.u.	7.02 J	6.92 J	7.3 J	7.2 J	7.2 J	7.3 J	7.3 J	7.5 J	7.1 J	7.3 J	7.2 J	7.4 J	7.4 J	7.1 J	7.0 J	7.1 J	7.4 J	--	7.3 J	--	--	7.4 J
Sulfate	mg/L	250	189	98.2	36.8	14.3	55.4	134	64.1	--	128 J	267	246	163	169	175	179	206	171	125	136	--	131
Total dissolved solids (TDS)	mg/L	1080	988 J	948	948	836	1150	1050	1040	--	832	1000	1060	882	880	1100	1000	990	922	864	894	--	864
Appendix IV																							
Antimony	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	--	<0.00100	--	--	--	--	--	--	--	<0.00100	--	<0.00100	--	<0.00100
Arsenic	mg/L	0.00551	<0.00200	0.00489	0.00938	0.0165	0.0192	0.0136	--	--	0.0251	0.00388	0.00359	0.0108	0.0106	0.00276	0.00240	0.00235	0.0302 J	0.0302	0.0121	0.0291	0.0531
Barium	mg/L	0.208	0.111	0.255	0.276	0.399	0.569	0.618	--	--	0.416	0.138	0.138	0.316	0.311	0.0780	0.0819	0.153	0.486	0.442	0.325	--	0.463
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	--	<0.00100	--	--	--	--	--	--	--	<0.00100	--	<0.00100	--	<0.00100
Cadmium	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	--	<0.000500	--	--	--	--	--	--	--	<0.000500	--	<0.000100	--	<0.000100
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	--	<0.00500	--	<0.00500
Cobalt	mg/L	0.00311	0.000854	0.00262	0.00197	0.00198	0.00191	0.00138	--	--	0.00194	0.000592	0.000630	0.00136	0.00135	<0.000500	<0.000500	0.00123	0.00128	--	0.00101	--	0.000876
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	--	<0.000500	--	--	--	--	--	--	--	<0.000500	--	<0.000500	--	<0.000500
Lithium	mg/L	0.126	0.117	0.0958	0.0874	0.0619	0.0653	0.0533	--	--	0.0753	0.0947	0.0954	0.0647	0.0642	0.106	0.102	0.0895	0.0746	--	0.0767	--	0.0766
Mercury	mg/L	<0.000200	<0.000200	<0.000200 J	<0.000200	<0.000200	<0.000200	<0.000200	--	--	<0.000200	--	--	--	--	--	--	--	<0.000200	--	<0.000200	--	<0.000200
Molybdenum	mg/L	0.00248	0.00239	0.00292	0.00267	0.00329	0.00296	0.00309	--	--	0.00269	<0.00200	<0.00200	0.00333	0.00310	0.00241	0.00253	0.00265	0.00345	0.00333	0.00314	--	0.00326
Radium-226 & 228	pCi/L	0.701	<0.417	0.530	1.06	0.731	0.740	0.902	--	--	0.776	0.830	0.608	--	--	--	--	--	0.694	--	<0.313	--	<0.385
Selenium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	--	<0.00500	0.0152	0.0167	<0.00500	<0.00500	0.0318	0.0326	<0.00500	<0.00500	--	<0.00500	--	<0.00500
Thallium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	--	<0.00100	--	--	--	--	--	--	--	<0.00100	--	<0.00100	--	<0.00100
Other																							
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0114	0.0250	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	--	--	--	--	--	--	--	--	--	--	--	--
Iron	mg/L	18.2	0.301	13.4	--	17.6	19.3	15.2	19.6	--	--	0.436	0.316	4.39	4.36	0.609	0.617	1.00	--	--	6.08	11.9	--
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.73	11.0	--
Magnesium	mg/L	64.0	63.2	59.1	51.9	61.2	65.2	70.8	68.4	--	65.4	56.8	58.4	62.8	61.7	56.9	60.1	65.9	--	--	--	--	--
Manganese	mg/L	1.17	0.389	1.02	0.930	0.903	0.894	0.831	0.852	--	0.892	0.149	0.142	0.597	0.588	0.0761	0.0797	0.582	--	--	--	--	--
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	8.16	7.57	7.86	7.56	7.53	7.80	7.58	--	--	7.82	7.34	7.14	7.59	7.32	7.40	7.60	7.77	--	--	--	--	--
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	134	120	120	97.8	102	99.5	89.9	93.0	--	105	116	117	96.9	93.9	145	152	108	--	--	--	--	--
Radium-226	pCi/L	0.215	0.170	0.252	0.445	0.252	0.261	0.285	--	--	0.349	0.325	0.188	--	--	--	--	--	0.146 J	--	0.233	--	0.265
Radium-228	pCi/L	0.486	<0.417	<0.355	0.613 J	0.479	0.479	0.617	--	--	0.427	0.505	<0.420	--	--	--	--	--	0.548	--	<0.0793	--	<0.121
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	718	--	--
Ammonia-N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.587	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	<0.500 J	<0.500 J	<0.500 J	<0.500 J	0.563 J	<0.500 H	<0.500 J	<0.500 J	--	0.973 J	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	--	--	--	--	--
Nitrite (as N)	mg/L	<0.500 J	<0.500 J	--	--	--	--	--	--	--	--	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	--	--	--	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	--	--	--	--	<1.00	<1.00	1.42	1.37	<1.00	<1.00	1.05	--	--	--	--	--
Total nitrogen	mg/L	--	--	--	--	--	--	--	--	--	--	<1.00	<1.00	1.42	1.37	<1.00	<1.00	1.05	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--												

Appendix D

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-11	MW-11
Sample ID:		DP-02-GW-0320	MW10-GW-0720	MW10-GW-0920	MW10-GW-1020	MW-10-GW-1120	MW10-GW-0621	MW10-GW-0921	MW10-GW-0322	MW10-GW-0922	MW10-GW-0323	MW10-GW-0923	MW10-GW-0324	MW10-GW-0924	MW10-GW-0325	MW10-GW-0925	MW-11	DP-01
Sample Date:		3/3/2020	7/28/2020	9/15/2020	10/21/2020	11/17/2020	6/29/2021	9/8/2021	3/22/2022	9/28/2022	3/21/2023	9/6/2023	3/13/2024	9/17/2024	3/31/2025	9/3/2025	12/9/2015	12/9/2015
		(Duplicate)																(Duplicate)
Parameters	Units																	
Appendix III																		
Boron	mg/L	0.505	--	0.611	--	--	--	0.365	0.456	0.330	0.299	0.391	0.545	0.486	0.435	0.443	0.697	0.722
Calcium	mg/L	144	150	166	133	122	177	152	138	126	133	116	164	160	111	113	225	222
Chloride	mg/L	<5.00	--	6.00	--	--	--	<5.00	<5.00	5.93	7.48	7.33	7.09	9.45	9.56	8.59	12.9	14.5
Fluoride	mg/L	<0.500	--	<0.500	--	--	--	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500
pH, lab	s.u.	7.2 J	--	7.3 J	--	--	--	7.3 J	7.3 J	7.3 J	7.3 J	7.8 J	7.6 J	7.2 J	7.9 J	7.8 J	6.93 J	7.00 J
Sulfate	mg/L	122	104	149	90.7	95.5	218	119	103	40.0	159	79.6	137	101	42.3	47.4	303	301
Total dissolved solids (TDS)	mg/L	868	--	984	--	--	--	790	698	676	752	672	818	748	660	650	1180	1170
Appendix IV																		
Antimony	mg/L	<0.00100	--	--	--	--	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00100	<0.00100
Arsenic	mg/L	0.0533	0.0654	0.0622	0.0617	0.0594	0.0495	0.0337	0.0344	0.0294	0.0318	0.0248	0.0467	0.0446	0.0355	0.0393	<0.00200	<0.00200
Barium	mg/L	0.472	--	0.505	--	--	--	0.361	0.345	0.265	0.332	0.300	0.463 J+	0.343	0.301	0.373	0.0853	0.0864
Beryllium	mg/L	<0.00100	--	--	--	--	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	<0.000100	--	<0.000100	--	--	--	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000200	<0.000200	<0.000200	<0.000200	<0.000500	<0.000500
Chromium	mg/L	<0.00500	--	<0.00500	--	--	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	0.000870	--	0.000834	--	--	--	0.000624	0.000559	<0.000500	0.000687	<0.000500	0.00115	0.00133	0.00132	0.00115	0.00238	0.00240
Lead	mg/L	<0.000500	--	<0.000500	--	--	--	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.0801	--	0.0883	--	--	--	0.0823	0.0902	0.0852	0.0636	0.0957	0.109	0.0904	0.0680	0.0809	0.132	0.120
Mercury	mg/L	<0.000200	--	--	--	--	--	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum	mg/L	0.00322	--	0.00322	--	--	--	0.00204	0.00242	0.00281	0.00254	0.00347	0.00335	0.00443	0.00442	0.00422	<0.00200	<0.00200
Radium-226 & 228	pCi/L	0.628	--	2.17	--	--	--	0.981	1.06	2.71	1.01	1.08	0.970	1.09	0.568	1.04	<0.840	<0.844
Selenium	mg/L	<0.00500	--	<0.00500	--	--	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	mg/L	<0.00100	--	--	--	--	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Other																		
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.00200	<0.00200
Iron	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.300	<0.300
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	61.6	62.4
Manganese	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.90	2.90
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.20	9.30
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	68.8	69.5
Radium-226	pCi/L	0.301	--	1.27	--	--	--	0.308	0.262	0.267	0.393	0.313	0.379	0.192	0.266	0.353	<0.208	<0.164
Radium-228	pCi/L	<0.328	--	0.906	--	--	--	0.673	0.799	2.44	<0.621	0.764	0.591	0.900	0.302	0.687	<0.840	<0.844
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.00 J	<2.00 J
Nitrite (as N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total nitrogen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	
Sample ID:	MW-11	DP-01	MW-11	DP-01	MW-11	DP-01	MW-11	DP-01	MW-11	DP-01	MW-11	DP-01	MW-11	DP-01	MW-11	DP-01	MW-11	DP-01	MW-11	DP-01	MW-11	DP-01	MW-11	
Sample Date:	3/1/2016	3/1/2016	6/6/2016	6/6/2016	9/20/2016	9/20/2016	12/19/2016	12/19/2016	2/20/2017	2/20/2017	4/25/2017	4/25/2017	7/5/2017	7/5/2017	9/11/2017	9/11/2017	4/18/2018	4/18/2018	8/21/2018	3/18/2019	3/18/2019	4/16/2019	4/16/2019	
		(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)		
Parameters	Units																							
Appendix III																								
Boron	mg/L	0.322	0.368	0.221 J	0.688 J	0.602	0.583	0.524	0.504	0.268	0.328	0.238	0.258	0.243	0.241	0.431	0.477	0.441	0.470	0.492	0.455	0.368	0.287	0.275
Calcium	mg/L	243	237	238	255	279	272	264	237	243	240	239	251	225	218	252	246	255	253	233	210	226	251	249
Chloride	mg/L	7.24	6.37	37.5	40.6	16.8	17.8	<20.0	19.1	7.39 J	21.0 J	11.2	12.1	6.10	5.91	8.91	8.54	5.85 J	<5.00	16.0	17.2	16.0	--	--
Fluoride	mg/L	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<2.00	<0.500	1.20 J	8.89 J	2.11 J	3.30 J	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.100	0.501	<0.500	<0.500	<0.500
pH, lab	s.u.	7.02 J	7.02 J	6.88 J	6.71 J	7.1 J	7.3 J	7.3 J	7.0 J	7.1 J	7.3 J	7.0 J	7.0 J	7.0 J	7.1 J	6.9 J	7.0 J	7.2 J	7.1 J	7.1 J	7.0 J	6.9 J	--	--
Sulfate	mg/L	315	323	240	249	352	349	309	326	340	339	321	330	339	354	368	370	427 J	435 J	450	406	410	391	383
Total dissolved solids (TDS)	mg/L	1140	1190	1070 J	1100 J	1300	1260	1200	1190	1210	1180	1470	1300	1210	1280	1350	1310	1190	1300	1340	1190	1210	1240	1220
Appendix IV																								
Antimony	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	--	<0.00100	<0.00100	--	<0.00100	<0.00100	--	--
Arsenic	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	--
Barium	mg/L	0.0651	0.0757	0.121	0.0752	0.0827	0.0795	0.0835	0.0767	0.0703	0.0695	0.0808	0.0824	0.0717	0.0694	--	--	0.0813	0.0825	0.0624	0.0546	0.0586	--	--
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	--	<0.00100	<0.00100	--	<0.00100	<0.00100	--	--
Cadmium	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	--	<0.000500	<0.000500	--	<0.000500	<0.000500	--	--
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	--
Cobalt	mg/L	0.00153	0.00182	<0.000500	0.000792	0.00155	0.00163	0.00212	0.00204	0.00282	0.00271	0.00279	0.00293	0.00331	0.00321	--	--	0.00323	0.00322	0.00251	0.00137	0.00171	--	--
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	--	<0.000500	<0.000500	--	<0.000500	<0.000500	--	--
Lithium	mg/L	0.119	0.122	0.135	0.107	0.136	0.131	0.127	0.132	0.119	0.122	0.111	0.111	0.120	0.121	--	--	0.129	0.128	0.109	0.132	0.129	--	--
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200 J	<0.000200 J	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	--	--	<0.000200	<0.000200	--	<0.000200	<0.000200	--	--
Molybdenum	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	--
Radium-226 & 228	pCi/L	<0.433	<0.382	<0.418	<0.421	<0.463	<0.400	0.659	<0.217	<0.0642	<0.0507	<0.0680	<0.120	0.330	0.576	--	--	<0.401	0.595	<0.296	0.436	<-0.0335	--	--
Selenium	mg/L	<0.00500	<0.00500	0.0580 J	0.00609 J	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	--
Thallium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	--	<0.00100	<0.00100	--	<0.00100	<0.00100	--	--
Other																								
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	--	--	--	--
Iron	mg/L	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.994 J	<0.100 J	<0.100	--	<0.100	--	--	--	--
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	58.2	69.0	62.7	59.4	61.8	59.0	56.0	50.0	61.1	59.3	59.6	63.3	56.3	55.4	66.7	65.5	68.6	68.1	61.2	--	--	--	--
Manganese	mg/L	2.99	3.51	<0.0100	1.23	3.87	3.78	3.78	3.42	4.31	4.27	4.66	5.02	4.38	4.29	4.13	4.03	5.47	5.48	4.09	--	--	--	--
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	9.11	10.9	6.63	8.26	9.72	9.22	10.2	9.12	8.46	8.30	8.18	8.57	7.91	7.78	--	--	9.98	10.1	8.29	--	--	--	--
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	64.5																						

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-12	MW-12	MW-12	MW-12	MW-12
Sample ID:		MW11-GW-0919	MW-11-GW-0320	MW11-GW-0920	MW11-GW-0321	MW11-GW-0921	MW11-GW-0322	MW11-GW-0922	MW11-GW-0323	MW11-GW-0923	MW11-GW-0324	MW11-GW-0924	MW11-GW-0325	MW11-GW-0925	MW-12	MW-12	MW-12	MW-12	MW-12
Sample Date:		9/10/2019	3/4/2020	9/15/2020	3/23/2021	9/8/2021	3/22/2022	9/28/2022	3/22/2023	9/7/2023	3/13/2024	9/17/2024	4/1/2025	9/3/2025	12/9/2015	3/1/2016	6/6/2016	9/19/2016	12/19/2016
Parameters		Units																	
Appendix III																			
Boron	mg/L	0.797	1.28	0.585	0.479	0.707	0.893	0.366	0.269	0.310	0.367	0.505	0.340	0.303	3.86	5.14	4.78	4.81	5.25
Calcium	mg/L	265	264	251	256	283	225	243	184	206	206	265	206	202	199	235	287	225	209
Chloride	mg/L	122	149	11.0	9.32	9.30	12.9	11.3	13.1	12.6	17.1	136	17.8	23.1	143	149	303	86.3	152
Fluoride	mg/L	<0.500	<0.500	<0.500	0.516	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<0.500	<0.500	21.0
pH, lab	s.u.	7.0 J	7.2 J	7.6 J	7.0 J	7.1 J	7.0 J	7.0 J	7.1 J	7.5 J	7.1 J	7.0 J	7.5 J	7.0 J	7.05 J	7.09 J	7.03 J	7.2 J	7.1 J
Sulfate	mg/L	321	312	397	438	483	417	395	356	387	353	322	437	420	457	511	524	526	563
Total dissolved solids (TDS)	mg/L	1340	1340	1280	1170	1220	1190	1170	990	1110	1000	1140	1170	1150	1460	1730	1590 J	1440	1800
Appendix IV																			
Antimony	mg/L	<0.00100	<0.00100	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Arsenic	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Barium	mg/L	0.106	0.0989	0.0551	0.0668	0.0643	0.0668	0.0661	0.0378	0.0492	0.0466 J+	0.0442	0.0361	0.0305	0.0838	0.0577	0.116	0.0509	0.0472
Beryllium	mg/L	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	<0.000100	<0.000100	0.000161	0.000157	0.000186	0.000137	0.000115	0.000120	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0340	<0.00500	<0.00500
Cobalt	mg/L	0.000588	<0.000500	0.00253	0.00381	0.00384	0.00472	0.00590	0.00533	0.00705	0.00606	0.00446	0.00692	0.00547	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.0987	0.0912	0.120	0.136	0.134	0.133	0.136	0.0983	0.135	0.114	0.109	0.0935	0.0930	0.136	0.109	0.108	0.0871	0.0893
Mercury	mg/L	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200 J	<0.000200
Molybdenum	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00234	<0.00200	<0.00200
Radium-226 & 228	pCi/L	<0.383	<0.0279	0.379	<0.0733	<0.240	<0.466	0.694	<-0.214	1.09	<0.195	0.741	0.329	0.962	<0.744	0.536	0.448	0.744	<0.161
Selenium	mg/L	0.0213	0.0100	<0.00500	<0.00500	<0.00500	0.00757	<0.00500	<0.00500	<0.00500	<0.00500	0.00976	<0.00500	<0.00500	0.0582	0.0674	0.0522	0.0766	0.0728
Thallium	mg/L	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Other																			
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.00200	<0.00500	<0.00500	<0.00500	<0.00500
Iron	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.100	<0.100	0.169	<0.100	<1.00
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	69.4	62.4	78.2	56.5	52.0
Manganese	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	0.220	0.327	0.0297	0.102	0.147
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	9.10	8.68	9.03	7.89	7.78
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	158	184	168	162	170
Radium-226	pCi/L	<0.0364	<0.0503	0.290	<0.00222	<-0.0801	<0.00523	<0.0470	<-0.0207	<0.0203	<0.0117	0.0524	0.0625	0.255	<0.131	<0.0664	0.136	<0.103	<0.0605
Radium-228	pCi/L	<0.346	<-0.0224	<0.0884	<0.0710	<0.320	<0.461	0.647	<-0.193	1.07	<0.184	0.689	0.266	0.708	<0.744	0.494	<0.344	0.685	<0.101
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	15.1 J	13.2 J	20.8 J	9.37 J	10.6 J
Nitrite (as N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.500 J	<0.500 J	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total nitrogen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	
Sample ID:	MW-12	MW-12	MW-12	MW-12	MW-12	DP-01	MW-12	MW-12	MW-12	MW-12	MW12-GW-0919	MW-12-GW-0320	MW12-GW-0920	MW12-GW-0321	MW12-GW-0921	MW12-GW-0322	MW12-GW-0622	MW12-GW-0922	MW12-GW-1222	MW12-GW-0323	
Sample Date:	2/20/2017	4/25/2017	7/5/2017	9/11/2017	1/30/2018	1/30/2018	4/18/2018	8/21/2018	3/18/2019	4/16/2019	9/10/2019	3/4/2020	9/15/2020	3/23/2021	9/8/2021	3/23/2022	6/2/2022	9/27/2022	12/2/2022	3/22/2023	
Parameters	(Duplicate)																				
Units																					
Appendix III																					
Boron	mg/L	5.39	5.12	1.94	4.34	--	--	2.40	1.42	4.28	1.69	1.23	2.85	3.52	4.11	3.67	3.48	--	0.938	--	1.47
Calcium	mg/L	199	193	186	233	--	--	208	165	184	--	197	217	223	208	233	243	--	256	--	260
Chloride	mg/L	42.1	29.2	10.2	180	264	249	18.8 J	44.3	118	--	27.2	248	333	331	216	301	--	9.29	--	48.6
Fluoride	mg/L	1.78	1.85	<0.500	<0.500	--	--	<0.500	<0.100	<0.500	--	<0.500	<0.500	<0.500	0.579	<0.500	<0.500	--	<0.500	--	<0.500
pH, lab	s.u.	7.1 J	7.0 J	7.1 J	7.1 J	--	--	7.1 J	7.2 J	7.1 J	--	7.2 J	7.4 J	7.5 J	7.2 J	7.4 J	7.5 J	--	7.2 J	--	7.3 J
Sulfate	mg/L	585	626	446	508	--	--	514 J	288	504	409	357	274	245	273	433	341	--	481	--	609
Total dissolved solids (TDS)	mg/L	1600	1960	1360	1990	--	--	1220	1040	1340	1170	1110	1350	1390	1300	1230	1420	1210	1160	--	1390
Appendix IV																					
Antimony	mg/L	<0.00100	<0.00100	<0.00100	--	--	--	<0.00100	--	<0.00100	--	<0.00100	<0.00100	--	<0.00200	<0.00200	<0.00800	--	<0.00200	--	<0.00200
Arsenic	mg/L	<0.00200	<0.00200	<0.00200	--	--	--	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00800	--	<0.00200	--	<0.00200
Barium	mg/L	0.0440	0.0472	0.0454	--	--	--	0.0631	0.0654	0.0566	--	0.0693	0.0655	0.0706	0.0787	0.0691	0.155	0.195	0.0579	--	0.0510
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	--	--	--	<0.00100	--	<0.00100	--	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00400	--	<0.00100	--	<0.00100
Cadmium	mg/L	<0.000500	<0.000500	<0.000500	--	--	--	<0.000500	--	<0.000500	--	0.000267	0.000103	0.000451	0.000174	0.000383	0.00285	0.00278	0.000127	--	0.000250
Chromium	mg/L	<0.00500	<0.00500	<0.00500	--	--	--	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0200	--	<0.00500	--	<0.00500
Cobalt	mg/L	<0.000500	0.000567	0.00182	--	--	--	<0.000500	0.00147	<0.000500	--	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	0.00860	0.0114	0.00107	--	<0.000500
Lead	mg/L	<0.000500	<0.000500	<0.000500	--	--	--	<0.000500	--	<0.000500	--	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	0.00607	0.00406	<0.000500	--	<0.000500
Lithium	mg/L	0.0727	0.0814	0.102	--	--	--	0.101	0.0957	0.111	--	0.110	0.100	0.0986	0.0951	0.0970	0.118	--	0.131	--	0.154
Mercury	mg/L	<0.000200	<0.000200	<0.000200	--	--	--	<0.000200	--	<0.000200	--	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	--	<0.000200	--	<0.000200
Molybdenum	mg/L	<0.00200	<0.00200	<0.00200	--	--	--	0.00477	0.00382	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00800	--	<0.00200	--	<0.00200
Radium-226 & 228	pCi/L	<0.301	<0.288	<0.300	--	--	--	<0.297	0.810	<0.105	--	<0.351	<0.229	0.649	<0.114	<0.393	1.28	1.42	--	<0.446	<0.189
Selenium	mg/L	0.0701	0.0327	<0.00500	--	--	--	0.00790	<0.00500	0.0202	--	<0.00500	0.0242	0.0285	0.0280	<0.00500	1.01	1.14	0.00625	--	1.17
Thallium	mg/L	<0.00100	<0.00100	<0.00100	--	--	--	<0.00100	--	<0.00100	--	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00400	--	<0.00100	--	<0.00100
Other																					
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0500	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	<0.00500	<0.0500	<0.00500	<0.00500	--	--	<0.00500	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	mg/L	<0.100	0.103	<0.100	<0.100	--	--	<0.100	0.853	--	--	--	--	--	--	--	--	--	0.136	--	--
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	54.9	54.2	54.6	70.3	--	--	58.7	50.7	--	--	--	--	--	--	--	--	--	68.6	--	--
Manganese	mg/L	0.490	0.904	3.24	0.271	--	--	0.390	2.01	--	--	--	--	--	--	--	--	--	2.89	--	--
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.57	--	--
Potassium	mg/L	8.13	9.96	8.88	--	--	--	9.49	7.42	--	--	--	--	--	--	--	--	--	8.49	--	--
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	189	213	125	175	--	--	148	77.6	--	--	--	--	--	--	--	--	--	85.5	--	--
Radium-226	pCi/L	0.0939	<0.0404	<0.0722	--	--	--	<0.0405	0.404	<0.0219 J	--	<0.0637	<0.0985	0.366	<0.139	<0.187	<0.595	0.227	--	<0.0114	<0.0269
Radium-228	pCi/L	<0.207	<0.247	<0.228	--	--	--	<0.257	<0.406	<0.0836	--	<0.287	<0.131	<0.283	<-0.0251	<0.205	<0.687	1.20	--	<0.435	<0.162
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	487	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	487	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<10.0	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	922	--	--
Nitrate (as N)	mg/L	6.20 J	3.14 J	<0.500 J	10.1 J	--	--	0.700 J	1.50 J	--	--	--	--	--	--	--	--	--	<0.100	--	--
Nitrite (as N)	mg/L	--	--	--	--	--	--	--	<0.100	--	--	--	--	--	--	--	--	--	--	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.3	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.75	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--
Total nitrogen	mg/L	--	--	--	--	--	--	--	1.50	--	--	--	--	--	--	--	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.88	--	--

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	
Sample ID:		MW12-GW-0623	DP01-GW-0623	MW12-GW-0923	MW12-GW-0324	MW12-GW-0624	DP02-GW-0624	MW12-GW-0924	MW12-GW-0325	MW12-GW-0925	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	
Sample Date:		6/5/2023	6/5/2023	9/6/2023	3/12/2024	6/3/2024	6/3/2024	9/17/2024	4/1/2025	9/3/2025	12/9/2015	3/1/2016	6/6/2016	9/19/2016	12/19/2016	2/20/2017	4/25/2017	7/5/2017	9/11/2017	4/18/2018	8/21/2018
		(Duplicate)					(Duplicate)														
Parameters	Units																				
Appendix III																					
Boron	mg/L	--	--	0.901	1.13	--	--	1.44	1.23	1.24	0.694	0.726	<0.200	1.60	1.33	1.21	0.747	1.26	1.19	1.29	1.37
Calcium	mg/L	--	--	228	261	--	--	263	255	210	230	258	194	262	239	264	230	245	286	284	175
Chloride	mg/L	--	--	8.56	38.5	--	--	76.2	72.7	89.2	6.18	<5.00	13.1	15.7	54.9	18.1	17.6	17.5	21.3	12.3 J	9.24
Fluoride	mg/L	--	--	<1.00	<1.00	--	--	<1.00	<1.00	<1.00	<0.500	<0.500	0.775	<0.500	8.21	0.848	1.89	<0.500	<0.500	<0.500	<0.100
pH, lab	s.u.	--	--	7.6 J	7.3 J	--	--	7.0 J	7.6 J	7.6 J	6.90 J	6.98 J	6.91 J	7.1 J	7.1 J	7.0 J	6.9 J	<0.500	6.9 J	6.9 J	7.2 J
Sulfate	mg/L	--	--	534	594	--	--	406	564	438	352	364	484	344	324	451	461	524	485	536 J	543
Total dissolved solids (TDS)	mg/L	--	--	1280	1320	--	--	1230	1460	1270	1220	1280	1500 J	1270	1140	1330	1210	1590	1770	1250	1410
Appendix IV																					
Antimony	mg/L	--	--	<0.00200	<0.00200	--	--	<0.00200	<0.00200	<0.00200	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	--
Arsenic	mg/L	--	--	<0.00200	<0.00200	--	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00388	0.00223	0.00339	0.00360	--	<0.00200	<0.00200
Barium	mg/L	--	--	0.0440	0.0499 J+	--	--	0.0596	0.0537	0.0417	0.0530	0.0439	0.161	0.0418	0.0571	0.0477	0.0808	0.0768	--	0.0517	0.0458
Beryllium	mg/L	--	--	<0.00100	<0.00100	--	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	--
Cadmium	mg/L	--	--	<0.000200	<0.000200	--	--	<0.000200	<0.000200	<0.000200	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500	--
Chromium	mg/L	--	--	<0.00500	<0.00500	--	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500
Cobalt	mg/L	--	--	0.000581	<0.000500	--	--	<0.000500	<0.000500	<0.000500	0.000796	0.00139	<0.000500	0.00103	0.00105	0.00187	0.00624	0.00116	--	0.00304	0.00185
Lead	mg/L	--	--	<0.000500	<0.000500	--	--	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500	--
Lithium	mg/L	--	--	0.140	0.152	0.144	0.141	0.133	0.141	0.124	0.122	0.116	0.102	0.121	0.110	0.120	0.0830	0.105	--	0.120	0.0745
Mercury	mg/L	--	--	<0.000200	<0.000200	--	--	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200 J	<0.000200	<0.000200	<0.000200	--	<0.000200	--
Molybdenum	mg/L	--	--	<0.00200	<0.00200	--	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00208	<0.00200	<0.00200	<0.00200	0.00296	0.00235	--	<0.00200	0.00205
Radium-226 & 228	pCi/L	--	--	0.532	<0.00416	--	--	1.01	0.346	0.888	1.25	0.493	0.486	<0.479	<0.370	<0.0861	0.389	0.579	--	0.737	0.653
Selenium	mg/L	0.00816	0.0107	0.00825	0.293	0.00672	0.00617	0.193	0.0739	0.0593	0.0405	0.0624	0.0831	0.0258	0.00616	0.0196	<0.00500	<0.00500	--	0.0205	<0.00500
Thallium	mg/L	--	--	<0.00100 J	<0.00100	--	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	--
Other																					
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	--	--	--	--	--	--	--	--	--	<0.00200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--
Iron	mg/L	--	--	--	--	--	--	--	--	--	<0.300	0.516	<0.100	2.03	--	2.66	10.0	8.22	0.283	--	3.10
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	--	--	--	--	--	--	--	--	--	76.3	70.9	48.1	66.6	61.1	75.2	66.8	67.1	87.0	78.6	47.6
Manganese	mg/L	--	--	--	--	--	--	--	--	--	0.801	1.04	<0.0100	1.40	1.25	1.83	2.27	1.70	0.667	2.55	1.35
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	--	--	--	--	--	--	--	--	--	11.2	10.2	6.40	10.3	9.93	10.2	10.3	10.1	--	11.7	10.3
Selenium (dissolved)	mg/L	0.00889	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	--	--	--	--	--	--	--	--	--	82.4	72.7	47.4	64.4	57.8	64.7	78.0	100	86.0	82.3	129
Radium-226	pCi/L	--	--	<0.0597	<-0.0587	--	--	0.0562	-0.0537	0.285	<0.205	<0.0626	0.167	<0.137	<0.107	0.104	0.138	0.157	--	0.0752	0.302
Radium-228	pCi/L	--	--	<0.472	<0.0629	--	--	0.956	0.400	0.603	1.22	0.435	<0.400	<0.479	<0.263	<-0.0180	<0.251	0.422	--	0.661	<0.351
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	--	--	--	--	--	--	--	--	--	7.02 J	11.6 J	16.0 J	1.11 J	2.20 J	2.81 J	0.710 J	<0.500 J	15.9 J	4.27 J	0.125 J
Nitrite (as N)	mg/L	--	--	--	--	--	--	--	--	--	--	<0.500 J	<0.500 J	--	--	--	--	--	--	--	<0.100
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.00
Total nitrogen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.00
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix D

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-14	
Sample ID:		MW-13	MW-13	MW-13	MW-13	MW13-GW-0919	MW-13-GW-0320	MW13-GW-0920	MW13-GW-0321	MW13-GW-0921	MW13-GW-0322	MW13-GW-0922	MW13-GW-0323	MW13-GW-0923	MW13-GW-0324	MW13-GW-0924	MW13-GW-0325	MW13-GW-0925	MW-14
Sample Date:		9/4/2018	9/18/2018	3/18/2019	4/16/2019	9/10/2019	3/4/2020	9/15/2020	3/23/2021	9/8/2021	3/22/2022	9/28/2022	3/22/2023	9/6/2023	3/12/2024	9/17/2024	4/1/2025	9/3/2025	12/9/2015
Parameters	Units																		
Appendix III																			
Boron	mg/L	1.30	1.32	1.30	2.01	1.15	1.00	1.58	2.43	1.91	1.64	1.72	1.50	1.96	1.80	1.31	1.51	1.48	1.19
Calcium	mg/L	257	227	267	173	203	290	231	271	205	182	171	165	178	244	283	214	181	263
Chloride	mg/L	10.9	9.33	16.0	--	9.29	18.4	48.6	52.5	22.9	10.7	10.1	11.1	11.3	11.5	11.0	12.3	9.15	6.40
Fluoride	mg/L	<0.100	<0.100	<0.500	--	<0.500	<0.500	<0.500	0.679	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500
pH, lab	s.u.	7.2 J	7.6 J	7.0 J	--	7.2 J	7.3 J	7.6 J	7.7 J	7.2 J	7.6 J	7.2 J	7.2 J	7.6 J	7.4 J	6.9 J	7.7 J	7.7 J	6.80 J
Sulfate	mg/L	464	469	618	535	495	597	469	546	472	398	443	459	437	558	473	469	382	386
Total dissolved solids (TDS)	mg/L	1320	1390	1380	1200	1200	1640	1450	1360	1070	1000	1230	1160	1220	1310	1300	1270	1120	1370
Appendix IV																			
Antimony	mg/L	--	--	<0.00100	--	<0.00100	<0.00100	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00100
Arsenic	mg/L	<0.00200	<0.00200	0.00675 J	--	0.00251	<0.00200	0.00238	<0.00200	<0.00200	<0.00200	0.00462	0.00204	0.00550	<0.00200	0.00215	<0.00200	<0.00200	<0.00200
Barium	mg/L	0.0480	0.0408	0.0579	--	0.0478	0.0389	0.0368	0.0327	0.0406	0.0369	0.0448	0.0379	0.0443	0.0354 J+	0.0420	0.0310	0.0277	0.133
Beryllium	mg/L	--	--	<0.00100	--	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	--	--	<0.000500	--	<0.000100	<0.000100	<0.000100	0.000101	<0.000100	<0.000100	<0.000100	<0.000100	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000500
Chromium	mg/L	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	0.00245	0.00190	0.00158	--	0.00191	0.000776	0.00323	0.00254	0.00323	0.000974	<0.000500	0.00145	0.000712	0.00112	0.00179	0.000515	0.000780	0.00311
Lead	mg/L	--	--	<0.000500	--	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.109	0.109	0.118	--	0.0937	0.134	0.0997	0.128	0.0894	0.0934	0.0794	0.0726	0.0944	0.112	0.138	0.113	0.0991	0.162
Mercury	mg/L	--	--	<0.000200	--	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum	mg/L	<0.00200	<0.00200	0.00276	--	<0.00200	<0.00200	0.00273	0.00214	0.00222	0.00231	0.00304	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00207
Radium-226 & 228	pCi/L	--	--	<0.00847	--	<0.255	<0.115	0.622	0.486	0.770	0.639	1.59	0.759	0.913	<0.448	1.60	0.431	0.797	1.79
Selenium	mg/L	0.0158	<0.00500	<0.00500	--	<0.00500	0.0326	<0.00500	<0.00500	<0.00500	<0.00500	0.00876	<0.00500	<0.00500	0.00751	0.0760	0.0178	<0.00500	0.0148
Thallium	mg/L	--	--	<0.00100	--	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Other																			
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.00200
Iron	mg/L	0.861	0.503	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.100
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	69.8	62.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	83.2
Manganese	mg/L	1.05	1.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.54
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	11.7	11.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.7
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	101	121	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	116
Radium-226	pCi/L	--	--	0.110 J	--	<0.0311	<-0.00864	<0.0545	<0.0159	0.236	<-0.0345	<0.112	<0.209	<0.0383	<0.593	0.216	0.102	0.233	0.454
Radium-228	pCi/L	--	--	<-0.101	--	<0.224	<0.124	0.568	0.470	0.534	0.674	1.48	0.551	0.874	<-0.145	1.38	0.329	0.564	1.34
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	<0.100	<0.100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.00 J
Nitrite (as N)	mg/L	<0.100	<0.100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	<1.00	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total nitrogen	mg/L	<1.00	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	
Sample ID:	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW14-GW-0919	MW-14-GW-0320	MW14-GW-0920	MW14-GW-0321	MW14-GW-0921	MW14-GW-0322	MW14-GW-0622	MW14-GW-0922
Sample Date:	3/1/2016	6/6/2016	9/20/2016	12/19/2016	2/20/2017	4/25/2017	7/5/2017	9/11/2017	4/18/2018	8/21/2018	3/19/2019	4/16/2019	9/10/2019	3/4/2020	9/15/2020	3/23/2021	9/9/2021	3/21/2022	6/2/2022	9/28/2022	
Parameters	Units																				
Appendix III																					
Boron	mg/L	1.11	0.593	1.47	1.05	0.883	0.343	0.281	1.36	0.322	0.312	0.855	0.531	1.01	2.64	2.41	2.13	0.900	0.729	--	0.319
Calcium	mg/L	256	246	246	301	270	235	198	238	231	198	224	234	200	193	213	214	282	197	--	208
Chloride	mg/L	<5.00	5.66	5.47	<5.00	8.67	23.2	8.21	<5.00	<5.00	4.32	5.77	--	29.6	54.2	32.4	6.28	<5.00	<5.00	--	5.14
Fluoride	mg/L	<0.500	<0.500	<0.500	<0.500	2.17	14.9	3.01	<0.500	<0.500	<0.100	<0.500	--	<0.500	<0.500	<0.500	0.540	<0.500	<0.500	--	<0.500
pH, lab	s.u.	6.91 J	6.87 J	7.0 J	6.9 J	6.9 J	6.9 J	7.0 J	7.0 J	7.8 J	7.0 J	--	7.0 J	7.3 J	7.4 J	7.0 J	7.2 J	7.1 J	7.2 J	--	7.2 J
Sulfate	mg/L	346	311	324	274	428	277	220	357	279 J	278	239	246	218	252	260	324	414	292	--	173
Total dissolved solids (TDS)	mg/L	1280	1160 J	1300	1810	1600	1220	1030	1420	1000	1100	1020	1070	1060	1310	1300	1230	1290	1020	--	938
Appendix IV																					
Antimony	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	--	<0.00100	--	<0.00100	<0.00100	--	<0.00200	<0.00200	<0.00200	--	<0.00200
Arsenic	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200
Barium	mg/L	0.0798	0.0857	0.0656	0.0882	0.0768	0.0695	0.0604	--	0.0646	0.0619	0.0605	--	0.0634	0.0640	0.0655	0.0731	0.0741	0.0619	--	0.0643
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	--	<0.00100	--	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	--	<0.00100
Cadmium	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500	--	<0.000500	--	<0.000100	0.000100	0.000153	<0.000100	0.000213	0.000117	--	0.000137
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500
Cobalt	mg/L	0.00278	0.00237	0.00259	0.00465	0.00494	0.00329	0.00327	--	0.00277	0.00319	0.00174	--	0.000759	0.00155	0.00219	0.000749	0.00194	0.00260	--	0.00360
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500	--	<0.000500	--	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500
Lithium	mg/L	0.143	0.129	0.152	0.133	0.142	0.0959	0.105	--	0.105	0.0814	0.125	--	0.104	0.128	0.130	0.147	0.144	0.153	0.125	0.124
Mercury	mg/L	<0.000200	<0.000200	<0.000200 J	<0.000200	<0.000200	<0.000200	<0.000200	--	<0.000200	--	<0.000200	--	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	--	<0.000200
Molybdenum	mg/L	<0.00200	<0.00200	<0.00200	0.00222	0.00222	0.00209	<0.00200	--	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	0.00224	0.00220	<0.00200	<0.00200	--	<0.00200
Radium-226 & 228	pCi/L	0.597	0.789	0.879	1.05	0.559	0.324	0.557	--	0.445	0.702	0.616	--	<0.311	0.679	1.18	<0.218	0.910	1.26	--	1.22
Selenium	mg/L	0.0216	0.0146	0.0289	0.0126	0.00695	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	--	0.0102	0.0176	0.0165	<0.00500	<0.00500	<0.00500	--	<0.00500
Thallium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	--	<0.00100	--	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	--	<0.00100
Other																					
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	--	--	--	--	--	--	--	--	--	--
Iron	mg/L	<0.100	<0.100	<0.100	<0.100	0.159	<0.100	<0.100	<0.100	<0.100	<0.100	--	--	--	--	--	--	--	--	--	--
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	65.1	61.6	57.0	65.7	73.5	68.0	59.6	70.1	68.1	56.7	--	--	--	--	--	--	--	--	--	--
Manganese	mg/L	1.47	1.72	1.09	2.19	2.30	2.03	1.90	1.88	2.21	2.45	--	--	--	--	--	--	--	--	--	--
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	11.3	9.04	11.4	11.3	10.6	9.39	8.17	--	9.05	7.89	--	--	--	--	--	--	--	--	--	--
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	118	77.9	134	94.8	99.3	54.9	43.0	135	47.6	43.2	--	--	--	--	--	--	--	--	--	--
Radium-226	pCi/L	0.319	0.368	0.340	<0.265	0.160	0.156	0.216	--	0.139	0.338	0.130 J	--	<0.109	0.221	0.347	<0.126	<0.320	0.361	--	<0.110
Radium-228	pCi/L	<0.407	<0.459	0.539	0.789	<0.398	<0.167	0.341	--	<0.306	<0.364	0.486	--	<0.202	0.458	0.837	<0.0924	0.590	0.897	--	1.11
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	<0.500 J	0.828 J	<0.500 J	<0.500 J	0.868 J	1.47 J	<0.500 J	<0.500 J	<0.500 J	<0.100	--	--	--	--	--	--	--	--	--	--
Nitrite (as N)	mg/L	<0.500 J	<0.500 J	--	--	--	--	--	--	--	<0.100	--	--	--	--	--	--	--	--	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--
Total nitrogen	mg/L	--	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix D

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	
Sample ID:		MW14-GW-0323	MW14-GW-0923	MW14-GW-0324	MW14-GW-0624	MW14-GW-0924	MW14-GW-0325	MW14-GW-0925	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	
Sample Date:		3/22/2023	9/7/2023	3/11/2024	6/3/2024	9/17/2024	3/31/2025	9/3/2025	12/9/2015	2/29/2016	6/6/2016	9/19/2016	12/19/2016	2/21/2017	4/24/2017	7/5/2017	9/11/2017	4/18/2018	8/21/2018	3/18/2019	4/16/2019
Parameters		Units																			
Appendix III																					
Boron	mg/L	0.261	0.341	0.332	--	0.755	0.346	0.347	2.88	2.92	2.31	2.69	3.05	2.88	1.72	1.33	2.58	1.31	0.670	1.83	0.701
Calcium	mg/L	188	183	220	--	214	190	201	188	196	231	256	264	244	212	187	195	190	117	159	--
Chloride	mg/L	5.72	<5.00	5.41	--	17.8	6.10	<5.00	8.00	7.87	8.63	<5.00	5.87	9.35	14.8	16.7	10.5	19.6 J	19.0	17.3	--
Fluoride	mg/L	<0.500	<1.00	<1.00	--	<1.00	<1.00	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	1.90	0.913	<0.500	<0.500	<0.500	0.185	<0.500	--
pH, lab	s.u.	7.2 J	7.6 J	7.4 J	--	7.6 J	7.4 J	7.5 J	6.80 J	6.93 J	6.78 J	6.9 J	7.0 J	6.9 J	6.9 J	6.9 J	6.9 J	6.9 J	7.2 J	7.0 J	--
Sulfate	mg/L	218	169	236	--	202	205	248	501	515	642	520	507	538	316	293	422	297 J	187	403	204
Total dissolved solids (TDS)	mg/L	884	904	942	--	990	934	1060	1580	1560	1580 J	1570	1970	2000	1310	1020	1370	876	640	1180	790
Appendix IV																					
Antimony	mg/L	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	--	<0.00100	--
Arsenic	mg/L	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00286	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	--
Barium	mg/L	0.0574	0.0574	0.0731 J+	--	0.0637	0.0609	0.0589	0.0583	0.0450	0.0428	0.0453	0.0683	0.0737	0.0611	0.0528	--	0.0489	0.0454	0.0410	--
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	--	<0.00100	--
Cadmium	mg/L	0.000132	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500	--	<0.000500	--
Chromium	mg/L	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	--
Cobalt	mg/L	0.00317	0.00331	0.00277	--	0.000640	0.00499	0.00264	0.00212	0.00188	0.00165	0.00213	0.00212	0.00561	0.00199	0.00227	--	0.00172	0.00213	0.00196	--
Lead	mg/L	<0.000500	<0.000500	<0.000500	--	<0.000500	0.000880	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500	--	<0.000500	--
Lithium	mg/L	0.106	0.136	0.137	--	0.137	0.122	0.130	0.0652	0.0541	0.0540	0.0701	0.0923	0.0814	0.0847	0.0919	--	0.0833	0.0576	0.0616	--
Mercury	mg/L	<0.000200	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200 J	<0.000200	<0.000200	<0.000200	<0.000200	--	<0.000200	--	<0.000200	--
Molybdenum	mg/L	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	--
Radium-226 & 228	pCi/L	0.889	0.800	7.61	<0.264	0.684	0.718	0.351	0.894	<0.512	0.454	<0.373	<0.506	0.931	0.385	0.691	--	0.773	1.05	0.489	--
Selenium	mg/L	<0.00500	<0.00500	<0.00500	--	0.0264	<0.00500	0.00582	<0.00500	0.00799	0.00657	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	--
Thallium	mg/L	<0.00100	<0.00100 J	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	--	<0.00100	--
Other																					
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	--	--	--	--	--	--	--	0.00236	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	--	--
Iron	mg/L	--	--	--	--	--	--	--	<0.100	0.347	<0.100	1.68	--	4.07	2.44	0.544	1.60	--	0.480	--	--
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	--	--	--	--	--	--	--	45.7	40.2	43.5	47.2	45.6	50.0	41.3	37.3	40.3	38.2	23.1	--	--
Manganese	mg/L	--	--	--	--	--	--	--	0.601	0.514	0.743	0.826	1.82	1.78	1.68	1.83	1.46	1.27	1.39	--	--
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	--	--	--	--	--	--	--	11.3	10.5	9.30	11.0	12.0	11.8	9.72	9.05	--	9.14	6.83	--	--
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	--	--	--	--	--	--	--	263	276	224	195	153	204	98.5	71.5	185	81.6	47.0	--	--
Radium-226	pCi/L	<0.184	0.130	<0.0721	<0.0266	0.128	0.118	0.226	0.180	0.106	0.204	0.175	<0.299	0.355	0.224	0.193	--	0.153	0.338	0.125 J	--
Radium-228	pCi/L	0.705	0.670	7.53	<0.238	0.556	0.601	0.125	<0.807	<0.512	<0.427	<0.373	<0.207	0.577	<0.162	0.499	--	0.620	0.715	<0.364	--
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	--	--	--	--	--	--	--	<2.00 J	<0.500 J	0.572 J	<0.500 J	<0.500 J	0.507 J	<0.500 H	<0.500 J	<0.500 J	<0.500 J	0.312	--	--
Nitrite (as N)	mg/L	--	--	--	--	--	--	--	--	<0.500 J	<0.500 J	--	--	--	--	--	--	--	<0.100	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.00	--	--
Total nitrogen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.00	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-16	MW-16	MW-16	MW-16
Sample ID:		MW15-GW-0919	MW-15-GW-0320	MW15-GW-0920	MW15-GW-0321	MW15-GW-0921	MW15-GW-0322	MW15-GW-0922	MW15-GW-0323	MW15-GW-0923	MW15-GW-0324	MW15-GW-0624	MW15-GW-0924	MW15-GW-0325	MW15-GW-0925	MW-16	MW-16	MW-16
Sample Date:		9/11/2019	3/4/2020	9/15/2020	3/24/2021	9/9/2021	3/23/2022	9/28/2022	3/21/2023	9/7/2023	3/13/2024	6/3/2024	9/18/2024	3/31/2025	9/4/2025	10/30/2018	10/30/2018	11/20/2018
Parameters		Units																
Appendix III																		
Boron	mg/L	0.386	2.02	1.01	1.47	0.379	0.859	0.447	0.465	0.400	0.960	--	0.785	1.25	0.339	<0.200	0.202	<0.200
Calcium	mg/L	130	200	189	230	128	234	138	135	112	208	--	129	116	105	143	164	117
Chloride	mg/L	19.9	13.5	19.2	13.7	16.0	12.2	22.2	7.49	31.4	26.1	--	16.9	24.4	26.0	2.47	2.50	<5.00
Fluoride	mg/L	<0.500	<0.500	<0.500	0.550	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	--	<1.00	<1.00	<1.00	0.241	0.239	<0.500
pH, lab	s.u.	7.2 J	7.2 J	7.3 J	7.0 J	7.2 J	7.0 J	7.2 J	7.3 J	7.6 J	7.4 J	--	7.1 J	7.8 J	7.1 J	7.1 J	7.1 J	7.3 J
Sulfate	mg/L	186	437	313	366	174	292	176	51.0	163	374	--	116	279	186	67.7	68.4	72.8
Total dissolved solids (TDS)	mg/L	694	1350	1000	930	560	1020	646	646	594	1140	--	746	972	658	636	638	660
Appendix IV																		
Antimony	mg/L	<0.00100	<0.00100	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00100	<0.00100	<0.00100
Arsenic	mg/L	0.00273	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Barium	mg/L	0.0559	0.0572	0.0528	0.0855	0.0366	0.0756	0.0472	0.0470	0.0413	0.0665 J+	--	0.110 J+	0.120	0.0816	0.220	0.255	0.152
Beryllium	mg/L	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	0.000151	<0.000100	0.000116	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	<0.000500	<0.000500	<0.000500
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	0.00950	0.00141	0.000899	0.00314	0.000900	0.00306	0.00226	0.00207	0.00206	0.00113	--	0.00241	0.00219	0.00316	0.00187	0.00218	<0.000500
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.0606	0.0586	0.0729	0.0902	0.0630	0.102	0.0731	0.0725	0.0781	0.0754	--	0.0578	0.0538	0.0617	0.0596	0.0679	0.0458
Mercury	mg/L	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Radium-226 & 228	pCi/L	0.686	0.540	0.830	0.652	<0.0941	<0.188	1.43	0.598	1.59	<0.483	--	0.213	0.865	1.15	2.38	2.02	1.08
Selenium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00641	<0.00500	<0.00500	<0.00500	0.0677	0.0227	0.00854	<0.00500	<0.00500	0.0334	0.0403	0.0268
Thallium	mg/L	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100 J	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Other																		
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.100	<0.100	<0.100
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	35.3	40.8	27.9
Manganese	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.674	0.793	0.149
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.82	6.69	4.11
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	28.6	29.4	15.1
Radium-226	pCi/L	<0.0883	0.211	0.314	0.149	<0.0744	<0.0974	<0.107	<0.109	0.192	<0.0328	--	0.156	0.196	0.310	1.13	1.23	0.464
Radium-228	pCi/L	0.598	<0.329	<0.516	<0.503	<-0.169	<0.0907	1.33	<0.489	1.40	<0.450	--	0.0570	0.669	0.844	1.24	0.787	0.614
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.200	<0.200	<0.200
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.500	0.503	1.10
Nitrite (as N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.100	<0.100	<0.100
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.00	<1.00	<1.00
Total nitrogen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.00	<1.00	1.10
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
Sample ID:	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW16-GW-0919	MW-16-GW-0320	MW16-GW-0920	MW16-GW-0321	MW16-GW-0921	MW16-GW-0322	MW16-GW-0622	MW16-GW-0922	MW16-GW-0323	MW16-GW-0923	MW16-GW-0324	MW16-GW-0924
Sample Date:	1/3/2019	1/16/2019	1/28/2019	2/21/2019	3/7/2019	3/20/2019	4/17/2019	9/10/2019	3/4/2020	9/15/2020	3/23/2021	9/9/2021	3/21/2022	6/2/2022	9/27/2022	3/22/2023	9/5/2023	3/11/2024	9/18/2024
Parameters	Units																		
Appendix III																			
Boron	mg/L	<0.200	<0.200	<0.200	<0.200	0.212	0.214	--	<0.200	0.233	0.216	0.185	0.196	0.267	0.219	0.186	0.161	0.220	0.184
Calcium	mg/L	151	112	163	153	166	160	--	142	139	134	138	150	147	--	128	120	130	142
Chloride	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	5.63	--	<5.00	5.68	5.66	<5.00	7.11	<5.00	--	6.02	7.87	<5.00	6.08
Fluoride	mg/L	<0.500	<0.500	<0.500	<0.500	<0.500	0.590	<0.500	<0.500	<0.500	<0.500	0.729	<0.500	<0.500	--	<0.500	<0.500	<1.00	<1.00
pH, lab	s.u.	7.3	7.3 J	7.2 J	7.2 J	7.0 J	7.1 J	--	7.1 J	7.0 J	7.1 J	7.8 J	7.3 J	7.2 J	--	7.3 J	7.6 J	7.0 J	7.0 J
Sulfate	mg/L	79.4	78.4	74.3	73.1	70.2	35.8	--	56.9	50.7	40.4	61.1	51.2	51.2	--	17.5	21.3	46.5	38.2
Total dissolved solids (TDS)	mg/L	630	624	628	632	618	644	--	<30.0	542	632	592	650	560	--	614	594	684	600
Appendix IV																			
Antimony	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	<0.00100	--	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200
Arsenic	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200
Barium	mg/L	0.181	0.164	0.188	0.195	0.194	0.201	--	0.242	0.163	0.197	0.233	0.322	0.261	--	0.329	0.262	0.342	0.266 J+
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000100	<0.000100	<0.000100	0.000160	0.000226	0.000169	--	0.000206	0.000187	<0.000200	<0.000200
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500	<0.000500	0.000523	<0.000500	0.000736	0.000683	--	0.00156	0.000872	0.00146	0.00111
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.0591	0.0599	0.0632	0.0716	0.0706	0.0700	--	0.0592	0.0573	0.0616	0.0655	0.0660	0.0705	--	0.0614	0.0539	0.0640	0.0573
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	--	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200
Radium-226 & 228	pCi/L	1.29	0.739	0.732	0.656	0.432	0.584	--	1.34	<0.301	0.842	0.536	1.25	1.31	--	0.830	1.74	1.45	0.705
Selenium	mg/L	0.0299	0.0304	0.0333	0.0230	0.0167	<0.00500	--	0.0169	0.0178	<0.00500	<0.00500	<0.00500	0.0124	--	<0.00500	<0.00500	<0.00500	0.0214
Thallium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100 J	<0.00100
Other																			
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0500	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.362	--	--	--
Magnesium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.100	--	--	--
Manganese	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	32.9	--	--	--
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.48	--	--	--
Potassium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.68	--	--	--
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.28	--	--	--
Sodium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Radium-226	pCi/L	0.239	0.231	0.273	0.171	0.189	0.183	--	0.300	0.256	0.229	0.255	0.456	0.414	--	76.1	--	--	--
Radium-228	pCi/L	<1.26	0.509	0.459	0.485	<0.242	0.401	--	1.04	<0.0447	0.613	<0.282	0.791	0.894	--	0.204	0.302	0.226	<0.126
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.627	1.44	1.23	0.579
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	571	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	571	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<10.0	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	455	--	--	--
Nitrite (as N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.100	--	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24.8	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.69	--	--	--
Total nitrogen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.88	--	--	--

Appendix D

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-16	MW-16	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	
Sample ID:		MW16-GW-0325	MW16-GW-0925	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW17-GW-0919	MW17-GW-0320	MW17-GW-0920	MW17-GW-0321	MW17-GW-0921	MW17-GW-0322	MW17-GW-0922
Sample Date:		3/31/2025	9/3/2025	10/30/2018	11/20/2018	12/4/2018	1/3/2019	1/16/2019	1/28/2019	2/21/2019	3/7/2019	3/21/2019	4/17/2019	9/10/2019	3/3/2020	9/14/2020	3/24/2021	9/8/2021	3/23/2022	9/27/2022
Parameters	Units																			
Appendix III																				
Boron	mg/L	0.203	0.180	<0.200	<0.200	0.191	<0.200	0.206	0.221	0.238	0.253	0.208	--	<0.200	0.236	0.243	0.197	0.209	0.219	0.217
Calcium	mg/L	139	133	143	142	148	148	119	171	173	198	175	--	166	163	181	176	177	168	165
Chloride	mg/L	6.27	<5.00	16.5	18.9	22.5	17.9	18.0	17.5	14.5	13.3	14.9	--	14.1	<5.00	13.0	13.4	18.8	18.8	21.3
Fluoride	mg/L	<1.00	<1.00	0.217	<0.500	0.267	<0.500	<0.500	<0.500	<0.500	<0.500	0.527	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
pH, lab	s.u.	7.7 J	7.6 J	7.1 J	7.2 J	7.2 J	7.3	7.1 J	7.2 J	7.3 J	7.1 J	7.2 J	--	7.3 J	6.9 J	7.2 J	7.2 J	7.2 J	7.3 J	7.3 J
Sulfate	mg/L	51.7	63.7	68.1	62.4	68.0	61.7	64.0	61.4	67.3	72.8	76.3	--	66.9	70.6	93.7	113	98.0	90.8	73.2
Total dissolved solids (TDS)	mg/L	698	748 J	654	674	638	654	656	654	740	680	726	--	732	716	764	770	718	690	684
Appendix IV																				
Antimony	mg/L	<0.00200	<0.00200	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	<0.00100	--	<0.00200	<0.00200	<0.00200	<0.00200
Arsenic	mg/L	<0.00200	<0.00200	0.00569	0.0109	0.0115	0.00915	0.0104 J	0.00933	0.0103	0.0123	0.0176	--	0.0113	0.00650	0.0184	0.0158	0.0330	0.0264	0.0260
Barium	mg/L	0.295	0.324	0.157	0.154	0.161	0.167	0.171	0.178	0.197	0.204	0.181	--	0.185	0.166	0.207	0.188	0.141	0.126	0.122
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	<0.000200	<0.000200	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	0.000838	0.00110	0.00346	0.00396	0.00379	0.00335	0.00340	0.00344	0.00318	0.00328	0.00269	--	0.00313	0.00243	0.00319	0.00289	0.00214	0.00159	0.00172
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500	<0.000500	<0.000500	0.000638	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.0604	0.0556	0.0737	0.0724	0.0831	0.0721	0.0769	0.0764	0.0929	0.0867	0.0828	--	0.0771	0.114	0.0921	0.0890	0.0835	0.0910	0.0834
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	--	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200	0.00205	0.00272	0.00312
Radium-226 & 228	pCi/L	0.548	1.08	2.27	1.21	1.21	1.19	1.21	0.943	0.650	0.778	0.696	--	1.20	0.835	1.10	0.872	1.25	1.47	--
Selenium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100
Other																				
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0500
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	mg/L	--	--	1.81	4.09	4.53	--	--	--	--	--	--	--	--	--	--	--	--	--	12.8
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.7
Magnesium	mg/L	--	--	46.8	44.5	47.2	--	--	--	--	--	--	--	--	--	--	--	--	--	51.7
Manganese	mg/L	--	--	1.78	1.90	2.09	--	--	--	--	--	--	--	--	--	--	--	--	--	2.13
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.07
Potassium	mg/L	--	--	5.92	5.71	5.92	--	--	--	--	--	--	--	--	--	--	--	--	--	6.19
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	--	--	26.6	22.1	22.8	--	--	--	--	--	--	--	--	--	--	--	--	--	36.2
Radium-226	pCi/L	0.281	0.326	0.960	0.592	0.402	0.341	0.409	0.408	0.324	0.224	0.321	--	0.258	0.311	0.340	0.344	0.455	<0.443	--
Radium-228	pCi/L	0.267	0.758	1.31	0.619	0.804	<1.04	0.803	0.534	0.326	0.554	<0.374	--	0.943	0.523	0.765	0.529	0.792	1.02	--
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	521
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	521
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<10.0
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	0.714	0.667	0.734	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	625
Nitrate (as N)	mg/L	--	--	0.184	<0.100	<0.100	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.100
Nitrite (as N)	mg/L	--	--	<0.100	<0.100	0.135	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.7
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.01
Total kjeldahl nitrogen (TKN)	mg/L	--	--	1.22	1.09	1.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total nitrogen	mg/L	--	--	1.40	1.09	1.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	30.0

Appendix D

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18
Sample ID:		MW17-GW-1222	MW17-GW-0323	MW17-GW-0923	MW17-GW-0324	MW17-GW-0924	MW17-GW-0325	MW17-GW-0925	MW-18	MW-18	Dup-1	MW-18	DUP-1	MW-18	DP-01	MW-18	DP-01	MW-18	DP-01	MW-18
Sample Date:		12/2/2022	3/22/2023	9/6/2023	3/12/2024	9/18/2024	3/31/2025	9/4/2025	10/31/2018	11/20/2018	11/20/2018 (Duplicate)	12/4/2018	12/4/2018 (Duplicate)	1/3/2019	1/3/2019 (Duplicate)	1/16/2019	1/16/2019 (Duplicate)	1/28/2019	1/28/2019 (Duplicate)	2/21/2019
Parameters		Units																		
Appendix III																				
Boron	mg/L	--	0.242	0.245	0.194	0.229	0.233	0.204	0.266	<0.200	0.222	0.225	0.240	<0.200	<0.200	0.209	0.208	0.238	0.238	0.258
Calcium	mg/L	--	159	173	161	180	147	143	167	150	165	162	165	162	166	122	131	187	175	170
Chloride	mg/L	--	23.7	23.8	14.7	23.9	14.2	15.5	<5.00	<5.00	<5.00	2.74	2.96	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Fluoride	mg/L	--	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<0.500	0.324	0.348	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
pH, lab	s.u.	--	7.3 J	7.7 J	7.5 J	7.0 J	7.8 J	7.6 J	7.0 J	7.1 J	7.1 J	7.1 J	7.1 J	7.3	7.3 J	7.0 J	7.2 J	7.3 J	7.4 J	7.2 J
Sulfate	mg/L	--	83.6	80.4	97.1	70.5	105	97.9	79.6	77.7	78.2	81.7	82.4	75.9	73.9	80.8	79.6	77.3	77.7	87.2
Total dissolved solids (TDS)	mg/L	--	678	682	658	712	714	748	716	728	708	748	754	694	688	706	722	788	786	804
Appendix IV																				
Antimony	mg/L	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Arsenic	mg/L	--	0.0265	0.0143	0.0157	0.0190	0.00395	0.00291	0.0208	0.0206	0.0224	0.0199	0.0202	0.00578	0.00531	0.0126 J	0.0126 J	0.0141	0.0140	0.0191
Barium	mg/L	--	0.106	0.121	0.105 J+	0.143 J+	0.124	0.104	0.132	0.126	0.136	0.141	0.145	0.169	0.167	0.133	0.143	0.149	0.140	0.145
Beryllium	mg/L	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	--	<0.000100	0.000222	<0.000200	<0.000200	<0.000200	<0.000200	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Chromium	mg/L	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	--	0.00193	0.00165	0.000878	0.00148	0.000649	<0.000500	0.00511	0.00661	0.00724	0.00586	0.00605	0.00306	0.00303	0.00278	0.00303	0.00324	0.00335	0.00286
Lead	mg/L	--	<0.000500	0.000782	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	--	0.0881	0.0837	0.0780	0.0752	0.0845	0.0772	0.129	0.107	0.116	0.121	0.132	0.101	0.103	0.103	0.107	0.118	0.120	0.125
Mercury	mg/L	--	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000600	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum	mg/L	--	0.00332	0.00484	0.00283	0.00349	0.00336	0.00302	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00263	0.00202	0.00202	<0.00200
Radium-226 & 228	pCi/L	1.09	1.19	1.40	1.71	1.16	1.67	1.68	1.61	1.52	1.61	1.32	1.75	0.713	1.28	1.44	1.84	1.00	0.840	0.989
Selenium	mg/L	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	mg/L	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Other																				
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	mg/L	--	--	--	--	--	--	--	10.1	8.70	9.42	8.62	8.87	--	--	--	--	--	--	--
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	--	--	--	--	--	--	--	52.6	46.8	50.2	50.5	53.1	--	--	--	--	--	--	--
Manganese	mg/L	--	--	--	--	--	--	--	2.68	2.52	2.72	2.57	2.73	--	--	--	--	--	--	--
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	--	--	--	--	--	--	--	7.91	7.39	7.89	7.95	8.06	--	--	--	--	--	--	--
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	--	--	--	--	--	--	--	50.9	36.0	38.3	44.9	47.3	--	--	--	--	--	--	--
Radium-226	pCi/L	<0.0869	0.425	<0.116	0.352	0.227	0.399	0.228	0.736	0.625	0.686	0.671	0.596	0.477	0.605	0.548	0.594	0.462	0.448	0.383
Radium-228	pCi/L	1.01	0.765	1.28	1.36	0.938	1.27	1.45	0.873	0.891	0.921	0.653	1.16	0.236	<1.24	0.895	1.25	0.541	<0.392	0.606
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	--	--	0.898	0.689	0.676	0.815	0.809	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	--	--	--	--	--	--	--	<0.100	<0.100	<0.100	<0.100	0.273	--	--	--	--	--	--	--
Nitrite (as N)	mg/L	--	--	--	--	--	--	--	<0.100	<0.100	<0.100	<0.100	<0.100	--	--	--	--	--	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	--	1.24	1.03	1.16	1.15	1.14	--	--	--	--	--	--	--
Total nitrogen	mg/L	--	--	--	--	--	--	--	1.24	1.03	1.16	1.15	1.41	--	--	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	
Sample ID:		MW-18	DP-01	MW-18	DP-02	MW-18	DP-02	MW18-GW-0919	MW-18-GW-0320	MW18-GW-0920	MW18-GW-0321	MW18-GW-0921	DP01-GW-0921	MW18-GW-0322	MW18-GW-0922	DP03-GW-0922	MW18-GW-1222	MW18-GW-0323	MW18-GW-0923
Sample Date:		3/7/2019	3/7/2019	3/21/2019	3/21/2019	4/17/2019	4/17/2019	9/10/2019	3/3/2020	9/14/2020	3/24/2021	9/8/2021	9/8/2021	3/22/2022	9/27/2022	9/27/2022	12/2/2022	3/21/2023	9/6/2023
			(Duplicate)		(Duplicate)		(Duplicate)						(Duplicate)			(Duplicate)			
Parameters	Units																		
Appendix III																			
Boron	mg/L	0.290	0.215	<0.200	0.233	--	--	0.210	0.230	0.211	0.222	0.240	0.241	0.248	0.236	0.249	--	0.233	0.259
Calcium	mg/L	182	164	151	174	--	--	166	180	167	167	276	278	221	274	273	--	188	196
Chloride	mg/L	<5.00	<5.00	<5.00	<5.00	--	--	<5.00	11.4	<5.00	<5.00	19.2	18.9	14.7	23.0	--	--	<5.00	<5.00
Fluoride	mg/L	<0.500	<0.500	0.594	0.584	0.535	<0.500	<0.500	<0.500	<0.500	0.651	<0.500	<0.500	<0.500	<0.500	--	--	<0.500	<1.00
pH, lab	s.u.	6.9 J	7.0 J	7.1 J	7.1 J	--	--	7.1 J	7.0 J	7.5 J	7.1 J	7.1 J	7.5 J	7.1 J	7.1 J	7.2 J	--	7.1 J	7.6 J
Sulfate	mg/L	85.0	87.0	79.9	81.6	--	--	83.2	75.7	77.2	108	410	408	248	356	--	--	32.7	98.0
Total dissolved solids (TDS)	mg/L	732	756	720	692	--	--	808	748	768	792	1260	1280	1020	1320	1260	--	850	818
Appendix IV																			
Antimony	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	--	--	<0.00100	<0.00100	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200
Arsenic	mg/L	0.0181	0.0165	0.00450	0.00468	--	--	0.00523	0.00780	0.0144	0.224	0.0280	0.0287	0.0369	0.0252	0.0249	--	0.0206	0.0207
Barium	mg/L	0.137	0.123	0.121	0.133	--	--	0.164	0.206	0.153	0.228	0.155	0.158	0.147	0.129	0.127	--	0.109	0.113
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	--	--	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	<0.00100
Cadmium	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	--	--	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	--	<0.000100	<0.000200
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	--	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500
Cobalt	mg/L	0.00294	0.00266	0.00154	0.00190	--	--	0.00392	0.00282	0.00457	0.00595	0.00352	0.00364	0.00287	0.00365	0.00366	--	0.00239	0.00274
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	--	--	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	<0.000500	<0.000500
Lithium	mg/L	0.133	0.136	0.0991	0.115	--	--	0.118	0.0878	0.117	0.141	0.145	0.146	0.162	0.143	--	--	0.149	0.133
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	--	--	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	--	<0.000200	<0.000200
Molybdenum	mg/L	<0.00200	<0.00200	0.00284	0.00207	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00227	0.00350	0.00242	0.00254	0.00250	--	0.00237	0.00266
Radium-226 & 228	pCi/L	1.11	0.807	1.18	1.07	--	--	1.51	0.856	1.51	1.34	1.87	<0.427	1.38	--	2.60	1.83	<0.817	0.599
Selenium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	--	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500
Thallium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	--	--	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	<0.00100	<0.00100 J
Other																			
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0500	<0.0500	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	19.0	18.4	--	--	--
Magnesium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	16.7	16.4	--	--	--
Manganese	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	81.0	80.0	--	--	--
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	4.12	4.11	--	--	--
Potassium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	3.85	3.82	--	--	--
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	9.46	9.27	--	--	--
Sodium	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Radium-226	pCi/L	0.373	0.299	0.300	0.234	--	--	0.348	0.209	0.485	0.415	0.688	<0.115	<0.336	65.7	63.8	--	--	--
Radium-228	pCi/L	0.736	0.508	0.877	0.832	--	--	1.16	0.647	1.03	0.924	1.18	<0.312	1.04	--	0.300	0.319	<0.183	<0.110
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	638	664	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	638	664	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	<10.0	<10.0	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	1020	--	--	--	--
Nitrate (as N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.100	<0.100	--	--	--
Nitrite (as N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	17.7	18.3	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	6.10	5.95	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total nitrogen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	37.0	41.0	--	--	--

Appendix D

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-18	MW-18	MW-18	MW-18	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19
Sample ID:		MW18-GW-0324	MW18-GW-0924	MW18-GW-0325	MW18-GW-0925	MW-19	MW-19	MW-19	MW-19	MW-19	MW19-GW-0919	DP01-GW-0919	MW-19-GW-0320	MW19-GW-0920	MW19-GW-0321	MW19-GW-0921	MW19-GW-0322	MW19-GW-0922	MW19-GW-0323
Sample Date:		3/12/2024	9/18/2024	3/31/2025	9/4/2025	10/30/2018	11/19/2018	12/3/2018	3/18/2019	4/17/2019	9/11/2019	9/11/2019 (Duplicate)	3/2/2020	9/14/2020	3/24/2021	9/7/2021	3/21/2022	9/29/2022	3/20/2023
Parameters	Units																		
Appendix III																			
Boron	mg/L	0.215	0.244	0.249	0.236	0.318	0.272	0.310	0.272	0.293	0.305	0.300	0.318	0.230	0.286	0.248	0.283	0.426	0.370
Calcium	mg/L	180	208	171	170	254	186	229	197	--	257	256	210	173	218	215	219	270	239
Chloride	mg/L	<5.00	<5.00	<5.00	<5.00	5.44	5.51	5.40	11.6	--	7.40	7.36	9.47	10.4	10.9	10.9	17.1	35.5	47.2
Fluoride	mg/L	<1.00	<1.00	<1.00	<1.00	0.392	<0.500	0.289	1.78	<0.500	<0.500	<0.500	<0.500	<0.500	0.560	<0.500	<0.500	<0.500	<0.500
pH, lab	s.u.	7.6 J	7.0 J	7.8 J	7.6 J	6.9 J	7.0 J	6.9 J	7.0 J	--	6.9 J	6.9 J	6.8 J	7.1 J	6.8 J	7.1 J	7.0 J	6.9 J	7.0 J
Sulfate	mg/L	90.9	125	127	130	289	298	306	278	312	391	391	287	253	373	336	290	282	239
Total dissolved solids (TDS)	mg/L	802	824	840	830	1150	1130	1180	1010	1200	1330	1290	1040	936	1030	1030	1050	1220	1080
Appendix IV																			
Antimony	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	--	--	--	<0.00100	--	<0.00100	<0.00100	<0.00100	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Arsenic	mg/L	0.0260	0.0243	0.0237	0.0200	0.00444	<0.00200	0.00245	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Barium	mg/L	0.120 J+	0.138 J+	0.123	0.119	0.181	0.123	0.160	0.153	--	0.122	0.119	0.120	0.121	0.184	0.143	0.163	0.133	0.155
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	--	--	--	<0.00100	--	<0.00100	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	--	--	--	<0.000500	--	0.000108	0.000105	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	0.000113	0.000102
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	--	--	--	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	0.00277	0.00277	0.00265	0.00356	0.00980	0.00567	0.00693	0.00758	--	0.00455	0.00456	0.00502	0.00714	0.0102	0.00847	0.00862	0.00669	0.00955
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	--	--	--	<0.000500	--	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.132	0.156	0.139	0.140	0.149	0.102	0.147	0.121	--	0.146	0.143	0.115	0.0930	0.112	0.111	0.124	0.159	0.151
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	--	--	--	<0.000200	--	<0.000200	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum	mg/L	0.00206	<0.00200	0.00233	0.00219	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Radium-226 & 228	pCi/L	1.39	0.854	1.26	1.37	1.90	1.39	0.987	0.612	--	1.06	0.570	0.764	0.929	1.08	0.859	1.21	1.68	1.09
Selenium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	--	--	--	<0.00100	--	<0.00100	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Other																			
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	mg/L	--	--	--	--	1.09	0.326	0.449	--	--	--	--	--	--	--	--	--	--	--
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	--	--	--	--	87.6	62.8	83.2	--	--	--	--	--	--	--	--	--	--	--
Manganese	mg/L	--	--	--	--	4.15	2.82	4.07	--	--	--	--	--	--	--	--	--	--	--
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	--	--	--	--	10.4	7.39	9.26	--	--	--	--	--	--	--	--	--	--	--
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	--	--	--	--	48.1	35.2	43.4	--	--	--	--	--	--	--	--	--	--	--
Radium-226	pCi/L	0.404	0.343	0.224	0.330	0.823	0.463	0.468	0.274 J	--	0.184	0.128	0.274	0.603	0.488	0.356	0.610	0.260	0.314
Radium-228	pCi/L	0.990	0.511	1.04	1.04	1.08	0.924	0.518	<0.338	--	0.879	0.443	0.490	<0.326	0.590	0.503	<0.603	1.42	0.771
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	0.960	0.774	1.00	--	--	--	--	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	--	--	--	--	<0.100	<0.100	<0.100	--	--	--	--	--	--	--	--	--	--	--
Nitrite (as N)	mg/L	--	--	--	--	<0.100	<0.100	<0.100	--	--	--	--	--	--	--	--	--	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	1.38	1.11	1.31	--	--	--	--	--	--	--	--	--	--	--
Total nitrogen	mg/L	--	--	--	--	1.38	1.11	1.31	--	--	--	--	--	--	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix D

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-19	MW-19	MW-19	MW-19	MW-19	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	
Sample ID:		MW19-GW-0923	MW19-GW-0324	MW19-GW-0924	MW19-GW-0325	MW19-GW-0925	MW-20	MW-20	MW-20	MW-20	MW-20	MW20-GW-0919	MW-20-GW-0320	MW20-GW-0920	MW20-GW-0321	MW20-GW-0921	MW20-GW-0322	MW20-GW-0922	MW20-GW-0323
Sample Date:		9/6/2023	3/12/2024	9/18/2024	3/31/2025	9/3/2025	10/30/2018	11/19/2018	12/3/2018	3/18/2019	4/17/2019	9/11/2019	3/2/2020	9/14/2020	3/24/2021	9/7/2021	3/21/2022	9/29/2022	3/20/2023
Parameters		Units																	
Appendix III																			
Boron	mg/L	0.209	0.466	0.460	0.585	0.487	0.812	0.516	0.637	1.04	1.06	0.527	0.665	0.566	0.349	0.611	0.730	0.846	0.745
Calcium	mg/L	236	247	317	277	202	179	144	149	180	--	143	141	131	117	152	133	143	138
Chloride	mg/L	25.7	57.0	62.6	57.7	34.5	19.4	11.1	7.58	23.8	13.6	<5.00	<5.00	<5.00	<5.00	6.66	<5.00	7.05	19.5
Fluoride	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	0.233	<0.500	0.227	<0.500	--	<0.500	<0.500	<0.500	0.521	<0.500	<0.500	<0.500	<0.500
pH, lab	s.u.	7.5 J	7.5 J	6.7 J	7.7 J	7.5 J	7.1 J	7.3 J	7.1 J	7.3 J	--	7.2 J	7.0 J	7.6 J	7.2 J	7.2 J	7.3 J	7.3 J	7.2 J
Sulfate	mg/L	254	244	365	456	311	184	151	146	236	240	112	106	103	60.3	112	69.2	107	104
Total dissolved solids (TDS)	mg/L	<50.0	1110	1360	1490	1130	808	716	674	908	900	624	632	628	486	636	458	614	610
Appendix IV																			
Antimony	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	--	--	<0.00100	--	<0.00100	<0.00100	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Arsenic	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.0161	0.00988	0.00693	0.0234 J	--	0.00339	0.00371	0.00574	0.00206	0.00835	0.00982	0.0173	0.0133
Barium	mg/L	0.133	0.139 J+	0.0942 J+	0.137	0.0781	0.127	0.108	0.125	0.107	--	0.0930	0.107	0.0962	0.0954	0.114	0.123	0.139	0.121
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	--	--	<0.00100	--	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	--	--	--	<0.000500	--	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	--	--	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	0.00388	0.00636	0.00173	0.00697	0.00280	0.00370	0.00227	0.00190	0.00158	--	0.00218	0.00432	0.00574	0.00248	0.00407	0.00132	0.00345	0.00142
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	--	--	<0.000500	--	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.146	0.144	0.182	0.169	0.148	0.0936	0.0730	0.0891	0.111	--	0.0773	0.0782	0.0752	0.0641	0.0883	0.0827	0.0882	0.0794
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	--	--	--	<0.000200	--	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Radium-226 & 228	pCi/L	1.04	1.74	0.843	1.56	0.822	2.11	1.12	1.07	<0.331	--	0.782	0.440	0.847	<0.375	0.992	0.616	1.39	0.921
Selenium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00706	0.0132	<0.00500	--	0.0109	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	mg/L	<0.00100 J	<0.00100	<0.00100	<0.00100	<0.00100	--	--	--	<0.00100	--	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Other																			
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	mg/L	--	--	--	--	--	6.51	3.84	2.69	--	--	--	--	--	--	--	--	--	--
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	--	--	--	--	--	51.2	39.7	41.4	--	--	--	--	--	--	--	--	--	--
Manganese	mg/L	--	--	--	--	--	2.51	1.47	1.13	--	--	--	--	--	--	--	--	--	--
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	--	--	--	--	--	8.08	6.44	6.81	--	--	--	--	--	--	--	--	--	--
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	--	--	--	--	--	38.1	29.7	29.3	--	--	--	--	--	--	--	--	--	--
Radium-226	pCi/L	0.326	0.307	0.231	0.662	0.286	0.737	0.445	0.460	0.115 J	--	<0.111	0.146	0.198	0.202	<0.180	0.143	0.266	0.295
Radium-228	pCi/L	0.714	1.44	0.613	0.902	0.535	1.37	0.674	0.609	<0.216	--	0.671	<0.295	0.649	<0.173	0.812	0.473	1.12	0.626
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	0.301	<0.200	<0.200	--	--	--	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	--	--	--	--	--	<0.100	1.01	2.27	--	--	--	--	--	--	--	--	--	--
Nitrite (as N)	mg/L	--	--	--	--	--	<0.100	0.153	0.138	--	--	--	--	--	--	--	--	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	<1.00	<1.00	<1.00	--	--	--	--	--	--	--	--	--	--
Total nitrogen	mg/L	--	--	--	--	--	<1.00	1.16	2.41	--	--	--	--	--	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix D

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:		MW-20	MW-20	MW-20	MW-20	MW-20	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21
Sample ID:		MW20-GW-0923	MW20-GW-0324	MW20-GW-0924	MW20-GW-0325	MW20-GW-0925	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21-GW-0919	MW-21-GW-0320	MW21-GW-0920	MW21-GW-0321	MW21-GW-0921	MW21-GW-0322	MW21-GW-0622	DP02-GW-0622
Sample Date:		9/6/2023	3/12/2024	9/18/2024	3/31/2025	9/3/2025	10/30/2018	11/19/2018	12/4/2018	3/18/2019	4/16/2019	9/10/2019	3/3/2020	9/15/2020	3/24/2021	9/9/2021	3/23/2022	6/2/2022	6/2/2022 (Duplicate)
Parameters	Units																		
Appendix III																			
Boron	mg/L	0.542	0.909	1.55	1.17	1.07	0.225	<0.200	0.194	<0.200	--	<0.200	<0.200	0.165	0.141	0.162	0.156	--	--
Calcium	mg/L	193	205	262	205	205	154	149	154	151	--	140	136	140	125	130	132	--	--
Chloride	mg/L	63.4	156	61.6	80.0	61.5	4.36	<5.00	3.68	5.36	--	7.82	8.61	7.89	8.95	8.89	7.39	--	--
Fluoride	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	0.215	<0.500	0.325	<0.500	--	<0.500	<0.500	<0.500	0.553	<0.500	<0.500	--	--
pH, lab	s.u.	7.6 J	7.5 J	7.1 J	7.8 J	7.7 J	6.9 J	7.0 J	7.0 J	7.1 J	--	7.0 J	7.1 J	7.7 J	7.1 J	7.1 J	7.2 J	--	--
Sulfate	mg/L	176	181	398	352	423	37.4	41.0	38.3	59.6	--	51.6	64.4	74.8	13.8	8.46	<5.00	--	--
Total dissolved solids (TDS)	mg/L	854	1000	1230	1170	1310	574	568	626	560	--	544	552	552	452	424	372	--	--
Appendix IV																			
Antimony	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	--	--	<0.00100	--	<0.00100	<0.00100	--	<0.00200	<0.00200	<0.00200	--	--
Arsenic	mg/L	0.0114	0.0167	0.0124	0.0136	0.0148	<0.00200	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--	--
Barium	mg/L	0.155	0.159 J+	0.0975 J+	0.0886	0.0833	0.219	0.204	0.211	0.223	--	0.178	0.166	0.212	0.271	0.318	0.430	--	--
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	--	--	<0.00100	--	<0.00100	<0.00100	--	<0.00100	<0.00100	<0.00100	--	--
Cadmium	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	--	--	--	<0.000500	--	0.000130	<0.000100	<0.000100	0.000170	<0.000100	<0.000100	--	--
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	--	--	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	--
Cobalt	mg/L	0.000623	0.00142	0.00147	0.00255	0.00109	0.00104	0.000684	0.000545	0.000683	--	<0.000500	<0.000500	0.00131	0.000624	0.00187	0.00585	--	--
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	--	--	0.000517	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	--	--
Lithium	mg/L	0.0990	0.0921	0.120	0.110	0.118	0.0806	0.0707	0.0841	0.0768	--	0.0621	0.0686	0.0669	0.0680	0.0701	0.0764	--	--
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	--	--	--	<0.000200	--	<0.000200	<0.000200	--	<0.000200	<0.000200	<0.000200	--	--
Molybdenum	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00243	<0.00200	<0.00200	<0.00200	--	<0.00200	<0.00200	<0.00200	0.00225	<0.00200	<0.00200	--	--
Radium-226 & 228	pCi/L	0.993	1.19	0.297	0.304	1.51	2.21	0.934	1.03	0.952	--	0.850	0.825	1.88	1.24	1.69	2.79	3.06	2.34
Selenium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	--	--
Thallium	mg/L	<0.00100 J	<0.00100	<0.00100	<0.00100	<0.00100	--	--	--	<0.00100	--	<0.00100	<0.00100	--	0.00136	<0.00100	<0.00100	--	--
Other																			
Aluminum	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	mg/L	--	--	--	--	--	<0.100	<0.100	0.0526	--	--	--	--	--	--	--	--	--	--
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	--	--	--	--	--	40.3	37.2	38.8	--	--	--	--	--	--	--	--	--	--
Manganese	mg/L	--	--	--	--	--	0.344	0.245	0.205	--	--	--	--	--	--	--	--	--	--
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	--	--	--	--	--	9.61	8.98	9.20	--	--	--	--	--	--	--	--	--	--
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	--	--	--	--	--	7.41	6.58	6.40	--	--	--	--	--	--	--	--	--	--
Radium-226	pCi/L	0.276	0.224	0.224	0.251	0.654	0.688	0.399	0.178	0.256 J	--	0.121	0.150	0.784	0.416	0.456	1.00	0.789	0.571
Radium-228	pCi/L	0.717	0.963	0.0734	0.0534	0.858	1.52	0.535	0.856	0.697	--	0.729	0.675	1.10	0.825	1.24	1.79	2.27	1.77
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	<0.200	<0.200	<0.200	--	--	--	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	--	--	--	--	--	4.25	4.70	4.38	--	--	--	--	--	--	--	--	--	--
Nitrite (as N)	mg/L	--	--	--	--	--	<0.100	<0.100	0.128	--	--	--	--	--	--	--	--	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	<1.00	<1.00	<1.00	--	--	--	--	--	--	--	--	--	--
Total nitrogen	mg/L	--	--	--	--	--	4.25	4.70	4.51	--	--	--	--	--	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Analytical Data Summary
MidAmerican Energy Company
Neal South CCR Monofill
Salix, Iowa

Sample Location:	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21
Sample ID:	MW21-GW-0922	MW21-GW-0323	MW21-GW-0923	MW21-GW-0324	MW21-GW-0924	MW21-GW-0325	MW21-GW-0925
Sample Date:	9/29/2022	3/22/2023	9/6/2023	3/13/2024	9/17/2024	3/31/2025	9/3/2025

Parameters	Units						

Appendix III								
Boron	mg/L	0.219	0.158	0.118	0.164	0.180	0.241	0.189
Calcium	mg/L	107	122	135	152	169	182	187
Chloride	mg/L	8.42	8.12	7.57	6.82	14.5	8.72	8.32
Fluoride	mg/L	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00
pH, lab	s.u.	7.1 J	7.2 J	7.6 J	7.6 J	6.9 J	7.7 J	7.4 J
Sulfate	mg/L	7.78	<5.00	10.2	17.4	79.7	140	135
Total dissolved solids (TDS)	mg/L	384	442	468	498	594	778	816

Appendix IV								
Antimony	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Arsenic	mg/L	<0.00200	0.00235	<0.00200	0.00680	0.00210	0.00786	0.00794
Barium	mg/L	0.324	0.474	0.433	0.483 J+	0.254	0.399	0.372
Beryllium	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	mg/L	<0.000100	0.000128	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Chromium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	mg/L	0.00416	0.00491	0.00330	0.00543	0.000951	0.00338	0.00600
Lead	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Lithium	mg/L	0.0670	0.0648	0.0716	0.0711	0.0677	0.0816	0.0864
Mercury	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum	mg/L	<0.00200	0.00223	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Radium-226 & 228	pCi/L	2.94	2.24	2.88	4.56	1.67	1.84	1.88
Selenium	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	mg/L	<0.00100	0.00154	<0.00100 J	<0.00100	<0.00100	<0.00100	<0.00100

Other								
Aluminum	mg/L	--	--	--	--	--	--	--
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--
Arsenic III	mg/L	--	--	--	--	--	--	--
Arsenic V	mg/L	--	--	--	--	--	--	--
Copper	mg/L	--	--	--	--	--	--	--
Iron	mg/L	--	--	--	--	--	--	--
Iron (dissolved)	mg/L	--	--	--	--	--	--	--
Magnesium	mg/L	--	--	--	--	--	--	--
Manganese	mg/L	--	--	--	--	--	--	--
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--
Potassium	mg/L	--	--	--	--	--	--	--
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--
Sodium	mg/L	--	--	--	--	--	--	--
Radium-226	pCi/L	0.440	0.533	0.552	0.653	0.175	0.607	0.426
Radium-228	pCi/L	2.50	1.70	2.33	3.90	1.50	1.23	1.45
Alkalinity (as CaCO3 pH=4.5)	mg/L	--	--	--	--	--	--	--
Alkalinity, bicarbonate	mg/L	--	--	--	--	--	--	--
Alkalinity, carbonate	mg/L	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	--	--	--	--	--	--	--
Ammonia-N	mg/L	--	--	--	--	--	--	--
Hardness	mg/L	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	--	--	--	--	--	--	--
Nitrite (as N)	mg/L	--	--	--	--	--	--	--
Silica (dissolved)	mg/L	--	--	--	--	--	--	--
TOC average duplicates	mg/L	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	--
Total nitrogen	mg/L	--	--	--	--	--	--	--
Total suspended solids (TSS)	mg/L	--	--	--	--	--	--	--

Appendix E

Performance Monitoring Evaluation Report



Performance Monitoring Evaluation Report

**IDNR Permit 97-SDP-13-98C
EPA UIC ID No. IAS193260006
Neal South CCR Monofill
Salix, Iowa**

MidAmerican Energy Company

January 30, 2026

Contents

1.	Introduction	1
2.	Treatment Overview	1
3.	Groundwater Monitoring	1
4.	Performance Evaluation	2
4.1	Upgradient and Background Concentrations	2
4.2	MW-2 Area Evaluation	3
4.3	MW-10 Area Evaluation	5
5.	Summary and Recommendations	6
6.	References	6

Table index

Table 1	MW-2 Area Mann-Kendall Trend Analysis Summary for Arsenic	3
Table 2	MW-10 Area Mann-Kendall Trend Analysis Summary for Arsenic	5

Figure index

Figure 1.1	Site Location
Figure 1.2	Site Map and Monitoring Well Locations
Figure 1.3	MW-2 Area Injection Transects (August 2020)
Figure 1.4	MW-10 Area Injection Transects (August 2020)
Figure 3.1	MW-16 Performance Monitoring Evaluation Graph
Figure 3.2	MW-17 Performance Monitoring Evaluation Graph
Figure 3.3	MW-18 Performance Monitoring Evaluation Graph
Figure 3.4	MW-2 Performance Monitoring Evaluation Graph
Figure 3.5	MW-26 Performance Monitoring Evaluation Graph
Figure 3.6	MW-28 Performance Monitoring Evaluation Graph
Figure 3.7	MW-30 Performance Monitoring Evaluation Graph
Figure 3.8	MW-32 Performance Monitoring Evaluation Graph
Figure 3.9	MW-33 Performance Monitoring Evaluation Graph
Figure 3.10	MW-34 Performance Monitoring Evaluation Graph
Figure 3.11	MW-36 Performance Monitoring Evaluation Graph
Figure 3.12	MW-10 Performance Monitoring Evaluation Graph
Figure 3.13	MW-43 Performance Monitoring Evaluation Graph
Figure 3.14	MW-49 Performance Monitoring Evaluation Graph
Figure 3.15	MW-50 Performance Monitoring Evaluation Graph
Figure 3.16	MW-51 Performance Monitoring Evaluation Graph
Figure 3.17	MW-52 Performance Monitoring Evaluation Graph
Figure 3.18	MW-53 Performance Monitoring Evaluation Graph

Appendices

Appendix A	Groundwater Flow Maps for Corrective Action Monitoring Events
Appendix B	Performance Monitoring Evaluation Data Summary
Appendix C	Mann-Kendall Analyses

1. Introduction

This Performance Monitoring Evaluation (PME) Report provides a summary of post-injection monitoring data associated with remedial activities at MidAmerican Energy Company's (MidAmerican's) Neal South Energy Center (Neal South) Coal Combustion Residue (CCR) Monofill (Monofill). The corrective action associated with the Neal South CCR Monofill is in situ injection of calcium polysulfide in the vicinity of monitoring wells MW-2 and MW-10 to treat arsenic present in groundwater above the site-specific groundwater protection standard (GWPS) for arsenic, which was 0.0224 milligrams per liter (mg/L) at the time of the injection. Since initiation of remedial activities, the background value for arsenic, which is the site-specific GWPS, was updated to 0.0667 mg/L reflecting changing upgradient conditions as discussed in Section 4.1 of this report. The injections were completed in August 2020 and this PME Report summarizes data collected through September 2025.

The Neal South Monofill is located in Section 24, Township 86N, Range 47W in Woodbury County, Iowa. The site location map and monitoring well network are illustrated on Figure 1.1 and Figure 1.2, respectively.

2. Treatment Overview

In situ chemical injections occurred August 5 through 12 and August 17 through 19, 2020 (GHD, 2020b). A solution of Remotox (29% calcium polysulfide) was injected into direct-push borings for the treatment of arsenic in groundwater. The injection point locations were surveyed and staked prior to mobilization and injection. Injections were planned on roughly a 30-foot spacing interval (15-foot radius of influence) and a 20-foot vertical injection interval. The MW-2 area is approximately 34,600 square feet and had a total of 51 injection locations completed along four east-west transects (Figure 1.3). The MW-10 area is approximately 18,200 square feet and had a total of 29 injection locations completed generally along four east-west transects (Figure 1.4).

3. Groundwater Monitoring

The site-specific GWPS for arsenic is based on local background groundwater conditions. The groundwater monitoring data presented in this PME Report were generated in accordance with the PME Plan (GHD, 2020a) developed for the Neal South CCR Monofill corrective measures. The Hydrologic Monitoring System Plan (HMSP) for the Neal South Monofill (GHD, 2020c) was developed to meet the Federal CCR rule monitoring and reporting requirements. The PME Plan was written to supplement the HMSP to comply with 40 Code of Federal Regulations (CFR) §257.98 (a)(1) to establish and implement a groundwater monitoring program that documents the effectiveness of the corrective action remedy.

Currently, semiannual assessment groundwater monitoring is completed in accordance with the procedures outlined in the November 10, 2020 HMSP (GHD, 2020c) and the January 31, 2019 Groundwater Monitoring System Certification for the Neal South CCR Monofill (Certification) (GHD, 2019). Assessment groundwater monitoring is summarized in the Annual Groundwater Monitoring and Corrective Action Report (AGWMCAR), due by January 31 of each year.

Semiannual assessment monitoring events are conducted in accordance with 40 CFR §257. Multiple groundwater monitoring events specific to the corrective action were also completed since 2020 as described in the PME Plan (GHD, 2020a). The following groundwater monitoring events were completed in accordance with the PME Plan in support of the corrective action:

- July 28-29, 2020 (pre-injection groundwater monitoring event)
- September 14-16, 2020 (post-injection monitoring event)
- October 21-22, 2020 (post-injection monitoring event)
- November 16-18, 2020 (post-injection monitoring event)
- March 22-23 and 29, 2021 (post-injection monitoring event)
- June 22-23, 2021 (post-injection monitoring event)
- September 8-9, 2021 (post-injection monitoring event)
- March 21-23, 2022 (post-injection monitoring event)
- September 27-29, 2022 (post-injection monitoring event)
- March 20-24, 2023; April 4, 2023 (post-injection monitoring event)
- September 5-6, 2023 (post-injection monitoring event)
- March 11-12, 2024 (post-injection monitoring event)
- September 16-17, 2024 (post-injection monitoring event)
- March 18, 2025 (post-injection monitoring event)
- September 2-3, 2025 (post-injection monitoring event)

Groundwater flow maps for each of the 2025 corrective action monitoring events are provided in Appendix A.

4. Performance Evaluation

As outlined in the PME Plan, a five-year post-injection monitoring period was established to evaluate the overall effectiveness of the in situ injection corrective measure. The factors specified in 40 CFR §257.97(d) were considered in developing the five-year monitoring period; this monitoring period is expected to allow time for the effect of the in situ injection along with the closure of the Neal South Monofill (including capping and installation/operation of a leachate collection system) to be evaluated.

The following Sections evaluate monitoring data obtained from the upgradient/background well network (Section 4.1), the MW-2 Area (Section 4.2), and the MW-10 Area (Section 4.3). Data obtained to date represents the full five years of the five-year evaluation period, with the first year representative of disturbed subsurface conditions. PME water quality data are provided in Appendix B. A Mann-Kendall statistical analysis of the dataset was performed to provide an objective evaluation of trends for each area with outputs presented in Appendix C. Appendix C.1 represents the overall trends since injection in 2020. Additional statistical analyses were completed for the 2022 to 2025 timeline to characterize the most recent groundwater concentrations. This analysis is in Appendix C.2.

4.1 Upgradient and Background Concentrations

Spatial and temporal variability of arsenic concentrations in the upgradient, background wells (MW-16, MW-17, and MW-18) is evident as discussed in the annual groundwater monitoring and corrective action reports (GHD, 2020d, 2021, 2022a, 2023a, 2024a, 2025a, 2026). In the initial evaluation of the baseline data (GHD, 2020d), the presence of spatial variability among Neal South Monofill background wells (MW-16, MW-17, and MW-18) was evident for many detected constituents. The spatial variability affects inter-well comparisons for downgradient wells since observed differences between downgradient and upgradient conditions could be due to natural variability or could be due to

effects of the Neal South Monofill. An inter-well comparison alone could not distinguish between these two possibilities.

During the corrective action planning and injection, the site-specific GWPS for arsenic was 0.0224 mg/L. Initially, the background arsenic data set consisted of groundwater samples collected between October 2018 and September 2022 at upgradient wells MW-16, MW-17, and MW-18. Arsenic data were combined from the three upgradient wells to calculate the background value. A total of 48 results (16 results per well) were available, with a 33% non-detect rate (MW-16 arsenic concentrations were all non-detect).

To further evaluate arsenic background monitoring locations, MW-16, MW-17, and MW-18 data were graphed on Figures 3.1 through 3.3. Monitoring well MW-18 historically showed variability in arsenic concentrations below the GWPS, however, the sampling result from March 2021 showed an increase in arsenic (Figure 3.3). The March 2021 arsenic result was identified as a potential high outlier (GHD, 2022a), but there was no identified basis for a likely error or discrepancy to warrant removal of the sample result from the evaluation. The September 2021 sample showed a decrease in the arsenic concentration at MW-18. The March 2022 and September 2022 arsenic results from MW-18 were generally consistent with the September 2021 result. As a result, the background arsenic concentration was recalculated, removing the March 2021 arsenic result as a high outlier. A Regional Kendall trend test case was conducted to evaluate the trend in the data set and an increasing trend was identified in the pooled arsenic data.

Arsenic data at upgradient wells MW-16, MW-17, and MW-18 were identified with a statistically significant trend over time (violating the stationarity assumption of the tolerance limit calculations), therefore a recent period was selected that represented a more stable condition. The calcium and sulfate concentrations (Figures 3.1, 3.2, and 3.3) continue to show increasing patterns in concentrations during the post-injection period, however, due to the spatial separation between injection locations and MW-18 the increase is not attributed to injection activities.

Due to continued variability in background water quality near the Neal South Monofill, an update to the site-specific GWPS for arsenic was warranted for this reporting period. The arsenic UTL was calculated using data from January 2019 through September 2025 (with the exception of the potential outlier datapoint for March 2021 arsenic at MW-18) to reflect the changing upgradient conditions and avoid a trend in the data set. The combined data set consisted of 53 arsenic analyses (34% of which were non-detect) and did not have a statistically significant trend. Therefore, this data set was used to calculate an updated GWPS for arsenic. Calculations were completed using EPA's ProUCL software. The 95/95 UTL was recalculated as 0.0667 mg/L and the 99/95 UTL was recalculated as 0.155 mg/L. For purposes of the 2025 PME, both the original site-specific GWPS (0.0224 mg/L) and the 2025 updated site-specific GWPS (0.0667 mg/L) values are considered.

4.2 MW-2 Area Evaluation

Figures 3.4 through 3.11 provide stacked trend charts for groundwater elevation and turbidity above arsenic, calcium, and sulfate concentrations for the MW-2 area (MW-2, MW-26, MW-28, MW-30, MW-32, MW-33, MW-34, and MW-36). Figure 1.2 shows the monitoring locations. Table 1 provides a summary of key observations related to the performance monitoring data collected to date for the MW-2 area; analytical results and trend analyses are provided in Appendices B and C, respectively.

Table 1 MW-2 Area Mann-Kendall Trend Analysis Summary for Arsenic.

Monitoring Well (September 2025 Arsenic Result)	Mann-Kendall Trend (0.95 Confidence)		Comparison to SS-GWPS of 0.0224 mg/L	Comparison to SS-GWPS of 0.0667 mg/L	Observation(s)
	2020-2025	2022-2025			
MW-2 (0.0165 mg/L)	Decreasing	No trend identified	Below in September 2025	Below in September 2025	MW-2 had a sharp increase in arsenic concentration following the corrective measures injection (Figure 3.4). The arsenic concentration has been below the pre-corrective measures concentration for the last nine sampling events.
MW-26 (<0.00200 mg/L)	No trend identified	No trend identified	Below in September 2025	Below in September 2025	MW-26 remains non-detect for arsenic (Figure 3.5).
MW-28 (0.0194 mg/L)	Decreasing	No trend identified	Below in September 2025	Below in September 2025	MW-28 continued an upward trend for one sampling event following the injection but trended to below the site-specific GWPS of 0.0667 mg/L for the next thirteen events (Figure 3.6). Except September 2024, MW-28 has consistently been below the original site-specific GWPS (0.0224 mg/L) since September 2022.
MW-30 (0.0584 mg/L)	No trend identified	No trend identified	Above in September 2025	Below in September 2025	MW-30 exhibited variability in arsenic concentrations since the injection, with the most recent result above the original site-specific GWPS (0.0224 mg/L) and below the updated site-specific GWPS (0.0667 mg/L) (Figure 3.7).
MW-32 (0.0241 mg/L)	Increasing	No trend identified	Above in September 2025	Below in September 2025	MW-32 was above the original site-specific GWPS (0.0224 mg/L) but below the updated site-specific GWPS (0.0667 mg/L) for arsenic (Figure 3.8). The last three sampling events have decreased to levels last observed in 2022.
MW-33 (0.0052 mg/L)	No trend identified	No trend identified	Below in September 2025	Below in September 2025	MW-33 continued an upward trend for one sampling event following the injection and decreased to below the original and update site-specific GWPS for arsenic (Figure 3.9).
MW-34 (0.0236 mg/L)	No trend identified	Decreasing	Above in September 2025	Below in September 2025	MW-34 remained below the site-specific GWPS for arsenic of 0.0667 mg/L (Figure 3.10). Except for September 2025, concentrations have been decreasing since March 2023.
MW-36 (0.0101 mg/L)	No trend identified	Decreasing	Below in September 2025	Below in September 2025	MW-36 exhibited variable arsenic concentrations but remained below the site-specific GWPS for arsenic of 0.0667 mg/L (Figure 3.11). Since March 2023, concentrations have been decreasing.
Note: SS-GWPS – Site-specific groundwater protection standard.					

4.3 MW-10 Area Evaluation

Figures 3.12 through 3.18 provide stacked trend charts for groundwater elevation and turbidity above arsenic, calcium, and sulfate concentrations for the MW-10 area (MW-10, MW-43, MW-49, MW-50, MW-51, MW-52, and MW-53). Figure 1.2 shows the monitoring locations. Table 2 provides a summary of key observations related to the performance monitoring data collected to date for the MW-10 area.

Table 2 MW-10 Area Mann-Kendall Trend Analysis Summary for Arsenic.

Monitoring Well (September 2025 Arsenic Result)	Mann-Kendall Trend (0.95 Confidence)		Comparison to SS-GWPS of 0.0224 mg/L	Comparison to SS-GWPS of 0.0667 mg/L	Observation(s)
	2020-2025	2022-2025			
MW-10 (0.0393 mg/L)	Decreasing	No trend identified	Above in September 2025	Below in September 2025	MW-10 showed a decreasing arsenic concentration trend following the injection event (Figure 3.12) and has been consistently below the updated site-specific GWPS (0.0667 mg/L).
MW-43 (0.0746 mg/L)	No trend identified	No trend identified	Above in September 2025	Above in September 2025	MW-43 maintained pre-injection arsenic concentrations for one event, had a steep decline in arsenic concentration from October 2020 to March 2021, and has been above the updated GWPS since September 2021 (Figure 3.13).
MW-49 (0.0471 mg/L)	No trend identified	No trend identified	Above in September 2025	Below in September 2025	MW-49 remained relatively consistent following the injection event with a slight decrease in arsenic concentrations following the injection event. Arsenic concentrations have been variable, but remained below the updated site-specific GWPS of 0.0667 mg/L (Figure 3.14).
MW-50 (<0.00200 mg/L)	Decreasing	Decreasing	Below in September 2025	Below in September 2025	MW-50 arsenic concentrations decreased following the injection and remain relatively consistent (Figure 3.15).
MW-51 (0.00469 mg/L)	No trend identified	No trend identified	Below in September 2025	Below in September 2025	MW-51 arsenic concentrations remained relatively consistent for three events following the injection, however results then increased for the next 6 sampling events, exceeding the updated GWPS (0.0667 mg/L) once in March 2023. After this, concentrations began to decrease with a steep decline in September 2024. The last five sampling events have been below the GWPS for arsenic (Figure 3.16).
MW-52 (<0.00200 mg/L)	No trend identified	Decreasing	Below in September 2025	Below in September 2025	MW-52 remained below the updated site-specific GWPS for arsenic following the injection and only 1 of 14 results since injection is above the original GWPS (Figure 3.17).
MW-53 (<0.00200 mg/L)	No trend identified	No trend identified	Below in September 2025	Below in September 2025	MW-53 remained below both site-specific GWPSs for arsenic following the injection (Figure 3.18).
Note: SS-GWPS – Site-specific groundwater protection standard.					

5. Summary and Recommendations

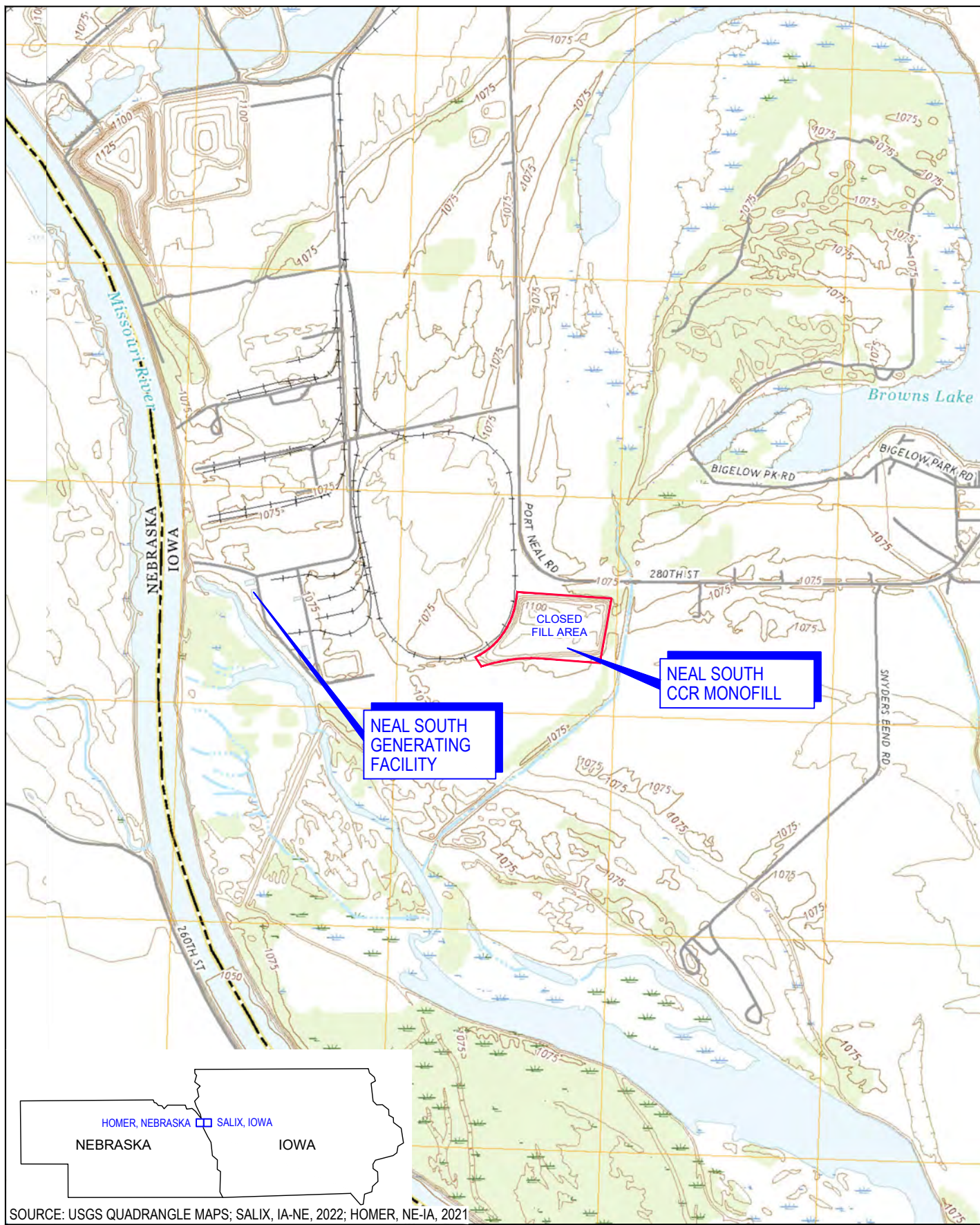
Arsenic concentrations measured during 2025 at the Neal South Monofill are below the updated site-specific GWPS for arsenic, with the exception of MW-30 (March 2025 only) in the MW-2 area and MW-43 (March and September 2025) in the MW-10 area. When evaluating the most recent data (collected from 2022 through 2025) no statistically significant increasing trends were identified. Distribution of calcium polysulfide in the subsurface is evident by increases in calcium and sulfate following the injections. The corrective measures applied produced the desired results but results at monitoring location MW-30 and MW-43 exceeded the GWPS at least once in 2025. The PME monitoring plan will be re-evaluated and updated based on the areas of impact and the potential for additional corrective measures will be considered.

Continued evaluation of upgradient, background concentrations of arsenic and other Appendix III and Appendix IV parameters will be completed in accordance with the requirements of 40 CFR §257.

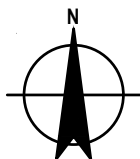
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- GHD, 2020a. Performance Monitoring Evaluation Plan for the Neal South CCR Monofill, Salix, Iowa. Permit No. 97-SDP-13-98P. June 3, 2020.
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- GHD, 2024b. Performance Evaluation Report, IDNR Permit 97-SDP-13-98P, EPA UIC ID No. IAS193260006, Neal South CCR Monofill, Salix, Iowa. January 31, 2024.
- GHD, 2025a. Annual Groundwater Monitoring and Corrective Actions Report for the Neal South CCR Monofill, Salix, Iowa. Permit No. 97-SDP-13-98C. January 31, 2025.

Figures



0 1000 2000 ft
1" = 2000 ft



MIDAMERICAN ENERGY COMPANY
NEAL SOUTH CCR MONOFILL
SALIX, IOWA

Project No. 12576485
Date November 2025

SITE LOCATION

FIGURE 1.1



MW-8

MW-7

MW-6

●

SHALLOW GROUNDWATER MONITORING WELL

●

DEEP GROUNDWATER MONITORING WELL

●

ABANDONED MONITORING WELL

UPGRADIENT SAMPLING LOCATION

DOWNGRADIENT SAMPLING LOCATION

GAUGING LOCATION

0

150

300 ft

1" = 300 ft

Coordinate System:
NA83 STATE PLANE
IOWA NORTH

N

GHD

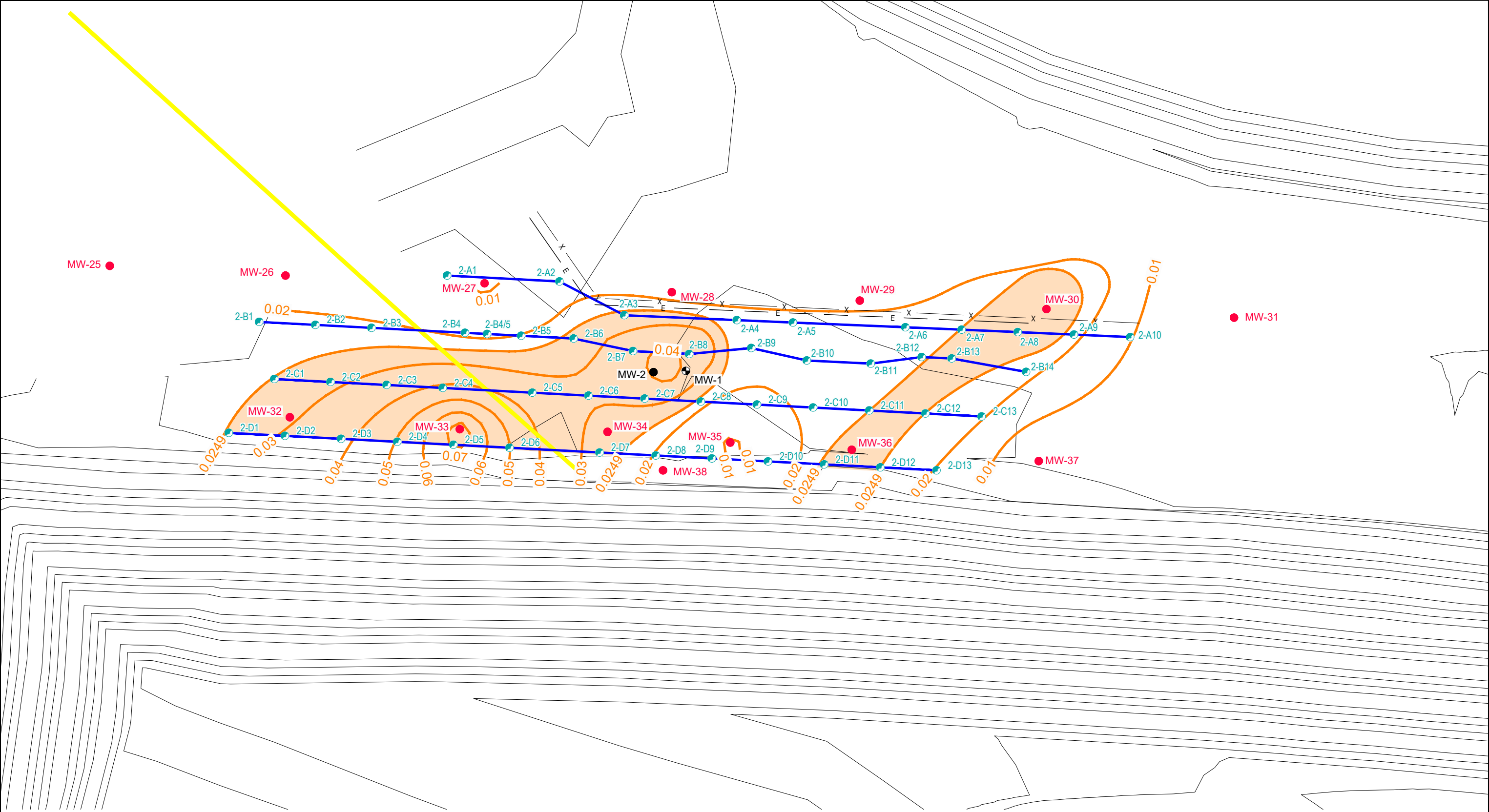
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SALIX, IOWA

SITE MAP AND MONITORING WELL
LOCATIONS

Project No. 12576485
Date November 2025

FIGURE 1.2

Filename: N:\US\Des Moines\Projects\5631\2576485\Digital_Design\ACAD\Figures\RPT009\12576485-GHD-00-00-RPT-EN-D102_DE-009.dwg
Plot Date: 26 November 2025 2:53 PM

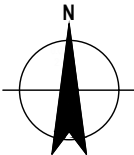


LEGEND

- MW-8 SHALLOW GROUNDWATER MONITORING WELL
- MW-7 DEEP GROUNDWATER MONITORING WELL
- PRE-DESIGN INVESTIGATION (SHALLOW MONITORING WELL)
- MW-6 ABANDONED MONITORING WELL
- INJECTION POINT
- AMMONIA PIPELINE (LOCATION APPROXIMATE)
- INJECTION TRANSECT
- 0.01 — DECEMBER 2019 ARSENIC CONCENTRATION CONTOUR (MG/L)
- X — FENCE LINE
- E — UNDERGROUND ELECTRICAL

0 25 50 ft

Coordinate System:
NA83 STATE PLANE
IOWA NORTH

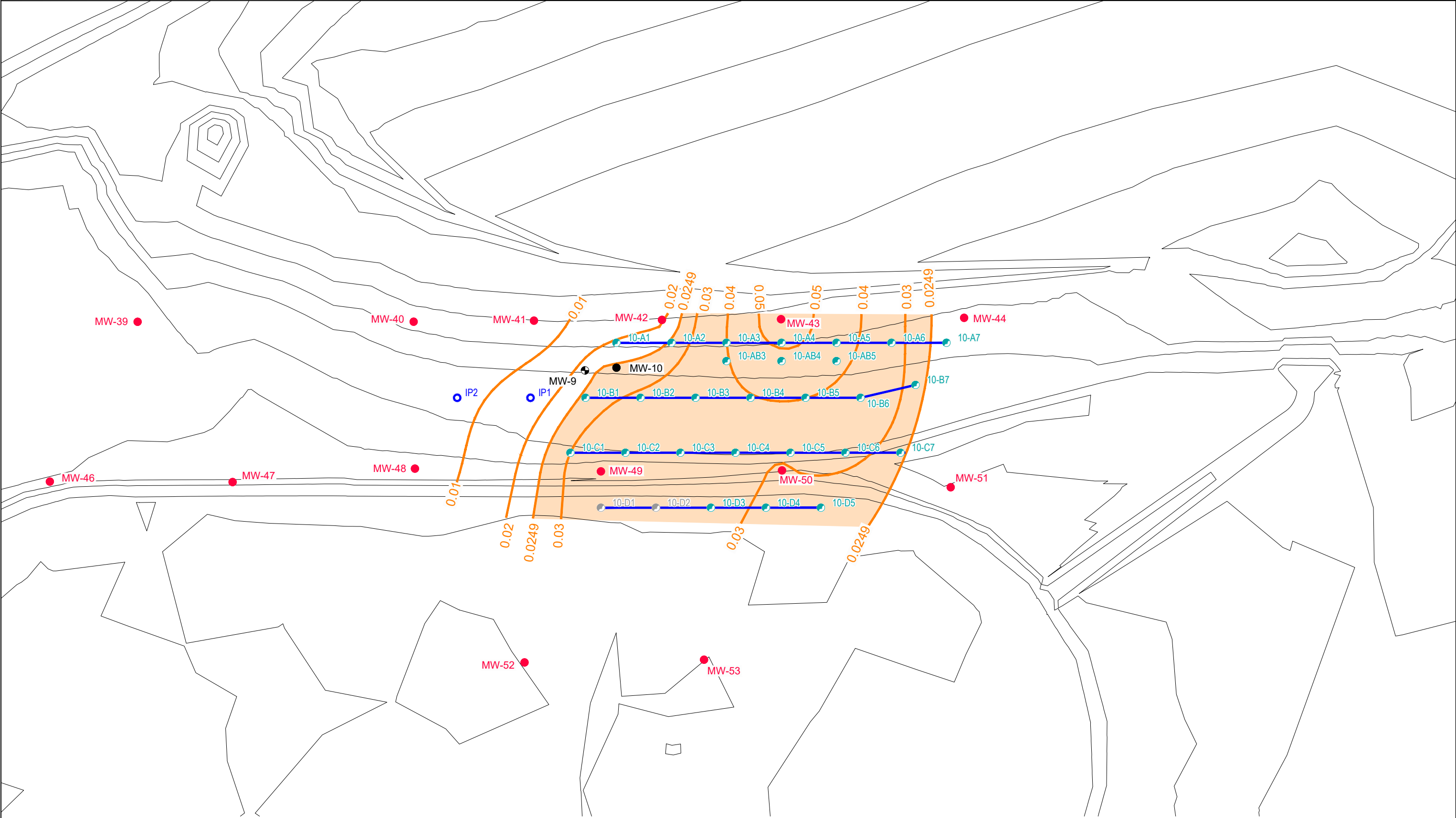


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NEAL SOUTH CCR MONOFILL
SALIX, IOWA

MW-2 AREA INJECTION TRANSECTS
(AUGUST 2020)

Project No. 12576485
Date November 2025

FIGURE 1.3



LEGEND

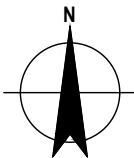
- MW-8 SHALLOW GROUNDWATER MONITORING WELL
- ⊕ MW-7 DEEP GROUNDWATER MONITORING WELL
- PRE-DESIGN INVESTIGATION (SHALLOW MONITORING WELL)
- MW-6 ABANDONED MONITORING WELL

- INJECTION POINT
- RINSE-WATER INJECTION LOCATION
- AMMONIA PIPELINE (LOCATION APPROXIMATE)
- INJECTION TRANSECT
- 0.01 — DECEMBER 2019 ARSENIC CONCENTRATION CONTOUR (MG/L)

NOTE:
INJECTIONS NOT COMPLETED AT 10-D1 AND 10-D2 DUE TO
DAYLIGHTING OF INJECTANT. 10-AB3, 10-AB4 AND 10-AB5 ADDED IN
PLACE OF 10-D1 AND 10-D2



Coordinate System:
NA83 STATE PLANE
IOWA NORTH

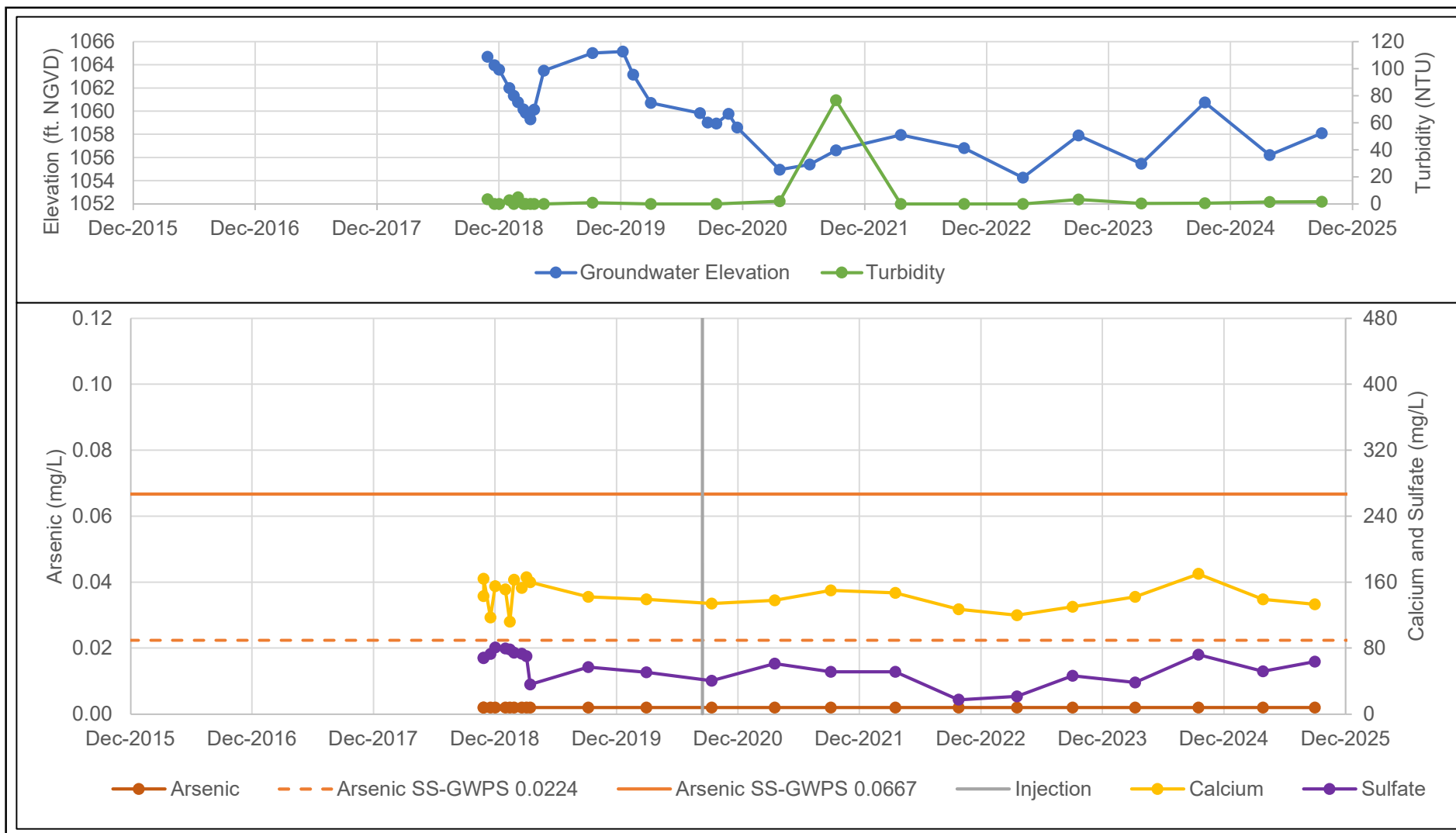


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NEAL SOUTH CCR MONOFILL
SALIX, IOWA

MW-10 AREA INJECTION TRANSECTS
(AUGUST 2020)

Project No. 12576485
Date December 2025

FIGURE 1.4



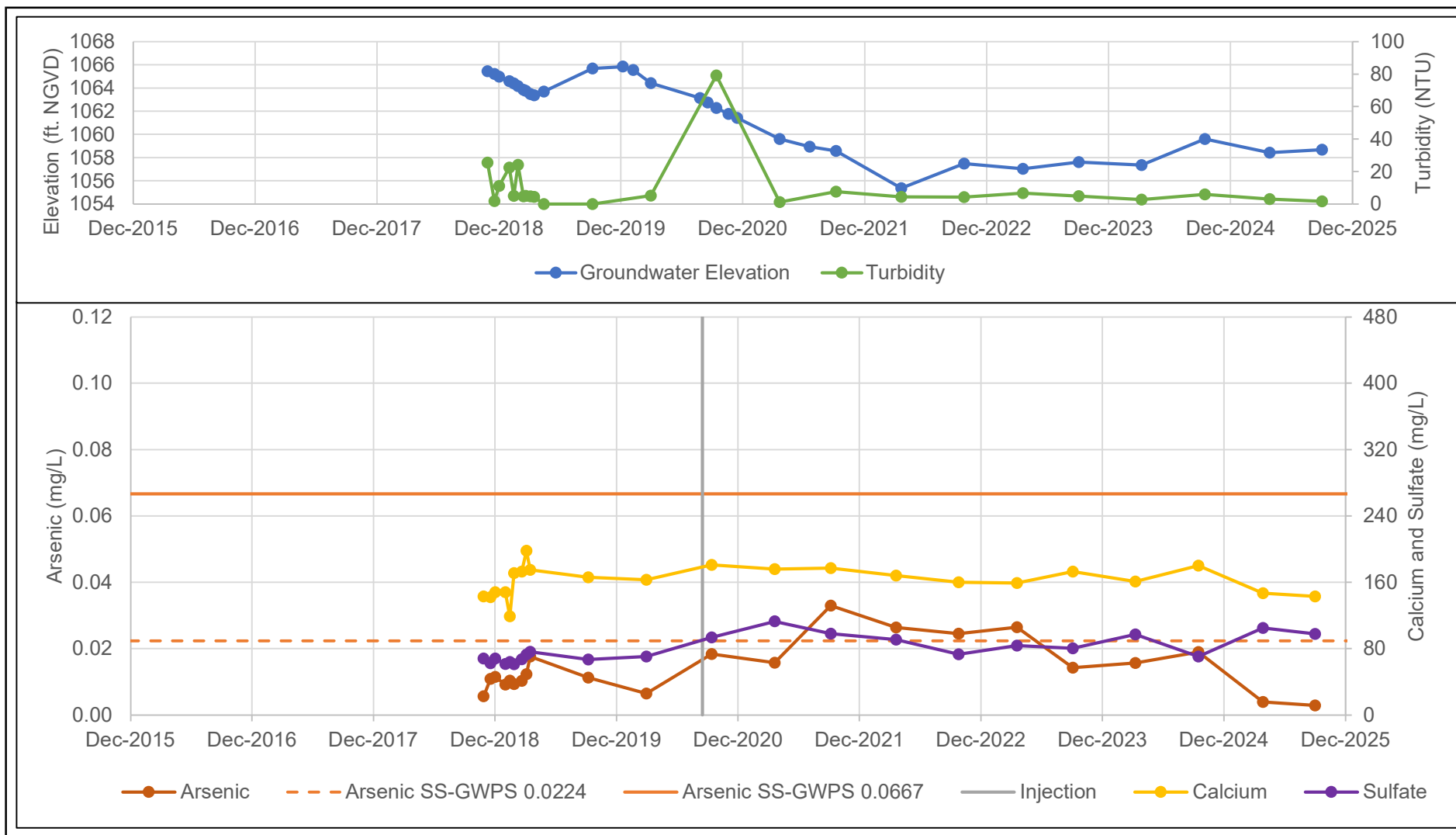
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NEAL SOUTH CCR MONOFILL
SALIX, IOWA

12576485

December 5, 2025

MW-16 PERFORMANCE MONITORING EVALUATION GRAPH

FIGURE 3.1



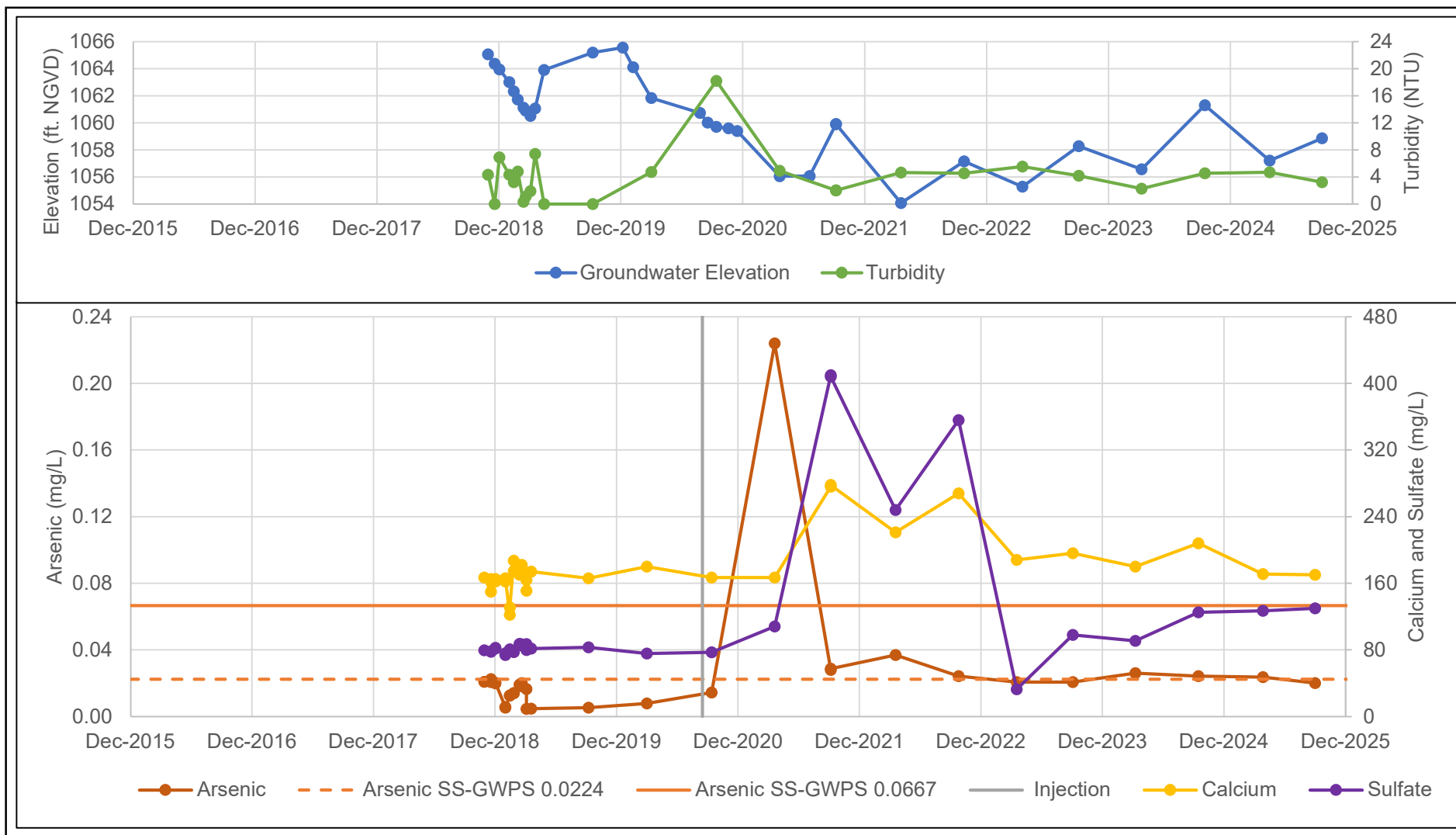
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December 5, 2025

MW-17 PERFORMANCE MONITORING EVALUATION GRAPH

FIGURE 3.2



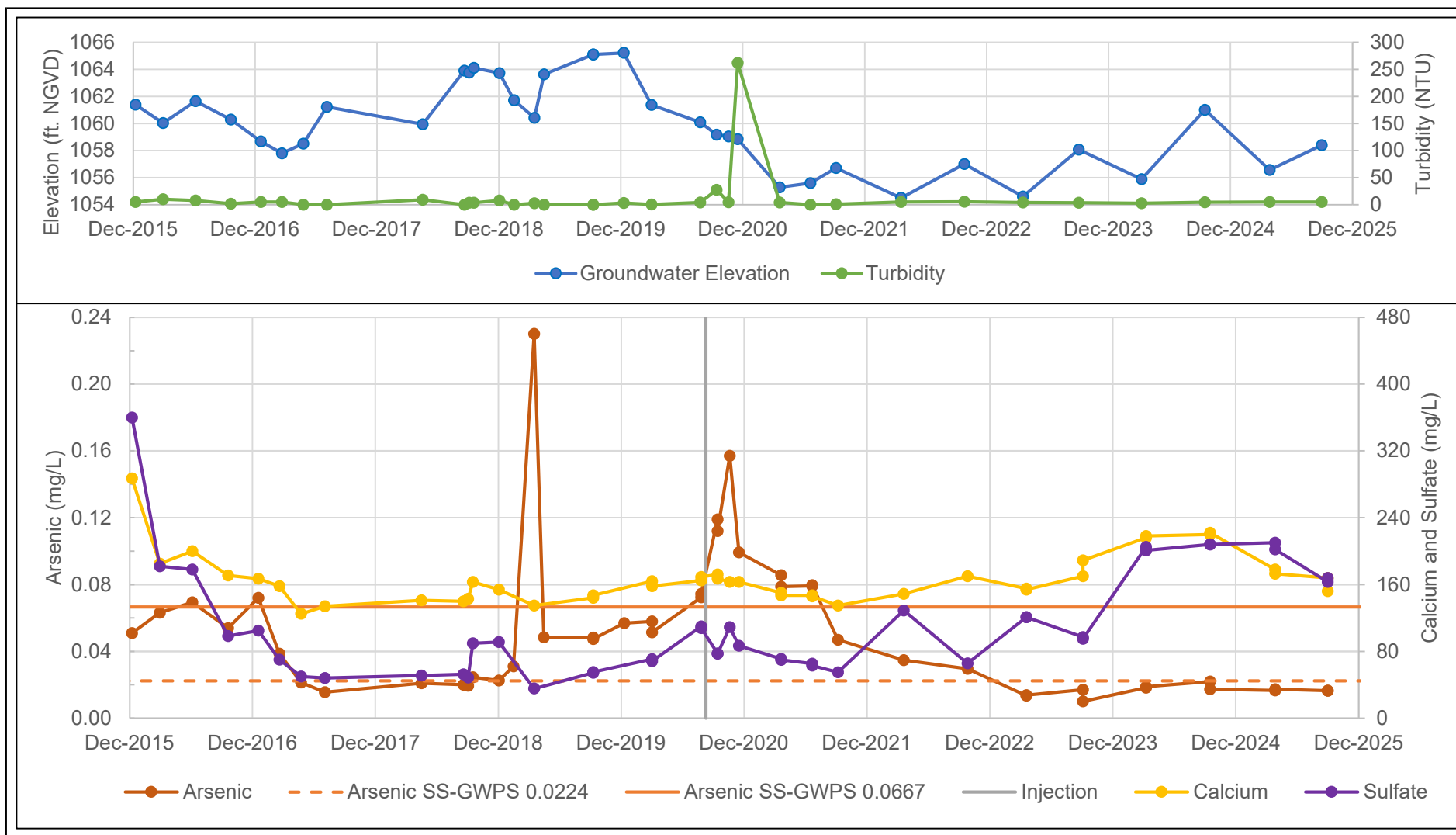
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December 5, 2025

MW-18 PERFORMANCE MONITORING EVALUATION GRAPH

FIGURE 3.3



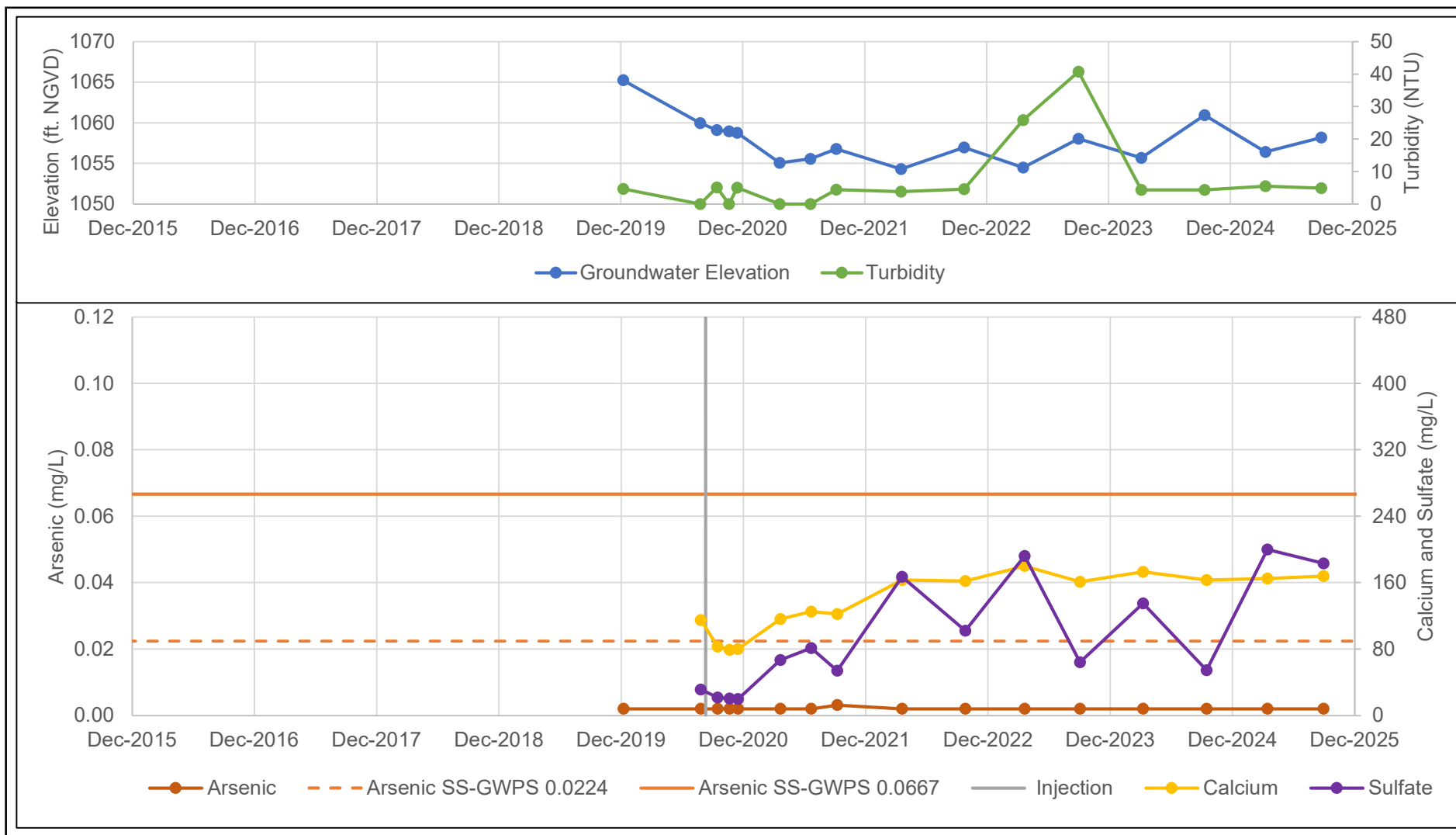
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December 5, 2025

MW-2 PERFORMANCE MONITORING EVALUATION GRAPH

FIGURE 3.4



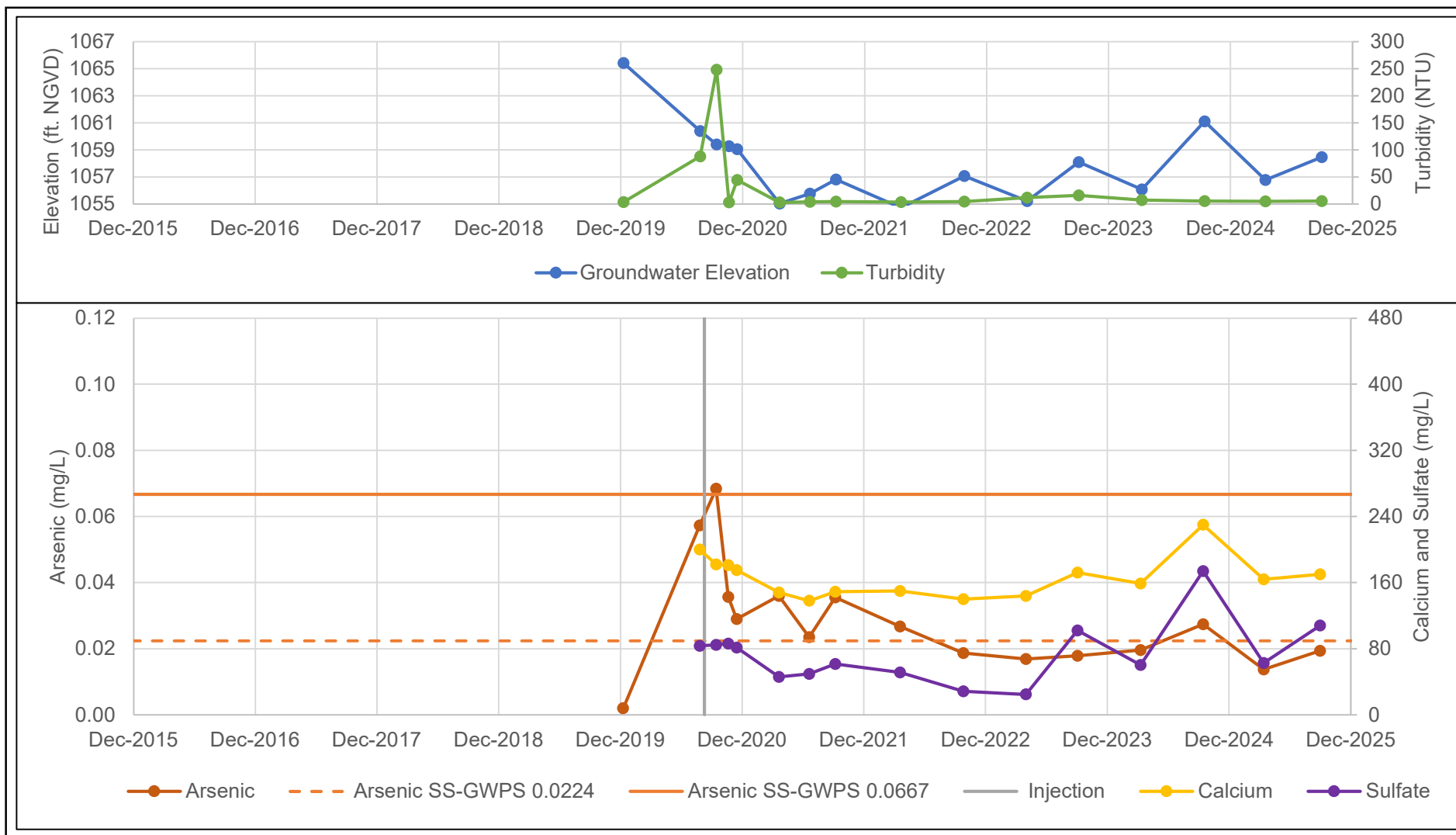
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December 5, 2025

MW-26 PERFORMANCE MONITORING EVALUATION GRAPH

FIGURE 3.5



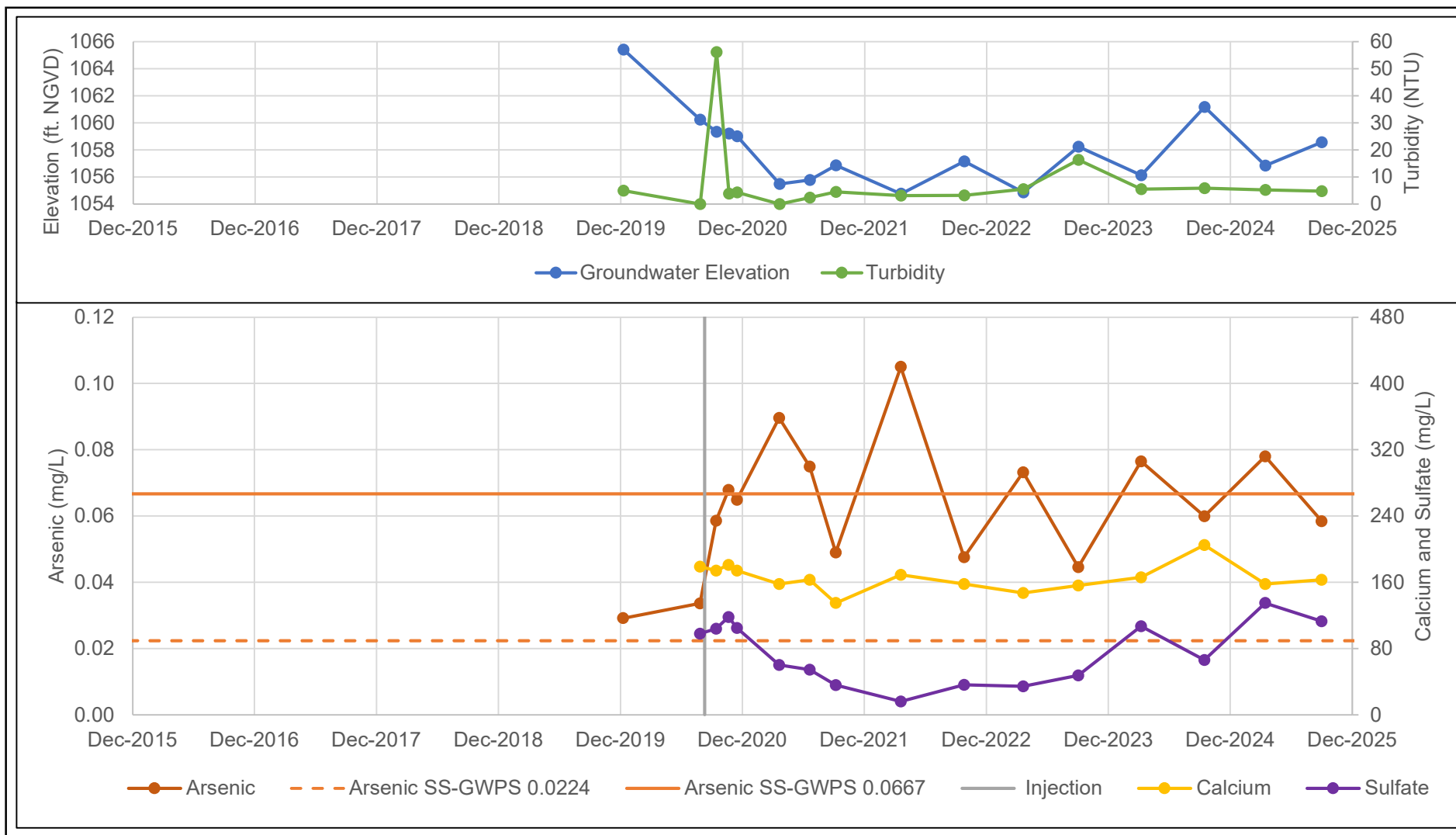
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NEAL SOUTH CCR MONOFILL
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December 5, 2025

MW-28 PERFORMANCE MONITORING EVALUATION GRAPH

FIGURE 3.6



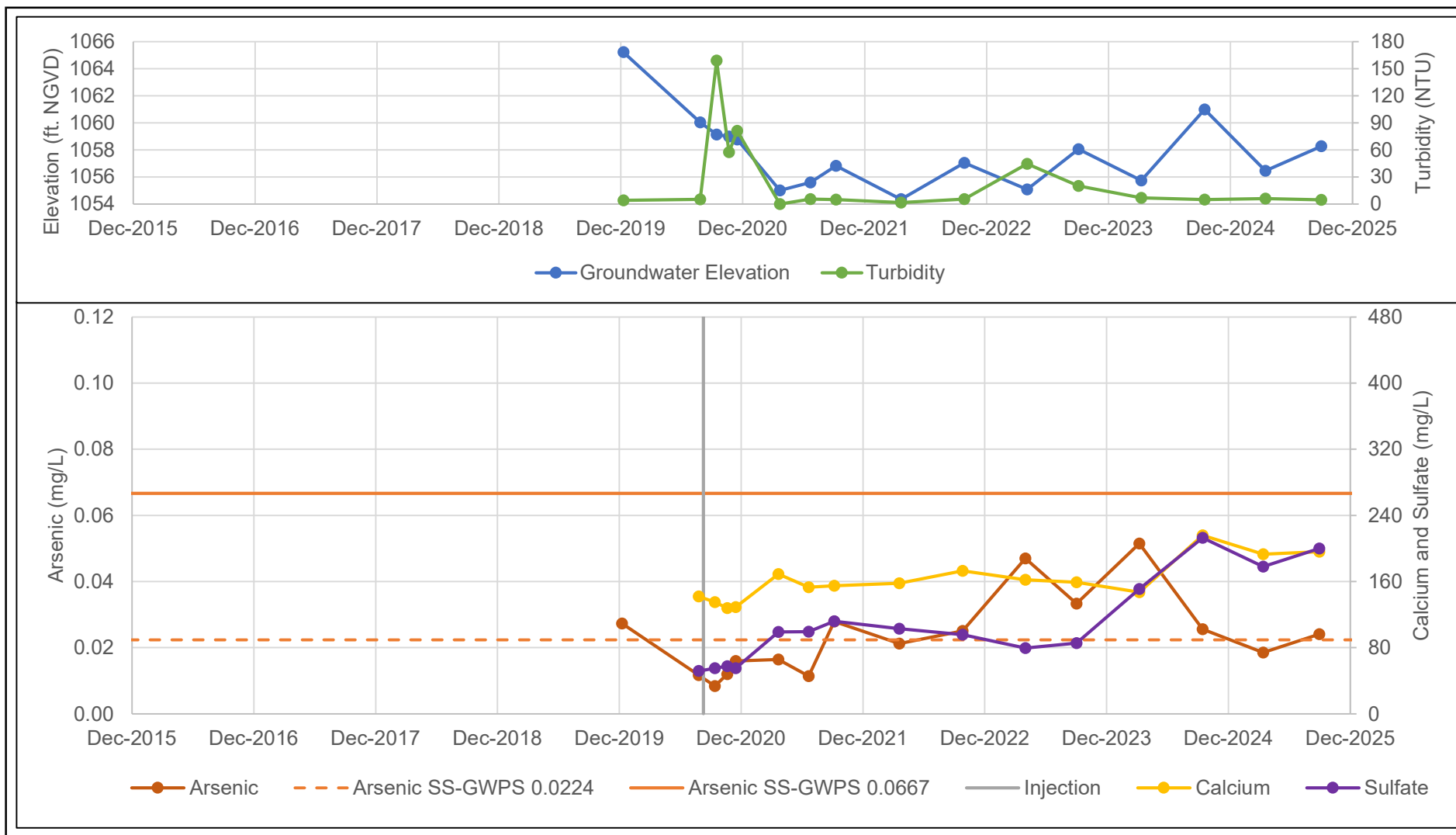
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December 5, 2025

MW-30 PERFORMANCE MONITORING EVALUATION GRAPH

FIGURE 3.7



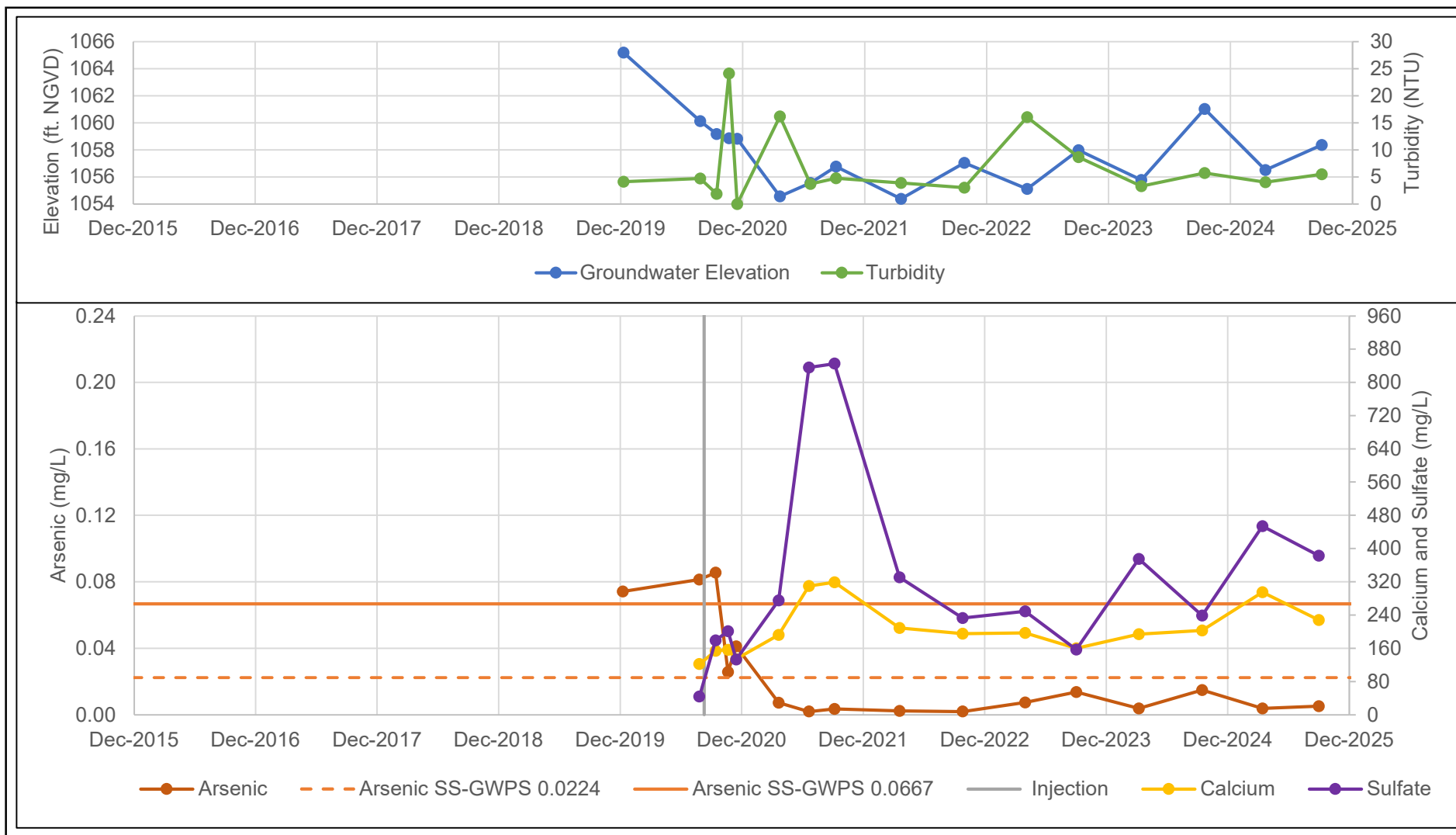
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NEAL SOUTH CCR MONOFILL
SALIX, IOWA

12576485

December 5, 2025

MW-32 PERFORMANCE MONITORING EVALUATION GRAPH

FIGURE 3.8



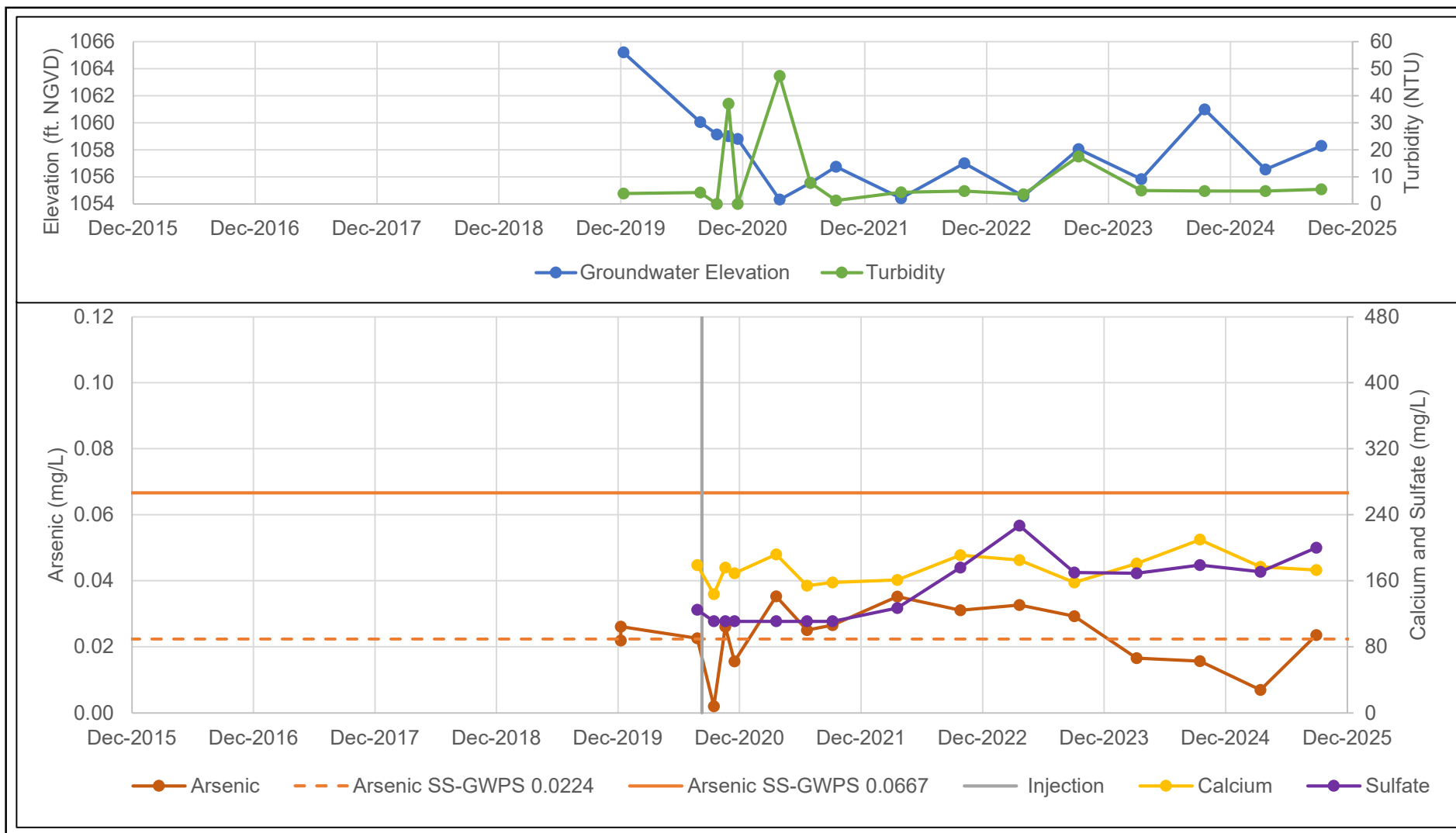
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MW-33 PERFORMANCE MONITORING EVALUATION GRAPH

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December 5, 2025

FIGURE 3.9



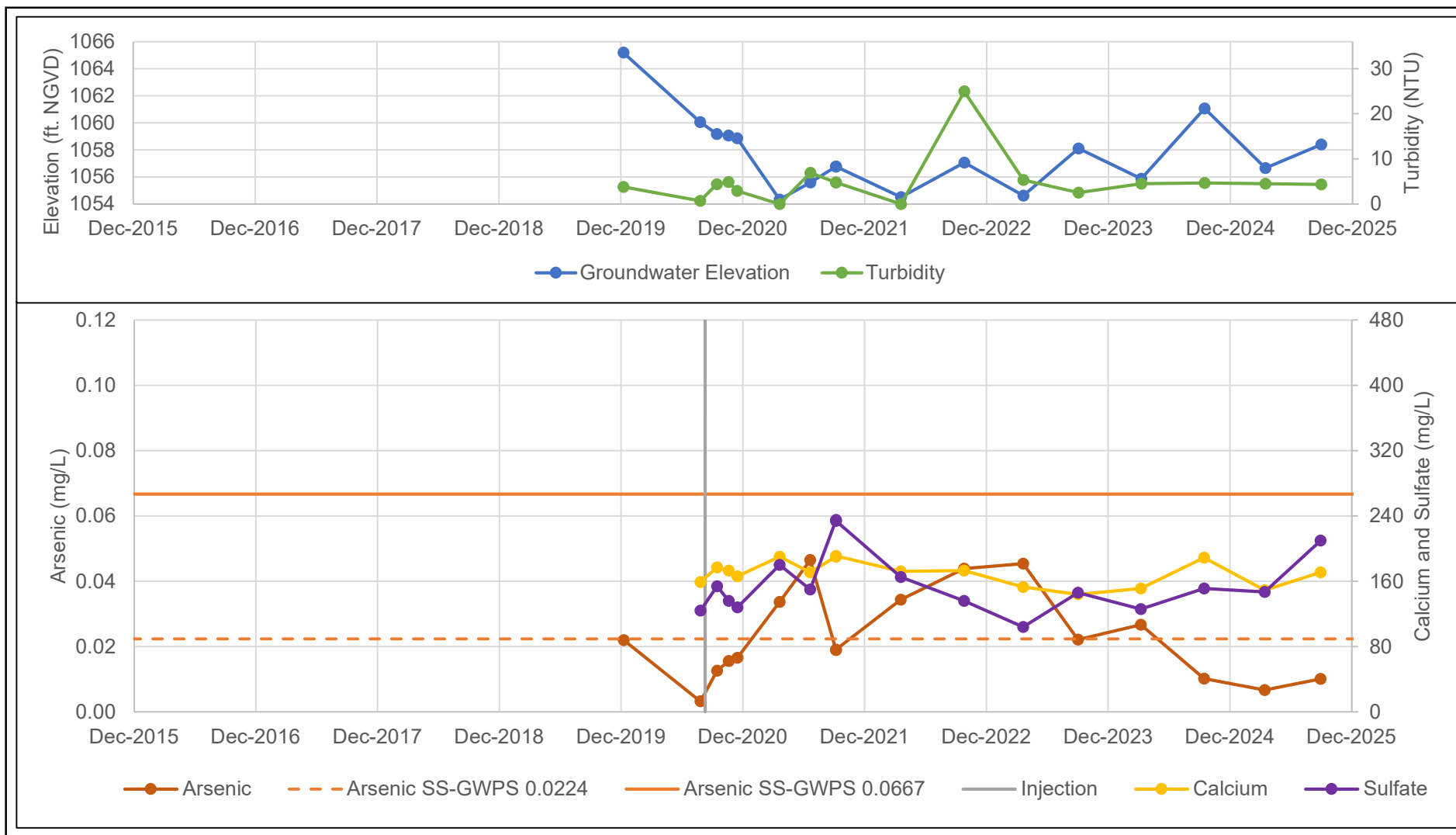
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NEAL SOUTH CCR MONOFILL
SALIX, IOWA

12576485

December 5, 2025

MW-34 PERFORMANCE MONITORING EVALUATION GRAPH

FIGURE 3.10



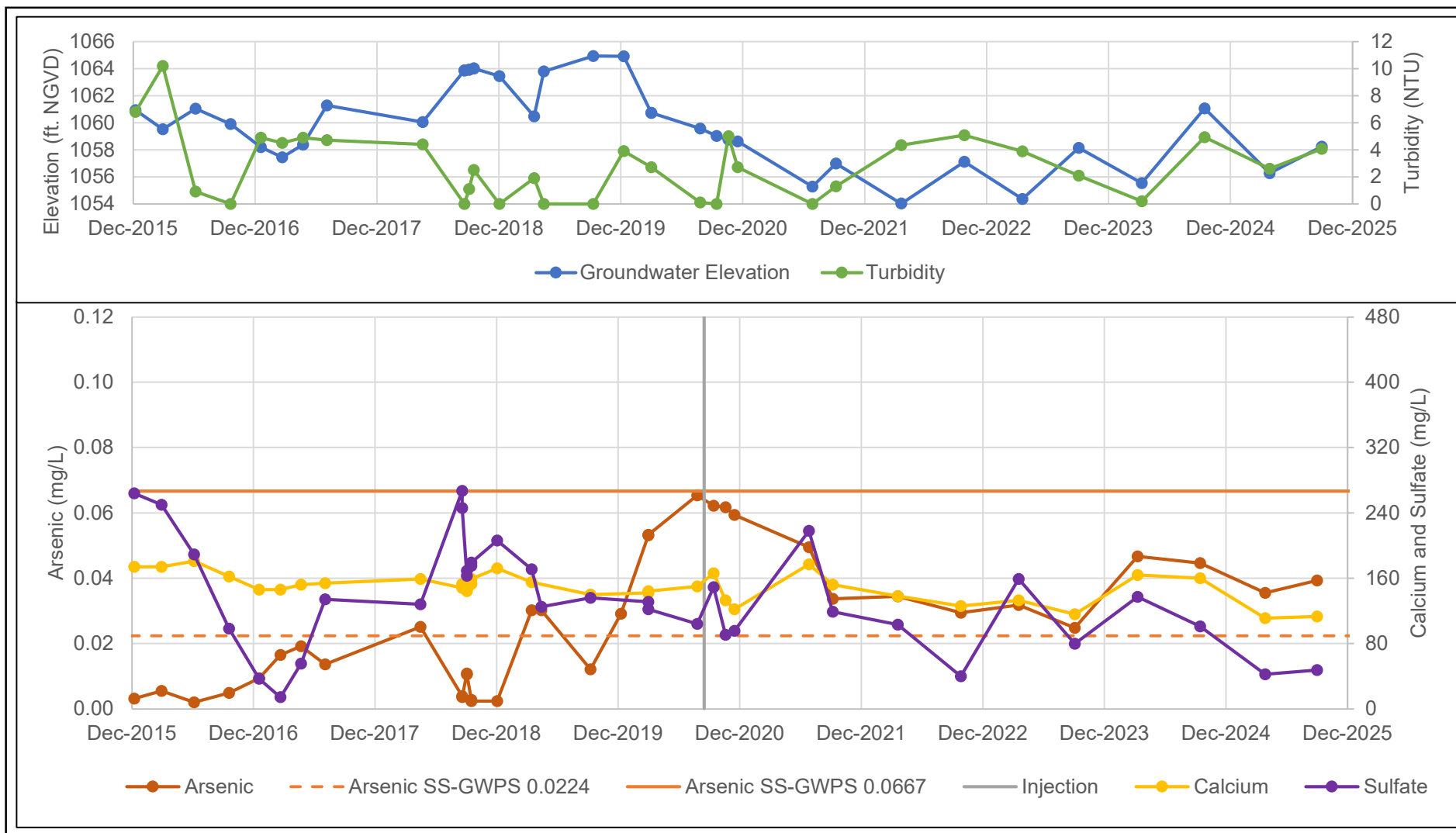
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NEAL SOUTH CCR MONOFILL
SALIX, IOWA

12576485

December 5, 2025

MW-36 PERFORMANCE MONITORING EVALUATION GRAPH

FIGURE 3.11



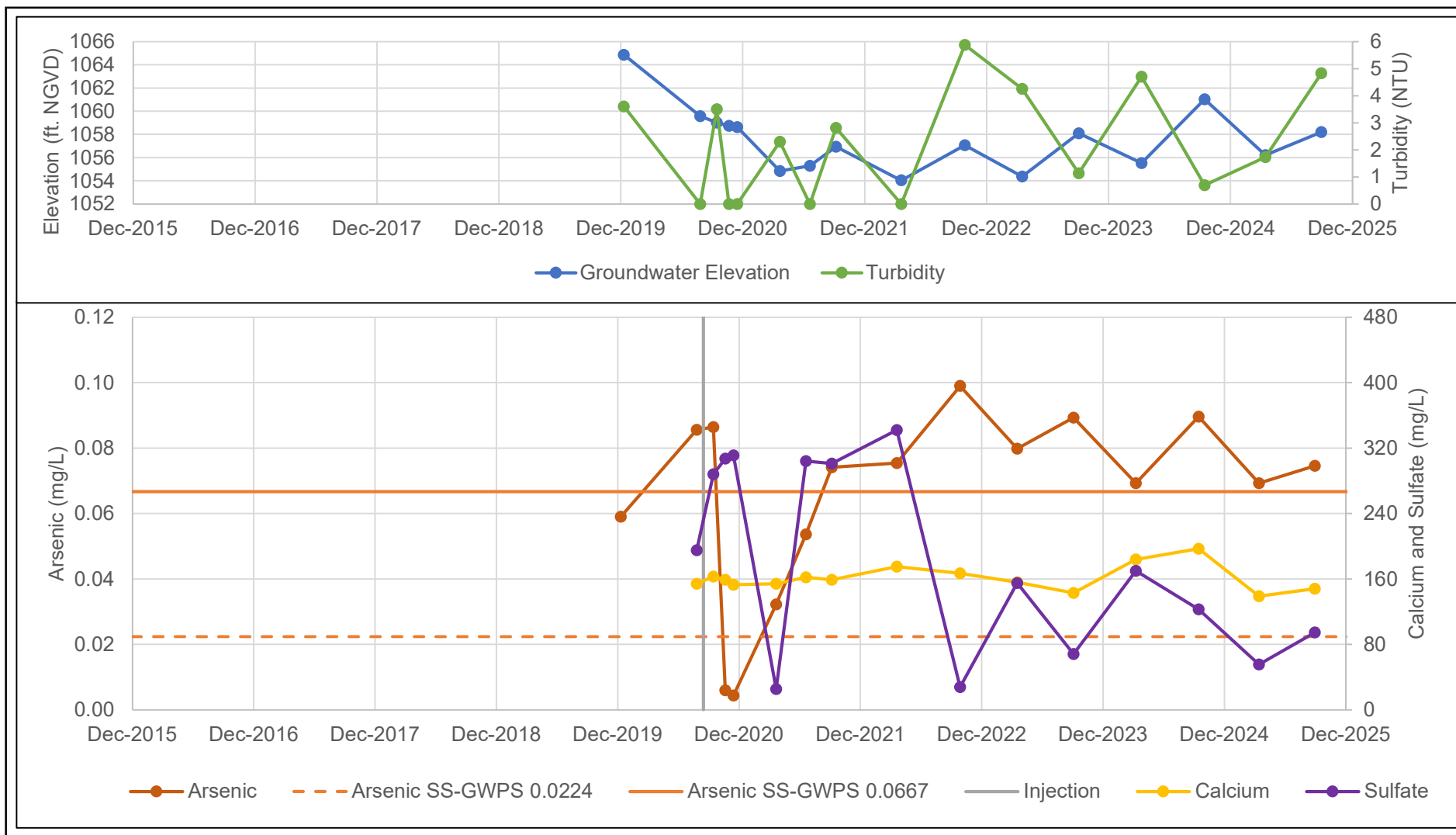
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12576485

December 5, 2025

MW-10 PERFORMANCE MONITORING EVALUATION GRAPH

FIGURE 3.12



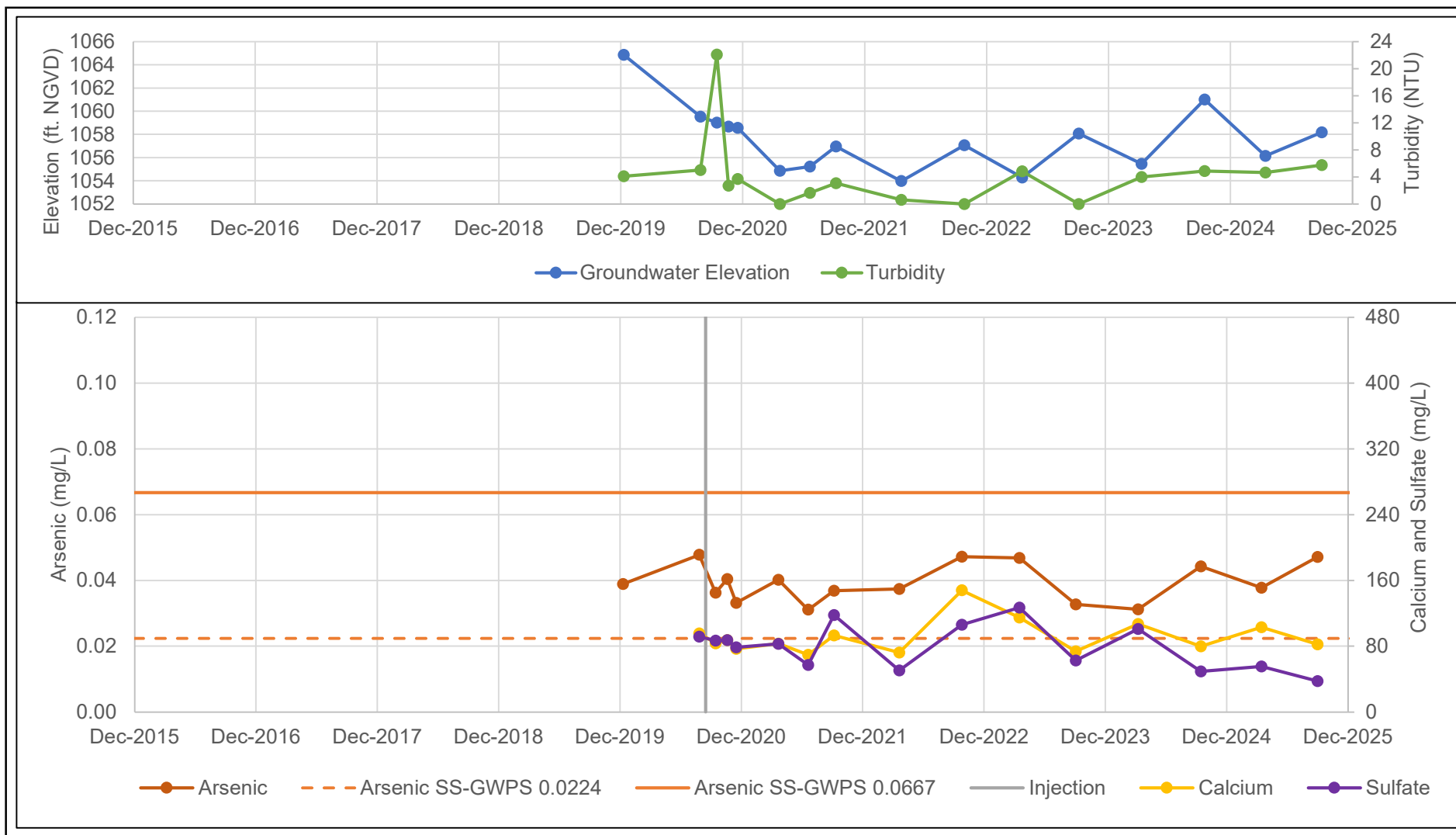
MIDAMERICAN ENERGY COMPANY
NEAL SOUTH CCR MONOFILL
SALIX, IOWA

12576485

December 5, 2025

MW-43 PERFORMANCE MONITORING EVALUATION GRAPH

FIGURE 3.13



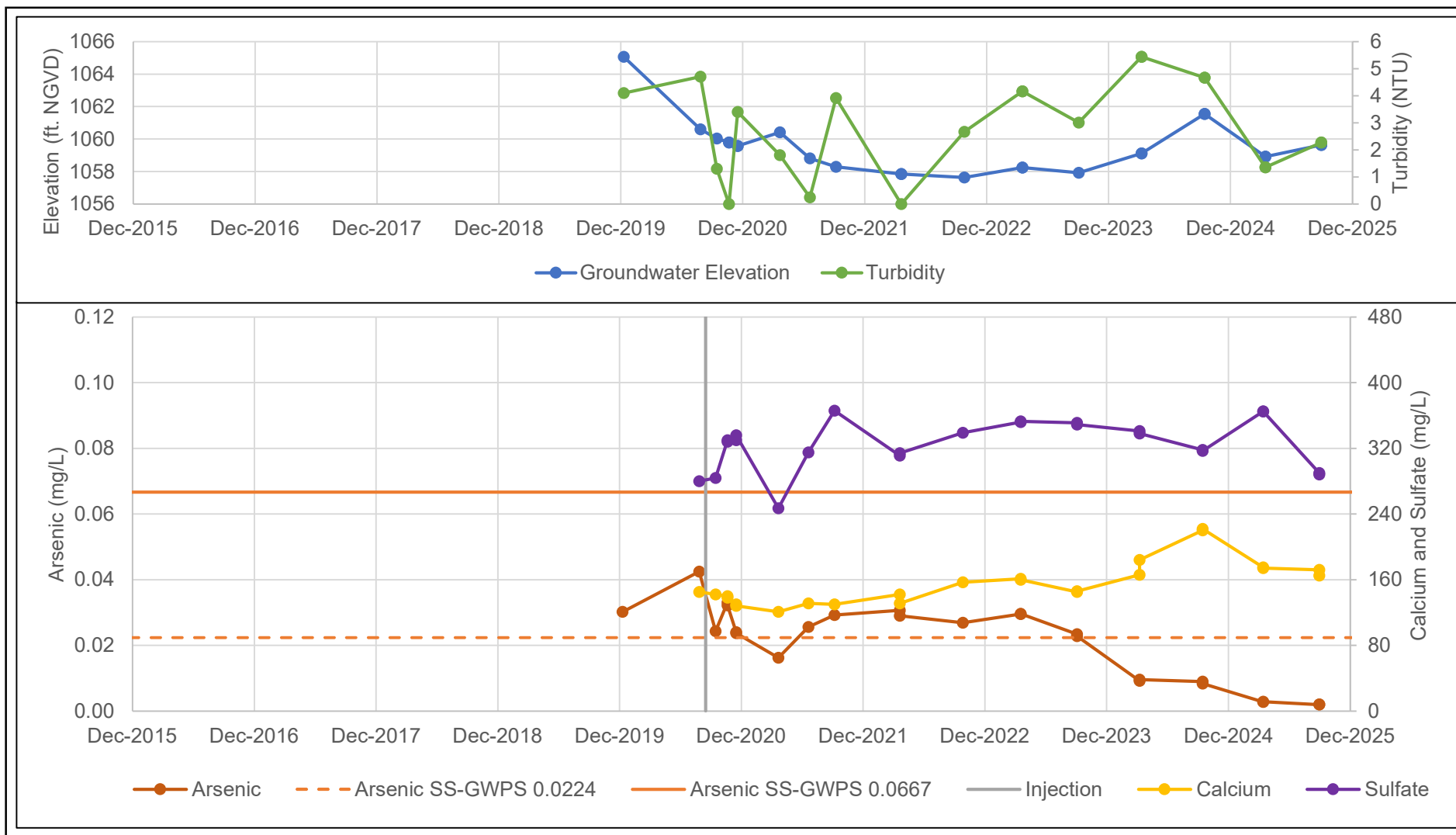
MIDAMERICAN ENERGY COMPANY
NEAL SOUTH CCR MONOFILL
SALIX, IOWA

12576485

December 5, 2025

MW-49 PERFORMANCE MONITORING EVALUATION GRAPH

FIGURE 3.14



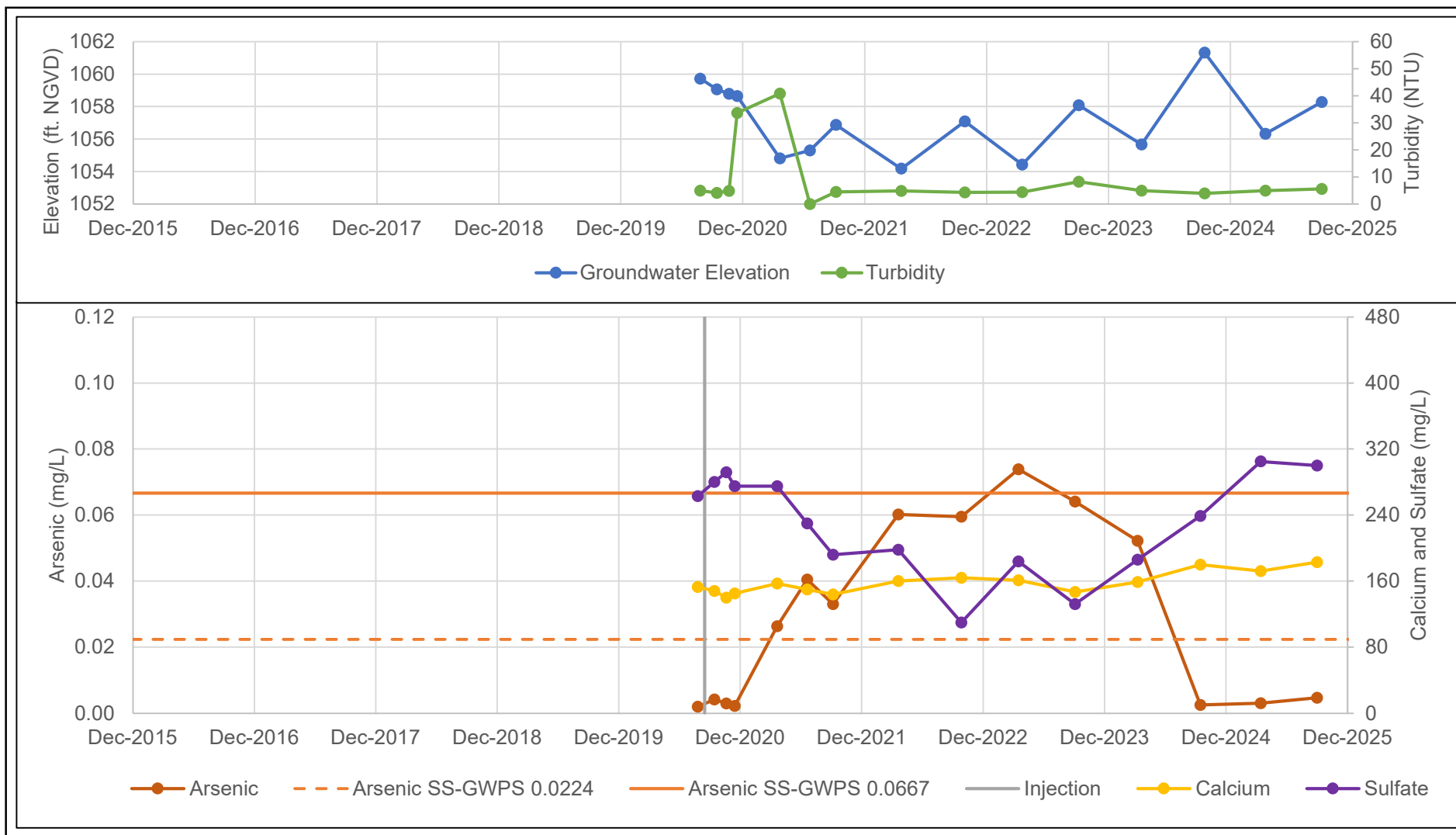
MIDAMERICAN ENERGY COMPANY
NEAL SOUTH CCR MONOFILL
SALIX, IOWA

12576485

December 5, 2025

MW-50 PERFORMANCE MONITORING EVALUATION GRAPH

FIGURE 3.15



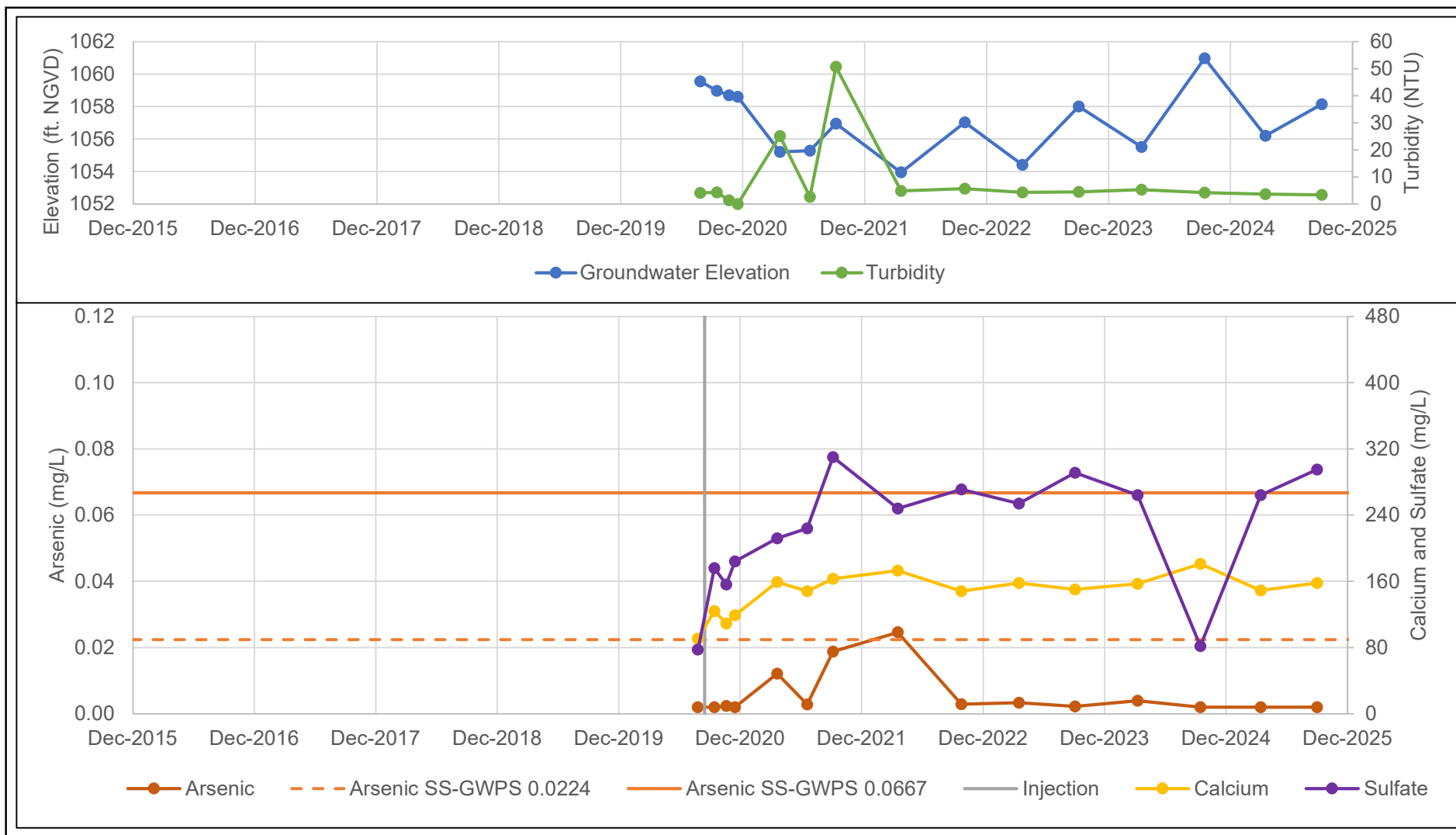
MIDAMERICAN ENERGY COMPANY
NEAL SOUTH CCR MONOFILL
SALIX, IOWA

12576485

December 5, 2025

MW-51 PERFORMANCE MONITORING EVALUATION GRAPH

FIGURE 3.16



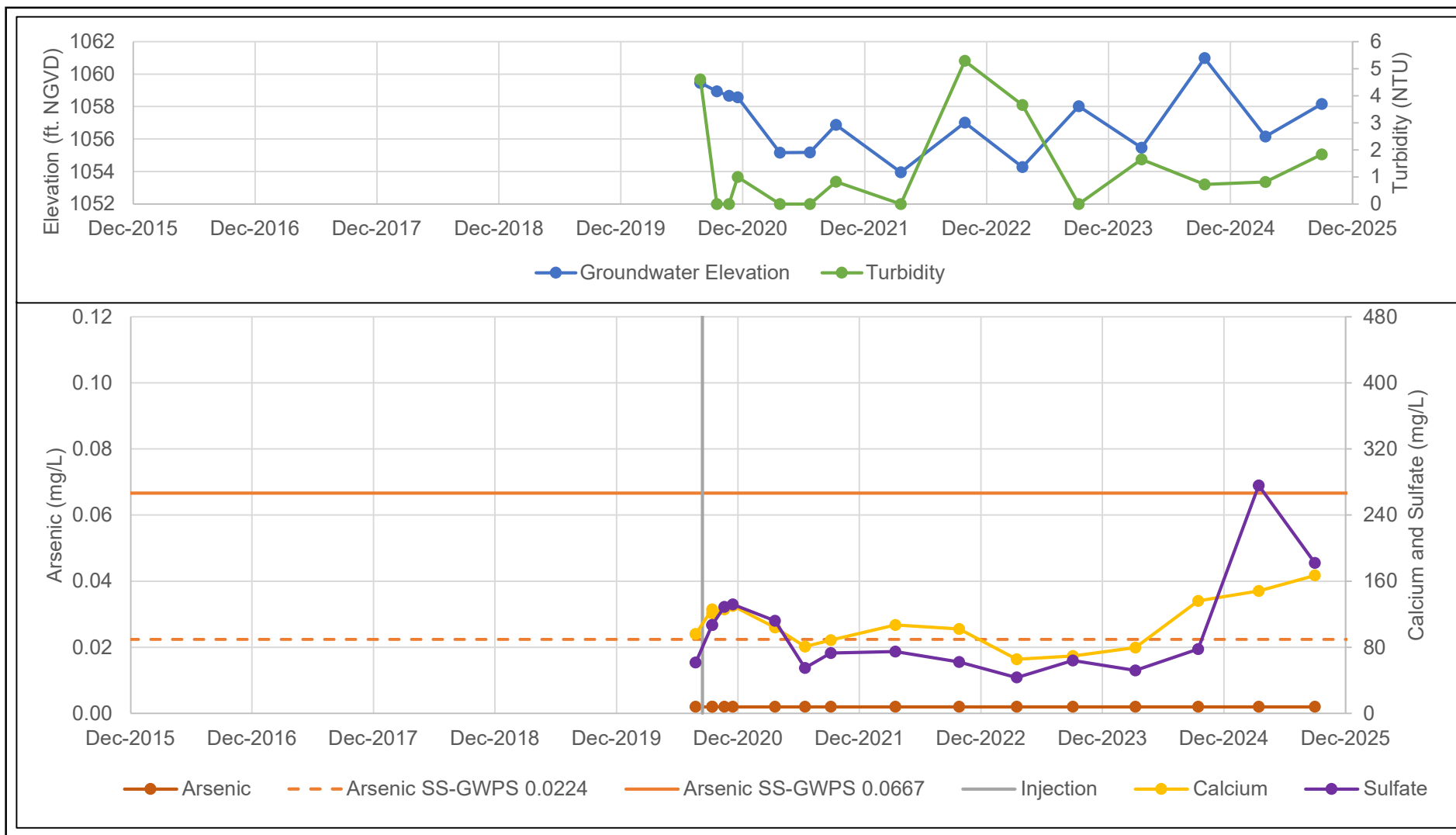
MIDAMERICAN ENERGY COMPANY
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SALIX, IOWA

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MW-52 PERFORMANCE MONITORING EVALUATION GRAPH

FIGURE 3.17



MIDAMERICAN ENERGY COMPANY
NEAL SOUTH CCR MONOFILL
SALIX, IOWA

12576485

December 5, 2025

MW-53 PERFORMANCE MONITORING EVALUATION GRAPH

FIGURE 3.18

Appendices

Appendix A

Groundwater Flow Maps for Corrective Action Monitoring Events



LEGEND

● MW-21 SHALLOW GROUNDWATER MONITORING WELL

● MW-7 DEEP GROUNDWATER MONITORING WELL

1056.16 GROUNDWATER ELEVATION

* NOT USED FOR CONTOURING

1056

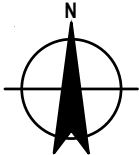
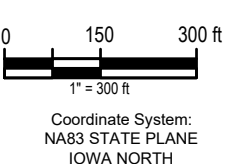
GROUNDWATER CONTOUR

GROUNDWATER FLOW DIRECTION

UPGRADIENT SAMPLING LOCATION

DOWNGRADIENT SAMPLING LOCATION

GAUGING LOCATION

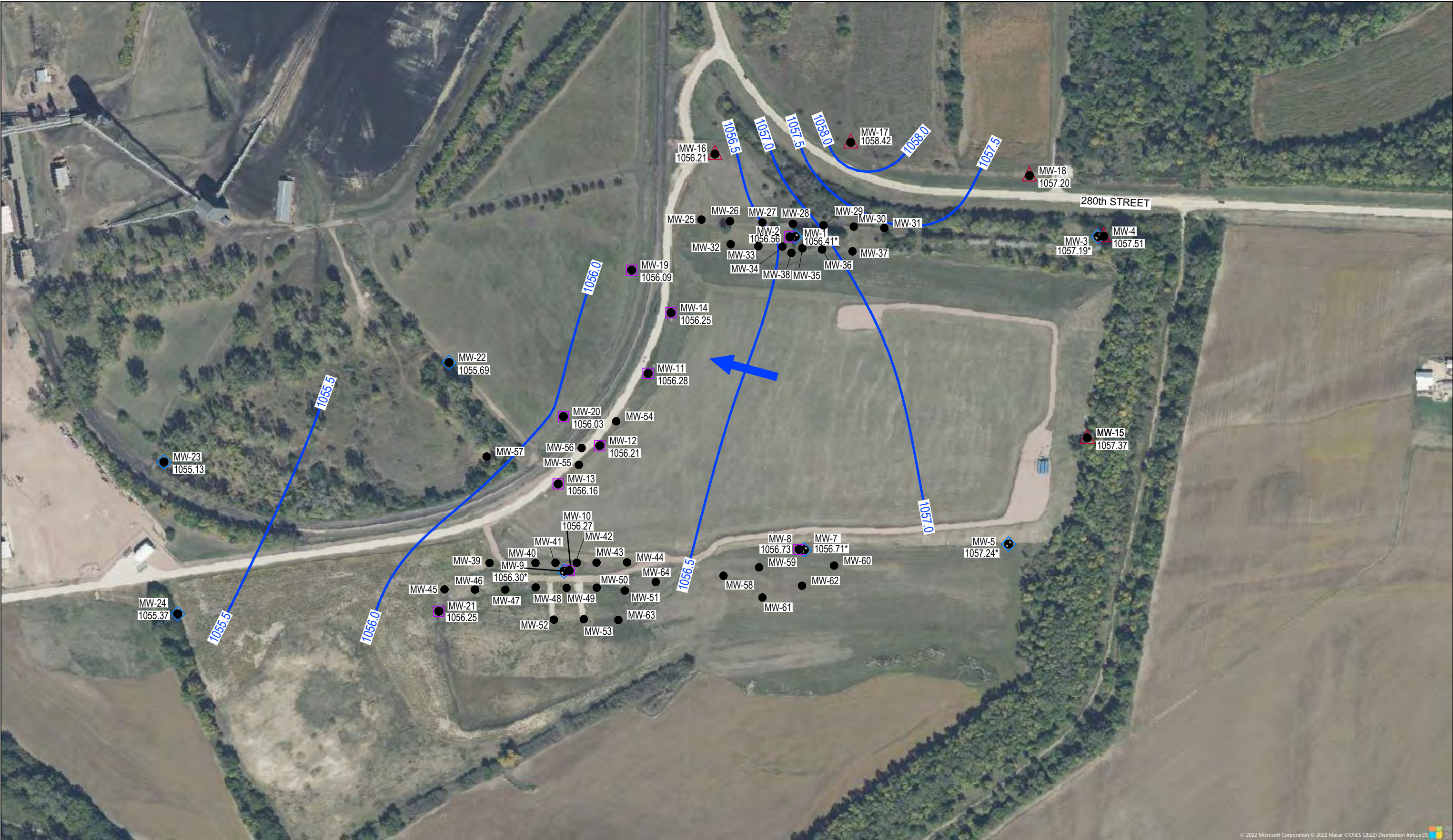


MIDAMERICAN ENERGY COMPANY
NEAL SOUTH CCR MONOFILL
SALIX, IOWA

SHALLOW ALLUVIAL GROUNDWATER
FLOW MAP - MARCH 18, 2025

Project No. 12576485
Date November 2025

FIGURE 3.1



● MW-21

● MW-7

1056.16

*

SHALLOW GROUNDWATER MONITORING WELL
DEEP GROUNDWATER MONITORING WELL
GROUNDWATER ELEVATION
NOT USED FOR CONTOURING

— 1056.0 —

→

△

□

GROUNDWATER CONTOUR
GROUNDWATER FLOW DIRECTION
UPGRADIENT SAMPLING LOCATION
DOWNGRADIENT SAMPLING LOCATION

◇

GROUNDWATER MONITORING WELL

0 150 300 ft

1" = 300 ft

Coordinate System:
NA83 STATE PLANE
IOWA NORTH

N

GHD

MIDAMERICAN ENERGY COMPANY
NEAL SOUTH CCR MONOFILL
SALIX, IOWA

SHALLOW ALLUVIAL GROUNDWATER
FLOW MAP - MARCH 31, 2025

Project No. 12576485
Date November 2025

FIGURE 3.2



● MW-21

● MW-7

1058.27

*

SHALLOW GROUNDWATER MONITORING WELL

DEEP GROUNDWATER MONITORING WELL

GROUNDWATER ELEVATION

NOT USED FOR CONTOURING

1058.5

→

GROUNDWATER CONTOUR

GROUNDWATER FLOW DIRECTION

△

□

UPGRADIENT SAMPLING LOCATION

DOWNGRADIENT SAMPLING LOCATION

◇

GAUGING LOCATION

0150300

ft

1" = 300 ft

Coordinate System:
NA83 STATE PLANE
IOWA NORTH

N

GHD

MIDAMERICAN ENERGY COMPANY

NEAL SOUTH CCR MONOFILL

SALIX, IOWA

SHALLOW ALLUVIAL GROUNDWATER

FLOW MAP - SEPTEMBER 2, 2025

Project No. 12576485

Date December 2025

FIGURE 3.3

Appendix B

Performance Monitoring Evaluation Data Summary

MW-2 Area Performance Monitoring Evaluation Data Summary
Neal South Monofill

Sample Location and ID	Sample Date	Sample Type	Calcium mg/L	Sulfate mg/L	Arsenic mg/L
MW-02					
MW02-GW-1219	12/12/2019	Primary	--	--	0.0569
MW02-GW-0320	03/04/2020	Primary	164	70.6	0.0580
DP01-GW-0320	03/04/2020	Duplicate	158	68.3	0.0514
MW02-GW-0720	07/28/2020	Primary	165	110	0.0724
DP01-GW-0720	07/28/2020	Duplicate	169	108	0.0744
MW02-GW-0920	09/15/2020	Primary	172	77.5	0.119
DP02-GW-0920	09/15/2020	Duplicate	167	77.1	0.112
MW02-GW-1020	10/21/2020	Primary	163	109	0.157
MW02-GW-1120	11/17/2020	Primary	163	86.7	0.0992
MW02-GW-0321	03/23/2021	Primary	150	71.1	0.0856
DP01-GW-0321	03/23/2021	Duplicate	147	69.8	0.0788
MW02-GW-0621	06/23/2021	Primary	147	65.2	0.0792
DP01-GW-0621	06/23/2021	Duplicate	146	62.9	0.0797
MW02-GW-0921	09/09/2021	Primary	135	55.0	0.0469
MW02-GW-0322	03/22/2022	Primary	149	129	0.0348
DP01-GW-0322	03/22/2022	Duplicate	153	132	0.0350
MW02-GW-0922	09/27/2022	Primary	168	65.0	0.0276
DP01-GW-0922	09/27/2022	Duplicate	170	65.7	0.0296
MW02-GW-0323	03/22/2023	Primary	155	121	0.0135
DP01-GW-0323	03/22/2023	Duplicate	154	121	0.0138
MW02-GW-0923	09/06/2023	Primary	170	97.3	0.0170
DP01-GW-0923	09/06/2023	Duplicate	189	95.0	0.0101
MW02-GW-0324	03/12/2024	Primary	216	205	0.0182
DP01-GW-0324	03/12/2024	Duplicate	218	201	0.0188
MW02-GW-0924	09/18/2024	Primary	220	208	0.0200
DP01-GW-0924	09/18/2024	Duplicate	222	208	0.0173
MW02-GW-0325	03/31/2025	Primary	178	210	0.0166
DP01-GW-0325	03/31/2025	Duplicate	173	202	0.0174
MW02-GW-0925	09/03/2025	Primary	168	163	0.0165
DP01-GW-0925	09/03/2025	Duplicate	152	168	0.0165

**MW-2 Area Performance Monitoring Evaluation Data Summary
Neal South Monofill**

Sample Location and ID	Sample Date	Sample Type	Calcium mg/L	Sulfate mg/L	Arsenic mg/L
MW-26					
MW26-GW-1219	12/10/2019	Primary	--	--	0.00200 U
MW26-GW-0720	07/28/2020	Primary	115	31.0	0.00200 U
MW26-GW-0920	09/16/2020	Primary	83.0	21.7	0.00200 U
MW26-GW-1020	10/22/2020	Primary	79.1	20.5	0.00200 U
MW26-GW-1120	11/16/2020	Primary	80.0	19.7	0.00200 U
MW26-GW-0321	03/23/2021	Primary	116	66.7	0.00200 U
MW26-GW-0621	06/23/2021	Primary	125	81.2	0.00200 U
MW26-GW-0921	09/09/2021	Primary	122	53.8	0.00311
MW26-GW-0322	03/22/2022	Primary	163	167	0.00200 U
MW26-GW-0922	09/27/2022	Primary	162	102	0.00200 U
MW26-GW-0323	03/23/2023	Primary	180	192	0.00200 U
MW26-GW-0923	09/05/2023	Primary	161	63.9	0.00200 U
MW26-GW-0324	03/11/2024	Primary	173	135	0.00200 U
MW26-GW-0924	09/17/2024	Primary	163	54.4	0.00200 U
MW26-GW-0325	3/18/2025	Primary	165	200	0.00200 U
MW26-GW-0925	9/2/2025	Primary	168	183	0.00200 U
MW-28					
MW28-GW-1219	12/11/2019	Primary	--	--	0.00200 U
MW28-GW-0720	07/28/2020	Primary	200	83.6	0.0573
MW28-GW-0920	09/15/2020	Primary	182	84.8	0.0684
MW28-GW-1020	10/22/2020	Primary	181	86.2	0.0357
MW28-GW-1120	11/16/2020	Primary	175	81.5	0.0290
MW28-GW-0321	03/23/2021	Primary	148	46.0	0.0360
MW28-GW-0621	06/22/2021	Primary	138	49.6	0.0235
MW28-GW-0921	09/08/2021	Primary	149	61.5	0.0355
MW28-GW-0322	03/22/2022	Primary	150	51.3	0.0267
MW28-GW-0922	09/28/2022	Primary	140	28.6	0.0187
MW28-GW-0423	04/04/2023	Primary	144	24.8	0.0169
MW28-GW-0923	09/06/2023	Primary	172	102	0.0179
MW28-GW-0324	03/13/2024	Primary	159	60.3	0.0196
MW28-GW-0924	09/17/2024	Primary	230	174	0.0274
MW28-GW-0325	3/18/2025	Primary	164	62.7	0.0137
MW28-GW-0925	9/3/2025	Primary	170	108	0.0194

**MW-2 Area Performance Monitoring Evaluation Data Summary
Neal South Monofill**

Sample Location and ID	Sample Date	Sample Type	Calcium mg/L	Sulfate mg/L	Arsenic mg/L
MW-30					
MW30-GW-1219	12/11/2019	Primary	--	--	0.0292
MW30-GW-0720	07/28/2020	Primary	179	98.0	0.0336
MW30-GW-0920	09/15/2020	Primary	174	104	0.0586
MW30-GW-1020	10/22/2020	Primary	181	118	0.0679
MW30-GW-1120	11/16/2020	Primary	174	105	0.0649
MW30-GW-0321	03/23/2021	Primary	158	60.2	0.0896
MW30-GW-0621	06/22/2021	Primary	163	54.5	0.0749
MW30-GW-0921	09/08/2021	Primary	135	35.9	0.0490
MW30-GW-0322	03/22/2022	Primary	169	16.2	0.105
MW30-GW-0922	09/28/2022	Primary	158	36.3	0.0476
MW30-GW-0323	03/24/2023	Primary	147	34.3	0.0732
MW30-GW-0923	09/05/2023	Primary	156	47.7	0.0446
MW30-GW-0324	03/11/2024	Primary	166	107	0.0765
MW30-GW-0924	09/17/2024	Primary	205	66.3	0.0599
MW30-GW-0325	3/18/2025	Primary	158	135	0.0780
MW30-GW-0925	9/3/2025	Primary	163	113	0.0584
MW-32					
MW32-GW-1219	12/11/2019	Primary	--	--	0.0273
MW32-GW-0720	07/28/2020	Primary	142	51.8	0.0117
MW32-GW-0920	09/15/2020	Primary	135	55.1	0.00840
MW32-GW-1020	10/22/2020	Primary	128	57.5	0.0120
MW32-GW-1120	11/16/2020	Primary	129	55.2	0.0160
MW32-GW-0321	03/24/2021	Primary	169	99.0	0.0164
MW32-GW-0621	06/23/2021	Primary	153	99.5	0.0114
MW32-GW-0921	09/08/2021	Primary	155	112	0.0279
MW32-GW-0322	03/22/2022	Primary	158	103	0.0212
MW32-GW-0922	09/28/2022	Primary	173	95.6	0.0251
MW32-GW-0423	04/04/2023	Primary	162	79.6	0.047
MW32-GW-0923	09/05/2023	Primary	159	85.4	0.0333
MW32-GW-0324	03/11/2024	Primary	147	151	0.0515
MW32-GW-0924	09/17/2024	Primary	216	213	0.0256
MW32-GW-0325	3/18/2025	Primary	193	178	0.0185
MW32-GW-0925	9/2/2025	Primary	196	200	0.0241

**MW-2 Area Performance Monitoring Evaluation Data Summary
Neal South Monofill**

Sample Location and ID	Sample Date	Sample Type	Calcium mg/L	Sulfate mg/L	Arsenic mg/L
MW-33					
MW33-GW-1219	12/11/2019	Primary	--	--	0.0741
MW33-GW-0720	07/28/2020	Primary	122	44.2	0.0813
MW33-GW-0920	09/15/2020	Primary	154	179	0.0855
MW33-GW-1020	10/22/2020	Primary	156	201	0.0257
MW33-GW-1120	11/16/2020	Primary	134	133	0.0412
MW33-GW-0321	03/24/2021	Primary	192	275	0.00723
MW33-GW-0621	06/23/2021	Primary	310	836	0.00200 U
MW33-GW-0921	09/08/2021	Primary	319	845	0.00349
MW33-GW-0322	03/22/2022	Primary	209	331	0.00232
MW33-GW-0922	09/28/2022	Primary	195	233	0.00200 U
MW33-GW-0423	04/04/2023	Primary	197	249	0.00739
MW33-GW-0923	09/05/2023	Primary	160	157	0.0136
MW33-GW-0324	03/11/2024	Primary	194	375	0.00383
MW33-GW-0924	09/17/2024	Primary	203	239	0.0149
MW33-GW-0325	3/18/2025	Primary	295	454	0.00374
MW33-GW-0925	9/3/2025	Primary	228	383	0.0052
MW-34					
MW34-GW-1219	12/11/2019	Primary	--	--	0.0219
DP01-GW-1219	12/11/2019	Duplicate	--	--	0.0261
MW34-GW-0720	07/28/2020	Primary	179	125	0.0226
MW34-GW-0920	09/16/2020	Primary	144	111	0.00200 U
MW34-GW-1020	10/21/2020	Primary	176	127	0.0261
MW34-GW-1120	11/17/2020	Primary	169	159	0.0156
MW34-GW-0321	03/23/2021	Primary	192	177	0.0353
MW34-GW-0621	06/23/2021	Primary	154	107	0.0251
MW34-GW-0921	09/08/2021	Primary	158	138	0.0266
MW34-GW-0322	03/22/2022	Primary	161	127	0.0352
MW34-GW-0922	09/28/2022	Primary	191	176	0.0311
MW34-GW-0323	03/24/2023	Primary	185	227	0.0327
MW34-GW-0923	09/05/2023	Primary	158	170	0.0293
MW34-GW-0324	03/11/2024	Primary	181	169	0.0166
MW34-GW-0924	09/17/2024	Primary	210	179	0.0157
MW34-GW-0325	3/18/2025	Primary	177	171	0.00694
MW34-GW-0925	9/2/2025	Primary	173	200	0.0236

**MW-2 Area Performance Monitoring Evaluation Data Summary
Neal South Monofill**

Sample Location and ID	Sample Date	Sample Type	Calcium mg/L	Sulfate mg/L	Arsenic mg/L
MW-36					
MW36-GW-1219	12/11/2019	Primary	--	--	0.0220
MW36-GW-0720	07/28/2020	Primary	159	124	0.00323
MW36-GW-0920	09/16/2020	Primary	177	154	0.0126
MW36-GW-1020	10/21/2020	Primary	173	136	0.0156
MW36-GW-1120	11/16/2020	Primary	166	128	0.0166
MW36-GW-0321	03/23/2021	Primary	190	180	0.0337
MW36-GW-0621	06/23/2021	Primary	171	150	0.0465
MW36-GW-0921	09/08/2021	Primary	190	235	0.0189
DP02-GW-0921	09/08/2021	Duplicate	191	234	0.0191
MW36-GW-0322	03/22/2022	Primary	172	165	0.0344
MW36-GW-0922	09/28/2022	Primary	173	136	0.0439
MW36-GW-0323	03/24/2023	Primary	153	104	0.0454
MW36-GW-0923	09/05/2023	Primary	144	146	0.0221
MW36-GW-0324	03/11/2024	Primary	151	126	0.0267
MW36-GW-0924	09/17/2024	Primary	189	151	0.0102
MW36-GW-0325	3/18/2025	Primary	149	147	0.00671
MW36-GW-0925	9/2/2025	Primary	171	210	0.0101

Notes:

U - Not detected at associated reporting limit.

**MW-10 Area Performance Monitoring Evaluation Data Summary
Neal South Monofill**

Sample Location and ID	Sample Date	Sample Type	Calcium mg/L	Sulfate mg/L	Arsenic mg/L
MW-10					
MW10-GW-1219	12/12/2019	Primary	--	--	0.0291
MW10-GW-0320	03/03/2020	Primary	142	131	0.0531
DP02-GW-0320	03/03/2020	Duplicate	144	122	0.0533
MW10-GW-0720	07/28/2020	Primary	150	104	0.0654
MW10-GW-0920	09/15/2020	Primary	166	149	0.0622
MW10-GW-1020	10/21/2020	Primary	133	90.7	0.0617
MW10-GW-1120	11/17/2020	Primary	122	95.5	0.0594
MW10-GW-0621	06/29/2021	Primary	177	218	0.0495
MW10-GW-0921	09/08/2021	Primary	152	119	0.0337
MW10-GW-0322	03/22/2022	Primary	138	103	0.0344
MW10-GW-0922	09/28/2022	Primary	126	40.0	0.0294
MW10-GW-0323	03/21/2023	Primary	133	159	0.0318
MW10-GW-0923	09/06/2023	Primary	116	79.6	0.0248
MW10-GW-0324	03/13/2024	Primary	164	137	0.0467
MW10-GW-0924	09/17/2024	Primary	160	101	0.0446
MW10-GW-0325	3/31/2025	Primary	111	42.3	0.0355
MW10-GW-0925	9/3/2025	Primary	113	47.4	0.0393
MW-43					
MW43-GW-1219	12/12/2019	Primary	--	--	0.0590
MW43-GW-0720	07/28/2020	Primary	154	195	0.0856
MW43-GW-0920	09/16/2020	Primary	163	288	0.0864
MW43-GW-1020	10/22/2020	Primary	159	307	0.00599
MW43-GW-1120	11/16/2020	Primary	153	311	0.00441
MW43-GW-0321	03/24/2021	Primary	154	25.5	0.0322
MW43-GW-0621	06/22/2021	Primary	162	304	0.0536
MW43-GW-0921	09/08/2021	Primary	159	301	0.0741
MW43-GW-0322	03/23/2022	Primary	175	342	0.0754
MW43-GW-0922	09/29/2022	Primary	167	27.8	0.0990
MW43-GW-0323	03/20/2023	Primary	156	155	0.0798
MW43-GW-0923	09/06/2023	Primary	147	68.1	0.0893
MW43-GW-0324	03/12/2024	Primary	184	170	0.0693
MW43-GW-0924	09/17/2024	Primary	197	123	0.0896
MW43-GW-0325	3/18/2025	Primary	139	55.5	0.0693
MW43-GW-0925	9/2/2025	Primary	148	94.7	0.0746

**MW-10 Area Performance Monitoring Evaluation Data Summary
Neal South Monofill**

Sample Location and ID	Sample Date	Sample Type	Calcium mg/L	Sulfate mg/L	Arsenic mg/L
MW-49					
MW49-GW-1219	12/12/2019	Primary	--	--	0.0389
MW49-GW-0720	07/29/2020	Primary	95.5	91.6	0.0478
MW49-GW-0920	09/16/2020	Primary	83.5	86.8	0.0363
MW49-GW-1020	10/21/2020	Primary	87.5	87.3	0.0404
MW49-GW-1120	11/17/2020	Primary	76.8	78.6	0.0332
MW49-GW-0321	03/24/2021	Primary	83.3	83.0	0.0402
MW49-GW-0621	06/22/2021	Primary	69.7	57.3	0.0311
MW49-GW-0921	09/08/2021	Primary	93.2	118	0.0369
MW49-GW-0322	03/23/2022	Primary	72.3	50.7	0.0374
MW49-GW-0922	09/28/2022	Primary	148	106	0.0472
MW49-GW-0323	03/20/2023	Primary	115	127	0.0468
MW49-GW-0923	09/06/2023	Primary	73.7	62.5	0.0327
MW49-GW-0324	03/12/2024	Primary	107	101	0.0312
MW49-GW-0924	09/17/2024	Primary	79.7	49.3	0.0443
MW49-GW-0325	3/18/2025	Primary	103	103	0.0378
MW49-GW-0925	9/3/2025	Primary	82.4	37.6	0.0471
MW-50					
MW50-GW-1219	12/12/2019	Primary	--	--	0.0302
MW50-GW-0720	07/29/2020	Primary	145	280	0.0425
MW50-GW-0920	09/16/2020	Primary	142	284	0.0243
MW50-GW-1020	10/22/2020	Primary	140	330	0.0331
DP01-GW-1020	10/22/2020	Duplicate	138	328	0.0322
MW50-GW-1120	11/17/2020	Primary	130	330	0.0240
DP01-GW-1120	11/17/2020	Duplicate	128	336	0.0237
MW50-GW-0321	03/24/2021	Primary	116	221	0.0158
DP02-GW-0321	03/24/2021	Duplicate	121	247	0.0162
MW50-GW-0621	06/22/2021	Primary	131	315	0.0256
MW50-GW-0921	09/08/2021	Primary	130	366	0.0292
MW50-GW-0322	03/23/2022	Primary	142	311	0.0307
DP02-GW-0322	03/23/2022	Duplicate	131	314	0.0290
MW50-GW-0922	09/28/2022	Primary	158	343	0.0276
DP02-GW-0922	09/28/2022	Duplicate	157	339	0.0269
MW50-GW-0323	03/21/2023	Primary	161	352	0.0295
DP02-GW-0323	03/21/2023	Duplicate	160	353	0.0296
MW50-GW-0923	09/06/2023	Primary	145	351	0.0234
DP02-GW-0923	09/06/2023	Duplicate	146	349	0.0228
MW50-GW-0324	03/12/2024	Primary	166	341	0.00916
DP02-GW-0324	03/12/2024	Duplicate	184	338	0.00955
MW50-GW-0924	09/17/2024	Primary	220	318	0.00900
DP02-GW-0924	09/17/2024	Duplicate	222	317	0.00835
MW50-GW-0325	3/18/2025	Primary	175	365	0.00277
DP02-GW-0325	3/18/2025	Duplicate	174	365	0.00283
MW50-GW-0925	9/2/2025	Primary	172	290	0.00200 U
DP02-GW-0925	9/2/2025	Duplicate	165	288	0.00200 U

**MW-10 Area Performance Monitoring Evaluation Data Summary
Neal South Monofill**

Sample Location and ID	Sample Date	Sample Type	Calcium mg/L	Sulfate mg/L	Arsenic mg/L
MW-51					
MW51-GW-0720	07/28/2020	Primary	153	263	0.00200 U
MW51-GW-0920	09/16/2020	Primary	148	280	0.00412
MW51-GW-1020	10/22/2020	Primary	140	292	0.00294
MW51-GW-1120	11/16/2020	Primary	145	275	0.00219
MW51-GW-0321	03/24/2021	Primary	157	275	0.0263
MW51-GW-0621	06/22/2021	Primary	150	230	0.0405
MW51-GW-0921	09/08/2021	Primary	144	192	0.0330
MW51-GW-0322	03/23/2022	Primary	160	198	0.0602
MW51-GW-0922	09/29/2022	Primary	164	110	0.0595
MW51-GW-0323	03/20/2023	Primary	161	184	0.0739
MW51-GW-0923	09/06/2023	Primary	147	132	0.0641
MW51-GW-0324	03/12/2024	Primary	159	186	0.0522
MW51-GW-0924	09/17/2024	Primary	180	239	0.00250
MW51-GW-0325	3/18/2025	Primary	172	305	0.00300
MW51-GW-0925	9/3/2025	Primary	183	300	0.00469
MW-52					
MW52-GW-0720	07/28/2020	Primary	90.8	77.4	0.00200 U
MW52-GW-0920	09/16/2020	Primary	124	176	0.00200 U
MW52-GW-1020	10/22/2020	Primary	109	156	0.00232
MW52-GW-1120	11/17/2020	Primary	119	184	0.00200 U
MW52-GW-0321	03/24/2021	Primary	159	212	0.0121
MW52-GW-0621	06/22/2021	Primary	148	224	0.00280
MW52-GW-0921	09/08/2021	Primary	163	310	0.0188
MW52-GW-0322	03/22/2022	Primary	173	248	0.0246
MW52-GW-0922	09/28/2022	Primary	148	271	0.00289
MW52-GW-0323	03/21/2023	Primary	158	254	0.00335
MW52-GW-0923	09/06/2023	Primary	150	291	0.00223
MW52-GW-0324	03/12/2024	Primary	157	264	0.00396
MW52-GW-0924	09/17/2024	Primary	181	81.7	0.00200 U
MW52-GW-0325	3/18/2025	Primary	149	264	0.00200 U
MW52-GW-0925	9/3/2025	Primary	158	295	0.00200 U

**MW-10 Area Performance Monitoring Evaluation Data Summary
Neal South Monofill**

Sample Location and ID	Sample Date	Sample Type	Calcium mg/L	Sulfate mg/L	Arsenic mg/L
MW-53					
MW53-GW-0720	07/28/2020	Primary	96.0	61.6	0.00200 U
MW53-GW-0920	09/16/2020	Primary	126	107	0.00200 U
DP01-GW-0920	09/16/2020	Duplicate	121	107	0.00200 U
MW53-GW-1020	10/22/2020	Primary	126	129	0.00200 U
MW53-GW-1120	11/17/2020	Primary	130	132	0.00200 U
MW53-GW-0321	03/24/2021	Primary	104	112	0.00200 U
MW53-GW-0621	06/22/2021	Primary	80.9	55.0	0.00200 U
MW53-GW-0921	09/08/2021	Primary	88.5	72.9	0.00200 U
MW53-GW-0322	03/21/2022	Primary	107	74.8	0.00200 U
MW53-GW-0922	09/29/2022	Primary	102	62.3	0.00200 U
MW53-GW-0323	03/21/2023	Primary	65.6	43.4	0.00200 U
MW53-GW-0923	09/06/2023	Primary	69.4	64.1	0.00200 U
MW53-GW-0324	03/12/2024	Primary	79.7	51.9	0.00200 U
MW53-GW-0924	09/17/2024	Primary	136	77.9	0.00200 U
MW53-GW-0325	3/18/2025	Primary	148	276	0.00200 U
MW53-GW-0925	9/3/2025	Primary	167	182	0.00200 U

Notes:

U - Not detected at associated reporting limit.

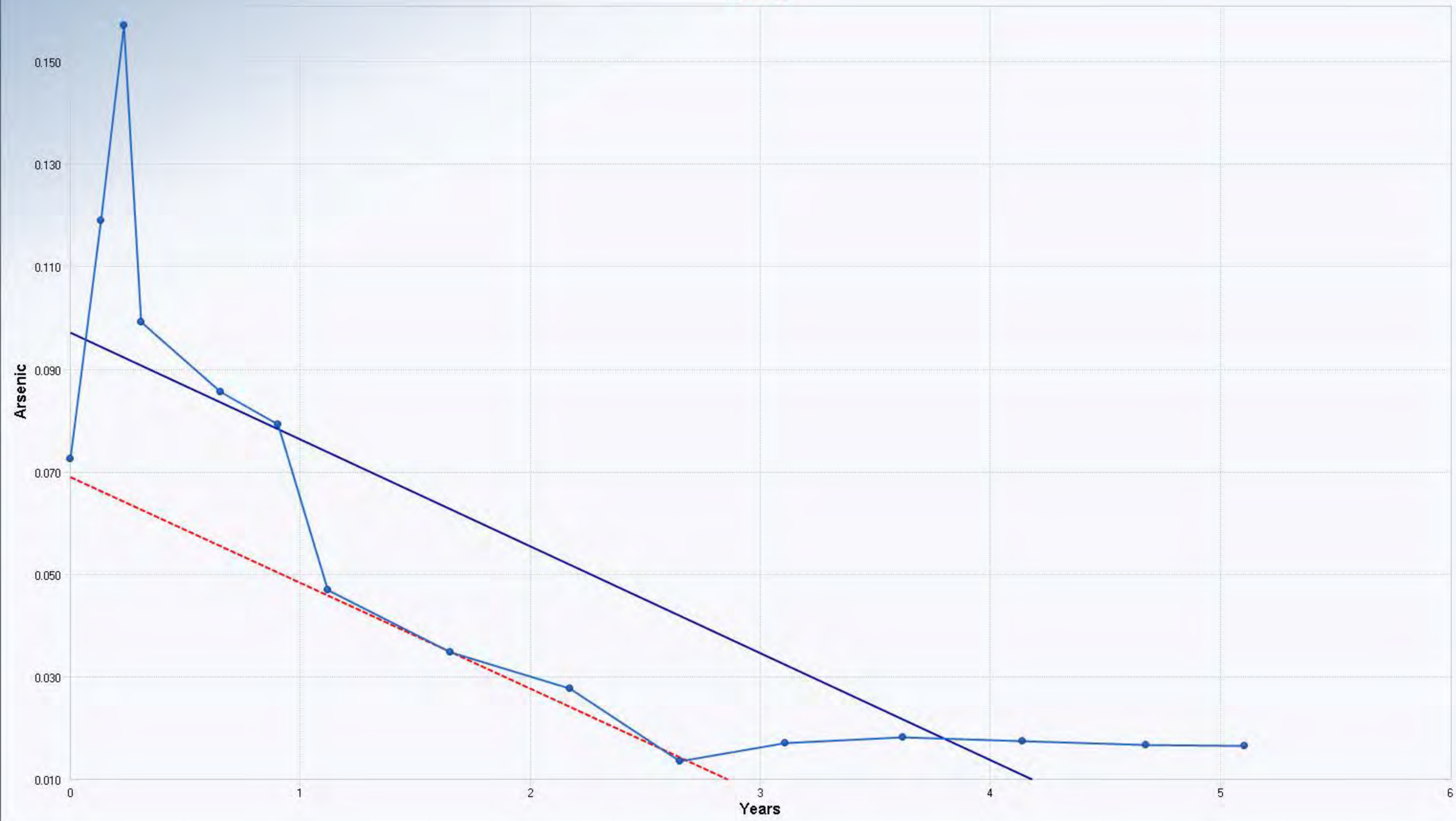
Appendix C

Mann-Kendall Analyses

Appendix C.1

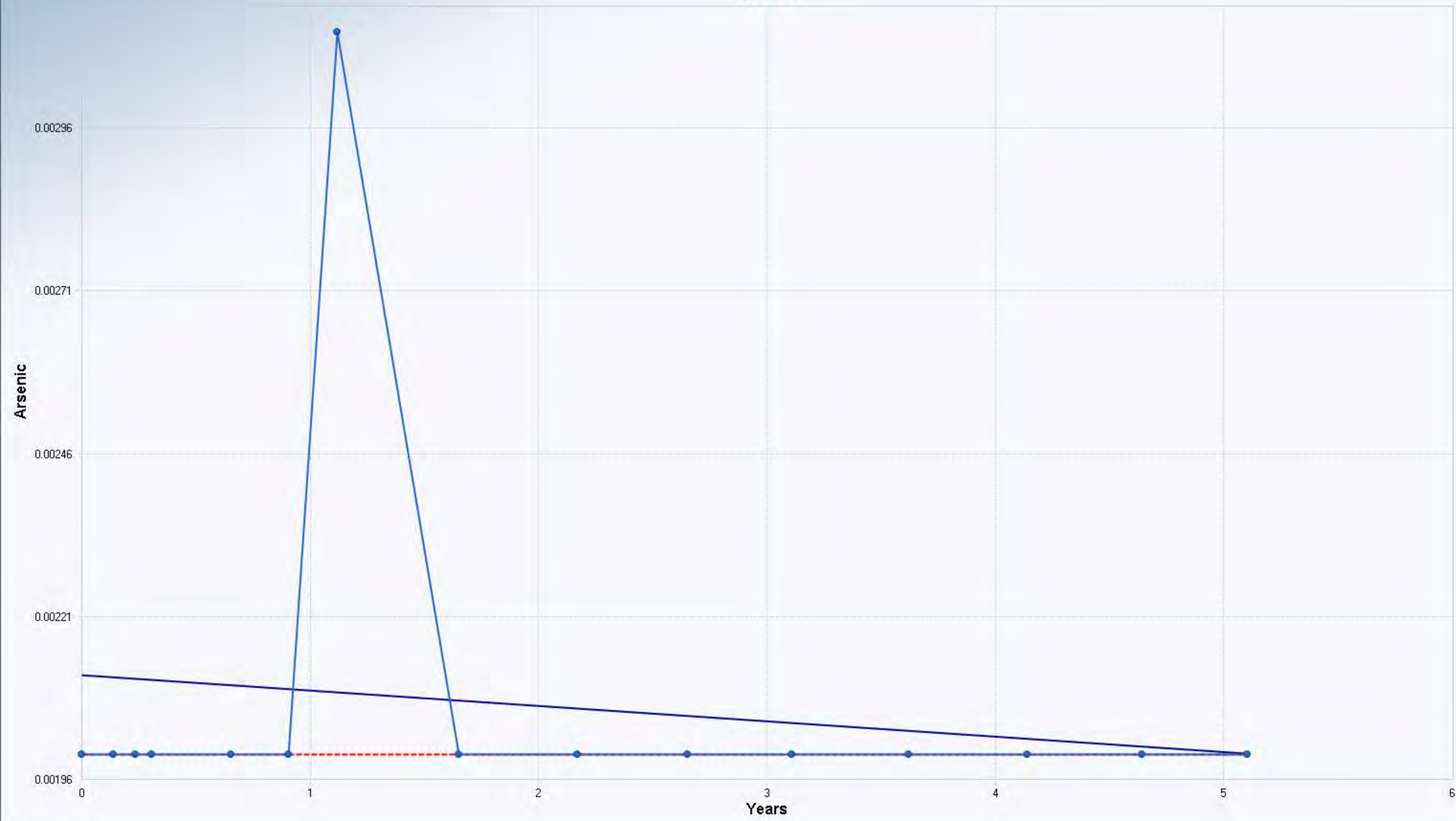
2020-2025

MW-02



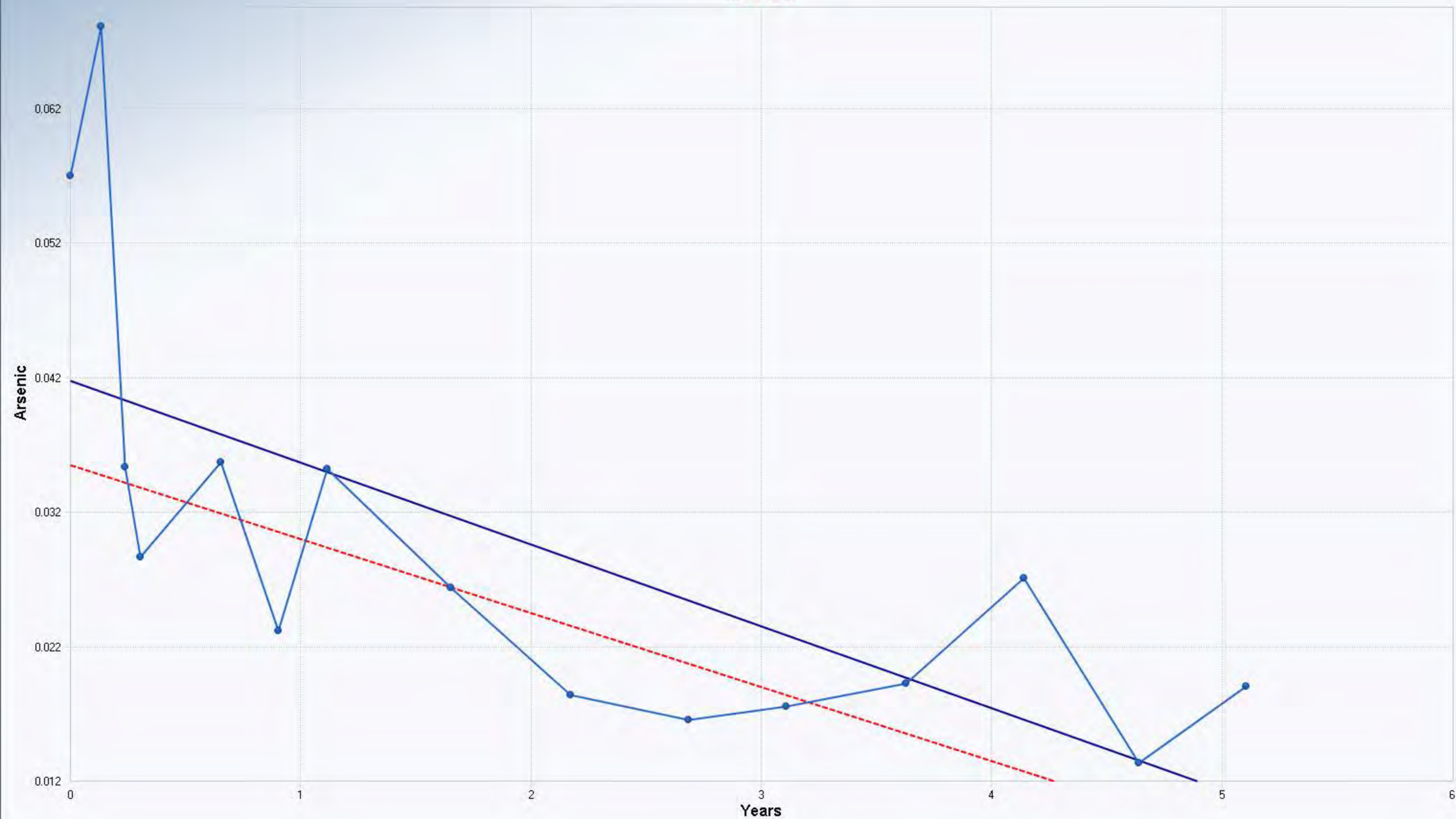
Mann-Kendall Trend Analysis	
n	15
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	20.2073
Standardized Value of S	-3.8600
M-K Test Value (S)	-79
Tabulated p-value	0.0000
Approximate p-value	0.0001
OLS Regression Line (Blue)	
OLS Regression Slope	-0.0209
OLS Regression Intercept	0.0971
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-0.0206
Theil-Sen Intercept	0.0689
Statistically significant evidence of a decreasing trend at the specified level of significance.	

MW-26



Mann-Kendall Trend Analysis	
n	15
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	8.6410
Standardized Value of S	-0.1157
M-K Test Value (S)	-2
Tabulated p-value	0.4610
Approximate p-value	0.4539
OLS Regression Line (Blue)	
OLS Regression Slope	0.0000
OLS Regression Intercept	0.0021
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	0.0000
Theil-Sen Intercept	0.0020
Insufficient statistical evidence of a significant trend at the specified level of significance.	

MW-28



Mann-Kendall Trend Analysis

n	15
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	20.2073
Standardized Value of S	-3.1672
M-K Test Value (S)	-65
Tabulated p-value	0.0000
Approximate p-value	0.0008

OLS Regression Line (Blue)

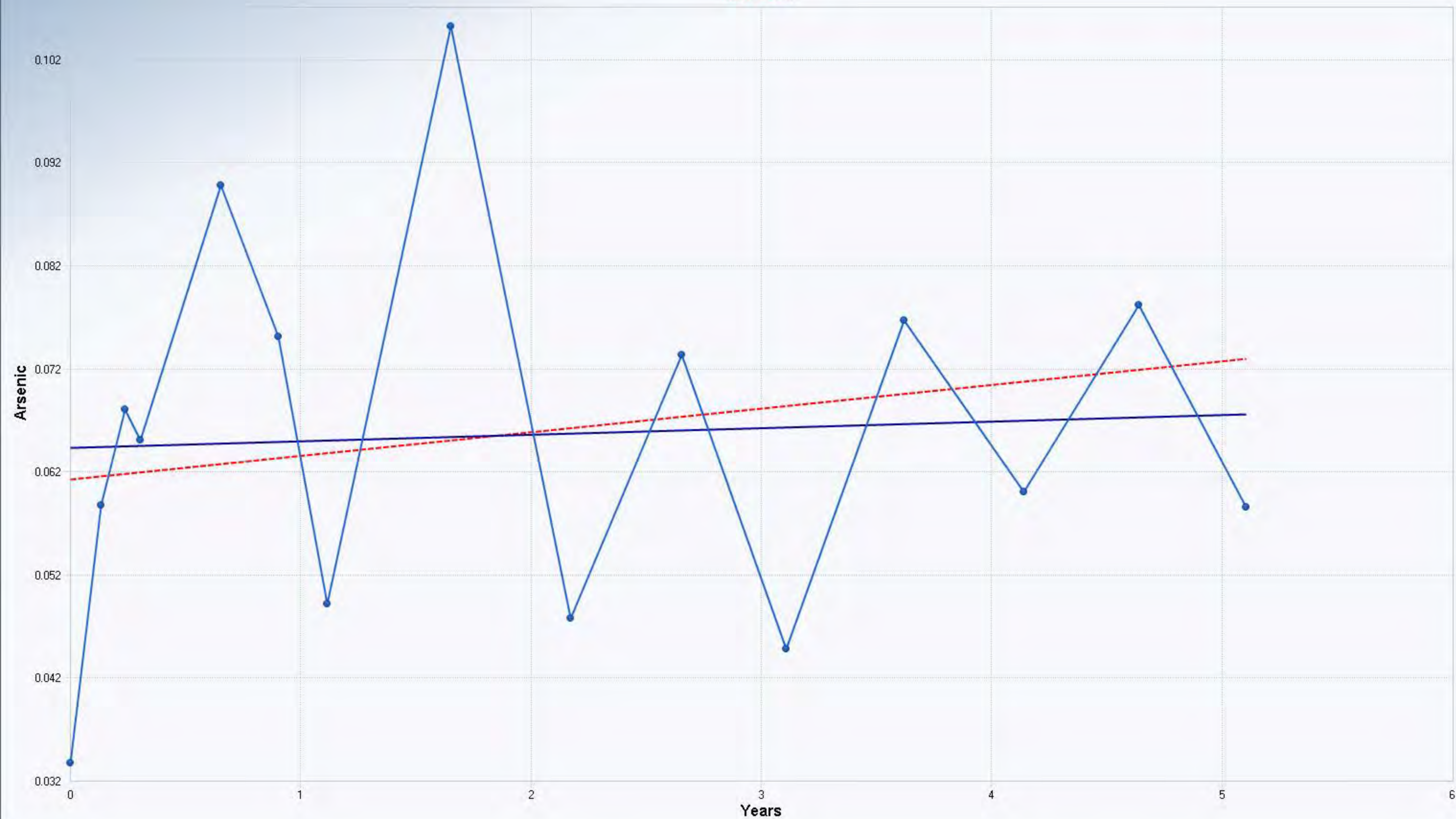
OLS Regression Slope	-0.0061
OLS Regression Intercept	0.0421

Theil-Sen Trend Line (Red)

Theil-Sen Slope	-0.0055
Theil-Sen Intercept	0.0358

Statistically significant evidence
of a decreasing trend at the
specified level of significance.

MW-30



Mann-Kendall Trend Analysis

n	15
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	20.2073
Standardized Value of S	0.4949
M-K Test Value (S)	11
Tabulated p-value	0.3130
Approximate p-value	0.3103

OLS Regression Line (Blue)

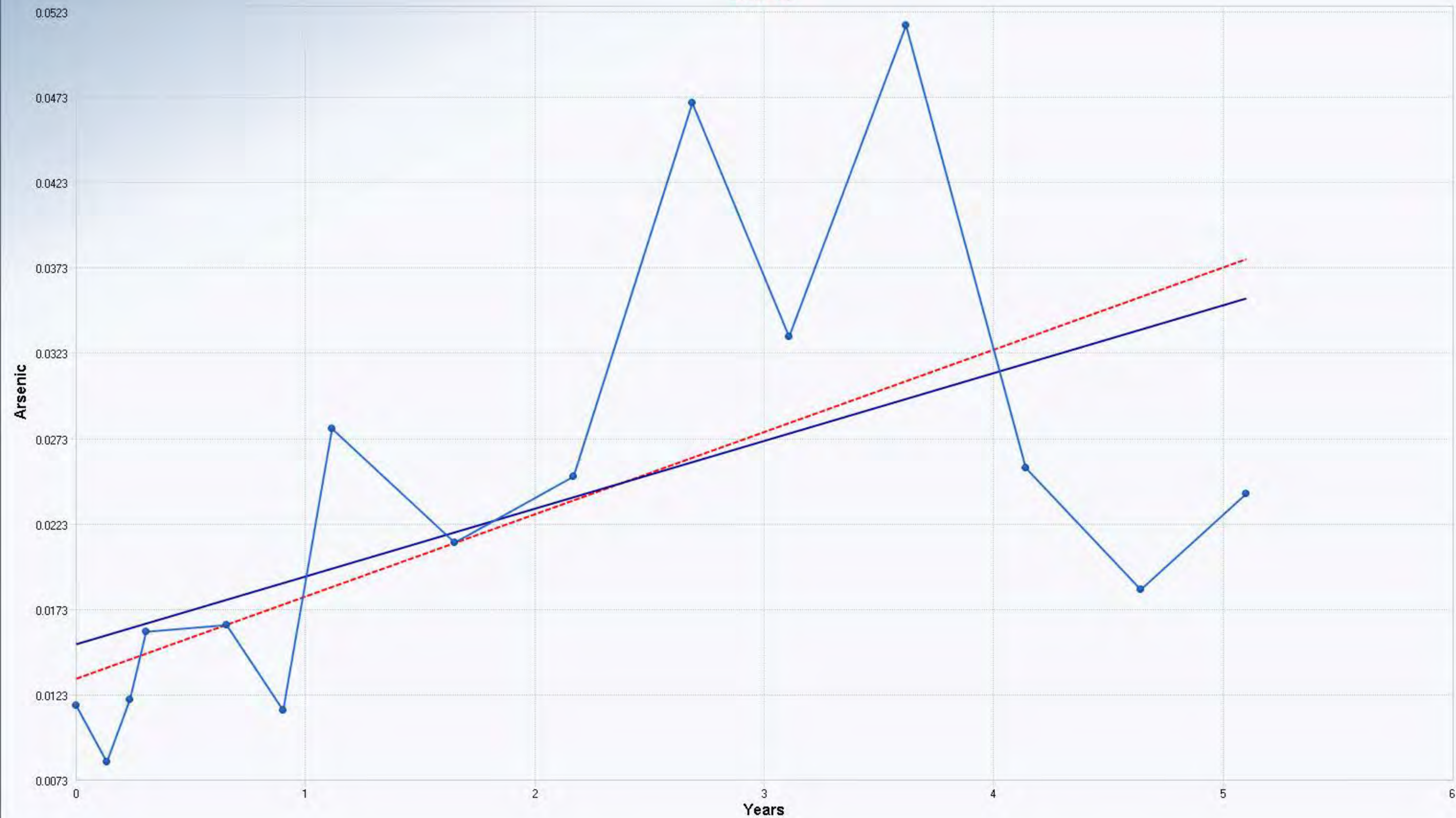
OLS Regression Slope	0.0006
OLS Regression Intercept	0.0642

Theil-Sen Trend Line (Red)

Theil-Sen Slope	0.0023
Theil-Sen Intercept	0.0611

Insufficient statistical evidence
of a significant trend at the
specified level of significance.

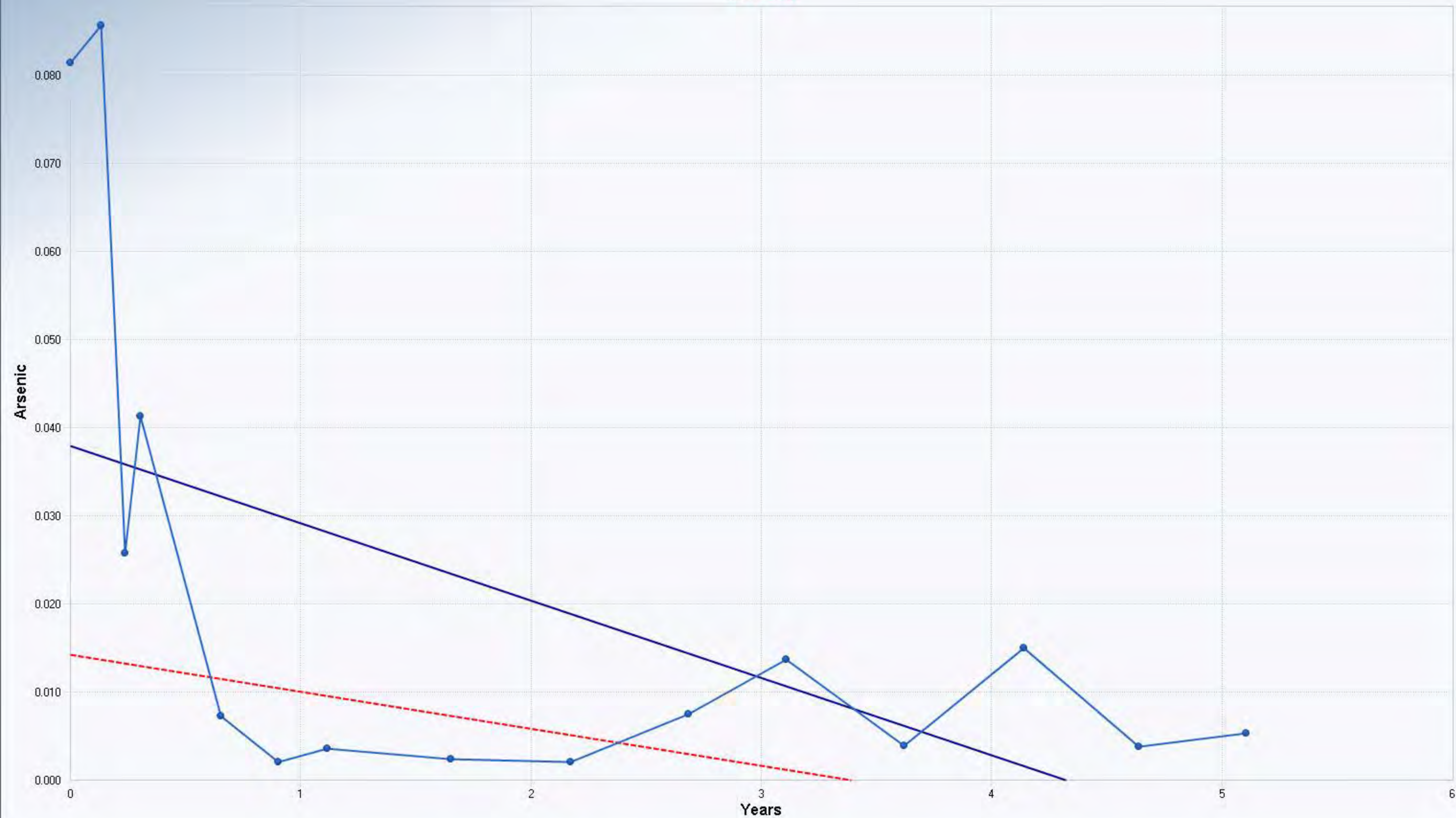
MW-32



Mann-Kendall Trend Analysis	
n	15
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	20.2073
Standardized Value of S	2.6723
M-K Test Value (S)	55
Tabulated p-value	0.0030
Approximate p-value	0.0038
OLS Regression Line (Blue)	
OLS Regression Slope	0.0040
OLS Regression Intercept	0.0153
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	0.0048
Theil-Sen Intercept	0.0132

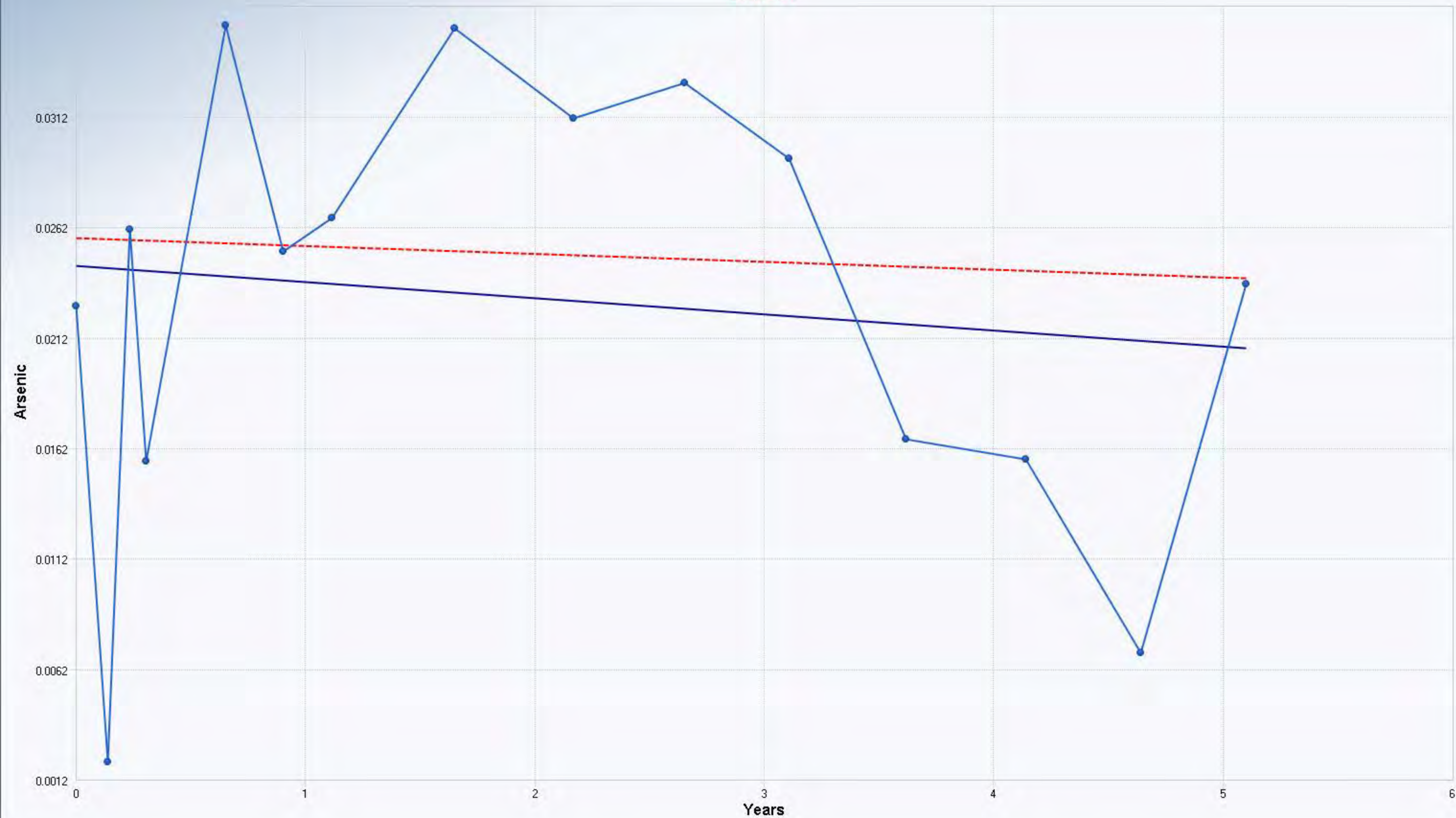
Statistically significant evidence
of an increasing trend at the
specified level of significance.

MW-33



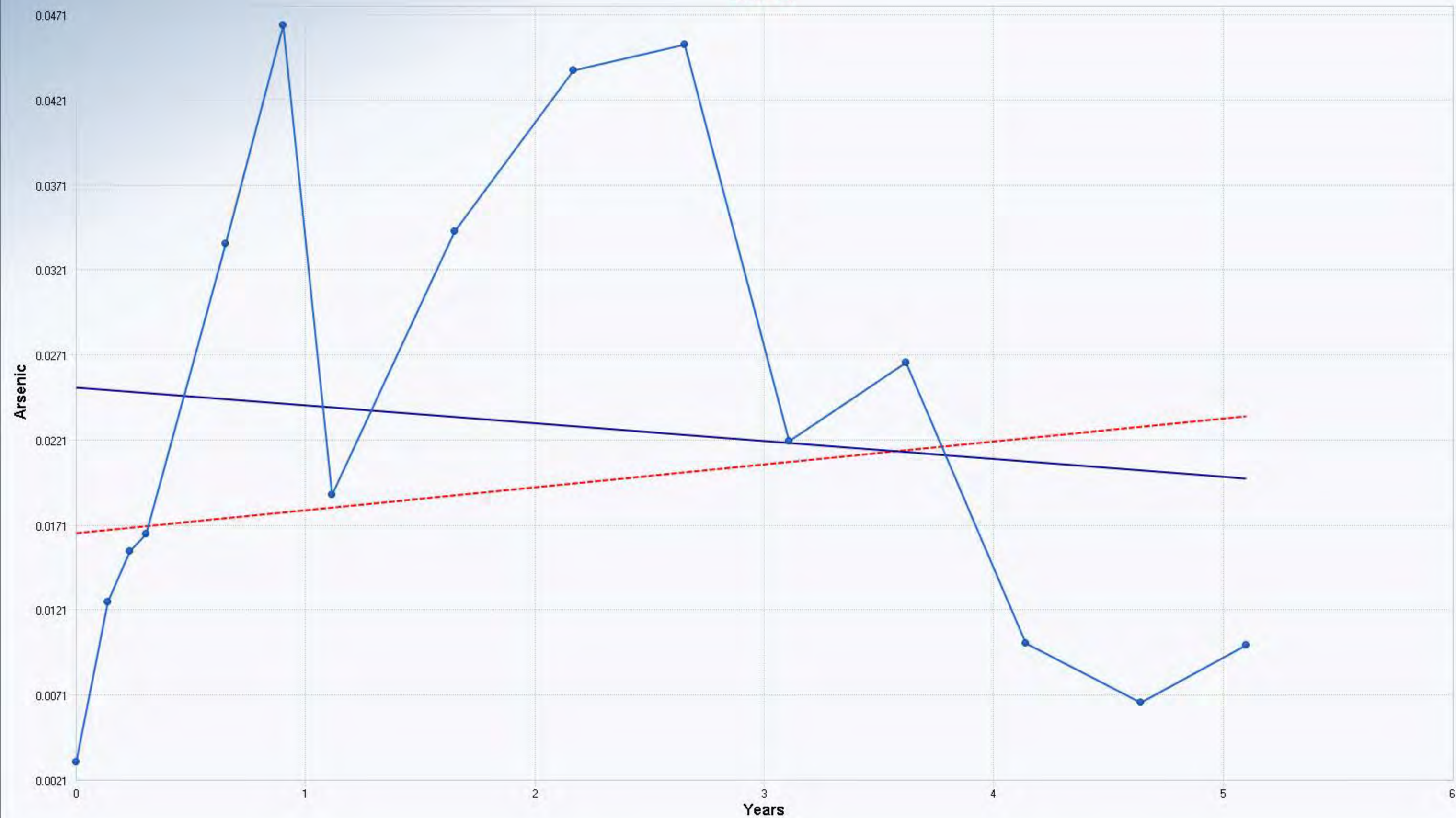
Mann-Kendall Trend Analysis	
n	15
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	20.1825
Standardized Value of S	-1.4369
M-K Test Value (S)	-30
Tabulated p-value	0.0700
Approximate p-value	0.0754
OLS Regression Line (Blue)	
OLS Regression Slope	-0.0088
OLS Regression Intercept	0.0378
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-0.0042
Theil-Sen Intercept	0.0142
Insufficient statistical evidence of a significant trend at the specified level of significance.	

MW-34



Mann-Kendall Trend Analysis	
n	15
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	20.2073
Standardized Value of S	-0.0990
M-K Test Value (S)	-3
Tabulated p-value	0.4610
Approximate p-value	0.4606
OLS Regression Line (Blue)	
OLS Regression Slope	-0.0007
OLS Regression Intercept	0.0244
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-0.0004
Theil-Sen Intercept	0.0257
Insufficient statistical evidence of a significant trend at the specified level of significance.	

MW-36



Mann-Kendall Trend Analysis	
n	15
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	20.2073
Standardized Value of S	0.1979
M-K Test Value (S)	5
Tabulated p-value	0.4230
Approximate p-value	0.4215
OLS Regression Line (Blue)	
OLS Regression Slope	-0.0010
OLS Regression Intercept	0.0252
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	0.0013
Theil-Sen Intercept	0.0167
Insufficient statistical evidence of a significant trend at the specified level of significance.	

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 11:37:34 AM								
4	From File			MW-02 MK_a.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			15								
13	Number of Missing Events			0								
14	Number or Reported Events Used			15								
15	Number Values Reported (n)			15								
16	Minimum			0.0135								
17	Maximum			0.157								
18	Mean			0.0547								
19	Geometric Mean			0.0393								
20	Median			0.0348								
21	Standard Deviation			0.045								
22	Coefficient of Variation			0.823								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-79								
26	Tabulated p-value			0								
27	Standard Deviation of S			20.21								
28	Standardized Value of S			-3.86								
29	Approximate p-value			5.6694E-5								
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 11:58:07 AM								
4	From File			MW-26 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			15								
13	Number of Missing Events			0								
14	Number or Reported Events Used			15								
15	Number Values Reported (n)			15								
16	Minimum			0.002								
17	Maximum			0.00311								
18	Mean			0.00207								
19	Geometric Mean			0.00206								
20	Median			0.002								
21	Standard Deviation			2.8660E-4								
22	Coefficient of Variation			0.138								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-2								
26	Tabulated p-value			0.461								
27	Standard Deviation of S			8.641								
28	Standardized Value of S			-0.116								
29	Approximate p-value			0.454								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 11:59:34 AM								
4	From File			MW-28 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)				15							
13	Number of Missing Events				0							
14	Number or Reported Events Used				15							
15	Number Values Reported (n)				15							
16	Minimum				0.0137							
17	Maximum				0.0684							
18	Mean				0.0297							
19	Geometric Mean				0.0268							
20	Median				0.0267							
21	Standard Deviation				0.0154							
22	Coefficient of Variation				0.517							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				-65							
26	Tabulated p-value				0							
27	Standard Deviation of S				20.21							
28	Standardized Value of S				-3.167							
29	Approximate p-value				7.6963E-4							
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 12:01:13 PM								
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6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)				15							
13	Number of Missing Events				0							
14	Number or Reported Events Used				15							
15	Number Values Reported (n)				15							
16	Minimum				0.0336							
17	Maximum				0.105							
18	Mean				0.0654							
19	Geometric Mean				0.063							
20	Median				0.0649							
21	Standard Deviation				0.0184							
22	Coefficient of Variation				0.281							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				11							
26	Tabulated p-value				0.313							
27	Standard Deviation of S				20.21							
28	Standardized Value of S				0.495							
29	Approximate p-value				0.31							
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

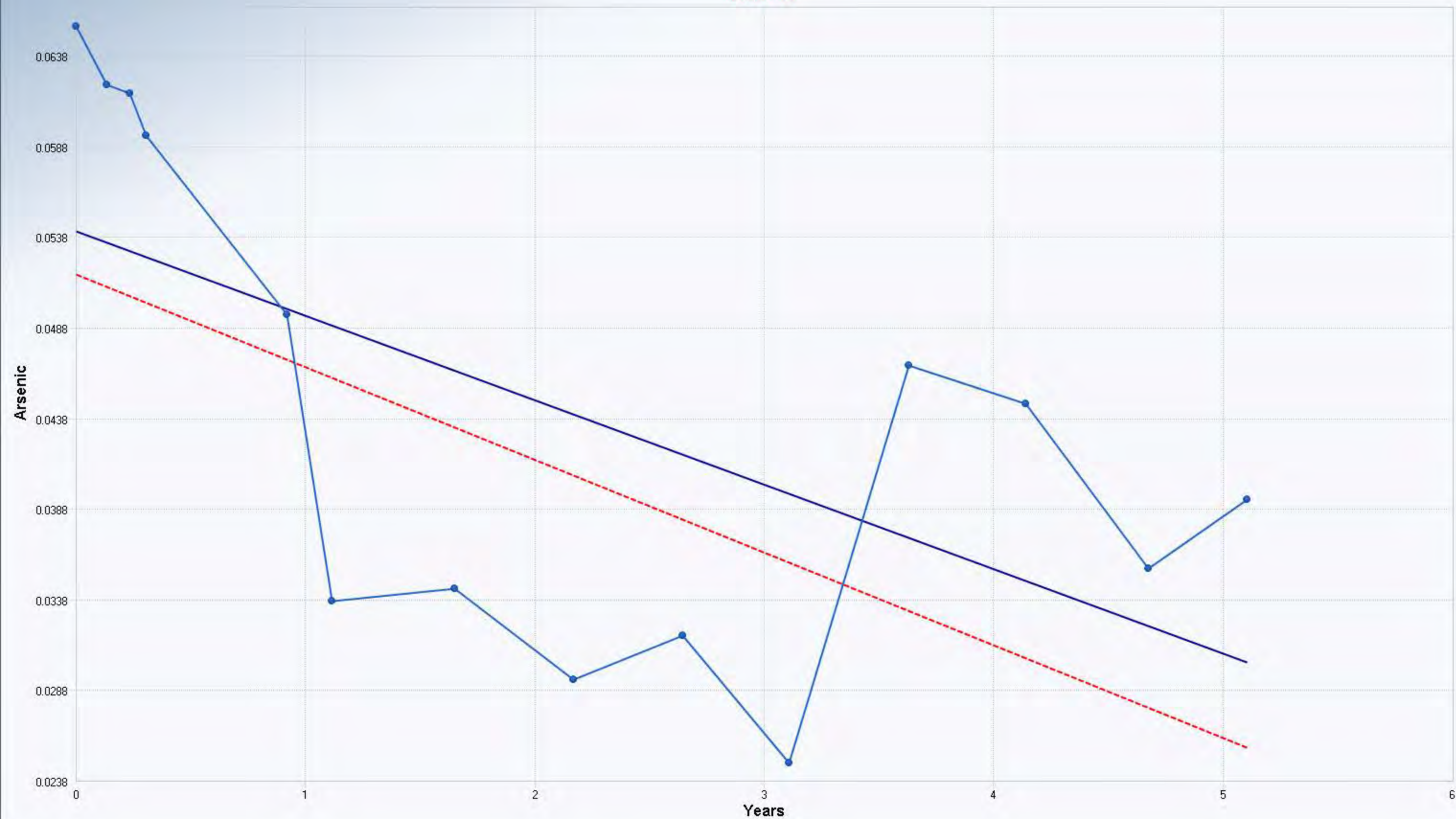
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6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)				15							
13	Number of Missing Events				0							
14	Number or Reported Events Used				15							
15	Number Values Reported (n)				15							
16	Minimum				0.0084							
17	Maximum				0.0515							
18	Mean				0.0233							
19	Geometric Mean				0.0205							
20	Median				0.0212							
21	Standard Deviation				0.0127							
22	Coefficient of Variation				0.542							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				55							
26	Tabulated p-value				0.003							
27	Standard Deviation of S				20.21							
28	Standardized Value of S				2.672							
29	Approximate p-value				0.00377							
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 12:05:41 PM								
4	From File			MW-33 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			15								
13	Number of Missing Events			0								
14	Number or Reported Events Used			15								
15	Number Values Reported (n)			15								
16	Minimum			0.002								
17	Maximum			0.0855								
18	Mean			0.02								
19	Geometric Mean			0.00896								
20	Median			0.00723								
21	Standard Deviation			0.0279								
22	Coefficient of Variation			1.398								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-30								
26	Tabulated p-value			0.07								
27	Standard Deviation of S			20.18								
28	Standardized Value of S			-1.437								
29	Approximate p-value			0.0754								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 12:07:59 PM								
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6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			15								
13	Number of Missing Events			0								
14	Number or Reported Events Used			15								
15	Number Values Reported (n)			15								
16	Minimum			0.002								
17	Maximum			0.0353								
18	Mean			0.023								
19	Geometric Mean			0.0193								
20	Median			0.0251								
21	Standard Deviation			0.00991								
22	Coefficient of Variation			0.432								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-3								
26	Tabulated p-value			0.461								
27	Standard Deviation of S			20.21								
28	Standardized Value of S			-0.099								
29	Approximate p-value			0.461								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 12:11:05 PM								
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5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)				15							
13	Number of Missing Events				0							
14	Number or Reported Events Used				15							
15	Number Values Reported (n)				15							
16	Minimum				0.00323							
17	Maximum				0.0465							
18	Mean				0.0231							
19	Geometric Mean				0.0183							
20	Median				0.0189							
21	Standard Deviation				0.0145							
22	Coefficient of Variation				0.629							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				5							
26	Tabulated p-value				0.423							
27	Standard Deviation of S				20.21							
28	Standardized Value of S				0.198							
29	Approximate p-value				0.422							
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

MW-10



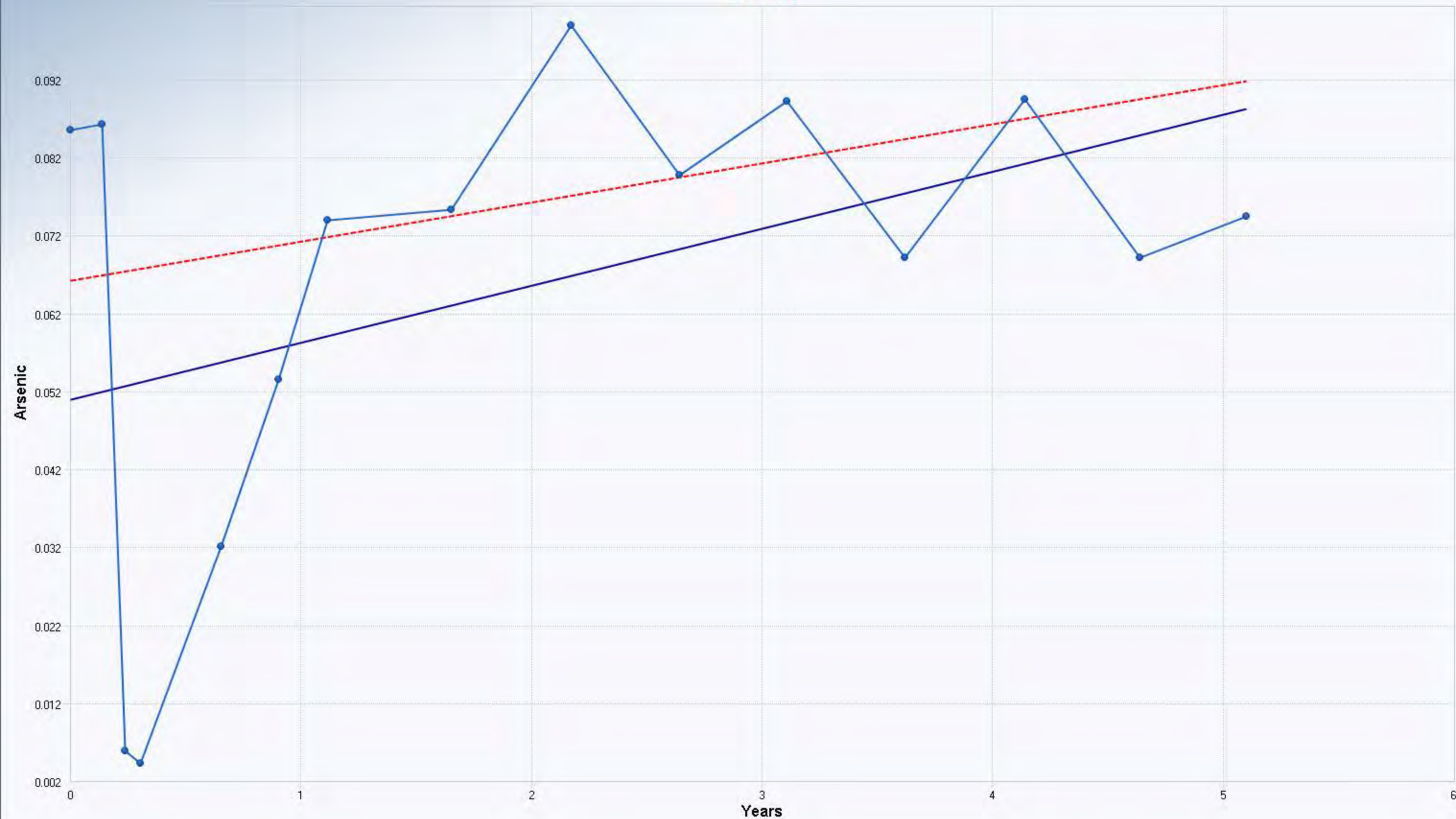
Mann-Kendall Trend Analysis	
n	14
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	18.2665
Standardized Value of S	-2.4088
M-K Test Value (S)	-45
Tabulated p-value	0.0070
Approximate p-value	0.0080

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0047
OLS Regression Intercept	0.0541

Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-0.0051
Theil-Sen Intercept	0.0517

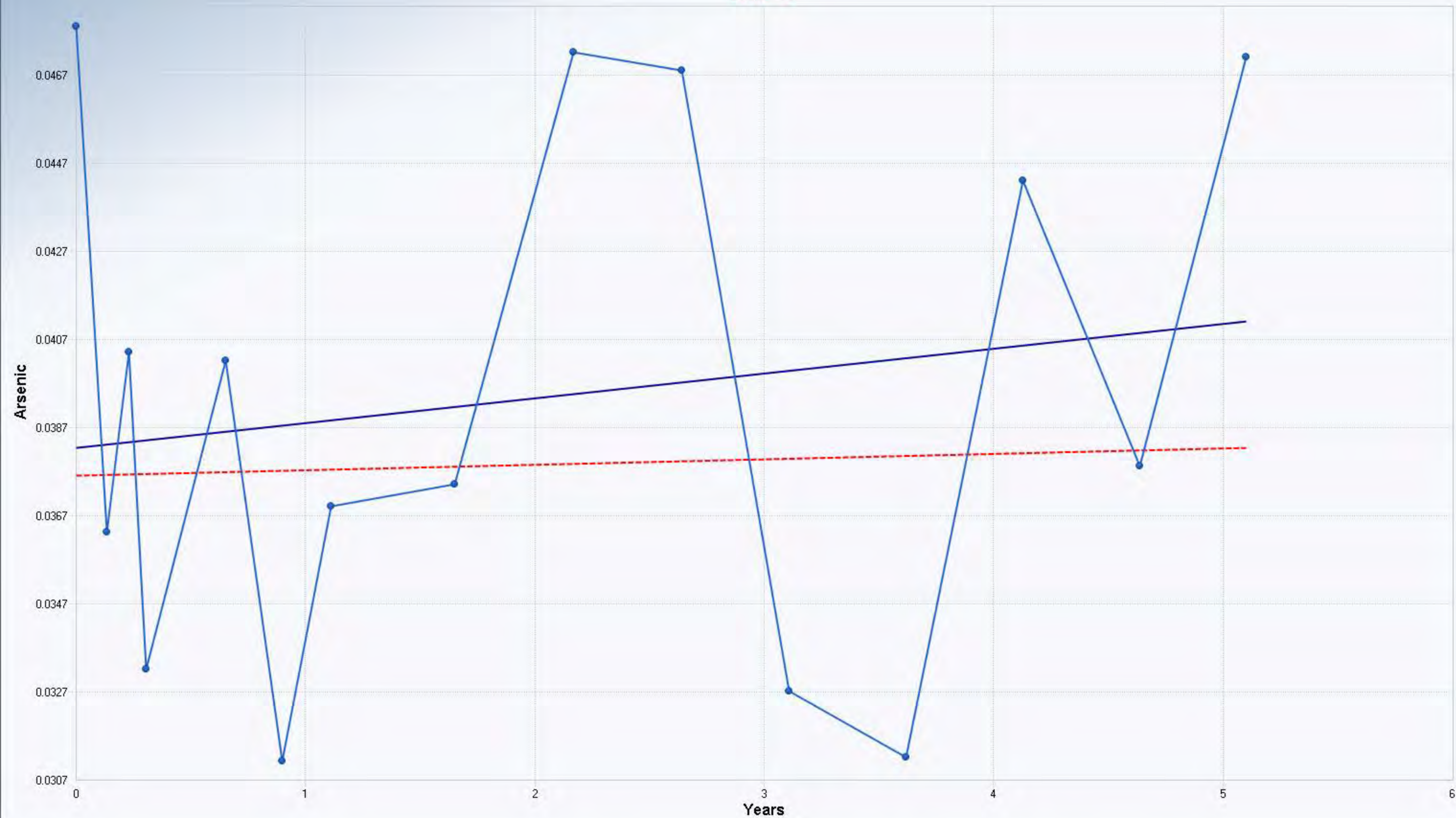
Statistically significant evidence of a decreasing trend at the specified level of significance.

MW-43



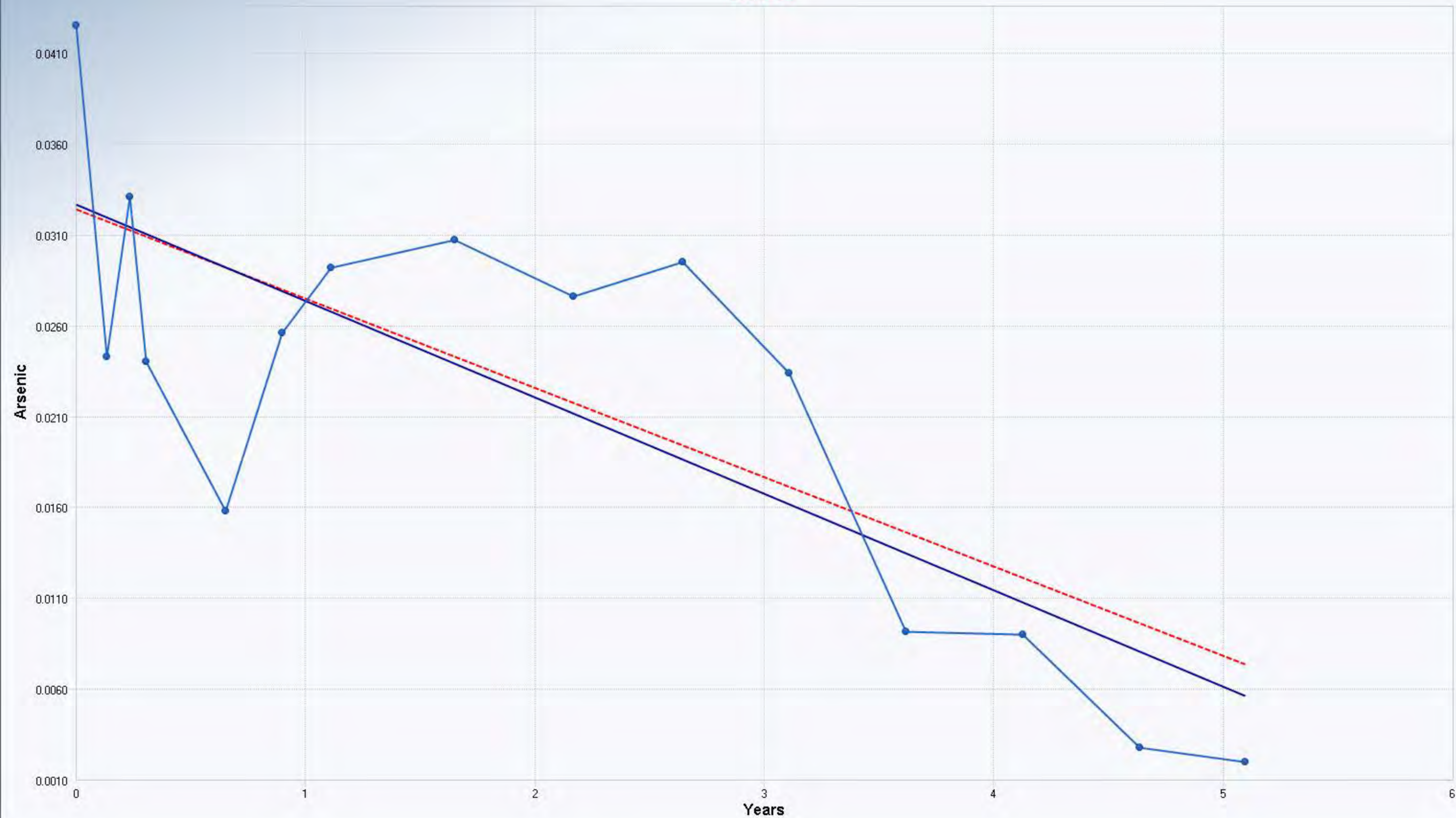
Mann-Kendall Trend Analysis	
n	15
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	20.1825
Standardized Value of S	1.1396
M-K Test Value (S)	24
Tabulated p-value	0.1200
Approximate p-value	0.1272
OLS Regression Line (Blue)	
OLS Regression Slope	0.0073
OLS Regression Intercept	0.0511
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	0.0050
Theil-Sen Intercept	0.0664
Insufficient statistical evidence of a significant trend at the specified level of significance.	

MW-49



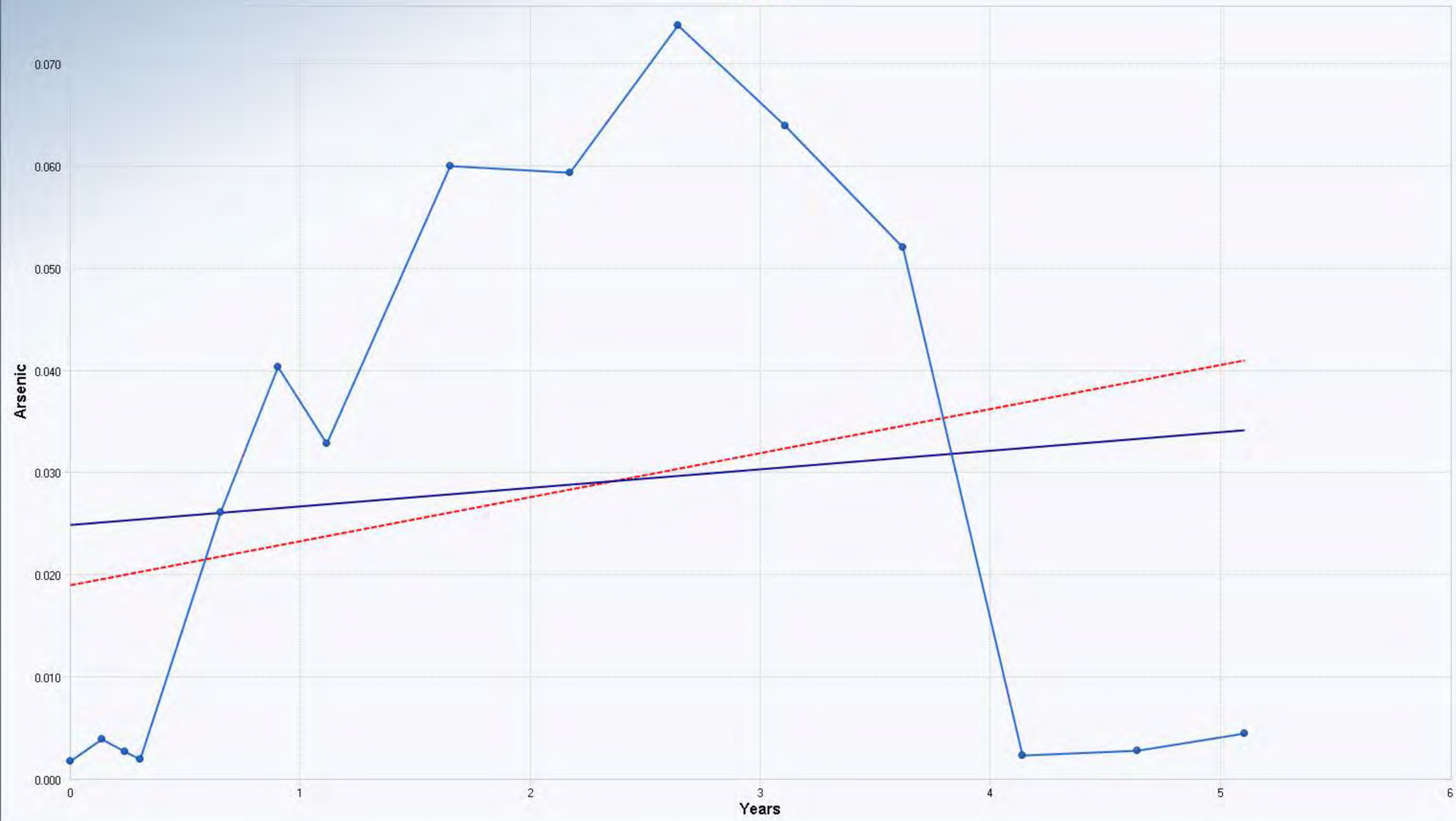
Mann-Kendall Trend Analysis	
n	15
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	20.2073
Standardized Value of S	0.0990
M-K Test Value (S)	3
Tabulated p-value	0.4610
Approximate p-value	0.4606
OLS Regression Line (Blue)	
OLS Regression Slope	0.0006
OLS Regression Intercept	0.0382
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	0.0001
Theil-Sen Intercept	0.0376
Insufficient statistical evidence of a significant trend at the specified level of significance.	

MW-50



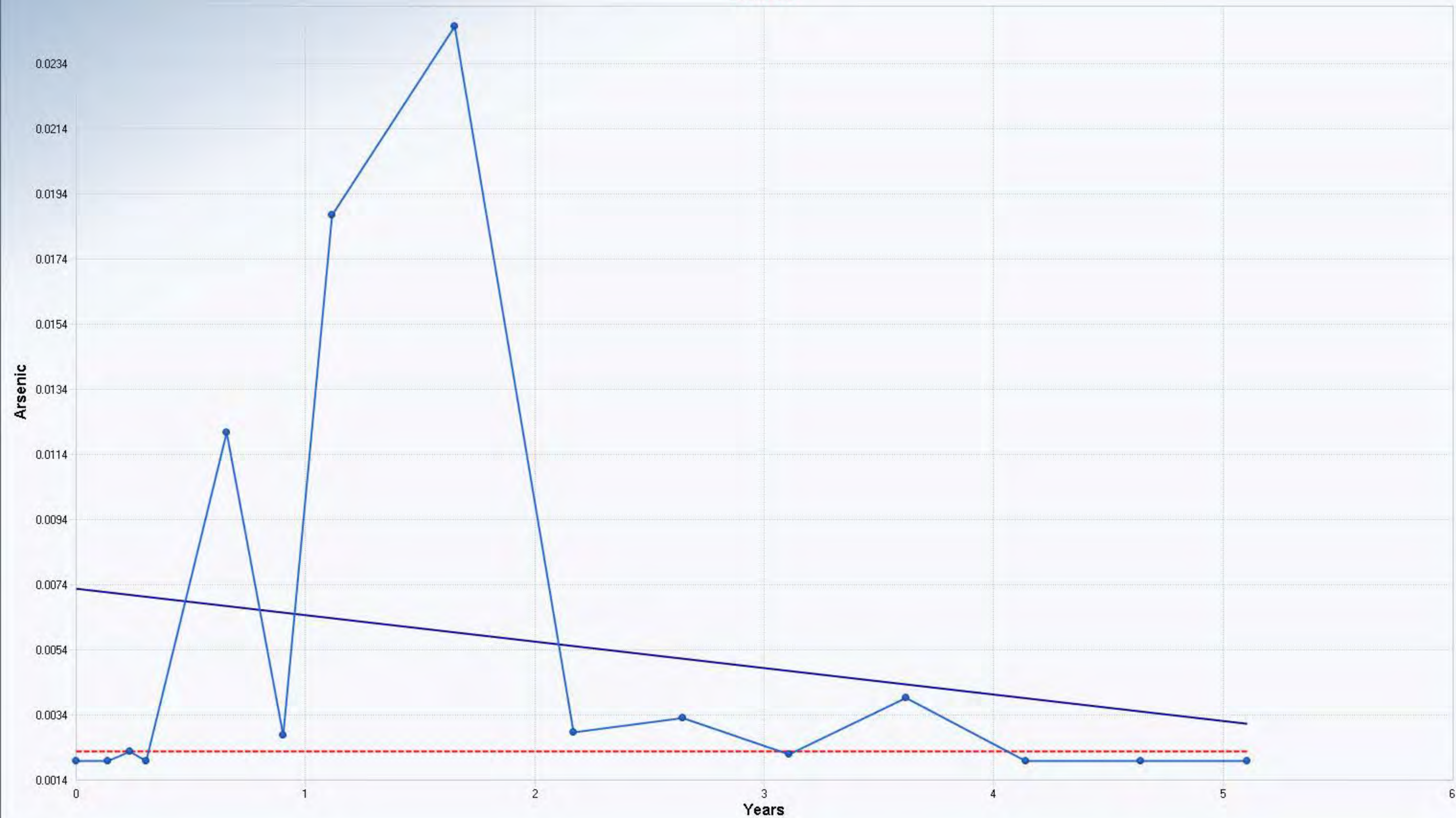
Mann-Kendall Trend Analysis	
n	15
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	20.2073
Standardized Value of S	-2.7713
M-K Test Value (S)	-57
Tabulated p-value	0.0020
Approximate p-value	0.0028
OLS Regression Line (Blue)	
OLS Regression Slope	-0.0053
OLS Regression Intercept	0.0327
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-0.0049
Theil-Sen Intercept	0.0324
Statistically significant evidence of a decreasing trend at the specified level of significance.	

MW-51



Mann-Kendall Trend Analysis	
n	15
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	20.2073
Standardized Value of S	1.4846
M-K Test Value (S)	31
Tabulated p-value	0.0700
Approximate p-value	0.0688
OLS Regression Line (Blue)	
OLS Regression Slope	0.0018
OLS Regression Intercept	0.0250
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	0.0043
Theil-Sen Intercept	0.0192
Insufficient statistical evidence of a significant trend at the specified level of significance.	

MW-52



Mann-Kendall Trend Analysis	
n	15
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	19.4936
Standardized Value of S	
M-K Test Value (S)	0
Tabulated p-value	0.5000
Approximate p-value	
OLS Regression Line (Blue)	
OLS Regression Slope	-0.0008
OLS Regression Intercept	0.0073
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	0.0000
Theil-Sen Intercept	0.0023

Insufficient statistical evidence
of a significant trend at the
specified level of significance.

MW-53

Mann-Kendall Trend Analysis	
n	15
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	0.0000
Standardized Value of S	
M-K Test Value (S)	0
Tabulated p-value	0.5000
Approximate p-value	

OLS Regression Line (Blue)	
OLS Regression Slope	0.0000
OLS Regression Intercept	0.0020

Theil-Sen Trend Line (Red)	
Theil-Sen Slope	0.0000
Theil-Sen Intercept	0.0020

Insufficient statistical evidence
of a significant trend at the
specified level of significance.

Arsenic

0.0020100
0.0020075
0.0020050
0.0020025
0.0020000
0.0019975
0.0019950
0.0019925
0.0019900

0

1

2

3

4

5

6

Years



	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 11:47:10 AM								
4	From File			MW-10 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)				14							
13	Number of Missing Events				0							
14	Number or Reported Events Used				14							
15	Number Values Reported (n)				14							
16	Minimum				0.0248							
17	Maximum				0.0654							
18	Mean				0.0442							
19	Geometric Mean				0.0422							
20	Median				0.042							
21	Standard Deviation				0.0136							
22	Coefficient of Variation				0.308							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				-45							
26	Tabulated p-value				0.007							
27	Standard Deviation of S				18.27							
28	Standardized Value of S				-2.409							
29	Approximate p-value				0.008							
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 12:12:18 PM								
4	From File			MW-43 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			15								
13	Number of Missing Events			0								
14	Number or Reported Events Used			15								
15	Number Values Reported (n)			15								
16	Minimum			0.00441								
17	Maximum			0.099								
18	Mean			0.0659								
19	Geometric Mean			0.0511								
20	Median			0.0746								
21	Standard Deviation			0.0294								
22	Coefficient of Variation			0.446								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			24								
26	Tabulated p-value			0.12								
27	Standard Deviation of S			20.18								
28	Standardized Value of S			1.14								
29	Approximate p-value			0.127								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 12:13:20 PM								
4	From File			MW-49 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			15								
13	Number of Missing Events			0								
14	Number or Reported Events Used			15								
15	Number Values Reported (n)			15								
16	Minimum			0.0311								
17	Maximum			0.0478								
18	Mean			0.0394								
19	Geometric Mean			0.0389								
20	Median			0.0378								
21	Standard Deviation			0.00605								
22	Coefficient of Variation			0.154								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			3								
26	Tabulated p-value			0.461								
27	Standard Deviation of S			20.21								
28	Standardized Value of S			0.099								
29	Approximate p-value			0.461								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 12:14:18 PM								
4	From File			MW-50 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			15								
13	Number of Missing Events			0								
14	Number or Reported Events Used			15								
15	Number Values Reported (n)			15								
16	Minimum			0.002								
17	Maximum			0.0425								
18	Mean			0.0219								
19	Geometric Mean			0.0169								
20	Median			0.0243								
21	Standard Deviation			0.0117								
22	Coefficient of Variation			0.535								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-57								
26	Tabulated p-value			0.002								
27	Standard Deviation of S			20.21								
28	Standardized Value of S			-2.771								
29	Approximate p-value			0.00279								
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 12:15:13 PM								
4	From File			MW-51 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)				15							
13	Number of Missing Events				0							
14	Number or Reported Events Used				15							
15	Number Values Reported (n)				15							
16	Minimum				0.002							
17	Maximum				0.0739							
18	Mean				0.0287							
19	Geometric Mean				0.0131							
20	Median				0.0263							
21	Standard Deviation				0.0275							
22	Coefficient of Variation				0.956							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				31							
26	Tabulated p-value				0.07							
27	Standard Deviation of S				20.21							
28	Standardized Value of S				1.485							
29	Approximate p-value				0.0688							
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

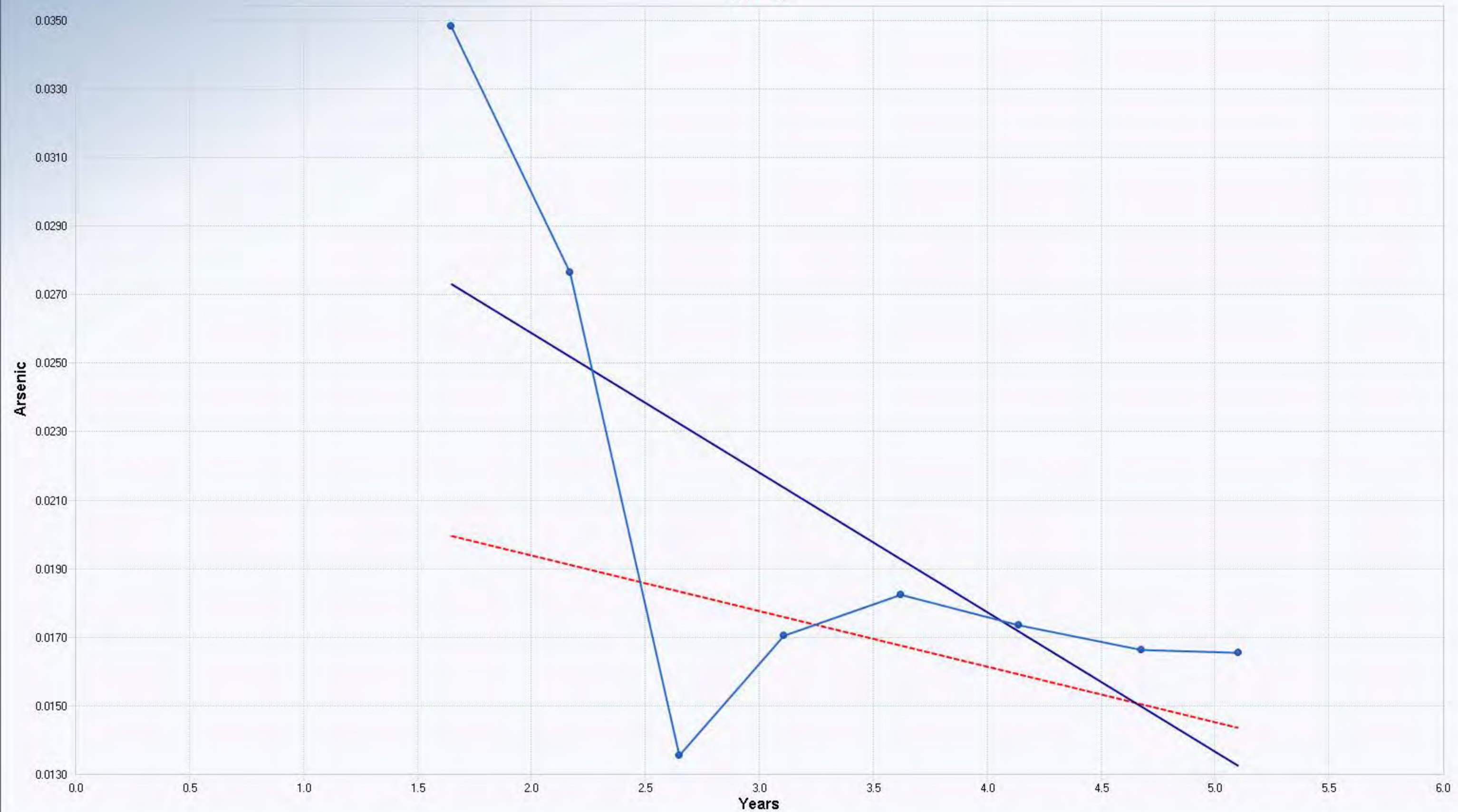
	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 12:16:10 PM								
4	From File			MW-52 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			15								
13	Number of Missing Events			0								
14	Number or Reported Events Used			15								
15	Number Values Reported (n)			15								
16	Minimum			0.002								
17	Maximum			0.0246								
18	Mean			0.00567								
19	Geometric Mean			0.00357								
20	Median			0.00232								
21	Standard Deviation			0.00707								
22	Coefficient of Variation			1.247								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			0								
26	Tabulated p-value			0.5								
27	Standard Deviation of S			19.49								
28	Standardized Value of S			N/A								
29	Approximate p-value			N/A								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 12:17:00 PM								
4	From File			MW-53 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)				15							
13	Number of Missing Events				0							
14	Number or Reported Events Used				15							
15	Number Values Reported (n)				15							
16	Minimum				0.002							
17	Maximum				0.002							
18	Mean				0.002							
19	Geometric Mean				0.002							
20	Median				0.002							
21	Standard Deviation				8.978E-19							
22	Coefficient of Variation				N/A							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				0							
26	Tabulated p-value				0.5							
27	Standard Deviation of S				0							
28	Standardized Value of S				N/A							
29	Approximate p-value				N/A							
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

Appendix C.2

2022-2025

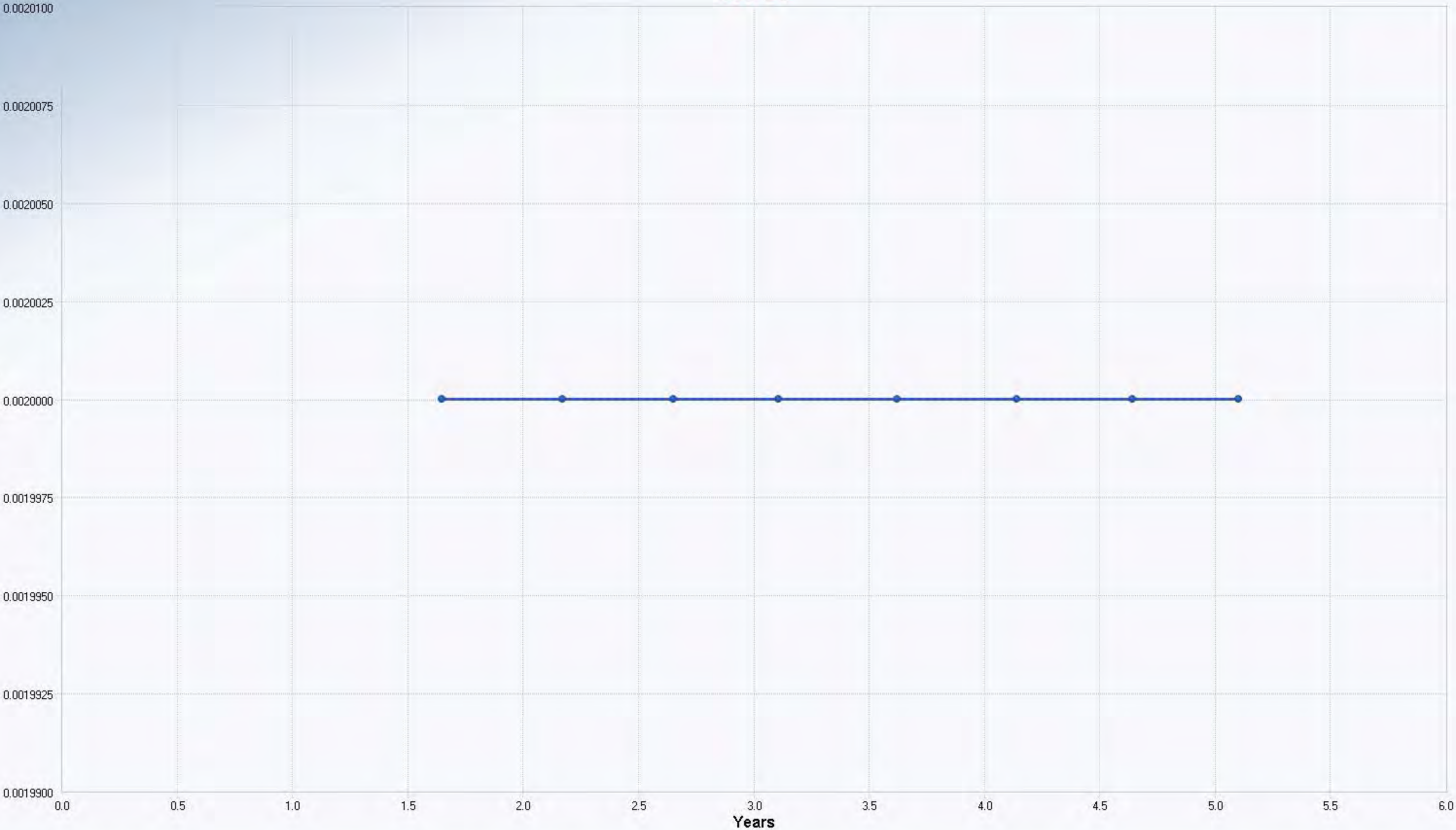
MW-02



Mann-Kendall Trend Analysis	
n	8
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	8.0829
Standardized Value of S	-1.6083
M-K Test Value (S)	-14
Tabulated p-value	0.0540
Approximate p-value	0.0539
OLS Regression Line (Blue)	
OLS Regression Slope	-0.0041
OLS Regression Intercept	0.0340
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-0.0016
Theil-Sen Intercept	0.0226
Insufficient statistical evidence of a significant trend at the specified level of significance.	

MW-26

Arsenic



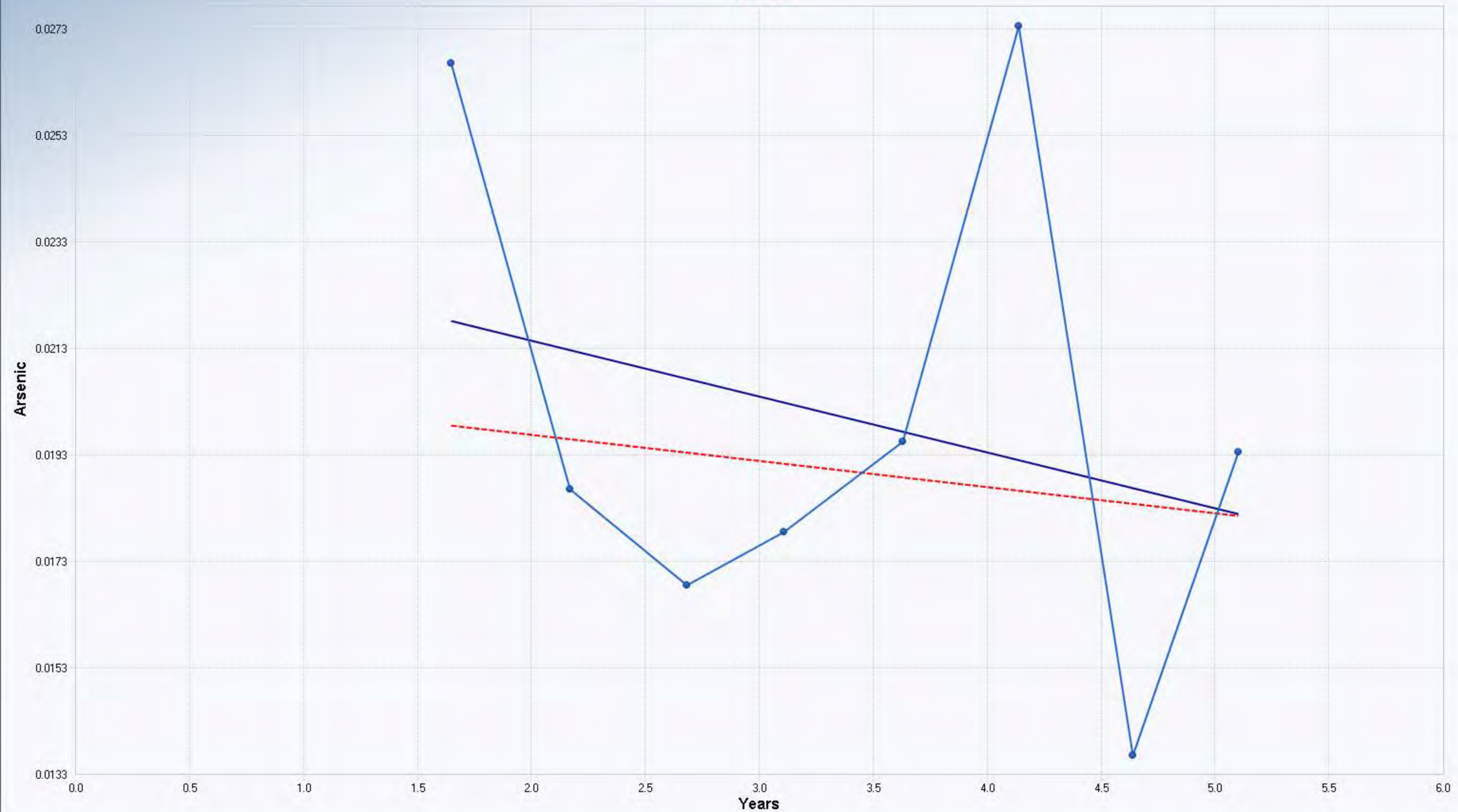
Mann-Kendall Trend Analysis	
n	8
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	0.0000
Standardized Value of S	
M-K Test Value (S)	0
Tabulated p-value	0.5480
Approximate p-value	

OLS Regression Line (Blue)	
OLS Regression Slope	0.0000
OLS Regression Intercept	0.0020

Theil-Sen Trend Line (Red)	
Theil-Sen Slope	0.0000
Theil-Sen Intercept	0.0020

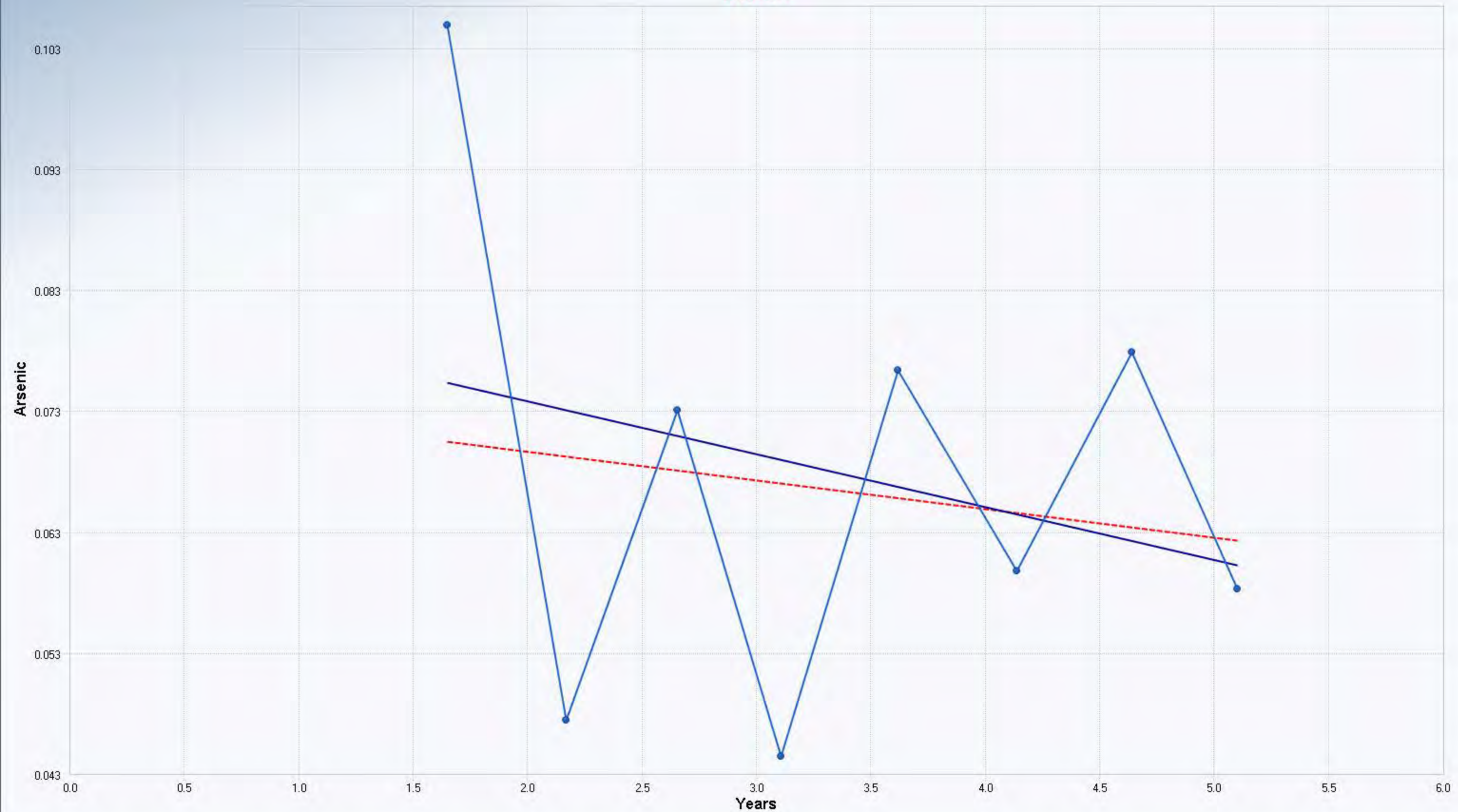
Insufficient statistical evidence
of a significant trend at the
specified level of significance.

MW-28



Mann-Kendall Trend Analysis	
n	8
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	8.0829
Standardized Value of S	-0.1237
M-K Test Value (S)	-2
Tabulated p-value	0.4520
Approximate p-value	0.4508
OLS Regression Line (Blue)	
OLS Regression Slope	-0.0011
OLS Regression Intercept	0.0236
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-0.0005
Theil-Sen Intercept	0.0207
Insufficient statistical evidence of a significant trend at the specified level of significance.	

MW-30



Mann-Kendall Trend Analysis

n	8
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	8.0829
Standardized Value of S	-0.1237
M-K Test Value (S)	-2
Tabulated p-value	0.4520
Approximate p-value	0.4508

OLS Regression Line (Blue)

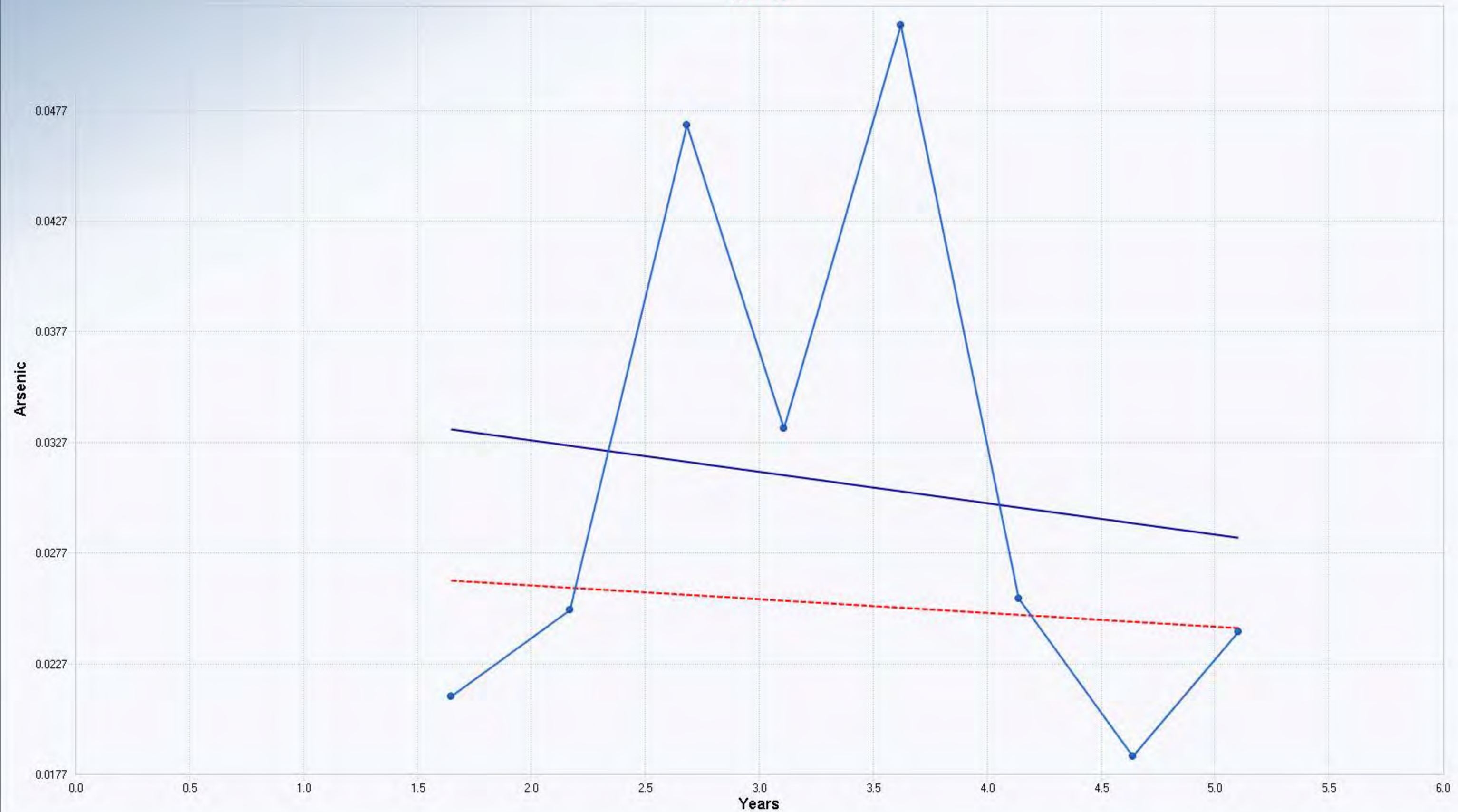
OLS Regression Slope	-0.0044
OLS Regression Intercept	0.0827

Theil-Sen Trend Line (Red)

Theil-Sen Slope	-0.0024
Theil-Sen Intercept	0.0746

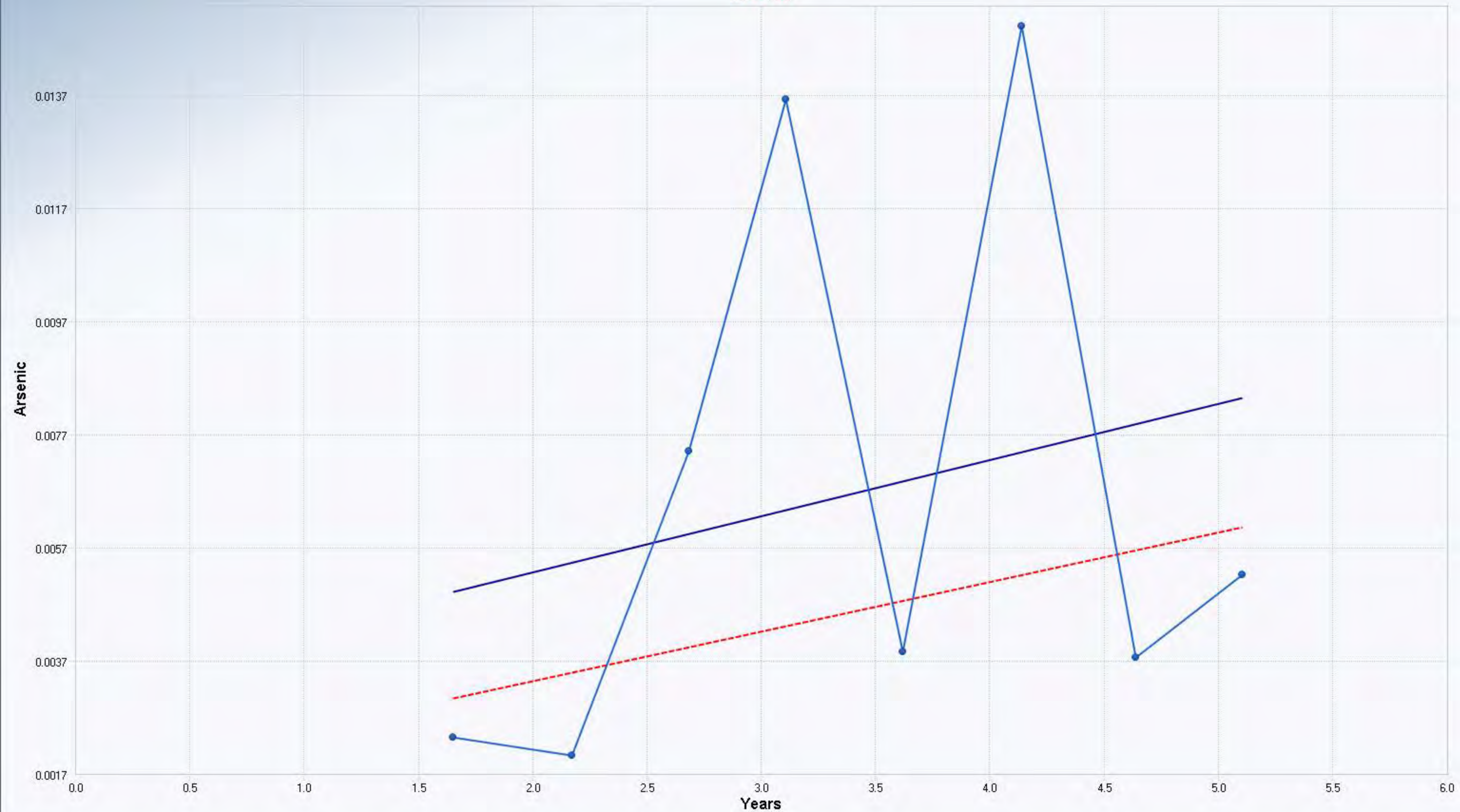
Insufficient statistical evidence of a significant trend at the specified level of significance.

MW-32



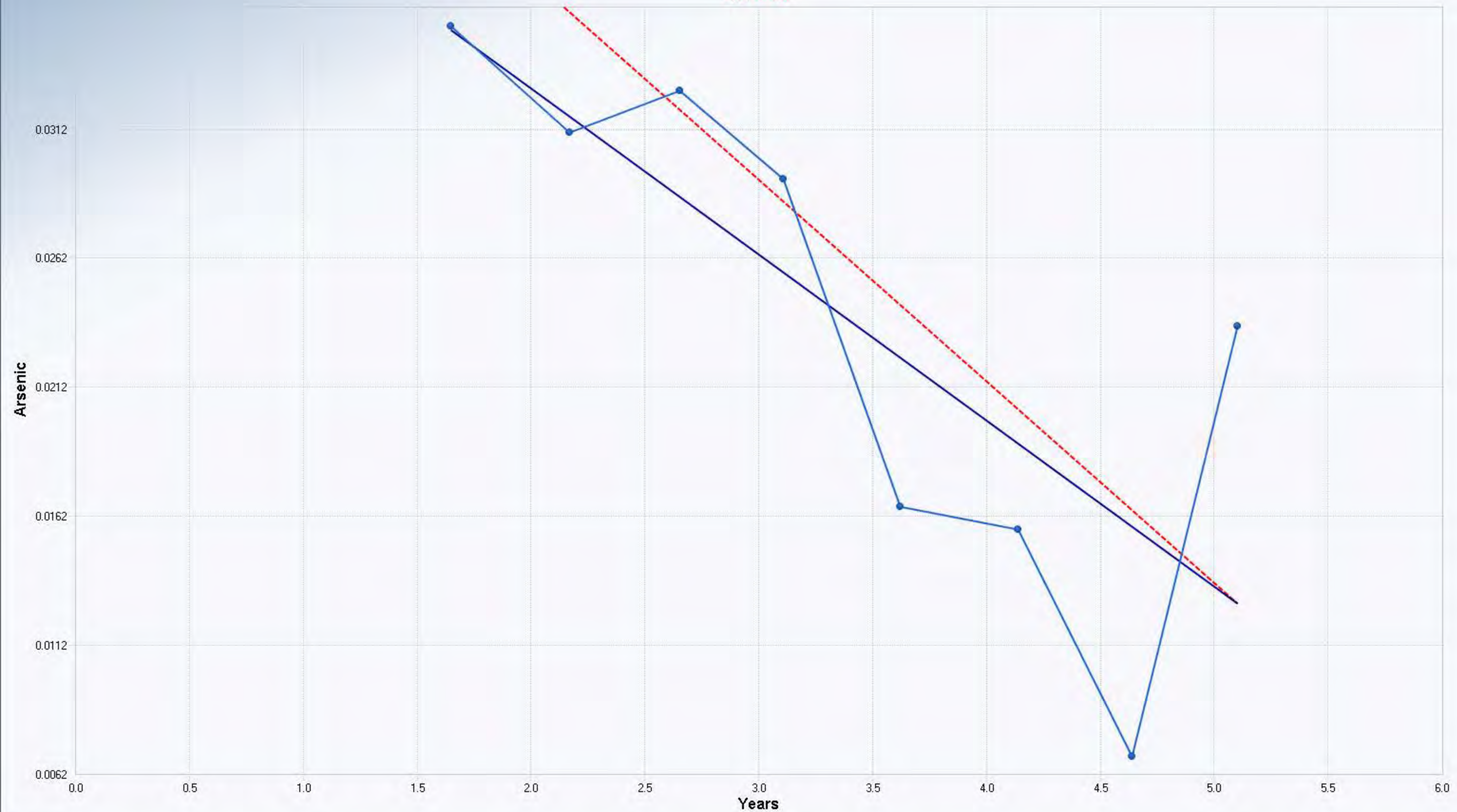
Mann-Kendall Trend Analysis	
n	8
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	8.0829
Standardized Value of S	-0.1237
M-K Test Value (S)	-2
Tabulated p-value	0.4520
Approximate p-value	0.4508
OLS Regression Line (Blue)	
OLS Regression Slope	-0.0014
OLS Regression Intercept	0.0356
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-0.0006
Theil-Sen Intercept	0.0274
Insufficient statistical evidence of a significant trend at the specified level of significance.	

MW-33



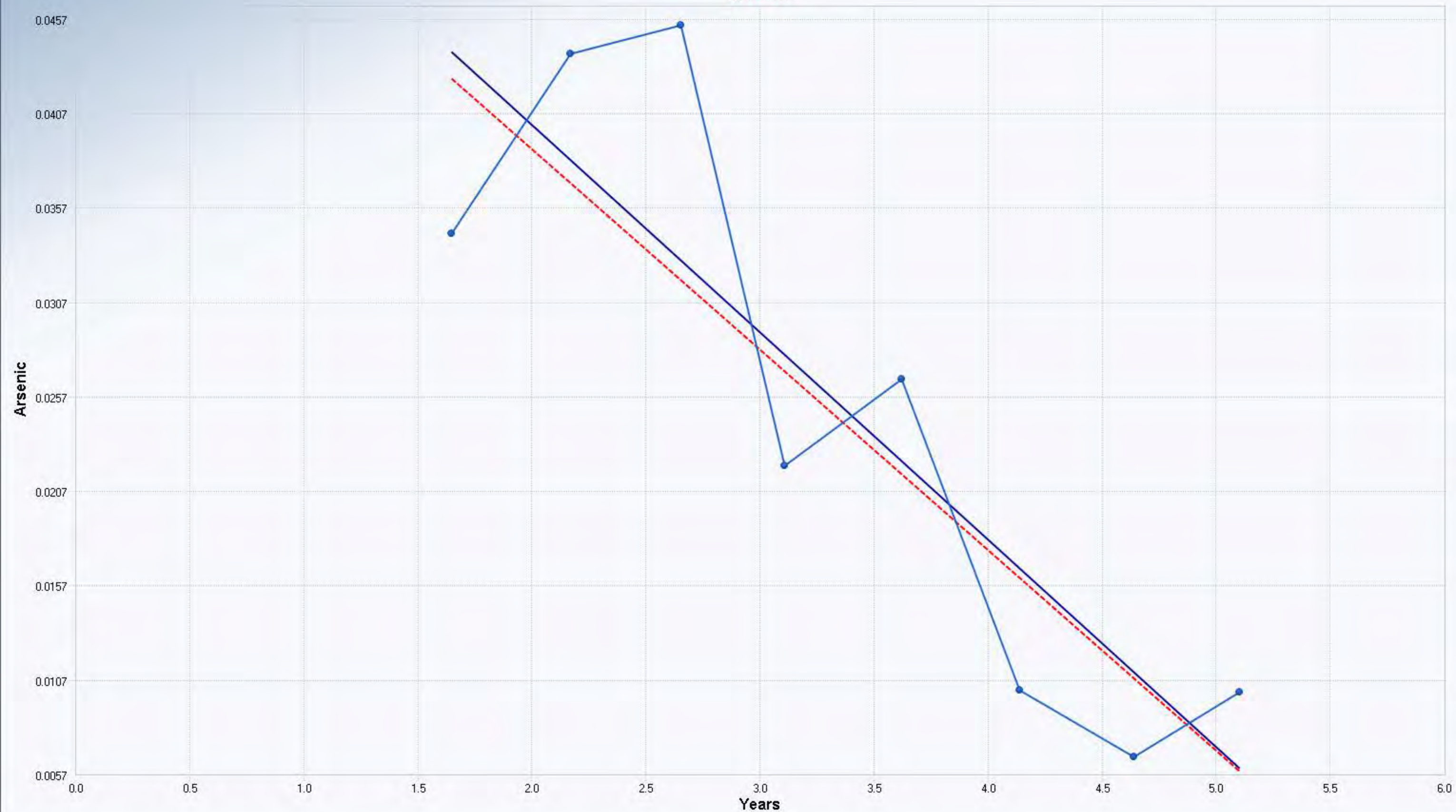
Mann-Kendall Trend Analysis	
n	8
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	8.0829
Standardized Value of S	0.8660
M-K Test Value (S)	8
Tabulated p-value	0.1190
Approximate p-value	0.1932
OLS Regression Line (Blue)	
OLS Regression Slope	0.0010
OLS Regression Intercept	0.0033
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	0.0009
Theil-Sen Intercept	0.0016
Insufficient statistical evidence of a significant trend at the specified level of significance.	

MW-34



Mann-Kendall Trend Analysis	
n	8
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	8.0829
Standardized Value of S	-2.3506
M-K Test Value (S)	-20
Tabulated p-value	0.0070
Approximate p-value	0.0094
OLS Regression Line (Blue)	
OLS Regression Slope	-0.0064
OLS Regression Intercept	0.0457
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-0.0078
Theil-Sen Intercept	0.0528
Statistically significant evidence of a decreasing trend at the specified level of significance.	

MW-36



Mann-Kendall Trend Analysis	
n	8
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	8.0829
Standardized Value of S	-2.1032
M-K Test Value (S)	-18
Tabulated p-value	0.0160
Approximate p-value	0.0177
OLS Regression Line (Blue)	
OLS Regression Slope	-0.0110
OLS Regression Intercept	0.0622
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-0.0106
Theil-Sen Intercept	0.0601
Statistically significant evidence of a decreasing trend at the specified level of significance.	

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 3:15:50 PM								
4	From File			MW-02 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			8								
13	Number of Missing Events			0								
14	Number or Reported Events Used			8								
15	Number Values Reported (n)			8								
16	Minimum			0.0135								
17	Maximum			0.0348								
18	Mean			0.0202								
19	Geometric Mean			0.0193								
20	Median			0.0172								
21	Standard Deviation			0.00719								
22	Coefficient of Variation			0.356								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-14								
26	Tabulated p-value			0.054								
27	Standard Deviation of S			8.083								
28	Standardized Value of S			-1.608								
29	Approximate p-value			0.0539								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 3:18:16 PM								
4	From File			MW-26 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			8								
13	Number of Missing Events			0								
14	Number or Reported Events Used			8								
15	Number Values Reported (n)			8								
16	Minimum			0.002								
17	Maximum			0.002								
18	Mean			0.002								
19	Geometric Mean			0.002								
20	Median			0.002								
21	Standard Deviation			0								
22	Coefficient of Variation			N/A								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			0								
26	Tabulated p-value			0.548								
27	Standard Deviation of S			0								
28	Standardized Value of S			N/A								
29	Approximate p-value			N/A								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 3:22:37 PM								
4	From File			MW-28 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			8								
13	Number of Missing Events			0								
14	Number of Reported Events Used			8								
15	Number Values Reported (n)			8								
16	Minimum			0.0137								
17	Maximum			0.0274								
18	Mean			0.02								
19	Geometric Mean			0.0196								
20	Median			0.0191								
21	Standard Deviation			0.00471								
22	Coefficient of Variation			0.235								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-2								
26	Tabulated p-value			0.452								
27	Standard Deviation of S			8.083								
28	Standardized Value of S			-0.124								
29	Approximate p-value			0.451								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 3:27:07 PM								
4	From File			MW-30 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			8								
13	Number of Missing Events			0								
14	Number or Reported Events Used			8								
15	Number Values Reported (n)			8								
16	Minimum			0.0446								
17	Maximum			0.105								
18	Mean			0.0679								
19	Geometric Mean			0.0655								
20	Median			0.0666								
21	Standard Deviation			0.0196								
22	Coefficient of Variation			0.289								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-2								
26	Tabulated p-value			0.452								
27	Standard Deviation of S			8.083								
28	Standardized Value of S			-0.124								
29	Approximate p-value			0.451								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 3:28:05 PM								
4	From File			MW-32 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			8								
13	Number of Missing Events			0								
14	Number or Reported Events Used			8								
15	Number Values Reported (n)			8								
16	Minimum			0.0185								
17	Maximum			0.0515								
18	Mean			0.0308								
19	Geometric Mean			0.0289								
20	Median			0.0254								
21	Standard Deviation			0.0122								
22	Coefficient of Variation			0.397								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-2								
26	Tabulated p-value			0.452								
27	Standard Deviation of S			8.083								
28	Standardized Value of S			-0.124								
29	Approximate p-value			0.451								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

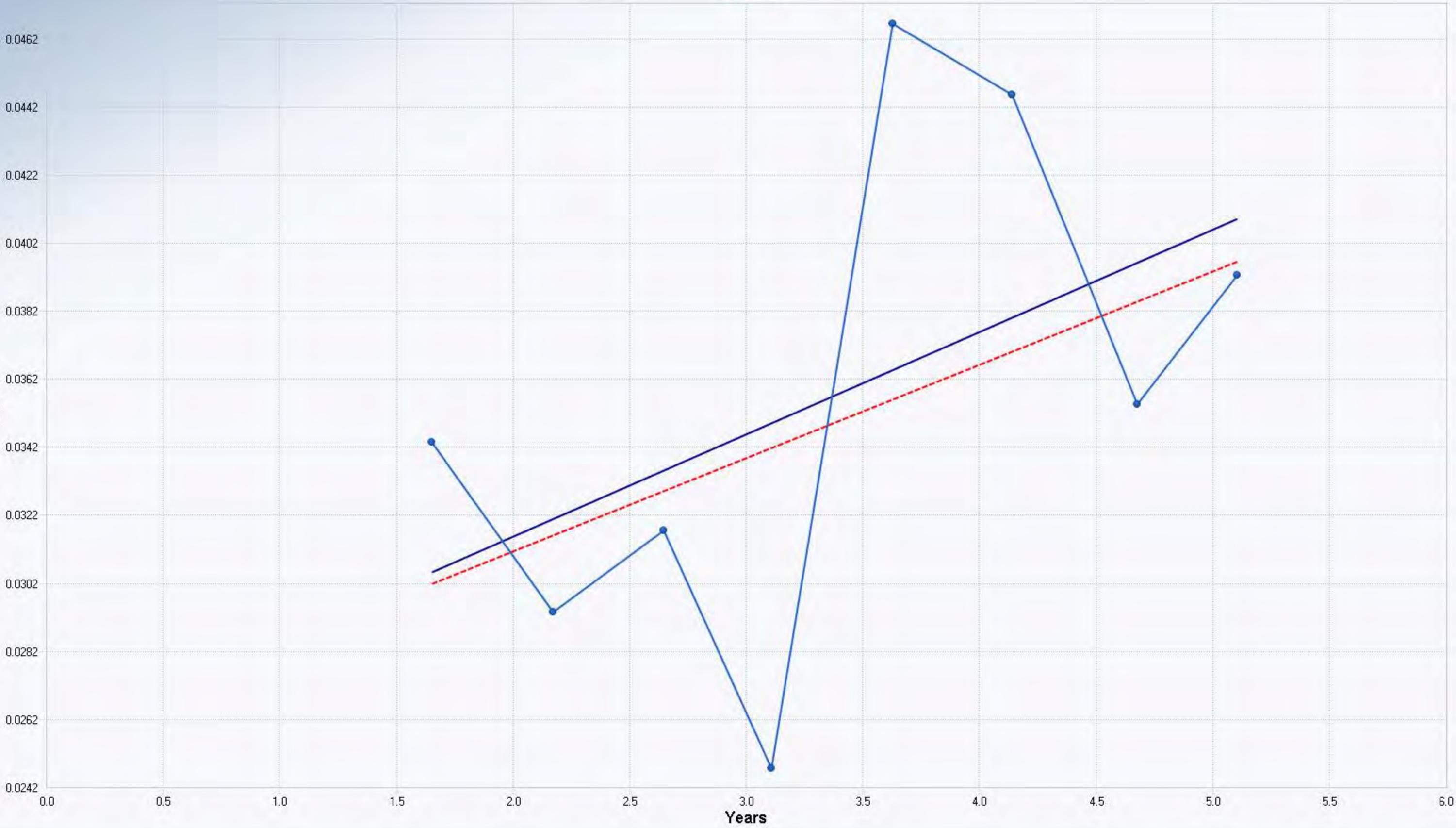
	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 3:29:16 PM								
4	From File			MW-33 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			8								
13	Number of Missing Events			0								
14	Number or Reported Events Used			8								
15	Number Values Reported (n)			8								
16	Minimum			0.002								
17	Maximum			0.0149								
18	Mean			0.00662								
19	Geometric Mean			0.00518								
20	Median			0.00452								
21	Standard Deviation			0.00501								
22	Coefficient of Variation			0.757								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			8								
26	Tabulated p-value			0.119								
27	Standard Deviation of S			8.083								
28	Standardized Value of S			0.866								
29	Approximate p-value			0.193								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 3:30:08 PM								
4	From File			MW-34 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			8								
13	Number of Missing Events			0								
14	Number or Reported Events Used			8								
15	Number Values Reported (n)			8								
16	Minimum			0.00694								
17	Maximum			0.0352								
18	Mean			0.0239								
19	Geometric Mean			0.0214								
20	Median			0.0265								
21	Standard Deviation			0.00996								
22	Coefficient of Variation			0.417								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-20								
26	Tabulated p-value			0.007								
27	Standard Deviation of S			8.083								
28	Standardized Value of S			-2.351								
29	Approximate p-value			0.00937								
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 3:33:42 PM								
4	From File			MW-36 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			8								
13	Number of Missing Events			0								
14	Number or Reported Events Used			8								
15	Number Values Reported (n)			8								
16	Minimum			0.00671								
17	Maximum			0.0454								
18	Mean			0.0249								
19	Geometric Mean			0.0202								
20	Median			0.0244								
21	Standard Deviation			0.0153								
22	Coefficient of Variation			0.615								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-18								
26	Tabulated p-value			0.016								
27	Standard Deviation of S			8.083								
28	Standardized Value of S			-2.103								
29	Approximate p-value			0.0177								
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

MW-10

Arsenic



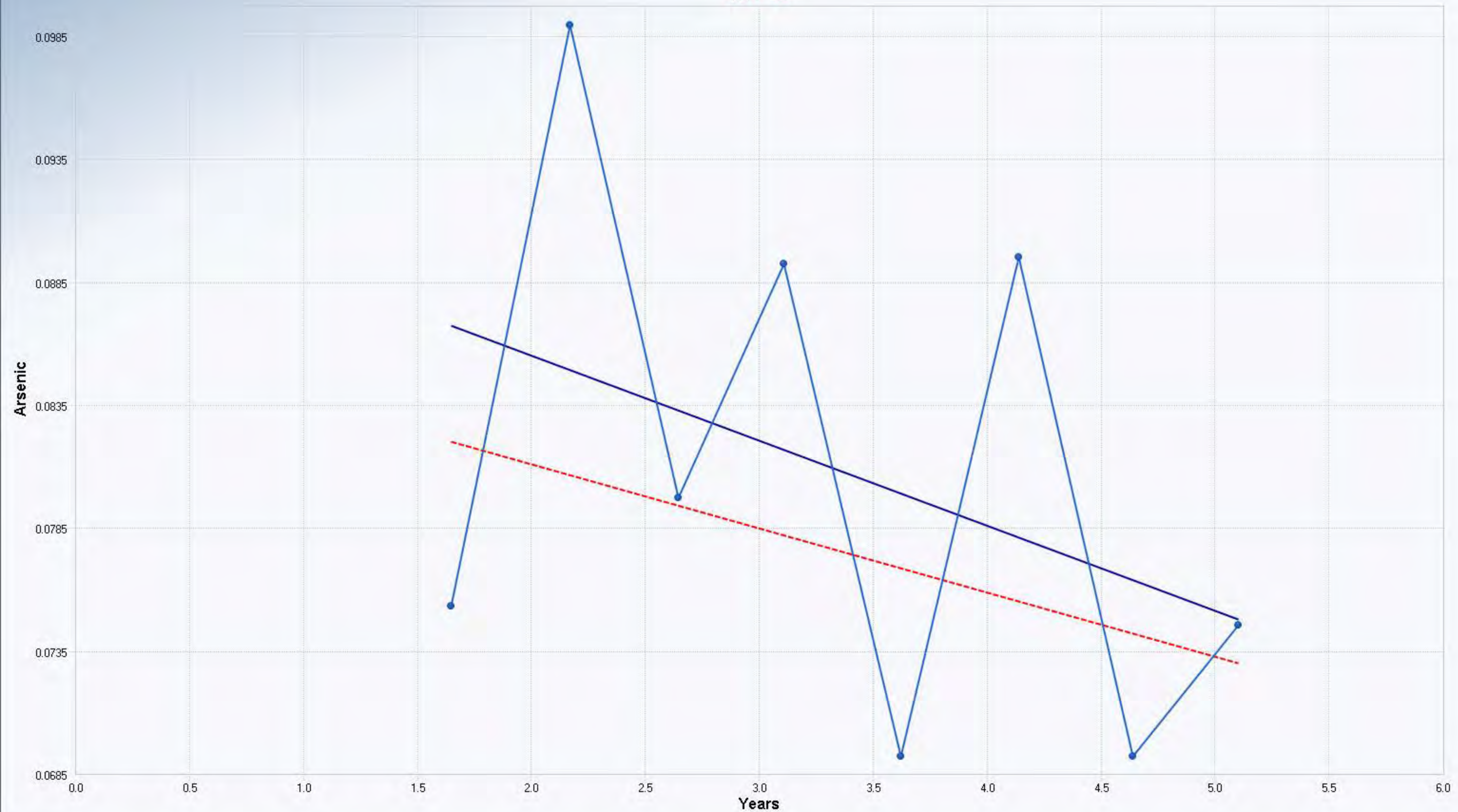
Mann-Kendall Trend Analysis	
n	8
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	8.0829
Standardized Value of S	0.8660
M-K Test Value (S)	8
Tabulated p-value	0.1190
Approximate p-value	0.1932

OLS Regression Line (Blue)	
OLS Regression Slope	0.0030
OLS Regression Intercept	0.0256

Theil-Sen Trend Line (Red)	
Theil-Sen Slope	0.0027
Theil-Sen Intercept	0.0257

Insufficient statistical evidence
of a significant trend at the
specified level of significance.

MW-43



Mann-Kendall Trend Analysis	
n	8
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	8.0208
Standardized Value of S	-0.7481
M-K Test Value (S)	-7
Tabulated p-value	0.2740
Approximate p-value	0.2272

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0035
OLS Regression Intercept	0.0925

Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-0.0026
Theil-Sen Intercept	0.0864

Insufficient statistical evidence of a significant trend at the specified level of significance.

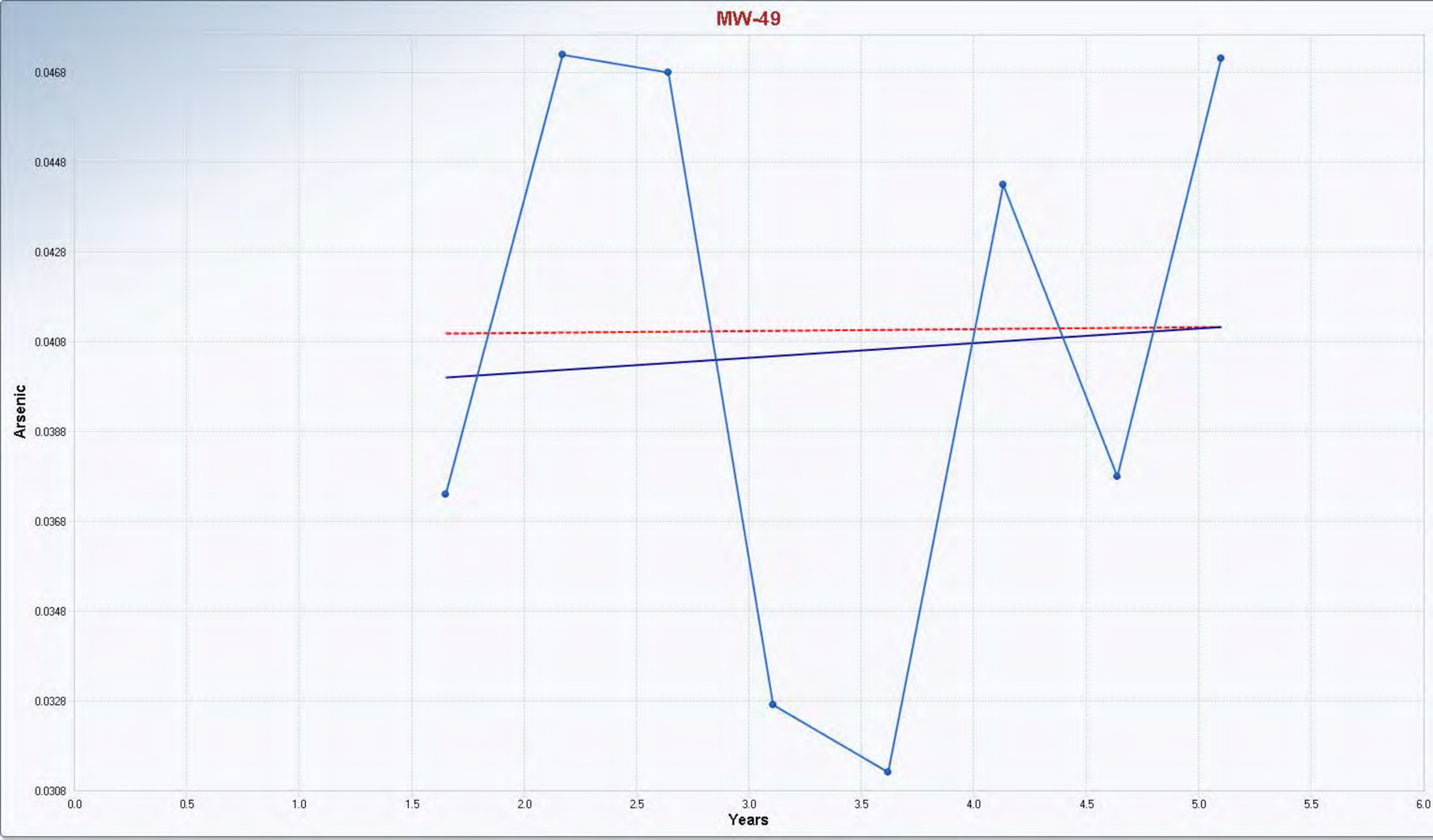
MW-49

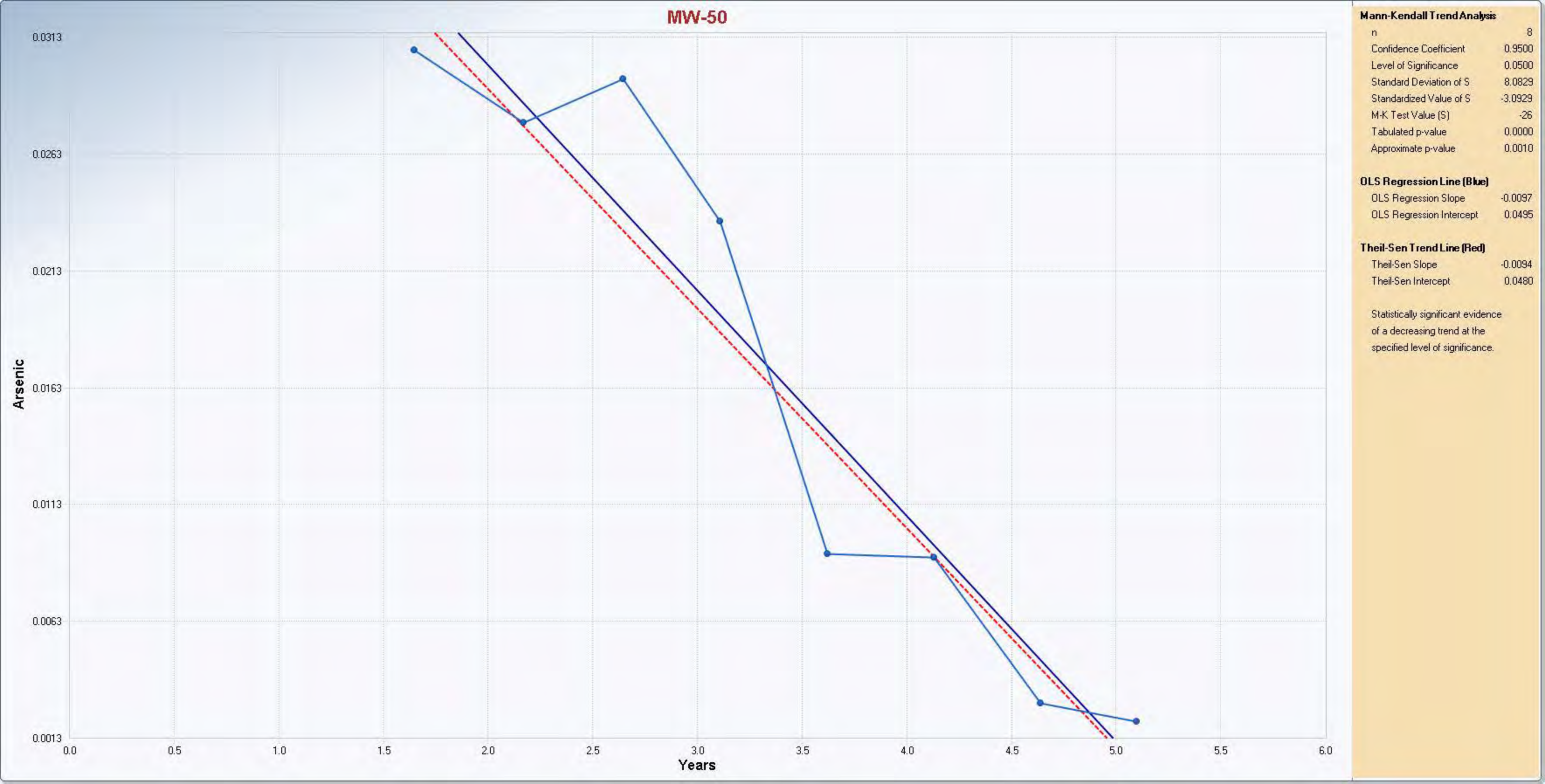
Mann-Kendall Trend Analysis	
n	8
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	8.0829
Standardized Value of S	
M-K Test Value (S)	0
Tabulated p-value	0.5480
Approximate p-value	

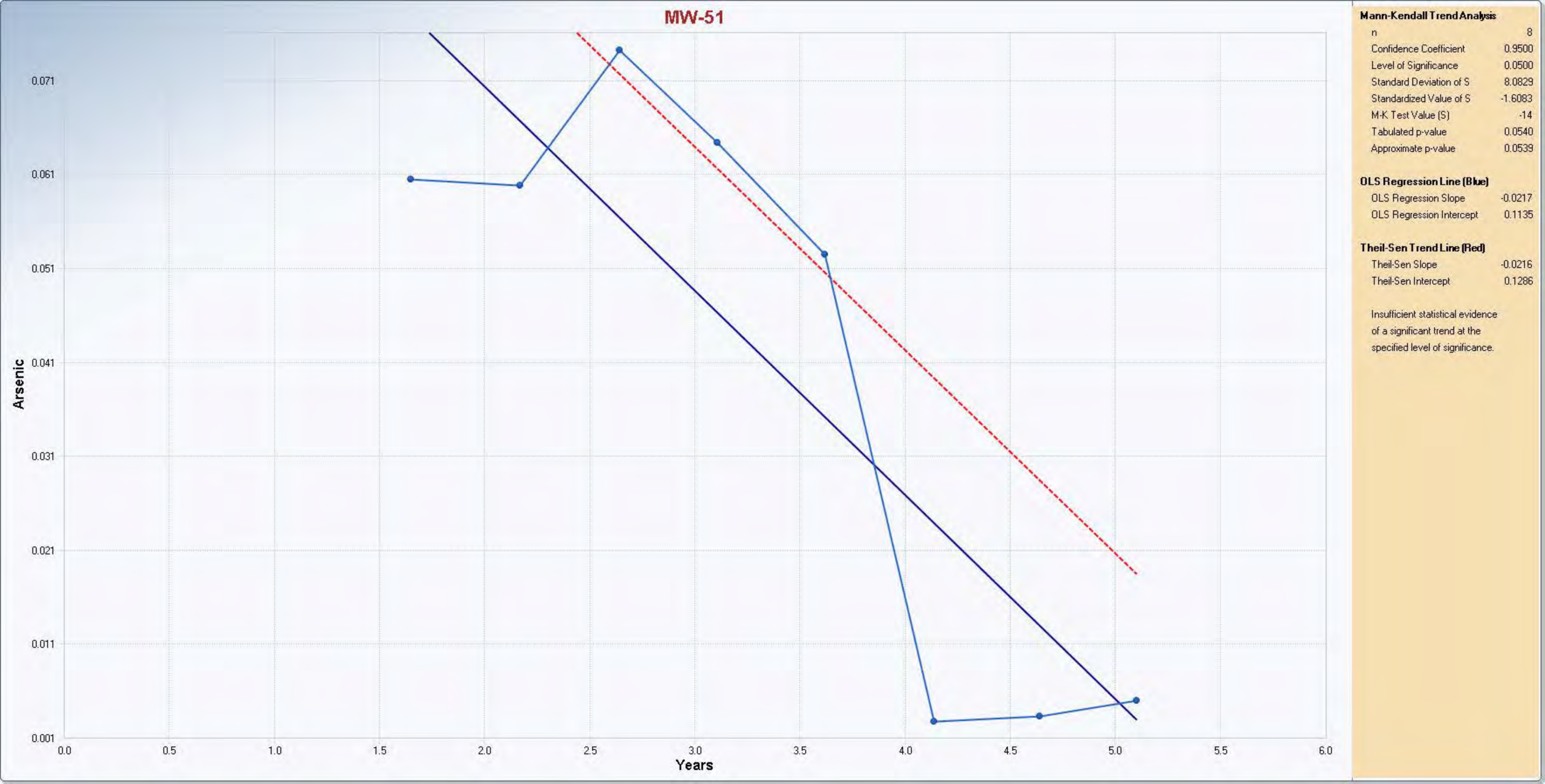
OLS Regression Line (Blue)	
OLS Regression Slope	0.0003
OLS Regression Intercept	0.0395

Theil-Sen Trend Line (Red)	
Theil-Sen Slope	0.0000
Theil-Sen Intercept	0.0409

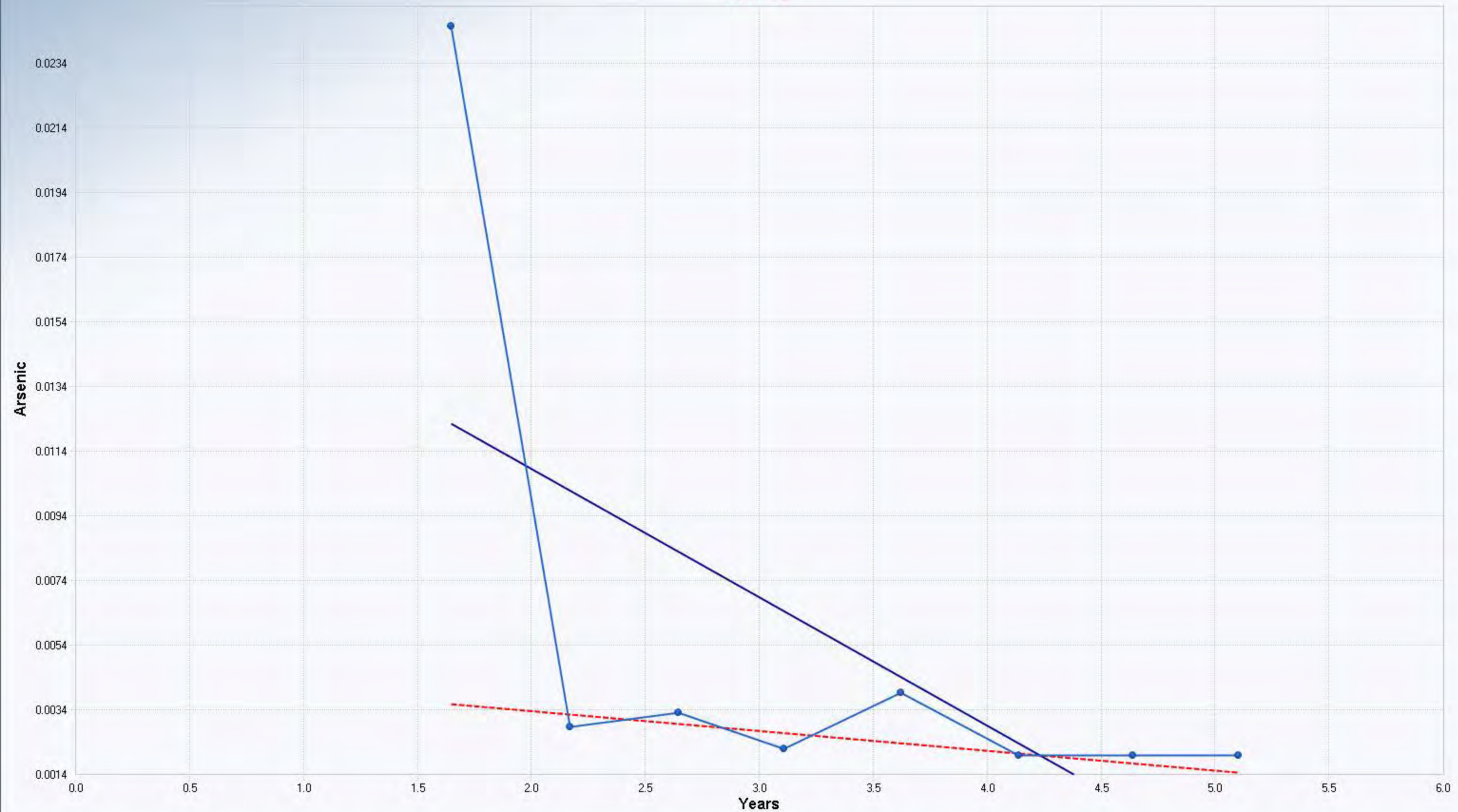
Insufficient statistical evidence
of a significant trend at the
specified level of significance.







MW-52



Mann-Kendall Trend Analysis	
n	8
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	7.8528
Standardized Value of S	-2.0375
M-K Test Value (S)	-17
Tabulated p-value	0.0310
Approximate p-value	0.0208
OLS Regression Line (Blue)	
OLS Regression Slope	-0.0040
OLS Regression Intercept	0.0189
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-0.0006
Theil-Sen Intercept	0.0046
Statistically significant evidence of a decreasing trend at the specified level of significance.	

MW-53

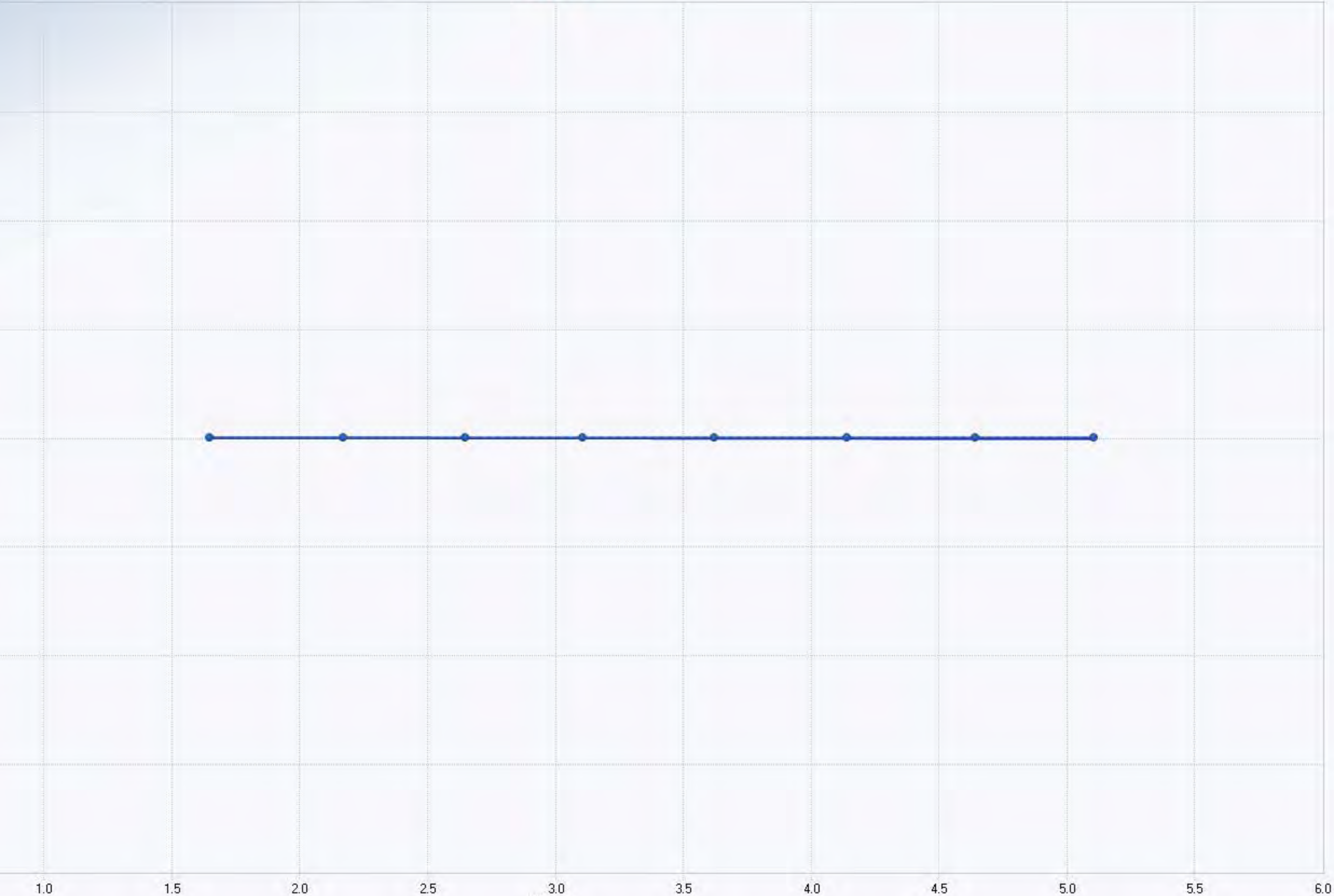
Arsenic

Years

Mann-Kendall Trend Analysis	
n	8
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	0.0000
Standardized Value of S	
M-K Test Value (S)	0
Tabulated p-value	0.5480
Approximate p-value	

OLS Regression Line (Blue)	
OLS Regression Slope	0.0000
OLS Regression Intercept	0.0020
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	0.0000
Theil-Sen Intercept	0.0020

Insufficient statistical evidence
of a significant trend at the
specified level of significance.



	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 3:17:15 PM								
4	From File			MW-10 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			8								
13	Number of Missing Events			0								
14	Number or Reported Events Used			8								
15	Number Values Reported (n)			8								
16	Minimum			0.0248								
17	Maximum			0.0467								
18	Mean			0.0358								
19	Geometric Mean			0.0351								
20	Median			0.035								
21	Standard Deviation			0.00745								
22	Coefficient of Variation			0.208								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			8								
26	Tabulated p-value			0.119								
27	Standard Deviation of S			8.083								
28	Standardized Value of S			0.866								
29	Approximate p-value			0.193								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 3:34:39 PM								
4	From File			MW-43 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			8								
13	Number of Missing Events			0								
14	Number or Reported Events Used			8								
15	Number Values Reported (n)			8								
16	Minimum			0.0693								
17	Maximum			0.099								
18	Mean			0.0808								
19	Geometric Mean			0.0802								
20	Median			0.0776								
21	Standard Deviation			0.0108								
22	Coefficient of Variation			0.133								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-7								
26	Tabulated p-value			0.274								
27	Standard Deviation of S			8.021								
28	Standardized Value of S			-0.748								
29	Approximate p-value			0.227								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 3:35:31 PM								
4	From File			MW-49 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			8								
13	Number of Missing Events			0								
14	Number or Reported Events Used			8								
15	Number Values Reported (n)			8								
16	Minimum			0.0312								
17	Maximum			0.0472								
18	Mean			0.0406								
19	Geometric Mean			0.0401								
20	Median			0.0411								
21	Standard Deviation			0.00662								
22	Coefficient of Variation			0.163								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			0								
26	Tabulated p-value			0.548								
27	Standard Deviation of S			8.083								
28	Standardized Value of S			N/A								
29	Approximate p-value			N/A								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 3:36:40 PM								
4	From File			MW-50 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)				8							
13	Number of Missing Events				0							
14	Number or Reported Events Used				8							
15	Number Values Reported (n)				8							
16	Minimum				0.002							
17	Maximum				0.0307							
18	Mean				0.0168							
19	Geometric Mean				0.0113							
20	Median				0.0163							
21	Standard Deviation				0.0122							
22	Coefficient of Variation				0.73							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				-26							
26	Tabulated p-value				0							
27	Standard Deviation of S				8.083							
28	Standardized Value of S				-3.093							
29	Approximate p-value				9.9089E-4							
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 3:37:44 PM								
4	From File			MW-51 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			8								
13	Number of Missing Events			0								
14	Number or Reported Events Used			8								
15	Number Values Reported (n)			8								
16	Minimum			0.0025								
17	Maximum			0.0739								
18	Mean			0.04								
19	Geometric Mean			0.0205								
20	Median			0.0559								
21	Standard Deviation			0.0309								
22	Coefficient of Variation			0.773								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-14								
26	Tabulated p-value			0.054								
27	Standard Deviation of S			8.083								
28	Standardized Value of S			-1.608								
29	Approximate p-value			0.0539								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 3:38:52 PM								
4	From File			MW-52 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			8								
13	Number of Missing Events			0								
14	Number or Reported Events Used			8								
15	Number Values Reported (n)			8								
16	Minimum			0.002								
17	Maximum			0.0246								
18	Mean			0.00538								
19	Geometric Mean			0.00337								
20	Median			0.00256								
21	Standard Deviation			0.0078								
22	Coefficient of Variation			1.45								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-17								
26	Tabulated p-value			0.031								
27	Standard Deviation of S			7.853								
28	Standardized Value of S			-2.037								
29	Approximate p-value			0.0208								
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.110/21/2025 3:40:06 PM								
4	From File			MW-53 MK.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Events Reported (m)			8								
13	Number of Missing Events			0								
14	Number or Reported Events Used			8								
15	Number Values Reported (n)			8								
16	Minimum			0.002								
17	Maximum			0.002								
18	Mean			0.002								
19	Geometric Mean			0.002								
20	Median			0.002								
21	Standard Deviation			0								
22	Coefficient of Variation			N/A								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			0								
26	Tabulated p-value			0.548								
27	Standard Deviation of S			0								
28	Standardized Value of S			N/A								
29	Approximate p-value			N/A								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											



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