2021 Groundwater Monitoring Program Report

Superior Terminal
Superior, Wisconsin

Prepared for
Enbridge Energy

July 2021

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ENBRIDGE ENERGY LIMITED PARTNERSHIP
GROUNDWATER MONITORING PROGRAM - REPORT FORM
(Superior Terminal – Superior, WI)
Sample Dates: May 10 – 14, 2021

I. Site Location

Site Name/Address: *Superior Terminal, 2800 East 21st Street, Superior, WI, 54880*
Milepost: *1098* Location Map Attached? ☒ Yes ☐ No *See Figure 1*

Legal Description: ___¼, ___ ¼, Sec *31, 36*, T *49* , R *13, 14* County: *Douglas* State: *WI*

II. Review of Physical Setting

Topography/Run-off Direction: *South*

Surrounding Land Use:

Industrial/Forest/Residential	North
Forest/Nemadji River/Golf Course	South
Industry/Forest	West
Forest/Nemadji River	East

Adjacent Water Bodies? *Yes – to the South and East*

Name of water body (if applicable): *Nemadji River*

III. Monitoring Well Data

Monitoring Wells: *28* Site Map with Monitoring Well Locations Attached? ☒ Yes ☐ No *See Figure 2*
 # Private Wells: 3 *Site Map with Private Well Locations Attached* ☒ Yes ☐ No *See Figure 2*

Enbridge Key Number 3382; Barr Engineering Co. Key Number 32437 (MW-14 and MW-15)

Well Locations (GPS Coordinates):

MW-1R	N *46.68707°* W *-92.06922°*	MW-2	N *46.68069°* W *-92.06667°*	MW-5	N *46.68819°* W *-92.05092°*
MW-5B	N *46.68817°* W *-92.05091°*	MW-6	N *46.68393°* W *-92.06184°*	MW-6B	N *46.68392°* W *-92.06187°*
MW-10	N *46.68124°* W *-92.05694°*	MW-11	N *46.68428°* W *-92.05247°*	MW-11B	N *46.68419°* W *-92.05694°*
MW-12	N *46.69058°* W *-92.05075°*	MW-14	N *46.68348°* W *-92.06680°*	MW-15	N *46.68456°* W *-92.06717°*
MW-17	N *46.68977°* W *-92.04828°*	MW-17B	N *46.68978°* W *-92.04832°*	MW-18	N *46.69081°* W *-92.04665°*

MW-19A	N *46.69014°* W *-92.06411°*	MW-19B	N *46.69015°* W *-92.06409°*	MW-20A	N *46.68565°* W *-92.05740°*
MW-20B	N *46.68564°* W *-92.05738°*	MW-21A	N *46.68188°* W *-92.06080°*	MW-21B	N *46.68190°* W *-92.06079°*
MW-22B	N *46.68350°* W *-92.05313°*	MW-23B	N *46.68658°* W *-92.05070°*	MW-24A	N *46.69037°* W *-92.05623°*
MW-24B	N *46.69039°* W *-92.05620°*	MW-25A	N *46.69449°* W *-92.04603°*	MW-25B	N *46.69450°* W *-92.04604°*
MW-26	N *46.69683°* W *-92.05110°*				

Average Groundwater Depth (Shallow Wells): *6.21 feet below grade*
Average Groundwater Depth (Deep Wells): *13.38 feet below grade*

Groundwater Elevation and Survey Data Attached? ☒ Yes ☐ No *See Table 1*

Groundwater Samples Collected? ☒ Yes ☐ No #Sampling Events: *1 (May 2021)*

Analytical Laboratory Name & Location: *Pace Analytical, Green Bay, WI.*

Analytical Parameters Submitted:

Groundwater: petroleum volatile organic compounds (PVOCs: 1,2,4 – trimethylbenzene; 1,3,5-trimethylbenzene; benzene; ethylbenzene; toluene; total xylenes; and methyl-tert-butyl ether (MTBE)) and naphthalene.
Private Wells: BTEX (benzene; toluene; ethylbenzene; total xylenes); chloride; iron; nitrate plus nitrite; total coliform; fecal coliform as E. coli; and pH.

Analytical Laboratory Reports Attached? ☒ Yes ☐ No - *See Appendix A, Laboratory Analytical Reports (monitoring well sampling) / Appendix D, Private Well Memo (private well sampling)*

Analytes Detected?

Groundwater: ☐ Yes ☒ No *See Table 2 and Appendix A*

Private Wells: ☒ Yes ☐ No *See Appendix D (Iron, chloride and elevated pH; total coliform in PW-2)*

Free Product Encountered? ☐ Yes ☒ No Location: *N/A*

IV. Monitoring Well Conditions (well by well)

- MW-1R was in good condition, recovery rate was poor, purge water was clear, no evidence of contamination (i.e., odor, discoloration, sheen) was observed.
- MW-2 was in good condition, recovery rate was poor, purge water was clear to slightly turbid, no evidence of contamination was observed. The well lock was difficult to open and had to be lubricated with powered graphite to open. Vegetation was overgrown around the monitoring well.
- MW-5 was in good condition, recovery rate was poor, purge water was clear to slightly turbid, no evidence of contamination was observed.
- MW-5B was in good condition, recovery rate was poor, purge water was clear, no evidence of contamination was observed. The well lock was difficult to open and had to be lubricated with powered graphite to open.
- MW-6 was in good condition, recovery rate was poor, purge water was clear to slightly turbid, no evidence of contamination was observed. The exterior steel protective casing paint was faded and rusty; therefore, it was re-painted with low VOC, high visibility yellow paint on May 14.
- MW-6B was in good condition, recovery rate was poor, purge water was clear to turbid, no evidence of contamination was observed. The loose concrete around the steel protective casing was removed on May 11. The exterior casing paint was faded and rusty; therefore, it was re-painted with low VOC, high visibility yellow paint on May 14.
- MW-10 was in good condition, recovery rate was poor, purge water was clear to slightly turbid, no evidence of contamination was observed.
- MW-11 was in good condition, recovery rate was poor, purge water was clear, no evidence of contamination was observed.
- MW-11B was in good condition, recovery rate was poor, purge water was clear, no evidence of contamination was observed.
- MW-12 was in good condition, recovery rate was poor, purge water was clear, no evidence of contamination was observed.
- MW-14 was in good condition, recovery rate was poor, purge water was clear to slightly turbid, no evidence of contamination was observed. Enbridge well lock had been replaced by others and when Barr cut the lock to access the well, a bailer was found hanging in the well. The bailer was removed and disposed of by Barr prior to well gauging and sampling. The well lock was replaced with a Barr lock (key #32437). The exterior casing paint was faded and rusty; therefore, it was re-painted with low VOC, high visibility yellow paint on May 14.
- MW-15 was in good condition, recovery rate was poor, purge water was clear to slightly turbid, no evidence of contamination was observed. Enbridge well lock had been replaced by others and when Barr cut the lock to access the well, a bailer was found hanging in the well. The bailer was removed and disposed of by Barr prior to well gauging and sampling. The well lock was replaced with a Barr lock (key #32437). The exterior casing paint was faded and rusty; therefore, it was re-painted with low VOC, high visibility yellow paint on May 14.
- MW-17 was in good condition, recovery rate was poor, purge water was clear, no evidence of contamination was observed. The well lock was difficult to open and had to be lubricated with powered graphite to open.
- MW-17B was in good condition, recovery rate was poor, purge water was clear, no evidence of contamination was observed. The well lock was difficult to open and had to be lubricated with powered graphite to open.
- MW-18 was in good condition, recovery rate was poor, purge water was clear, no evidence of contamination was observed.

- MW-19A was in good condition, recovery rate was poor, purge water was clear, no evidence of contamination was observed.
- MW-19B was in good condition, recovery rate was poor, purge water was clear, no evidence of contamination was observed.
- MW-20A was in good condition, recovery rate was poor, purge water was clear to slightly turbid, no evidence of contamination was observed. The exterior casing paint was faded and rusty; therefore, it was re-painted with low VOC, high visibility yellow paint on May 14.
- MW-20B was in good condition, recovery rate was poor, purge water was clear, no evidence of contamination was observed. The exterior casing paint was faded and rusty; therefore, it was re-painted with low VOC, high visibility yellow paint on May 14.
- MW-21A was in good condition, recovery rate was poor, purge water was clear, no evidence of contamination was observed.
- MW-21B was in good condition, recovery rate was poor, purge water was clear, no evidence of contamination was observed.
- MW-22B was in good condition, recovery rate was poor, purge water was clear to turbid, no evidence of contamination was observed. The well lock was difficult to open and had to be lubricated with powered graphite to open.
- MW-23B was in good condition, recovery rate was poor, purge water was clear, no evidence of contamination was observed. Frost action has loosened the concrete around the steel protective casing and it appears the concrete and steel casing have heaved slightly (<1 inch). The well lock was difficult to open and had to be lubricated with powered graphite to open.
- MW-24A was in good condition, recovery rate was poor, purge water was clear to turbid, no evidence of contamination was observed. Frost action has loosened the concrete around the steel protective casing and bollards. The monitoring well riser had heaved resulting in the pro-top cover being unable to close and lock. The top 0.18 feet of the riser was cut off to allow the pro-top cover to be closed and locked. The well lock was difficult to open and had to be lubricated with powered graphite to open.
- MW-24B was in good condition, recovery rate was poor, purge water was clear to slightly turbid, no evidence of contamination was observed. Frost action has loosened the concrete around the steel protective casing and bollards and it appears the steel casing and bollards have heaved slightly (<1 inch). The well lock was difficult to open and had to be lubricated with powered graphite to open.
- MW-25A was in good condition, recovery rate was poor, purge water was slightly turbid to very turbid, no evidence of contamination was observed. The exterior casing paint was faded and rusty; therefore, it was re-painted with low VOC, high visibility yellow paint on May 14.
- MW-25B was in good condition, recovery rate was poor, purge water was turbid to very turbid, no evidence of contamination was observed. The exterior casing paint was faded and rusty; therefore, it was re-painted with low VOC, high visibility yellow paint on May 14.
- MW-26 was in good condition, recovery rate was fair, purge water was clear, no evidence of contamination was observed. Frost action has loosened the concrete around the steel protective casing and bollards and it appears the steel casing and bollards have heaved slightly (<1 inch).

V. Conclusions

- Each monitoring well was photographed and the general condition of each well was documented. Photographs were taken of the wells after they were painted. Photographs of each monitoring well are provided in Appendix B.
- Barr measured water levels and well depths in existing wells prior to groundwater sample collection on May 10.

- Field water quality parameters were measured prior to well purging using a YSI ProDSS down-well probe. Field parameter and well purging documentation is provided in Appendix C. Field parameters included: temperature, conductivity, dissolved oxygen, pH, oxidation reduction potential and turbidity.
    - Field water quality parameters were not collected at MW-12, as the YSI down-well probe would not fit past approximately 3.1 feet from the top of the riser. The well did not appear to be bent or have any type of obstruction; however, since the down-well probe diameter is only slightly smaller than the inside diameter of the well riser, any minor or slight change in the riser angle would limit the advancement of the down-well probe.
- Groundwater samples were collected from each of the existing monitoring wells following purging as documented on the field sampling forms in Appendix C. Groundwater samples were collected from each well using new disposable bailers.
- Groundwater sample collection in 2021 occurred between May 10 and 14.
- Groundwater samples collected from each monitoring well were analyzed for PVOCs and naphthalene.
- No analytes were detected in groundwater from the monitoring wells above laboratory reporting limits (Table 2).
    - No analytes were detected above laboratory reporting limits from the duplicate samples collected at MW-10, MW-18 and MW-19A.
- Groundwater contours of the shallow and deep wells are provided in Figures 3 and 4, respectively.
- The protective steel casing at the following wells were painted with low VOC, high visibility yellow paint on May 14: MW-6, MW-6B, MW-14, MW-15, MW-20A, MW-20B, MW-25A, and MW-25B.
- Well maintenance activities were completed at monitoring well MW-6B on May 11. The loose concrete around the steel protective casing was removed.
- The monitoring well riser at MW-24A had heaved resulting in the pro-top cover being unable to close and lock. The top 0.18 feet was cut off the riser to allow the pro-top cover to be closed and locked. The 0.18 feet removed from the riser was subtracted from the riser elevation listed on Table 1 and the table was updated. The new elevation should be used to calculate the groundwater elevation at this well next year.
- The locks on the following wells were difficult to open and had to be lubricated with powdered graphite to open: MW-2, MW-5B, MW-17, MW-17B, MW-22B, MW-23B, MW-24A, and MW-24B.
- The Enbridge locks at monitoring wells MW-14 and MW-15 had been replaced by others. These locks were removed and replaced with Barr Engineering Co. locks with key #32437. Dedicated bailers were found in the wells and were also removed. It was determined these wells are shared with Superior Refining Company (SRC) and future well access and sampling should be coordinated between Enbridge and SRC.
- The vegetation around MW-2 was overgrown.
- The private wells were sampled on May 13 and PW-2 was re-sampled on June 9. Private well sampling documentation and laboratory results are provided in Appendix D.

VI. Recommendations

- Check monitoring well conditions and measure water levels annually.
- Continue to sample monitoring wells for PVOC plus naphthalene.
- Replace locks on the following wells that had to be lubricated and were difficult to open: MW-2, MW-5B, MW-17, MW-17B, MW-22B, MW-23B, MW-24A, and MW-24B.
- In coordination with SRC, replace well locks for shared wells (MW-14 and MW-15) and coordinate future well access and sampling with SRC.

- Monitor the loose concrete around wells MW-23B, MW-24A, MW-24B, and MW-26 and replace as needed.
- Vegetation has become overgrown around MW-2; trim back vegetation prior to the next year's sampling event.

Company Name: Barr Engineering Co.

Prepared By: Kaitlin Montz — Kaitlin Montz — 7/19/2021
Printed Name — Signature — Date

Reviewed By: Lynette Carney — [signature] — 7/19/2021
Printed Name — Signature — Date

Tables

Table 1: Groundwater Elevation Data
Enbridge Energy Limited Partnership - Superior, WI Terminal

Location	Date	Surface Elevation (ft)‡	TOC Elevation (ft)‡	Depth to Water (ft bTOC)	Total Well Depth (ft bTOC)	Depth of Water Below Grade (ft bgs)	Relative Water Elevation (ft)	Screened Interval+ TOS (ft bgs)	TOS (ft)	BOS (ft bgs)	BOS (ft)	Screen Submerged? Yes / No
MW-1	See Previous Reports for data prior to 2017											
	22-May-17	663.46	665.22	4.47	22.28	2.71	660.75	10	653.46	20	643.46	Yes
	2-Oct-17	663.46	665.22	5.12	22.57	3.36	660.10	10	653.46	20	643.46	Yes
	29-May-18	663.46	665.22	5.13	22.28	3.37	660.09	10	653.46	20	643.46	Yes
	15-Nov-18	663.46	665.22	6.54	22.31	4.78	658.68	10	653.46	20	643.46	Yes
	27-May-19	663.46	665.22	4.98	22.30	3.22	660.24	10	653.46	20	643.46	Yes
	MW-1 Abandoned on June 18, 2019											
MW-1R	29-Oct-19	660.95	663.90	12.1	17.54	9.15	651.80	4.5	656.45	14.5	646.45	No
	18-May-20	660.95	663.90	5.83	17.55	2.88	658.07	4.5	656.45	14.5	646.45	Yes
	19-Oct-20	660.95	663.90	7.21	17.55	4.26	656.69	4.5	656.45	14.5	646.45	Yes
	10-May-21	660.95	663.90	5.75	17.55	2.80	658.15	4.5	656.45	14.5	646.45	No
MW-2	See Previous Reports for data prior to 2017											
	22-May-17	657.06	659.37	3.07	27.18	0.76	656.30	14.5	642.56	24.5	632.56	Yes
	2-Oct-17	657.06	659.37	3.14	27.26	0.83	656.23	14.5	642.56	24.5	632.56	Yes
	29-May-18	657.06	659.37	3.72	27.18	1.41	655.65	14.5	642.56	24.5	632.56	Yes
	14-Nov-18	657.06	659.37	3.30	27.19	0.99	656.07	14.5	642.56	24.5	632.56	Yes
	30-May-19	657.06	659.37	3.51	27.17	1.20	655.86	14.5	642.56	24.5	632.56	Yes
	29-Oct-19	654.98	657.33	3.28	27.18	0.93	654.05	14.5	640.48	24.5	630.48	Yes
	19-May-20	654.98	657.33	3.84	27.20	1.49	653.49	14.5	640.48	24.5	630.48	Yes
	19-Oct-20	654.98	657.33	7.01	27.20	4.66	650.32	14.5	640.48	24.5	630.48	Yes
	10-May-21	654.98	657.33	4.11	28.20	1.76	653.22	14.5	640.48	24.5	630.48	Yes
MW-5	See Previous Reports for data prior to 2017											
	23-May-17	642.85	645.37	2.87	27.02	0.35	642.50	14.4	630.97	24.4	620.97	Yes
	5-Oct-17	642.85	645.37	2.80	27.06	0.28	642.57	14.4	630.97	24.4	620.97	Yes
	31-May-18	642.85	645.37	2.79	27.02	0.27	642.58	14.4	630.97	24.4	620.97	Yes
	15-Nov-18	642.85	645.37	3.19	27.30	0.67	642.18	14.4	630.97	24.4	620.97	Yes
	29-May-19	642.85	645.37	3.00	27.03	0.48	642.37	14.4	630.97	24.4	620.97	Yes
	30-Oct-19	640.69	643.41	3.16	27.03	0.44	640.25	14.4	629.01	24.4	619.01	Yes
	19-May-20	640.69	643.41	3.55	27.04	0.83	639.86	14.4	629.01	24.4	619.01	Yes
	21-Oct-20	640.69	643.41	7.10	27.02	4.38	636.31	14.4	629.01	24.4	619.01	Yes
	10-May-21	640.69	643.41	3.41	27.03	0.69	640.00	14.4	629.01	24.4	619.01	Yes
MW-5B	See Previous Reports for data prior to 2017											
	23-May-17	640.89	644.20	8.15	57.91	4.84	636.05	49	595.20	54	590.20	Yes
	5-Oct-17	640.89	644.20	7.18	57.78	3.87	637.02	49	595.20	54	590.20	Yes
	31-May-18	640.89	644.20	6.53	57.91	3.22	637.67	49	595.20	54	590.20	Yes
	15-Nov-18	640.89	644.20	6.80	57.30	3.49	637.40	49	595.20	54	590.20	Yes
	29-May-19	640.89	644.20	6.82	57.95	3.51	637.38	49	595.20	54	590.20	Yes
	30-Oct-19	640.82	644.31	7.04	57.95	3.55	637.27	49	595.31	54	590.31	Yes
	19-May-20	640.82	644.31	6.81	57.94	3.32	637.50	49	595.31	54	590.31	Yes
	21-Oct-20	640.82	644.31	9.57	57.90	6.08	634.74	49	595.31	54	590.31	Yes
	10-May-21	640.82	644.31	7.10	57.91	3.61	637.21	49	595.31	54	590.31	Yes
MW-6	See Previous Reports for data prior to 2017											
	22-May-17	645.79	648.01	7.24	26.68	5.02	640.77	14	634.01	24	624.01	Yes
	3-Oct-17	645.79	648.01	6.65	26.76	4.43	641.36	14	634.01	24	624.01	Yes
	30-May-18	645.79	648.01	7.14	26.68	4.92	640.87	14	634.01	24	624.01	Yes
	16-Nov-18	645.79	648.01	7.47	26.69	5.25	640.54	14	634.01	24	624.01	Yes
	28-May-19	645.79	648.01	7.37	26.70	5.15	640.64	14	634.01	24	624.01	Yes
	29-Oct-19	643.73	646.04	7.51	26.70	5.20	638.53	14	632.04	24	622.04	Yes
	20-May-20	643.73	646.04	7.73	27.70	5.42	638.31	14	632.04	24	622.04	Yes
	20-Oct-20	643.73	646.04	10.02	26.69	7.71	636.02	14	632.04	24	622.04	Yes
	10-May-21	643.73	646.04	9.82	26.70	7.51	636.22	14	632.04	24	622.04	Yes

Table 1: Groundwater Elevation Data
Enbridge Energy Limited Partnership - Superior, WI Terminal

Location	Date	Surface Elevation	TOC Elevation	Depth to Water	Total Well Depth	Depth of Water Below Grade	Relative Water Elevation	Screened Interval[+] TOS		BOS		Screen Submerged?
		(ft)[‡]	(ft)[‡]	(ft bTOC)	(ft bTOC)	(ft bgs)	(ft)	(ft bgs)	(ft)	(ft bgs)	(ft)	Yes / No
MW-6B	See Previous Reports for data prior to 2017											
	22-May-17	644.23	646.77	9.12	58.23	6.58	637.65	50	596.77	55	591.77	Yes
	3-Oct-17	644.23	646.77	9.15	58.10	6.61	637.62	50	596.77	55	591.77	Yes
	30-May-18	644.23	646.77	8.91	58.23	6.37	637.86	50	596.77	55	591.77	Yes
	16-Nov-18	644.23	646.77	9.00	58.26	6.46	637.77	50	596.77	55	591.77	Yes
	28-May-19	644.23	646.77	9.00	58.25	6.46	637.77	50	596.77	55	591.77	Yes
	29-Oct-19	644.06	646.77	9.98	58.25	7.27	636.79	50	596.77	55	591.77	Yes
	20-May-20	644.06	646.77	9.42	58.29	6.71	637.35	50	596.77	55	591.77	Yes
	20-Oct-20	644.06	646.77	11.29	58.48	8.58	635.48	50	596.77	55	591.77	Yes
	10-May-21	644.06	646.77	10.06	58.28	7.35	636.71	50	596.77	55	591.77	Yes
MW-10	See Previous Reports for data prior to 2017											
	23-May-17	660.11	662.01	5.20	30.43	3.30	656.81	18.6	643.41	28.6	633.41	Yes
	4-Oct-17	660.11	662.01	4.75	30.50	2.85	657.26	18.6	643.41	28.6	633.41	Yes
	30-May-18	660.11	662.01	6.28	30.43	4.38	655.73	18.6	643.41	28.6	633.41	Yes
	16-Nov-18	660.11	662.01	5.24	30.43	3.34	656.77	18.6	643.41	28.6	633.41	Yes
	28-May-19	660.11	662.01	5.00	30.43	3.10	657.01	18.6	643.41	28.6	633.41	Yes
	29-Oct-19	658.65	660.05	4.22	30.44	2.82	655.83	19.1	640.95	29.1	630.95	Yes
	20-Oct-20	658.65	660.05	6.08	30.44	4.68	653.97	19.1	640.95	29.1	630.95	Yes
	10-May-21	658.65	660.05	6.34	30.45	4.94	653.71	19.1	640.95	29.1	630.95	Yes
MW-11	See Previous Reports for data prior to 2017											
	23-May-17	654.06	656.33	7.80	18.18	5.53	648.53	6.23	650.10	16.23	640.10	No
	4-Oct-17	654.06	656.33	7.69	18.27	5.42	648.64	6.23	650.10	16.23	640.10	No
	30-May-18	654.06	656.33	7.75	18.18	5.48	648.58	6.23	650.10	16.23	640.10	No
	16-Nov-18	654.06	656.33	8.09	18.18	5.82	648.24	6.23	650.10	16.23	640.10	No
	29-May-19	654.06	656.33	8.06	18.20	5.79	648.27	6.23	650.10	16.23	640.10	No
	31-Oct-19	651.83	654.38	8.10	18.19	5.55	646.28	5.95	648.43	15.95	638.43	No
	20-May-20	651.83	654.38	8.29	18.18	5.74	646.09	5.95	648.43	15.95	638.43	No
	21-Oct-20	651.83	654.38	8.94	18.18	6.39	645.44	5.95	648.43	15.95	638.43	No
	10-May-21	651.83	654.38	8.56	18.19	6.01	645.82	5.95	648.43	15.95	638.43	No
MW-11B	See Previous Reports for data prior to 2017											
	23-May-17	653.86	655.91	22.94	57.50	20.89	632.97	50	605.91	55	600.91	Yes
	4-Oct-17	653.86	655.91	26.95	57.50	24.90	628.96	50	605.91	55	600.91	Yes
	30-May-18	653.86	655.91	22.31	57.50	20.26	633.60	50	605.91	55	600.91	Yes
	16-Nov-18	653.86	655.91	24.70	57.52	22.65	631.21	50	605.91	55	600.91	Yes
	29-May-19	653.86	655.91	23.00	57.83	20.95	632.91	50	605.91	55	600.91	Yes
	28-Oct-19	651.85	653.97	25.60	57.83	23.48	628.37	50	603.97	55	598.97	Yes
	20-May-20	651.85	653.97	23.42	57.51	21.30	630.55	50	603.97	55	598.97	Yes
	21-Oct-20	651.85	653.97	25.92	57.52	23.80	628.05	50	603.97	55	598.97	Yes
	10-May-21	651.85	653.97	23.56	57.52	21.44	630.41	50	603.97	55	598.97	Yes
MW-12	See Previous Reports for data prior to 2017											
	23-May-17	645.36	649.46	4.75	22.47	0.65	644.71	8.4	636.96	18.4	626.96	Yes
	4-Oct-17	645.36	649.17	4.42	22.57	0.61	644.75	8.69	636.67	18.69	626.67	Yes
	31-May-18	645.36	649.17	4.62	22.47	0.81	644.55	8.69	636.67	18.69	626.67	Yes
	19-Nov-18	645.36	649.17	4.64	22.18	0.83	644.53	8.69	636.67	18.69	626.67	Yes
	29-May-19	645.36	649.17	4.32	22.18	0.51	644.85	8.69	636.67	18.69	626.67	Yes
	28-Oct-19	643.25	647.15	4.57	22.19	0.67	642.58	8.6	634.65	18.6	624.65	Yes
	21-May-20	643.25	647.15	4.70	22.23	0.80	642.45	8.6	634.65	18.6	624.65	Yes
	20-Oct-20	643.25	647.15	7.22	22.20	3.32	639.93	8.6	634.65	18.6	624.65	Yes
	23-Oct-20	643.25	648.15	top of casing elevation resurveyed after well repair								
	10-May-21	643.25	648.15	4.52	21.05	-0.38	643.63	7.6	635.65	17.6	625.65	Yes

Table 1: Groundwater Elevation Data
Enbridge Energy Limited Partnership - Superior, WI Terminal

Location	Date	Surface Elevation	TOC Elevation	Depth to Water	Total Well Depth	Depth of Water Below Grade	Relative Water Elevation	Screened Interval[+]				Screen Submerged?
								TOS		BOS		
		(ft)[‡]	(ft)[‡]	(ft bTOC)	(ft bTOC)	(ft bgs)	(ft)	(ft bgs)	(ft)	(ft bgs)	(ft)	Yes / No
MW-14	See Previous Reports for data prior to 2017											
	22-May-17	659.27	661.15	3.40	18.35	1.52	657.75	6.6	652.65	16.6	642.65	Yes
	2-Oct-17	659.27	661.15	4.82	18.42	2.94	656.33	6.6	652.65	16.6	642.65	Yes
	29-May-18	659.27	661.15	5.25	18.35	3.37	655.90	6.6	652.65	16.6	642.65	Yes
	14-Nov-18	659.27	661.15	4.91	18.35	3.03	656.24	6.6	652.65	16.6	642.65	Yes
	27-May-19	659.27	661.15	4.67	18.35	2.79	656.48	6.6	652.65	16.6	642.65	Yes
	29-Oct-19	657.06	659.11	5.01	18.34	2.96	654.10	6.4	650.61	16.4	640.61	Yes
	19-May-20	657.06	659.11	5.55	18.34	3.50	653.56	6.4	650.61	16.4	640.61	Yes
	21-Oct-20	657.06	659.11	7.30	18.35	5.25	651.81	6.4	650.61	16.4	640.61	Yes
	10-May-21	657.06	659.11	5.06	18.35	3.01	654.05	6.4	650.61	16.4	640.61	Yes
MW-15	See Previous Reports for data prior to 2017											
	22-May-17	659.10	660.88	2.92	17.32	1.14	657.96	5.7	653.38	15.7	643.38	Yes
	2-Oct-17	659.10	660.88	2.82	17.43	1.04	658.06	5.7	653.38	15.7	643.38	Yes
	29-May-18	659.10	660.88	3.92	17.32	2.14	656.96	5.7	653.38	15.7	643.38	Yes
	14-Nov-18	659.10	660.88	2.91	17.31	1.13	657.97	5.7	653.38	15.7	643.38	Yes
	27-May-19	659.10	660.88	3.07	17.32	1.29	657.81	5.7	653.38	15.7	643.38	Yes
	29-Oct-19	657.20	659.03	3.04	17.30	1.21	655.99	5.7	651.53	15.7	641.53	Yes
	19-May-20	657.20	659.03	3.88	17.31	2.05	655.15	5.7	651.53	15.7	641.53	Yes
	21-Oct-20	657.20	659.03	7.16	17.30	5.33	651.87	5.7	651.53	15.7	641.53	Yes
	10-May-21	657.20	659.03	3.98	17.31	2.15	655.05	5.7	651.53	15.7	641.53	Yes
MW-17	See Previous Reports for data prior to 2017											
	23-May-17	640.70	643.19	4.24	17.46	1.75	638.95	5	635.70	15	625.70	Yes
	5-Oct-17	640.70	643.19	3.93	17.44	1.44	639.26	5	635.70	15	625.70	Yes
	31-May-18	640.70	643.19	5.95	17.46	3.46	637.24	5	635.70	15	625.70	Yes
	15-Nov-18	640.70	643.19	3.88	17.49	1.39	639.31	5	635.70	15	625.70	Yes
	29-May-19	640.70	643.19	3.79	17.47	1.30	639.40	5	635.70	15	625.70	Yes
	30-Oct-19	638.72	641.10	4.06	17.47	1.68	637.04	5	633.72	15	623.72	Yes
	19-May-20	638.72	641.10	5.53	17.48	3.15	635.57	5	633.72	15	623.72	Yes
	22-Oct-20	638.72	641.10	7.61	17.47	5.23	633.49	5	633.72	15	623.72	No
	10-May-21	638.72	641.10	4.81	17.48	2.43	636.29	5	633.72	15	623.72	Yes
MW-17B	See Previous Reports for data prior to 2017											
	23-May-17	640.95	643.27	17.78	44.88	15.46	625.49	39.5	601.45	42.5	598.45	Yes
	5-Oct-17	640.95	643.27	22.30	44.80	19.98	620.97	39.5	601.45	42.5	598.45	Yes
	31-May-18	640.95	643.27	16.50	44.88	14.18	626.77	39.5	601.45	42.5	598.45	Yes
	15-Nov-18	640.95	643.27	20.10	44.97	17.78	623.17	39.5	601.45	42.5	598.45	Yes
	29-May-19	640.95	643.27	18.11	44.94	15.79	625.16	39.5	601.45	42.5	598.45	Yes
	30-Oct-19	638.89	641.27	20.45	44.94	18.07	620.82	39.5	599.39	42.5	596.39	Yes
	19-May-20	638.89	641.27	17.83	44.88	15.45	623.44	39.5	599.39	42.5	596.39	Yes
	22-Oct-20	638.89	641.27	20.16	44.97	17.78	621.11	39.5	599.39	42.5	596.39	Yes
	10-May-21	638.89	641.27	18.42	44.95	16.04	622.85	39.5	599.39	42.5	596.39	Yes
MW-18	See Previous Reports for data prior to 2017											
	23-May-17	641.80	644.23	5.55	17.22	3.12	638.68	5	636.80	15	626.80	Yes
	5-Oct-17	641.80	644.23	5.25	17.20	2.82	638.98	5	636.80	15	626.80	Yes
	31-May-18	641.80	644.23	7.64	17.22	5.21	636.59	5	636.80	15	626.80	No
	15-Nov-18	641.80	644.23	5.43	17.23	3.00	638.80	5	636.80	15	626.80	Yes
	29-May-19	641.80	644.23	5.73	17.25	3.30	638.50	5	636.80	15	626.80	Yes
	30-Oct-19	639.83	642.25	5.39	17.25	2.97	636.86	5	634.83	15	624.83	Yes
	19-May-20	639.83	642.25	6.01	17.25	3.59	636.24	5	634.83	15	624.83	Yes
	21-Oct-20	639.83	642.25	6.29	17.25	3.87	635.96	5	634.83	15	624.83	Yes
	10-May-21	639.83	642.25	6.12	17.25	3.70	636.13	5	634.83	15	624.83	Yes

Table 1: Groundwater Elevation Data
Enbridge Energy Limited Partnership - Superior, WI Terminal

Location	Date	Surface Elevation	TOC Elevation	Depth to Water	Total Well Depth	Depth of Water Below Grade	Relative Water Elevation	Screened Interval[+]				Screen Submerged?
								TOS		BOS		
		(ft)[‡]	(ft)[‡]	(ft bTOC)	(ft bTOC)	(ft bgs)	(ft)	(ft bgs)	(ft)	(ft bgs)	(ft)	Yes / No
MW-19A	See Previous Reports for data prior to 2017											
	22-May-17	656.15	658.12	3.27	24.14	1.30	654.85	12	644.15	22	634.15	Yes
	5-Oct-17	656.15	658.12	3.08	26.00	1.11	655.04	12	644.15	22	634.15	Yes
	29-May-18	656.15	658.12	3.53	24.14	1.56	654.59	12	644.15	22	634.15	Yes
	14-Nov-18	656.15	658.12	3.15	24.15	1.18	654.97	12	644.15	22	634.15	Yes
	27-May-19	656.15	658.12	3.51	24.15	1.54	654.61	12	644.15	22	634.15	Yes
	29-Oct-19	654.76	656.06	2.91	24.13	1.61	653.15	12	642.76	22	632.76	Yes
	18-May-20	654.76	656.06	3.16	24.15	1.86	652.90	12	642.76	22	632.76	Yes
	19-Oct-20	654.76	656.06	3.10	24.16	1.80	652.96	12	642.76	22	632.76	Yes
	10-May-21	654.76	656.06	3.26	24.17	1.96	652.80	12	642.76	22	632.76	Yes
MW-19B	See Previous Reports for data prior to 2017											
	22-May-17	656.19	658.22	12.88	59.93	10.85	645.34	53	603.19	58	598.19	Yes
	5-Oct-17	656.19	658.22	13.46	59.80	11.43	644.76	53	603.19	58	598.19	Yes
	29-May-18	656.19	658.22	12.52	59.93	10.49	645.70	53	603.19	58	598.19	Yes
	14-Nov-18	656.19	658.22	8.76	59.93	6.73	649.46	53	603.19	58	598.19	Yes
	27-May-19	656.19	658.22	7.47	60.30	5.44	650.75	53	603.19	58	598.19	Yes
	29-Oct-19	654.79	656.19	7.56	59.94	6.16	648.63	53	601.79	58	596.79	Yes
	18-May-20	654.79	656.19	7.64	59.94	6.24	648.55	53	601.79	58	596.79	Yes
	19-Oct-20	654.79	656.19	8.46	59.97	7.06	647.73	53	601.79	58	596.79	Yes
	10-May-21	654.79	656.19	8.50	59.95	7.10	647.69	53	601.79	58	596.79	Yes
MW-20A	See Previous Reports for data prior to 2017											
	23-May-17	648.98	651.04	4.33	24.18	2.27	646.71	12	636.98	22	626.98	Yes
	3-Oct-17	648.98	651.04	4.67	24.00	2.61	646.37	12	636.98	22	626.98	Yes
	30-May-18	648.98	651.04	5.28	24.18	3.22	645.76	12	636.98	22	626.98	Yes
	16-Nov-18	648.98	651.04	4.46	24.20	2.40	646.58	12	636.98	22	626.98	Yes
	28-May-19	648.98	651.04	4.09	24.19	2.03	646.95	12	636.98	22	626.98	Yes
	30-Oct-19	647.10	649.16	4.88	24.19	2.82	644.28	12	635.10	22	625.10	Yes
	18-May-20	647.10	649.16	5.09	24.20	3.03	644.07	12	635.10	22	625.10	Yes
	19-Oct-20	647.10	649.16	8.82	24.20	6.76	640.34	12	635.10	22	625.10	Yes
	10-May-21	647.10	649.16	4.88	24.20	2.82	644.28	12	635.10	22	625.10	Yes
MW-20B	See Previous Reports for data prior to 2017											
	22-May-17	649.36	651.34	17.72	60.16	15.74	633.62	53	596.36	58	591.36	Yes
	3-Oct-17	649.36	651.34	19.97	57.55	17.99	631.37	53	596.36	58	591.36	Yes
	30-May-18	649.36	651.34	17.04	60.16	15.06	634.30	53	596.36	58	591.36	Yes
	16-Nov-18	649.36	651.34	18.33	60.05	16.35	633.01	53	596.36	58	591.36	Yes
	28-May-19	649.36	651.34	17.68	60.18	15.70	633.66	53	596.36	58	591.36	Yes
	30-Oct-19	647.47	649.44	18.57	60.18	16.60	630.87	53	594.47	58	589.47	Yes
	18-May-20	647.47	649.44	17.66	60.18	15.69	631.78	53	594.47	58	589.47	Yes
	19-Oct-20	647.47	649.44	18.39	60.19	16.42	631.05	53	594.47	58	589.47	Yes
	10-May-21	647.47	649.44	17.86	60.19	15.89	631.58	53	594.47	58	589.47	Yes
MW-21A	See Previous Reports for data prior to 2017											
	22-May-17	646.86	648.84	3.90	24.55	1.92	644.94	12	634.86	22	624.86	Yes
	3-Oct-17	646.86	648.84	4.00	24.40	2.02	644.84	12	634.86	22	624.86	Yes
	30-May-18	646.86	648.84	4.11	24.55	2.13	644.73	12	634.86	22	624.86	Yes
	16-Nov-18	646.86	648.84	3.89	24.55	1.91	644.95	12	634.86	22	624.86	Yes
	28-May-19	646.86	648.84	4.64	24.50	2.66	644.20	12	634.86	22	624.86	Yes
	31-Oct-19	644.72	646.82	4.04	24.50	1.94	642.78	12	632.72	22	622.72	Yes
	20-May-20	644.72	646.82	4.09	24.54	1.99	642.73	12	632.72	22	622.72	Yes
	20-Oct-20	644.72	646.82	6.02	24.55	3.92	640.80	12	632.72	22	622.72	Yes
	10-May-21	644.72	646.82	4.31	24.55	2.21	642.51	12	632.72	22	622.72	Yes

Table 1: Groundwater Elevation Data
Enbridge Energy Limited Partnership - Superior, WI Terminal

Location	Date	Surface Elevation	TOC Elevation	Depth to Water	Total Well Depth	Depth of Water Below Grade	Relative Water Elevation	Screened Interval[+] TOS		Screened Interval[+] BOS		Screen Submerged?
		(ft)[‡]	(ft)[‡]	(ft bTOC)	(ft bTOC)	(ft bgs)	(ft)	(ft bgs)	(ft)	(ft bgs)	(ft)	Yes / No
MW-21B	See Previous Reports for data prior to 2017											
	22-May-17	646.68	648.83	18.71	60.65	16.56	630.12	53	593.68	58	588.68	Yes
	3-Oct-17	646.68	648.83	20.03	60.70	17.88	628.80	53	593.68	58	588.68	Yes
	30-May-18	646.68	648.83	17.81	60.65	15.66	631.02	53	593.68	58	588.68	Yes
	16-Nov-18	646.68	648.83	18.90	61.60	16.75	629.93	53	593.68	58	588.68	Yes
	28-May-19	646.68	648.83	17.99	60.65	15.84	630.84	53	593.68	58	588.68	Yes
	31-Oct-19	644.63	646.80	19.06	60.65	16.89	627.74	53	591.63	58	586.63	Yes
	20-May-20	644.63	646.80	18.13	60.70	15.96	628.67	53	591.63	58	586.63	Yes
	20-Oct-20	644.63	646.80	19.23	60.65	17.06	627.57	53	591.63	58	586.63	Yes
	10-May-21	644.63	646.80	18.57	60.68	16.40	628.23	53	591.63	58	586.63	Yes
MW-22B	See Previous Reports for data prior to 2017											
	23-May-17	655.49	658.35	17.19	57.70	14.33	641.16	49	606.49	54	601.49	Yes
	4-Oct-17	655.49	658.35	17.83	57.55	14.97	640.52	49	606.49	54	601.49	Yes
	30-May-18	655.49	658.35	17.91	57.70	15.05	640.44	49	606.49	54	601.49	Yes
	16-Nov-18	655.49	658.35	17.93	57.74	15.07	640.42	49	606.49	54	601.49	Yes
	28-May-19	655.49	658.35	18.39	57.71	15.53	639.96	49	606.49	54	601.49	Yes
	28-Oct-19	655.55	658.48	18.58	58.35	15.65	639.90	49	606.55	54	601.55	Yes
	20-May-20	655.55	658.48	18.84	57.74	15.91	639.64	49	606.55	54	601.55	Yes
	21-Oct-20	655.55	658.48	19.47	57.71	16.54	639.01	49	606.55	54	601.55	Yes
	10-May-21	655.55	658.48	19.36	57.75	16.43	639.12	49	606.55	54	601.55	Yes
MW-23B	See Previous Reports for data prior to 2017											
	23-May-17	643.51	646.22	8.32	58.27	5.61	637.90	49	594.51	54	589.51	Yes
	5-Oct-17	643.51	646.22	6.36	57.11	3.65	639.86	49	594.51	54	589.51	Yes
	31-May-18	643.51	646.22	7.90	58.27	5.19	638.32	49	594.51	54	589.51	Yes
	15-Nov-18	643.51	646.22	7.23	57.30	4.52	638.99	49	594.51	54	589.51	Yes
	29-May-19	643.51	646.22	6.71	57.28	4.00	639.51	49	594.51	54	589.51	Yes
	30-Oct-19	643.82	646.32	6.57	57.28	4.07	639.75	49	594.82	54	589.82	Yes
	19-May-20	643.82	646.32	7.03	57.29	4.53	639.29	49	594.82	54	589.82	Yes
	21-Oct-20	643.82	646.32	13.01	57.26	10.51	633.31	49	594.82	54	589.82	Yes
	10-May-21	643.82	646.32	5.62	57.30	3.12	640.70	49	594.82	54	589.82	Yes
MW-24A	See Previous Reports for data prior to 2017											
	23-May-17	649.09	651.69	3.74	19.03	1.14	647.95	6	643.09	16	633.09	Yes
	3-Oct-17	649.09	651.69	3.65	18.85	1.05	648.04	6	643.09	16	633.09	Yes
	31-May-18	649.09	651.69	4.51	19.03	1.91	647.18	6	643.09	16	633.09	Yes
	15-Nov-18	649.09	651.69	3.85	19.05	1.25	647.84	6	643.09	16	633.09	Yes
	27-May-19	649.09	651.69	3.68	19.03	1.08	648.01	6	643.09	16	633.09	Yes
	28-Oct-19	649.48	652.32	3.97	19.02	1.13	648.35	6	643.48	16	633.48	Yes
	18-May-20	649.48	652.32	4.99	19.50	2.15	647.33	6	643.48	16	633.48	Yes
	19-Oct-20	649.48	652.32	6.19	19.06	3.35	646.13	6	643.48	16	633.48	Yes
	10-May-21	649.48	652.32	4.72	19.03	1.88	647.60	6	643.48	16	633.48	Yes
	11-May-21	649.48	652.50	0.18 feet removed from top of casing								
MW-24B	See Previous Reports for data prior to 2017											
	23-May-17	648.86	651.45	14.06	49.35	11.47	637.39	41	607.86	46	602.86	Yes
	3-Oct-17	648.86	651.45	13.52	49.21	10.93	637.93	41	607.86	46	602.86	Yes
	31-May-18	648.86	651.45	10.82	49.35	8.23	640.63	41	607.86	46	602.86	Yes
	15-Nov-18	648.86	651.45	11.03	49.81	8.44	640.42	41	607.86	46	602.86	Yes
	27-May-19	648.86	651.45	14.95	49.38	12.36	636.50	41	607.86	46	602.86	Yes
	28-Oct-19	649.09	651.91	11.32	49.37	8.50	640.59	41	608.09	46	603.09	Yes
	18-May-20	649.09	651.91	7.76	49.37	4.94	644.15	41	608.09	46	603.09	Yes
	19-Oct-20	649.09	651.91	15.42	49.41	12.60	636.49	41	608.09	46	603.09	Yes
	10-May-21	649.09	651.91	8.84	49.38	6.02	643.07	41	608.09	46	603.09	Yes

Table 1: Groundwater Elevation Data
Enbridge Energy Limited Partnership - Superior, WI Terminal

Location	Date	Surface Elevation	TOC Elevation	Depth to Water	Total Well Depth	Depth of Water Below Grade	Relative Water Elevation	Screened Interval+				Screen Submerged?
								TOS		BOS		
		(ft)‡	(ft)‡	(ft bTOC)	(ft bTOC)	(ft bgs)	(ft)	(ft bgs)	(ft)	(ft bgs)	(ft)	Yes / No
MW-25A	See Previous Reports for data prior to 2017											
	23-May-17	635.91	638.31	3.03	19.22	0.63	635.28	6	629.91	16	619.91	Yes
	4-Oct-17	635.91	638.31	3.05	19.00	0.65	635.26	6	629.91	16	619.91	Yes
	31-May-18	635.91	638.31	2.99	19.22	0.59	635.32	6	629.91	16	619.91	Yes
	19-Nov-18	635.91	638.31	3.59	19.22	1.19	634.72	6	629.91	16	619.91	Yes
	30-May-19	635.91	638.31	3.33	19.21	0.93	634.98	6	629.91	16	619.91	Yes
	28-Oct-19	636.57	639.16	3.45	19.23	0.86	635.71	6	630.57	16	620.57	Yes
	20-May-20	636.57	639.16	3.98	19.25	1.39	635.18	6	630.57	16	620.57	Yes
	20-Oct-20	636.57	639.16	6.01	19.23	3.42	633.15	6	630.57	16	620.57	Yes
	10-May-21	636.57	639.16	3.98	19.26	1.39	635.18	6	630.57	16	620.57	Yes
MW-25B	See Previous Reports for data prior to 2017											
	23-May-17	635.85	638.52	7.60	49.43	4.93	630.92	41	594.85	46	589.85	Yes
	4-Oct-17	635.85	638.52	8.50	49.21	5.83	630.02	41	594.85	46	589.85	Yes
	31-May-18	635.85	638.52	7.62	49.43	4.95	630.90	41	594.85	46	589.85	Yes
	19-Nov-18	635.85	638.52	8.69	49.45	6.02	629.83	41	594.85	46	589.85	Yes
	30-May-19	635.85	638.52	8.32	49.42	5.65	630.20	41	594.85	46	589.85	Yes
	28-Oct-19	636.59	638.81	9.32	49.42	7.10	629.49	41	595.59	46	590.59	Yes
	20-May-20	636.59	638.81	8.54	49.48	6.32	630.27	41	595.59	46	590.59	Yes
	20-Oct-20	636.59	638.81	9.59	49.45	7.37	629.22	41	595.59	46	590.59	Yes
	10-May-21	636.59	638.81	9.29	50.45	7.07	629.52	41	595.59	46	590.59	Yes
MW-26	See Previous Reports for data prior to 2017											
	23-May-17	643.44	646.17	7.44	18.90	4.71	638.73	6	637.44	16	627.44	Yes
	4-Oct-17	643.44	646.17	7.10	18.70	4.37	639.07	6	637.44	16	627.44	Yes
	31-May-18	643.44	646.17	7.65	18.90	4.92	638.52	6	637.44	16	627.44	Yes
	19-Nov-18	643.44	646.17	6.90	18.92	4.17	639.27	6	637.44	16	627.44	Yes
	30-May-19	643.44	646.17	7.55	18.91	4.82	638.62	6	637.44	16	627.44	Yes
	28-Oct-19	643.64	646.44	6.88	18.90	4.08	639.56	6	637.64	16	627.64	Yes
	21-May-20	643.64	646.44	6.70	18.91	3.90	639.74	6	637.64	16	627.64	Yes
	20-Oct-20	643.64	646.44	7.83	18.90	5.03	638.61	6	637.64	16	627.64	Yes
	10-May-21	643.64	646.44	8.78	18.92	5.98	637.66	6	637.64	16	627.64	Yes

Notes: ft = feet bTOC = Below top of casing bgs = below ground surface

+ = When well construction records were not available, the well screen was assumed to be 10 feet (MW-10, MW-11, MW-12, MW-14 and MW-15)

‡ = Elevations measured from 2015 to present in NAVD88 (North America Vertical Datum)

Table 2: Groundwater Quality Data
Enbridge Energy Limited Partnership - Superior, WI Terminal

Location	Sampling Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (m,o,p) (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Naphthalene (µg/L)
MW-1	See Previous Reports for data prior to 2017							
	22-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	2-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	29-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	15-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	27-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	MW-1 Abandoned on June 18, 2019							
MW-1R	29-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	18-May-20	NA	NA	NA	NA	NA	NA	NA
	19-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	12-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-2	See Previous Reports for data prior to 2017							
	22-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	2-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	29-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	14-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	30-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	29-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	19-May-20	NA	NA	NA	NA	NA	NA	NA
	19-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	11-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-5	See Previous Reports for data prior to 2017							
	24-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	5-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	31-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	15-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	29-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	30-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	19-May-20	NA	NA	NA	NA	NA	NA	NA
	21-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	13-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-5B	See Previous Reports for data prior to 2017							
	24-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	5-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	31-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	15-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	29-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	30-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	19-May-20	NA	NA	NA	NA	NA	NA	NA
	21-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	13-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-6	See Previous Reports for data prior to 2017							
	23-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	3-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	30-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	16-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	28-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	29-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	20-May-20	NA	NA	NA	NA	NA	NA	NA
	20-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	11-May-21	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<25.0
MW-6B	See Previous Reports for data prior to 2017							
	23-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	3-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	30-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	16-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	28-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	29-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	20-May-20	NA	NA	NA	NA	NA	NA	NA
	20-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	11-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-10	See Previous Reports for data prior to 2017							
	23-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	4-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	30-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	16-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	28-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	31-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	20-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	12-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0

Table 2: Groundwater Quality Data
Enbridge Energy Limited Partnership - Superior, WI Terminal

Location	Sampling Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (m,o,p) (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Naphthalene (µg/L)
MW-11	See Previous Reports for data prior to 2017							
	23-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	4-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	30-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	16-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	29-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	28-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	20-May-20	NA	NA	NA	NA	NA	NA	NA
	21-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	12-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-11B	See Previous Reports for data prior to 2017							
	23-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	4-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	30-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	16-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	29-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	28-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	20-May-20	NA	NA	NA	NA	NA	NA	NA
	21-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	12-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-12	See Previous Reports for data prior to 2017							
	24-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	4-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	31-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	19-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	29-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	28-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	21-May-20	NA	NA	NA	NA	NA	NA	NA
	20-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	12-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-14	See Previous Reports for data prior to 2017							
	22-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	2-Oct-17	<1.1	<0.57	<0.45	<0.81	<0.45	<0.60	<1.4
	29-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	14-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	27-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	29-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	19-May-20	NA	NA	NA	NA	NA	NA	NA
	21-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	12-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-15	See Previous Reports for data prior to 2017							
	22-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	2-Oct-17	<1.1	<0.57	<0.45	<0.81	<0.45	<0.60	<1.4
	29-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	14-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	27-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	29-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	19-May-20	NA	NA	NA	NA	NA	NA	NA
	21-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	12-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-17	See Previous Reports for data prior to 2017							
	24-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	5-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	31-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	15-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	29-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	30-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	19-May-20	NA	NA	NA	NA	NA	NA	NA
	22-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	13-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0

Table 2: Groundwater Quality Data
Enbridge Energy Limited Partnership - Superior, WI Terminal

Location	Sampling Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (m,o,p) (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Naphthalene (µg/L)
MW-17B	See Previous Reports for data prior to 2017							
	24-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	5-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	31-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	15-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	29-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	30-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	19-May-20	NA	NA	NA	NA	NA	NA	NA
	22-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	13-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-18	See Previous Reports for data prior to 2017							
	24-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	5-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	31-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	15-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	29-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	30-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	19-May-20	NA	NA	NA	NA	NA	NA	NA
	21-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	13-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-19A	See Previous Reports for data prior to 2017							
	22-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	5-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	29-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	14-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	27-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	29-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	18-May-20	NA	NA	NA	NA	NA	NA	NA
	19-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	11-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-19B	See Previous Reports for data prior to 2017							
	22-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	5-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	29-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	14-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	27-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	29-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	18-May-20	NA	NA	NA	NA	NA	NA	NA
	23-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	11-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-20A	See Previous Reports for data prior to 2017							
	23-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	3-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	30-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	16-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	28-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	30-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	18-May-20	NA	NA	NA	NA	NA	NA	NA
	23-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	11-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-20B	See Previous Reports for data prior to 2017							
	23-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	3-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	30-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	16-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	28-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	30-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	18-May-20	NA	NA	NA	NA	NA	NA	NA
	19-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	11-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-21A	See Previous Reports for data prior to 2017							
	23-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	3-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	30-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	16-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	28-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	31-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	20-May-20	NA	NA	NA	NA	NA	NA	NA
	20-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	12-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0

Table 2: Groundwater Quality Data
Enbridge Energy Limited Partnership - Superior, WI Terminal

Location	Sampling Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (m,o,p) (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Naphthalene (µg/L)
MW-21B	See Previous Reports for data prior to 2017							
	23-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	3-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	30-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	16-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	28-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	31-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	20-May-20	NA	NA	NA	NA	NA	NA	NA
	20-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	12-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-22B	See Previous Reports for data prior to 2017							
	24-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	4-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	30-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	16-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	28-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	28-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	20-May-20	NA	NA	NA	NA	NA	NA	NA
	21-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	12-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-23B	See Previous Reports for data prior to 2017							
	24-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	5-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	31-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	15-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	29-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	30-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	19-May-20	NA	NA	NA	NA	NA	NA	NA
	21-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	14-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-24A	See Previous Reports for data prior to 2017							
	24-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	3-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	31-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	15-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	27-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	28-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	18-May-20	NA	NA	NA	NA	NA	NA	NA
	19-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	11-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-24B	See Previous Reports for data prior to 2017							
	24-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	3-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	31-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	15-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	27-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	28-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	18-May-20	NA	NA	NA	NA	NA	NA	NA
	19-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	11-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-25A	See Previous Reports for data prior to 2017							
	24-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	4-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	31-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	19-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	30-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	28-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	20-May-20	NA	NA	NA	NA	NA	NA	NA
	20-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	12-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
MW-25B	See Previous Reports for data prior to 2017							
	24-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	4-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	31-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	19-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	30-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	28-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	20-May-20	NA	NA	NA	NA	NA	NA	NA
	20-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	12-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0

Table 2: Groundwater Quality Data

Enbridge Energy Limited Partnership - Superior, WI Terminal

Location	Sampling Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (m,o,p) (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Naphthalene (µg/L)
MW-26	See Previous Reports for data prior to 2017							
	24-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	4-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	31-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	19-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	30-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	28-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	21-May-20	NA	NA	NA	NA	NA	NA	NA
	20-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	12-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
Trip Blank	See Previous Reports for data prior to 2017							
	24-May-17	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0
	5-Oct-17	<1.0	<1.0	<1.0	<3.0	<4.0	<1.0	<10.0
	29-May-18	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<1.6
	14-Nov-18	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0
	27-May-19	<1.0	<5.0	<1.0	<3.0	<2.8	<2.9	<5.0
	31-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	<5.5
	31-Oct-19	<0.34	<0.28	<0.46	<1.0	<0.65	<0.41	0.15J
	18-Mar-20	NA	NA	NA	NA	NA	NA	NA
	18-Mar-20	NA	NA	NA	NA	NA	NA	NA
	19-Oct-20	<1.0	<1.0	<1.1	<3.0	<2.8	<2.9	<5.0
	11-May-21	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<5.0

Notes:

Analytical parameter methyl-tert-butyl ether (MTBE) is not summarized on the table but no detections have historically been observed

µg/L = micrograms per liter (parts per billion)

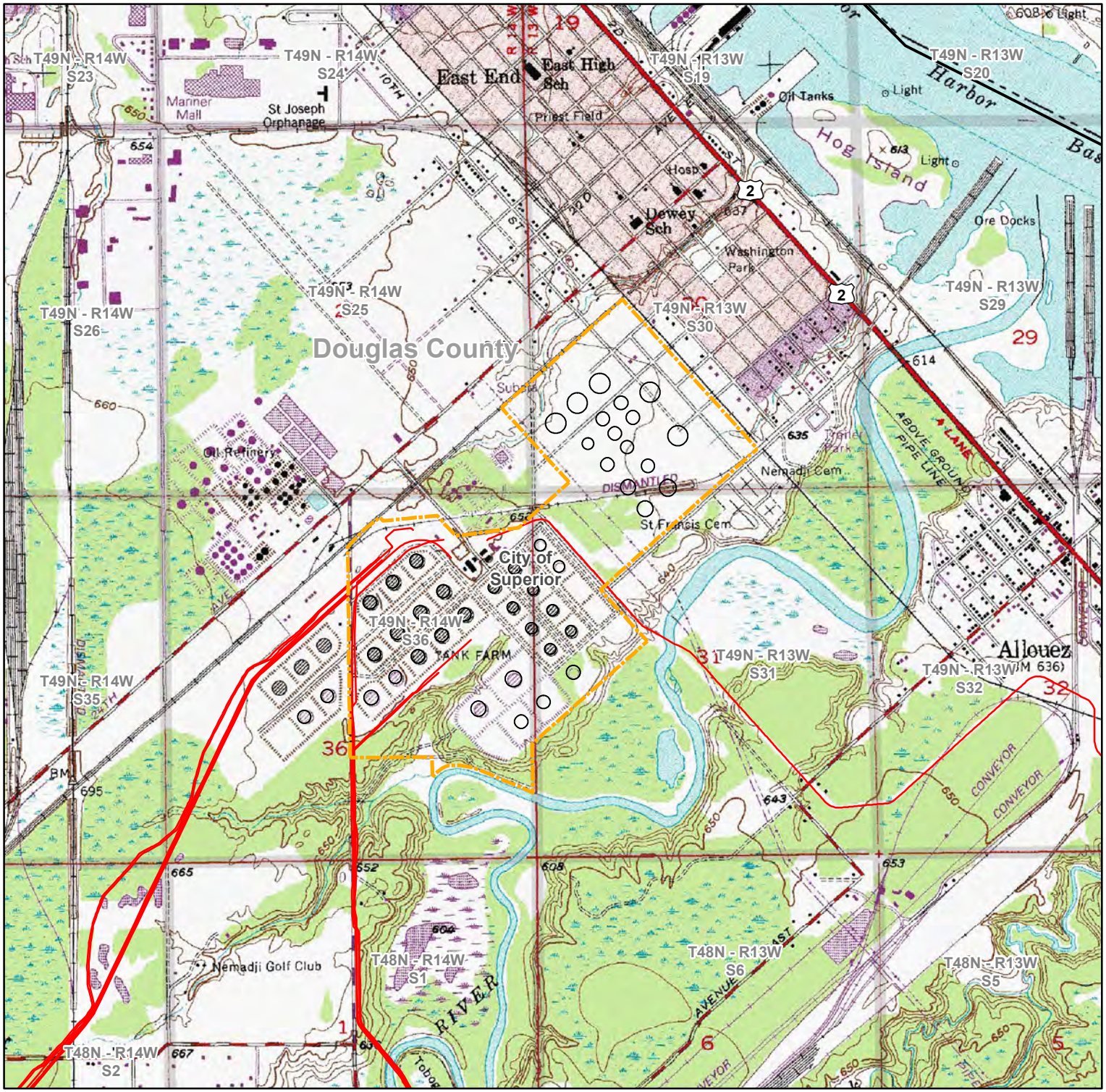
NA = Not analyzed for this parameter

NS = Not sampled for this parameter

<1.0 = not detected above the laboratory practical quantitation limit or reporting limit

J = Estimated concentration at or above the Limit of Detection and below the Limit of Quantitation

Figures



Site Location

Enbridge Pipelines

Terminal Property Boundary

N

0 2,000 4,000

Feet

1 Inch = 2,000 Feet

Figure 1

SITE LOCATION

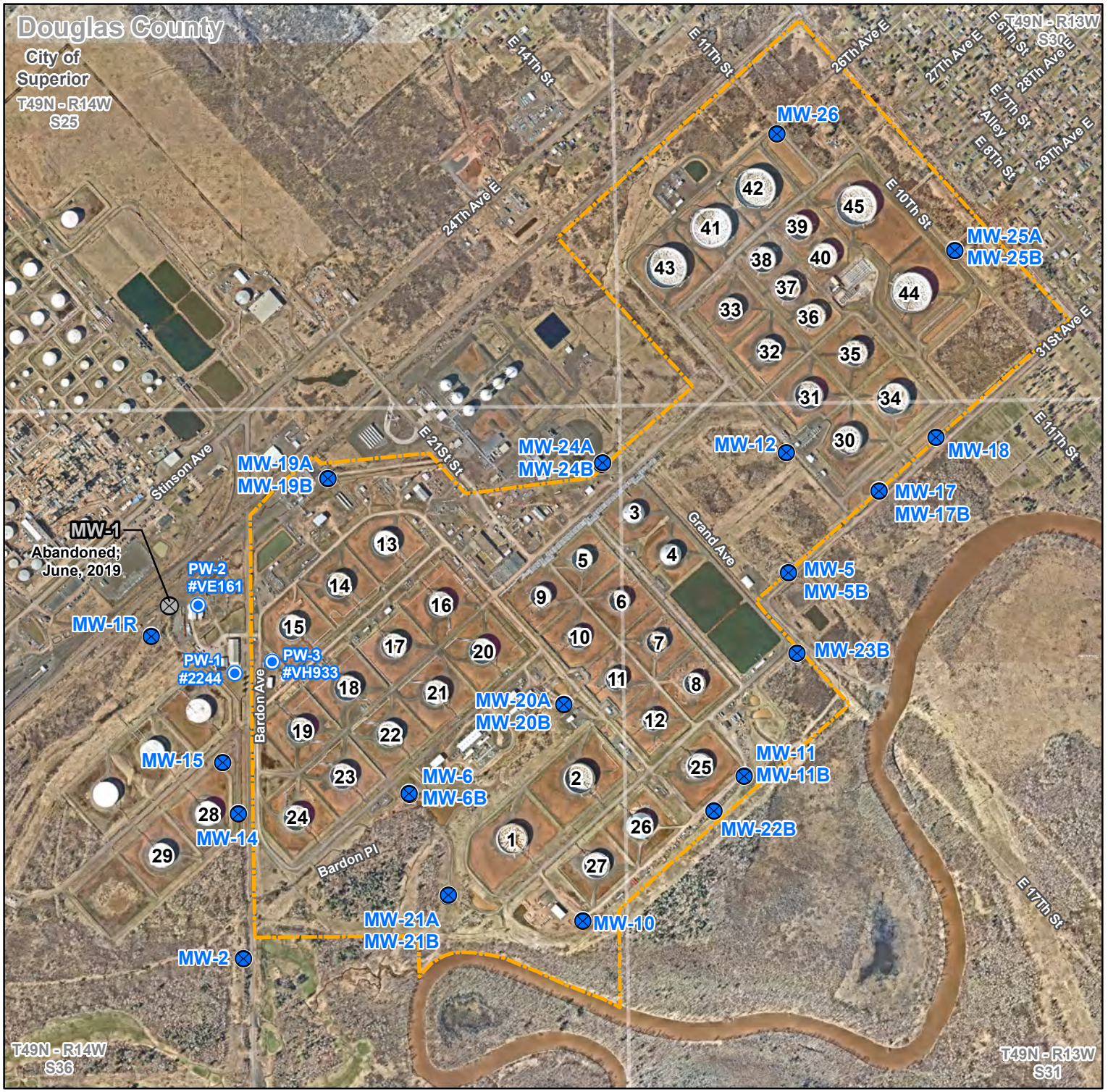
Superior Terminal

Enbridge Energy, L.P.

Superior, Wisconsin

ENBRIDGE

Barr Footer: ArcGIS 10.7.1, 2020-11-16 09:52 File: I:\Client\Enbridge_Energy\Work_Orders\Spill_Response_Investigation\49161419\Maps\Reports\2020\Figure1_Superior_Terminal_Site_Location.mxd User: VAW



- Monitoring Well Location
- Private Well Location
- Abandonend Monitoring Well
- Terminal Property Boundary

Note:
Monitoring well locations with "B" are deep wells (piezometers).

N

0 1,000 2,000

Feet

1 Inch = 1,000 Feet

Figure 2

MONITORING WELL LOCATIONS

Superior Terminal
Enbridge Energy, L.P.
Superior, Wisconsin

ENBRIDGE

Barr Footer: ArcGIS 10.8.1, 2021-06-09 16:39 File: I:\Client\Enbridge_Energy\Work_Orders\Spill_Response_Investigation\49161419\Maps\Reports\2021\Figure2_Superior_SiteMap_2021.mxd User: VAW

Site Location

Monitoring Wells
Groundwater Elevation (ft NAVD)

Groundwater Elevation (ft)
Contour Interval = 2-Foot
(Dashed Where Inferred)

Groundwater Flow Direction

5-Foot Topographic Contours

Terminal Property Boundary

MW-24A well riser had heaved and elevation data may be biased.

Groundwater elevations measured on 5/10/21.

N

0 1,000 2,000

Feet

1 Inch = 1,000 Feet

Figure 3

SPRING 2021
SHALLOW GROUNDWATER ELEVATION CONTOURS

Superior Terminal
Enbridge Energy, L.P.
Superior, Wisconsin

ENBRIDGE

Barr Footer: ArcGIS 10.8.1, 2021-06-23 14:36 File: I:\Client\Enbridge_Energy\Work_Orders\Spill_Response_Investigation\49161419\Maps\Reports\2021\01_Spring2021\Figure3_Superior_Spring_Shallow_GroundwaterElevation_Contours.mxd User: VAW

Site Location

Monitoring Wells - Piezometer
Groundwater Elevation (ft NAVD)

Groundwater Elevation (ft)
Contour Interval = 2-Foot
(Dashed Where Inferred)

Groundwater Flow Direction

5-Foot Topographic Contours

Terminal Property Boundary

Groundwater elevations measured on 5/10/21.

N

0 1,000 2,000

Feet

1 Inch = 1,000 Feet

Figure 4

SPRING 2021
DEEP GROUNDWATER
ELEVATION CONTOURS

Superior Terminal
Enbridge Energy, L.P.
Superior, Wisconsin

ENBRIDGE

Barr Footer: ArcGIS 10.8.1, 2021-07-16 10:02 File: I:\Client\Enbridge_Energy\Work_Orders\Spill_Response_Investigation\49161419\Maps\Reports\2021\01_Spring2021\Figure4_Superior_Spring_Deep_GroundwaterElevation_Contours.mxd User: VAW

Appendix A

Laboratory Analytical Reports

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

May 27, 2021

Jim Taraldsen
Barr Engineering Company
325 S Lake Ave
Duluth, MN 55802

RE: Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Dear Jim Taraldsen:

Enclosed are the analytical results for sample(s) received by the laboratory on May 13, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amanda J Albrecht

Amanda Albrecht
amanda.albrecht@pacelabs.com
(612)607-6382
Project Manager

Enclosures

cc: BarrDM@barr.com, Barr Engineering
Data Management, Barr Engineering
Accounts Payable, Barr Engineering

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10560268001	**MW-20A**	Water	05/11/21 11:00	05/13/21 13:40
10560268002	**MW-20B**	Water	05/11/21 11:30	05/13/21 13:40
10560268003	**MW-6**	Water	05/11/21 12:40	05/13/21 13:40
10560268004	**MW-6B**	Water	05/11/21 12:50	05/13/21 13:40
10560268005	**MW-2**	Water	05/11/21 14:03	05/13/21 13:40
10560268006	**MW-19B**	Water	05/11/21 15:20	05/13/21 13:40
10560268007	**MW-19A**	Water	05/11/21 15:25	05/13/21 13:40
10560268008	**MW-24A**	Water	05/11/21 16:30	05/13/21 13:40
10560268009	**MW-24B**	Water	05/11/21 16:52	05/13/21 13:40
10560268010	**MW-12**	Water	05/12/21 08:30	05/13/21 13:40
10560268011	**MW-25A**	Water	05/12/21 09:10	05/13/21 13:40
10560268012	**MW-25B**	Water	05/12/21 09:40	05/13/21 13:40
10560268013	**MW-26**	Water	05/12/21 10:18	05/13/21 13:40
10560268014	**MW-21A**	Water	05/12/21 11:10	05/13/21 13:40
10560268015	**MW-21B**	Water	05/12/21 11:45	05/13/21 13:40
10560268016	**MW-10**	Water	05/12/21 12:35	05/13/21 13:40
10560268017	**MW-22B**	Water	05/12/21 13:50	05/13/21 13:40
10560268018	**MW-11**	Water	05/12/21 14:27	05/13/21 13:40
10560268019	**MW-11B**	Water	05/12/21 15:00	05/13/21 13:40
10560268020	**MW-1R**	Water	05/12/21 15:55	05/13/21 13:40
10560268021	**MW-15**	Water	05/12/21 16:30	05/13/21 13:40
10560268022	**MW-14**	Water	05/12/21 17:00	05/13/21 13:40
10560268023	**MW-18**	Water	05/13/21 07:25	05/13/21 13:40
10560268024	**MW-17**	Water	05/13/21 08:02	05/13/21 13:40
10560268025	**MW-17B**	Water	05/13/21 08:20	05/13/21 13:40
10560268026	**MW-5**	Water	05/13/21 09:10	05/13/21 13:40
10560268027	**MW-5B**	Water	05/13/21 09:45	05/13/21 13:40
10560268028	**Dup-1**	Water	05/11/21 00:00	05/13/21 13:40
10560268029	**Dup-2**	Water	05/12/21 00:00	05/13/21 13:40
10560268030	**Dup-3**	Water	05/13/21 00:00	05/13/21 13:40
10560268031	**Trip Blank - 1**	Water	05/11/21 00:00	05/13/21 13:40

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10560268001	MW-20A	EPA 8260	MDS	11	PASI-G
10560268002	MW-20B	EPA 8260	MDS	11	PASI-G
10560268003	MW-6	EPA 8260	MDS	11	PASI-G
10560268004	MW-6B	EPA 8260	MDS	11	PASI-G
10560268005	MW-2	EPA 8260	MDS	11	PASI-G
10560268006	MW-19B	EPA 8260	MDS	11	PASI-G
10560268007	MW-19A	EPA 8260	MDS	11	PASI-G
10560268008	MW-24A	EPA 8260	MDS	11	PASI-G
10560268009	MW-24B	EPA 8260	MDS	11	PASI-G
10560268010	MW-12	EPA 8260	MDS	11	PASI-G
10560268011	MW-25A	EPA 8260	MDS	11	PASI-G
10560268012	MW-25B	EPA 8260	MDS	11	PASI-G
10560268013	MW-26	EPA 8260	MDS	11	PASI-G
10560268014	MW-21A	EPA 8260	MDS	11	PASI-G
10560268015	MW-21B	EPA 8260	MDS	11	PASI-G
10560268016	MW-10	EPA 8260	MDS	11	PASI-G
10560268017	MW-22B	EPA 8260	MDS	11	PASI-G
10560268018	MW-11	EPA 8260	MDS	11	PASI-G
10560268019	MW-11B	EPA 8260	MDS	11	PASI-G
10560268020	MW-1R	EPA 8260	MDS	11	PASI-G
10560268021	MW-15	EPA 8260	MDS	11	PASI-G
10560268022	MW-14	EPA 8260	MDS	11	PASI-G
10560268023	MW-18	EPA 8260	MDS	11	PASI-G
10560268024	MW-17	EPA 8260	MDS	11	PASI-G
10560268025	MW-17B	EPA 8260	MDS	11	PASI-G
10560268026	MW-5	EPA 8260	MDS	11	PASI-G
10560268027	MW-5B	EPA 8260	MDS	11	PASI-G
10560268028	Dup-1	EPA 8260	MDS	11	PASI-G
10560268029	Dup-2	EPA 8260	MDS	11	PASI-G
10560268030	Dup-3	EPA 8260	MDS	11	PASI-G
10560268031	Trip Blank - 1	EPA 8260	MDS	11	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-20A **Lab ID: 10560268001** Collected: 05/11/21 11:00 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 14:09	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 14:09	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 14:09	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 14:09	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 14:09	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 14:09	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 14:09	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 14:09	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		05/19/21 14:09	2037-26-5	
4-Bromofluorobenzene (S)	112	%	70-130		1		05/19/21 14:09	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		05/19/21 14:09	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-20B **Lab ID: 10560268002** Collected: 05/11/21 11:30 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 14:29	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 14:29	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 14:29	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 14:29	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 14:29	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 14:29	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 14:29	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 14:29	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		05/19/21 14:29	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		1		05/19/21 14:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		05/19/21 14:29	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-6 **Lab ID: 10560268003** Collected: 05/11/21 12:40 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<1.5**	ug/L	5.0	1.5	5		05/19/21 14:49	71-43-2	
Ethylbenzene	**<1.6**	ug/L	5.0	1.6	5		05/19/21 14:49	100-41-4	
Methyl-tert-butyl ether	**<5.6**	ug/L	25.0	5.6	5		05/19/21 14:49	1634-04-4	
Naphthalene	**<5.6**	ug/L	25.0	5.6	5		05/19/21 14:49	91-20-3	
Toluene	**<1.4**	ug/L	5.0	1.4	5		05/19/21 14:49	108-88-3	
1,2,4-Trimethylbenzene	**<2.2**	ug/L	5.0	2.2	5		05/19/21 14:49	95-63-6	
1,3,5-Trimethylbenzene	**<1.8**	ug/L	5.0	1.8	5		05/19/21 14:49	108-67-8	
Xylene (Total)	**<5.2**	ug/L	15.0	5.2	5		05/19/21 14:49	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	70-130		5		05/19/21 14:49	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		5		05/19/21 14:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		5		05/19/21 14:49	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-6B **Lab ID: 10560268004** Collected: 05/11/21 12:50 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 15:09	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 15:09	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 15:09	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 15:09	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 15:09	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 15:09	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 15:09	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 15:09	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		05/19/21 15:09	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		1		05/19/21 15:09	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/19/21 15:09	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-2 **Lab ID: 10560268005** Collected: 05/11/21 14:03 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 15:49	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 15:49	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 15:49	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 15:49	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 15:49	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 15:49	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 15:49	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 15:49	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		05/19/21 15:49	2037-26-5	
4-Bromofluorobenzene (S)	111	%	70-130		1		05/19/21 15:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		05/19/21 15:49	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-19B **Lab ID: 10560268006** Collected: 05/11/21 15:20 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 17:22	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 17:22	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 17:22	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 17:22	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 17:22	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 17:22	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 17:22	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 17:22	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		05/19/21 17:22	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		1		05/19/21 17:22	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/19/21 17:22	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-19A **Lab ID: 10560268007** Collected: 05/11/21 15:25 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 17:41	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 17:41	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 17:41	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 17:41	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 17:41	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 17:41	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 17:41	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 17:41	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		05/19/21 17:41	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		1		05/19/21 17:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		05/19/21 17:41	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-24A **Lab ID: 10560268008** Collected: 05/11/21 16:30 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 18:01	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 18:01	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 18:01	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 18:01	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 18:01	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 18:01	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 18:01	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 18:01	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		05/19/21 18:01	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		1		05/19/21 18:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/19/21 18:01	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-24B **Lab ID: 10560268009** Collected: 05/11/21 16:52 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 18:21	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 18:21	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 18:21	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 18:21	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 18:21	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 18:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 18:21	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 18:21	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		05/19/21 18:21	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		1		05/19/21 18:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		05/19/21 18:21	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-12 **Lab ID: 10560268010** Collected: 05/12/21 08:30 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 19:01	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 19:01	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 19:01	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 19:01	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 19:01	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 19:01	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 19:01	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 19:01	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		05/19/21 19:01	2037-26-5	
4-Bromofluorobenzene (S)	112	%	70-130		1		05/19/21 19:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		05/19/21 19:01	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-25A **Lab ID: 10560268011** Collected: 05/12/21 09:10 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 19:21	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 19:21	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 19:21	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 19:21	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 19:21	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 19:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 19:21	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 19:21	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	70-130		1		05/19/21 19:21	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		1		05/19/21 19:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		05/19/21 19:21	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-25B **Lab ID: 10560268012** Collected: 05/12/21 09:40 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 19:41	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 19:41	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 19:41	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 19:41	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 19:41	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 19:41	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 19:41	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 19:41	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		05/19/21 19:41	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		1		05/19/21 19:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		05/19/21 19:41	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-26 **Lab ID: 10560268013** Collected: 05/12/21 10:18 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 20:01	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 20:01	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 20:01	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 20:01	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 20:01	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 20:01	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 20:01	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 20:01	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		05/19/21 20:01	2037-26-5	
4-Bromofluorobenzene (S)	111	%	70-130		1		05/19/21 20:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/19/21 20:01	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-21A **Lab ID: 10560268014** Collected: 05/12/21 11:10 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 20:20	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 20:20	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 20:20	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 20:20	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 20:20	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 20:20	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 20:20	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 20:20	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		05/19/21 20:20	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		1		05/19/21 20:20	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		05/19/21 20:20	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-21B **Lab ID: 10560268015** Collected: 05/12/21 11:45 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 23:19	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 23:19	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 23:19	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 23:19	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 23:19	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 23:19	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 23:19	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 23:19	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		05/19/21 23:19	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		05/19/21 23:19	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		05/19/21 23:19	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-10 **Lab ID: 10560268016** Collected: 05/12/21 12:35 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 23:39	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 23:39	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 23:39	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 23:39	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 23:39	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 23:39	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 23:39	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 23:39	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		05/19/21 23:39	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		1		05/19/21 23:39	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/19/21 23:39	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-22B **Lab ID: 10560268017** Collected: 05/12/21 13:50 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 23:58	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 23:58	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 23:58	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 23:58	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 23:58	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 23:58	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 23:58	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 23:58	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		05/19/21 23:58	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		1		05/19/21 23:58	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		05/19/21 23:58	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-11 **Lab ID: 10560268018** Collected: 05/12/21 14:27 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/20/21 00:18	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/20/21 00:18	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/20/21 00:18	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/20/21 00:18	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/20/21 00:18	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/20/21 00:18	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/20/21 00:18	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/20/21 00:18	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		05/20/21 00:18	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		05/20/21 00:18	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		05/20/21 00:18	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-11B **Lab ID: 10560268019** Collected: 05/12/21 15:00 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/20/21 00:38	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/20/21 00:38	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/20/21 00:38	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/20/21 00:38	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/20/21 00:38	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/20/21 00:38	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/20/21 00:38	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/20/21 00:38	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		05/20/21 00:38	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		1		05/20/21 00:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		05/20/21 00:38	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-1R **Lab ID: 10560268020** Collected: 05/12/21 15:55 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/20/21 00:58	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/20/21 00:58	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/20/21 00:58	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/20/21 00:58	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/20/21 00:58	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/20/21 00:58	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/20/21 00:58	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/20/21 00:58	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		05/20/21 00:58	2037-26-5	
4-Bromofluorobenzene (S)	112	%	70-130		1		05/20/21 00:58	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		05/20/21 00:58	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-15 **Lab ID: 10560268021** Collected: 05/12/21 16:30 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/20/21 01:17	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/20/21 01:17	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/20/21 01:17	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/20/21 01:17	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/20/21 01:17	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/20/21 01:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/20/21 01:17	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/20/21 01:17	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		05/20/21 01:17	2037-26-5	
4-Bromofluorobenzene (S)	111	%	70-130		1		05/20/21 01:17	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		05/20/21 01:17	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-14 **Lab ID: 10560268022** Collected: 05/12/21 17:00 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/20/21 01:37	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/20/21 01:37	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/20/21 01:37	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/20/21 01:37	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/20/21 01:37	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/20/21 01:37	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/20/21 01:37	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/20/21 01:37	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		05/20/21 01:37	2037-26-5	
4-Bromofluorobenzene (S)	112	%	70-130		1		05/20/21 01:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		05/20/21 01:37	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-18 **Lab ID: 10560268023** Collected: 05/13/21 07:25 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/20/21 02:17	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/20/21 02:17	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/20/21 02:17	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/20/21 02:17	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/20/21 02:17	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/20/21 02:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/20/21 02:17	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/20/21 02:17	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		05/20/21 02:17	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		05/20/21 02:17	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		05/20/21 02:17	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-17 **Lab ID: 10560268024** Collected: 05/13/21 08:02 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/20/21 02:36	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/20/21 02:36	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/20/21 02:36	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/20/21 02:36	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/20/21 02:36	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/20/21 02:36	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/20/21 02:36	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/20/21 02:36	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		05/20/21 02:36	2037-26-5	
4-Bromofluorobenzene (S)	114	%	70-130		1		05/20/21 02:36	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/20/21 02:36	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-17B **Lab ID: 10560268025** Collected: 05/13/21 08:20 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/20/21 02:56	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/20/21 02:56	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/20/21 02:56	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/20/21 02:56	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/20/21 02:56	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/20/21 02:56	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/20/21 02:56	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/20/21 02:56	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		05/20/21 02:56	2037-26-5	
4-Bromofluorobenzene (S)	111	%	70-130		1		05/20/21 02:56	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		05/20/21 02:56	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-5 **Lab ID: 10560268026** Collected: 05/13/21 09:10 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/20/21 09:51	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/20/21 09:51	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/20/21 09:51	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/20/21 09:51	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/20/21 09:51	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/20/21 09:51	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/20/21 09:51	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/20/21 09:51	1330-20-7	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		05/20/21 09:51	2037-26-5	
4-Bromofluorobenzene (S)	112	%	70-130		1		05/20/21 09:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/20/21 09:51	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: MW-5B **Lab ID: 10560268027** Collected: 05/13/21 09:45 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/20/21 10:11	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/20/21 10:11	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/20/21 10:11	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/20/21 10:11	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/20/21 10:11	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/20/21 10:11	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/20/21 10:11	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/20/21 10:11	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		05/20/21 10:11	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		1		05/20/21 10:11	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		05/20/21 10:11	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: Dup-1 **Lab ID: 10560268028** Collected: 05/11/21 00:00 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 13:49	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 13:49	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 13:49	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 13:49	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 13:49	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 13:49	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 13:49	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 13:49	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		05/19/21 13:49	2037-26-5	
4-Bromofluorobenzene (S)	111	%	70-130		1		05/19/21 13:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/19/21 13:49	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: Dup-2 **Lab ID: 10560268029** Collected: 05/12/21 00:00 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 18:41	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 18:41	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 18:41	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 18:41	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 18:41	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 18:41	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 18:41	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 18:41	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		05/19/21 18:41	2037-26-5	
4-Bromofluorobenzene (S)	111	%	70-130		1		05/19/21 18:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		05/19/21 18:41	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: Dup-3 **Lab ID: 10560268030** Collected: 05/13/21 00:00 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/20/21 01:57	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/20/21 01:57	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/20/21 01:57	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/20/21 01:57	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/20/21 01:57	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/20/21 01:57	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/20/21 01:57	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/20/21 01:57	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		05/20/21 01:57	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		05/20/21 01:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/20/21 01:57	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Sample: Trip Blank - 1 **Lab ID: 10560268031** Collected: 05/11/21 00:00 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/19/21 13:29	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/19/21 13:29	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/19/21 13:29	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/19/21 13:29	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/19/21 13:29	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/19/21 13:29	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/19/21 13:29	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/19/21 13:29	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		05/19/21 13:29	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		1		05/19/21 13:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/19/21 13:29	2199-69-1	

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QUALITY CONTROL DATA

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

QC Batch: 385546
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 10560268001, 10560268002, 10560268003, 10560268004, 10560268005, 10560268006, 10560268007, 10560268008, 10560268009, 10560268010, 10560268011, 10560268012, 10560268013, 10560268014, 10560268028, 10560268029, 10560268031

METHOD BLANK: 2224927 Matrix: Water
Associated Lab Samples: 10560268001, 10560268002, 10560268003, 10560268004, 10560268005, 10560268006, 10560268007, 10560268008, 10560268009, 10560268010, 10560268011, 10560268012, 10560268013, 10560268014, 10560268028, 10560268029, 10560268031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	05/19/21 09:02	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	05/19/21 09:02	
Benzene	ug/L	<0.30	1.0	05/19/21 09:02	
Ethylbenzene	ug/L	<0.33	1.0	05/19/21 09:02	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	05/19/21 09:02	
Naphthalene	ug/L	<1.1	5.0	05/19/21 09:02	
Toluene	ug/L	<0.29	1.0	05/19/21 09:02	
Xylene (Total)	ug/L	<1.0	3.0	05/19/21 09:02	
1,2-Dichlorobenzene-d4 (S)	%	101	70-130	05/19/21 09:02	
4-Bromofluorobenzene (S)	%	111	70-130	05/19/21 09:02	
Toluene-d8 (S)	%	100	70-130	05/19/21 09:02	

LABORATORY CONTROL SAMPLE: 2224928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	49.3	99	70-132	
Ethylbenzene	ug/L	50	51.6	103	80-123	
Methyl-tert-butyl ether	ug/L	50	47.3	95	66-130	
Toluene	ug/L	50	50.0	100	80-121	
Xylene (Total)	ug/L	150	151	101	70-130	
1,2-Dichlorobenzene-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			113	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2224929 2224930

Parameter	Units	40227030050 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<1.0	50	50	43.2	50.5	86	101	70-132	16	20	
Ethylbenzene	ug/L	<1.0	50	50	46.2	51.3	92	103	80-123	11	20	
Methyl-tert-butyl ether	ug/L	<5.0	50	50	41.1	49.8	82	100	66-130	19	20	
Toluene	ug/L	<1.0	50	50	45.0	49.8	90	100	80-121	10	20	
Xylene (Total)	ug/L	<3.0	150	150	137	152	91	102	70-130	11	20	
1,2-Dichlorobenzene-d4 (S)	%						105	100	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2224929 2224930

Parameter	Units	40227030050 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Bromofluorobenzene (S)	%						119	110	70-130			
Toluene-d8 (S)	%						105	101	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

QC Batch: 385756
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 10560268015, 10560268016, 10560268017, 10560268018, 10560268019, 10560268020, 10560268021, 10560268022, 10560268023, 10560268024, 10560268025, 10560268026, 10560268027, 10560268030

METHOD BLANK: 2225818 Matrix: Water
Associated Lab Samples: 10560268015, 10560268016, 10560268017, 10560268018, 10560268019, 10560268020, 10560268021, 10560268022, 10560268023, 10560268024, 10560268025, 10560268026, 10560268027, 10560268030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	05/19/21 17:02	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	05/19/21 17:02	
Benzene	ug/L	<0.30	1.0	05/19/21 17:02	
Ethylbenzene	ug/L	<0.33	1.0	05/19/21 17:02	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	05/19/21 17:02	
Naphthalene	ug/L	<1.1	5.0	05/19/21 17:02	
Toluene	ug/L	<0.29	1.0	05/19/21 17:02	
Xylene (Total)	ug/L	<1.0	3.0	05/19/21 17:02	
1,2-Dichlorobenzene-d4 (S)	%	101	70-130	05/19/21 17:02	
4-Bromofluorobenzene (S)	%	109	70-130	05/19/21 17:02	
Toluene-d8 (S)	%	104	70-130	05/19/21 17:02	

LABORATORY CONTROL SAMPLE: 2225819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	51.6	103	70-132	
Ethylbenzene	ug/L	50	52.5	105	80-123	
Methyl-tert-butyl ether	ug/L	50	50.3	101	66-130	
Toluene	ug/L	50	50.9	102	80-121	
Xylene (Total)	ug/L	150	155	104	70-130	
1,2-Dichlorobenzene-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			112	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2226003 2226004

Parameter	Units	10560268019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.30	50	50	49.2	51.2	98	102	70-132	4	20	
Ethylbenzene	ug/L	<0.33	50	50	50.5	52.0	101	104	80-123	3	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	48.9	51.1	98	102	66-130	4	20	
Toluene	ug/L	<0.29	50	50	48.9	50.5	98	101	80-121	3	20	
Xylene (Total)	ug/L	<1.0	150	150	146	155	97	103	70-130	6	20	
1,2-Dichlorobenzene-d4 (S)	%						104	103	70-130			
4-Bromofluorobenzene (S)	%						114	115	70-130			
Toluene-d8 (S)	%						98	100	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560268

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10560268001	**MW-20A**	EPA 8260	385546		
10560268002	**MW-20B**	EPA 8260	385546		
10560268003	**MW-6**	EPA 8260	385546		
10560268004	**MW-6B**	EPA 8260	385546		
10560268005	**MW-2**	EPA 8260	385546		
10560268006	**MW-19B**	EPA 8260	385546		
10560268007	**MW-19A**	EPA 8260	385546		
10560268008	**MW-24A**	EPA 8260	385546		
10560268009	**MW-24B**	EPA 8260	385546		
10560268010	**MW-12**	EPA 8260	385546		
10560268011	**MW-25A**	EPA 8260	385546		
10560268012	**MW-25B**	EPA 8260	385546		
10560268013	**MW-26**	EPA 8260	385546		
10560268014	**MW-21A**	EPA 8260	385546		
10560268015	**MW-21B**	EPA 8260	385756		
10560268016	**MW-10**	EPA 8260	385756		
10560268017	**MW-22B**	EPA 8260	385756		
10560268018	**MW-11**	EPA 8260	385756		
10560268019	**MW-11B**	EPA 8260	385756		
10560268020	**MW-1R**	EPA 8260	385756		
10560268021	**MW-15**	EPA 8260	385756		
10560268022	**MW-14**	EPA 8260	385756		
10560268023	**MW-18**	EPA 8260	385756		
10560268024	**MW-17**	EPA 8260	385756		
10560268025	**MW-17B**	EPA 8260	385756		
10560268026	**MW-5**	EPA 8260	385756		
10560268027	**MW-5B**	EPA 8260	385756		
10560268028	**Dup-1**	EPA 8260	385546		
10560268029	**Dup-2**	EPA 8260	385546		
10560268030	**Dup-3**	EPA 8260	385756		
10560268031	**Trip Blank - 1**	EPA 8260	385546		

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Barr Engineering Co. Chain of Custody

Sample Origination State
☐ CO ☐ MI ☐ MN ☐ MO ☐ ND ☐ TX ☐ UT ☒ WI ☐ Other: _____

COC Number: **№ 588139**
COC 1 of 4

REPORT TO	INVOICE TO
Company: Barr Engineering Co.	Company: Barr
Address: 325 S. Lake Ave	Address:
Address: Duluth, MN 55802	Address:
Name: Lynette Carney	Name:
email: lcarney@barr.com	email:
Copy to: BarrDM@barr.com	P.O. —
Project Name: 2021 GMP SPT	Barr Project No: 49/61528.00 200205

Matrix Code: GW = Groundwater; SW = Surface Water; WW = Waste Water; DW = Drinking Water; S = Soil/Solid; SD = Sediment; O = Other

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; I = Ascorbic Acid; J = Zn Acetate; K = Other

Location	Sample Depth Start	Sample Depth Stop	Sample Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD Y / N	Total Number Of Containers	Analysis Requested: Water: PVOC + Naphthalene (8260)	Analysis Requested: Soil: % Solids	Preservative Code	Field Filtered Y/N
1. MW-20A				05/11/2021	1100	GW	N	3	3			001
2. MW-20B					1130	GW	N	3	3			002
3. MW-6					1240	GW	N	3	3			003
4. MW-6B					1250	GW	N	3	3			004
5. MW-2					1403	GW	N	3	3			005
6. MW-19B					1520	GW	N	3	3			006
7. MW-19A					1525	GW	N	3	3			007
8. MW-24A					1630	GW	N	3	3			008
9. MW-24B					1652	GW	N	3	3			009
10. MW-12				05/12/2021	0830	GW	N	3	3			010

BARR USE ONLY
Sampled by: KMJ3
Barr Proj. Manager: LMC
Barr DQ Manager: JET
Lab Name: Pace
Lab Location: Green Bay, WI

Relinquished by: Kent Mart — On Ice? (Y) N — Date 5/13/21 — Time 1340 — Received by: Pace — Date 5/13/21 — Time 13:40

Relinquished by: — On Ice? (Y) N — Date 5/14/21 — Time 1400 — Received by: — Date — Time

Samples Shipped VIA: ☐ Ground Courier ☐ Sampler ☐ Other: _____ ☐ Carrier

Air Bill Number:

Lab WO: Temperature on Receipt (°C): 1.2 Custody Seal Intact? ☐ Y ☐ N ☒ None

Requested Due Date:
☒ Standard Turn Around Time
☐ Rush _____ (mm/dd/yyyy)

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Distribution - **White-Original:** Accompanies Shipment to Laboratory; **Yellow Copy:** Include in Field Documents; **Scan and email:** a copy to BarrDM@barr.com for tracking and filing procedures

Relinquished by: Fedex (Y) 5/15/21 1120 Received by: Anthony Wendel 5/15/21 1120

Barr Engineering Co. Chain of Custody

Sample Origination State: ☐ CO ☐ MI ☐ MN ☐ MO ☐ ND ☐ TX ☐ UT ☒ WI ☐ Other: _____

COC Number: № 588138
COC 2 of 4

REPORT TO	INVOICE TO
Company: Barr Engineering Co.	Company: Barr
Address: 325 S. Lake Ave	Address:
Address: Duluth, MN 55802	Address:
Name: Lynette Carney	Name:
email: lcarney@barr.com	email:
Copy to: BarrDM@barr.com	P.O. —
Project Name: 2021 GMP SPT	Barr Project No: 49161528.00 200205

Matrix Code: GW = Groundwater; SW = Surface Water; WW = Waste Water; DW = Drinking Water; S = Soil/Solid; SD = Sediment; O = Other

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; I = Ascorbic Acid; J = Zn Acetate; K = Other

	Location	Sample Depth Start	Sample Depth Stop	Sample Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD Y / (N)	Total Number Of Containers	Analysis Requested: Water — PVOC + Naphthalene (8260)	Analysis Requested: Water — 2	Analysis Requested: Soil — % Solids	Preservative Code	Field Filtered Y/N
1.	MW-25A				05/12/2021	0910	GW	N	3	3				011
2.	MW-25B					0940		N	3	3				012
3.	MW-26					1018		N	3	3				013
4.	MW-21A					1110		N	3	3				014
5.	MW-21B					1145		N	3	3				015
6.	MW-10					1235		N	3	3				016
7.	MW-22B					1350		N	3	3				017
8.	MW-11					1427		N	3	3				018
9.	MW-11B					1500		N	3	3				019
10.	MW-1R					1555		N	3	3				020

BARR USE ONLY

Sampled by: KMJ3
Barr Proj. Manager: LMC
Barr DQ Manager: JET
Lab Name: Pace
Lab Location: Green Bay, WI

Relinquished by: Mark Mart — On Ice? (Y) N — Date 5/13/21 — Time 1340
Received by: John Gatt / PACE — Date 5/13/21 — Time 13:40
Relinquished by: — On Ice? (Y) N — Date 5/14/21 — Time 1400
Received by: — Date — Time

Samples Shipped VIA: ☐ Ground Courier ☐ Air Carrier ☐ Sampler ☐ Other: _____
Air Bill Number:
Lab WO:
Temperature on Receipt (°C): 1.2 Custody Seal Intact? ☐ Y ☐ N ☑ None

Requested Due Date: ☒ Standard Turn Around Time ☐ Rush _____ (mm/dd/yyyy)

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Distribution - White-Original: Accompanies Shipment to Laboratory; **Yellow Copy:** Include in Field Documents; **Scan and email:** a copy to BarrDM@barr.com for tracking and filing procedures

Relinquished by: Fedex @ 5/15/21 1120 Received by: Anthony Wendel 5/15/21 1120

Barr Engineering Co. Chain of Custody

Sample Origination State

☐ CO ☐ MI ☐ MN ☐ MO ☐ ND ☐ TX ☐ UT ☒ WI ☐ Other: ________

COC Number: № 589460

COC 3 of 4

REPORT TO		INVOICE TO	
Company:	Barr Engineering Co.	Company:	Barr ↓
Address:	325 S. Lake Ave	Address:	
Address:	Duluth, MN 55802	Address:	
Name:	Lynette Carney	Name:	
email:	lcarney@barr.com	email:	
Copy to:	BarrDM@barr.com	P.O.	—
Project Name:	2021 GMP SPT	Barr Project No:	49161528.00 200 205

Analysis Requested: Water / Soil

	Location	Sample Depth Start	Stop	Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD Y / N	Total Number Of Containers	VOC + Naphthalene (8260)	% Solids	
									Preservative Code	B		
									Field Filtered Y/N	N		
1.	MW-15				05/12/2021	1630	GW	N	3	3		021
2.	MW-14				05/12/2021	1700	↓	↓	↓	↓		022
3.	MW-18				05/13/2021	0725						023
4.	MW-17				↓	0802						024
5.	MW-17B					0820						025
6.	MW-5					0910						026
7.	MW-5B					0945						027
8.	Dup-1	—	—		05/11/2021	—						028
9.	Dup-2	—	—		05/12/2021	—						029
10.	Dup-3	—	—		05/13/2021	—						030

Matrix Code:
GW = Groundwater
SW = Surface Water
WW = Waste Water
DW = Drinking Water
S = Soil/Solid
SD = Sediment
O = Other

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
I = Ascorbic Acid
J = Zn Acetate
K = Other

BARR USE ONLY	
Sampled by:	KMJ3
Barr Proj. Manager:	LMC
Barr DQ Manager:	JET
Lab Name:	Pace
Lab Location:	Green Bay, WI

Relinquished by:	On Ice?	Date	Time	Received by:	Date	Time
Keith Marty (signature)	Ⓨ N	5/13/21	1340	John Potts / PACE	5/13/21	13:40
(signature)	Ⓨ N	5/14/21	1400			

Samples Shipped VIA: ☐ Ground Courier ☐ Air Carrier ☐ Sampler ☐ Other: ________

Air Bill Number:

Requested Due Date:
☒ Standard Turn Around Time
☐ Rush ________ (mm/dd/yyyy)

Lab WO: Temperature on Receipt (°C): 1.2 Custody Seal Intact? ☐ Y ☐ N ☒ None

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Relinquished by: Fedex Ⓨ 5/15/21 1120 Received by: Anthony Vendel 5/15/21 1120

Barr Engineering Co. Chain of Custody

COC Number: № 589463
COC 4 of 4

Sample Origination State
☐ CO ☐ MI ☐ MN ☐ MO ☐ ND ☐ TX ☐ UT ☒ WI ☐ Other: ______

REPORT TO		INVOICE TO	
Company:	Barr Engineering	Company:	Barr
Address:	325 S. Lake Ave.	Address:	↓
Address:	Duluth, MN 55802	Address:	
Name:	Lynette Carney	Name:	
email:	lcarney@barr.com	email:	
Copy to:	BarrDM@barr.com	P.O.	—
Project Name:	2021 GMP SPT	Barr Project No:	49161528.00 200 205

Matrix Code:
GW = Groundwater
SW = Surface Water
WW = Waste Water
DW = Drinking Water
S = Soil/Solid
SD = Sediment
O = Other

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
I = Ascorbic Acid
J = Zn Acetate
K = Other

Analysis Requested: Water | Soil

Location	Sample Depth Start	Stop	Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD Y / N	Total Number Of Containers	PVOC+Naphthalene (8260)	% Solids	
Preservative Code									B		
Field Filtered Y/N									N		
1. Trip Blank-1	—	—	—	—	—	—	N	2	2		031
2.											
3.											
4.											
5.											
6.											
7.											
8.											
9.											
10.											

BARR USE ONLY	
Sampled by:	KMJ3
Barr Proj. Manager:	LMC
Barr DQ Manager:	JET
Lab Name:	Pace
Lab Location:	Green Bay, WI

Relinquished by:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	Ⓨ N	5/13/21	1340	[signature] / PACE	5/13/21	13:40
[signature]	Ⓨ N	5/14/21	1400			

Samples Shipped VIA: ☐ Ground Courier ☐ Air Carrier ☐ Sampler ☐ Other: ______

Air Bill Number:

Requested Due Date: ☒ Standard Turn Around Time ☐ Rush ______ (mm/dd/yyyy)

Lab WO: Temperature on Receipt (°C): 1.2 Custody Seal Intact? ☐ Y ☐ N ☒ None

Distribution - **White-Original:** Accompanies Shipment to Laboratory; **Yellow Copy:** Include in Field Documents; **Scan and email:** a copy to BarrDM@barr.com for tracking and filing procedures

Relinquished by: FedEx Ⓨ 5/15/21 1120 Received by: Anthony Windell 5/15/21 1120

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Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Barr Engineering Project # _____

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☒N/A

Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

	Glass								Plastic					Vials						Jars				General							
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																	3															2.5 / 5 / 10
002																	3															2.5 / 5 / 10
003																	3															2.5 / 5 / 10
004																	3															2.5 / 5 / 10
005																	3															2.5 / 5 / 10
006																	3															2.5 / 5 / 10
007																	3															2.5 / 5 / 10
008																	3															2.5 / 5 / 10
009																	3															2.5 / 5 / 10
010																	3															2.5 / 5 / 10
011																	3															2.5 / 5 / 10
012																	3															2.5 / 5 / 10
013																	3															2.5 / 5 / 10
014																	3															2.5 / 5 / 10
015																	3															2.5 / 5 / 10
016																	3															2.5 / 5 / 10
017																	3															2.5 / 5 / 10
018																	3															2.5 / 5 / 10
019																	3															2.5 / 5 / 10
020																	3															2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm) : ☐Yes ☒No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical ~~Services, LLC~~
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: Barr Engineer Project #: ____________

	Glass								Plastic					Vials						Jars				General									
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
021																	3																2.5 / 5 / 10
022																	3																2.5 / 5 / 10
023																	3																2.5 / 5 / 10
024																	3																2.5 / 5 / 10
025																	3																2.5 / 5 / 10
026																	3																2.5 / 5 / 10
027																	3																2.5 / 5 / 10
028																	3																2.5 / 5 / 10
029																	3																2.5 / 5 / 10
030																	3																2.5 / 5 / 10
031																2	~~3~~	5/11/21 SC															2.5 / 5 / 10
																																	2.5 / 5 / 10
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																																	2.5 / 5 / 10
																																	2.5 / 5 / 10
																				5/17/21													2.5 / 5 / 10

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40227076

40227076

Client Name: Barr Engineering

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 6779 8809 3734

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR-107 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3.5 /Corr: 3.5

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 5/15/21 /Initials: AJS
Labeled By Initials: SKW

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A		8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☐Yes ☒No ☐N/A 5/15/21 AJS	
-Pace IR Containers Used:	☒Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 032221-3CYR		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Internal Transfer Chain of Custody

4022 7026

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www.pacelabs.com

☑ Samples Pre-Logged into eCOC.

State Of Origin: WI
Cert. Needed: ☑ Yes ☐ No

Workorder: 10560268 Workorder Name: 49161528.00 200 205 2021 GMP Owner Received Date: 5/13/2021 Results Requested By: 5/27/2021

Report To	Subcontract To
Amanda Albrecht Pace Analytical Minnesota 1700 Elm Street Minneapolis, MN 55414 Phone (612)607-6382	Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: VG9H HCl						Requested Analysis: 8260 PVOC+Naphthalene (Pace-Green												LAB USE ONLY
1	MW-20A	PS	5/11/2021 11:00	10560268001	Water	3						X												
2	MW-20B	PS	5/11/2021 11:30	10560268002	Water	3						X												
3	MW-6	PS	5/11/2021 12:40	10560268003	Water	3						X												
4	MW-6B	PS	5/11/2021 12:50	10560268004	Water	3						X												
5	MW-2	PS	5/11/2021 14:03	10560268005	Water	3						X												
6	MW-19B	PS	5/11/2021 15:20	10560268006	Water	3						X												
7	MW-19A	PS	5/11/2021 15:25	10560268007	Water	3						X												
8	MW-24A	PS	5/11/2021 16:30	10560268008	Water	3						X												
9	MW-24B	PS	5/11/2021 16:52	10560268009	Water	3						X												
10	MW-12	PS	5/12/2021 08:30	10560268010	Water	3						X												
11	MW-25A	PS	5/12/2021 09:10	10560268011	Water	3						X												
12	MW-25B	PS	5/12/2021 09:40	10560268012	Water	3						X												
13	MW-26	PS	5/12/2021 10:18	10560268013	Water	3						X												
14	MW-21A	PS	5/12/2021 11:10	10560268014	Water	3						X												
15	MW-21B	PS	5/12/2021 11:45	10560268015	Water	3						X												
16	MW-10	PS	5/12/2021 12:35	10560268016	Water	3						X												
17	MW-22B	PS	5/12/2021 13:50	10560268017	Water	3						X												
18	MW-11	PS	5/12/2021 14:27	10560268018	Water	3						X												
19	MW-11B	PS	5/12/2021 15:00	10560268019	Water	3						X												

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: WI
Cert. Needed: ☐ Yes ☐ No

Workorder: 10560268 Workorder Name: 49161528.00 200 205 2021 GMP Owner Received Date: 5/13/2021 Results Requested By: 5/27/2021

Report To	Subcontract To
Amanda Albrecht Pace Analytical Minnesota 1700 Elm Street Minneapolis, MN 55414 Phone (612)607-6382	Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436

						Preserved Containers						Requested Analysis												
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	VG9H HCl						8260 PVOC+Naphthalene (Pace-Green												LAB USE ONLY
20	MW-1R	PS	5/12/2021 15:55	10560268020	Water	3						X												
21	MW-15	PS	5/12/2021 16:30	10560268021	Water	3						X												
22	MW-14	PS	5/12/2021 17:00	10560268022	Water	3						X												
23	MW-18	PS	5/13/2021 07:25	10560268023	Water	3						X												
24	MW-17	PS	5/13/2021 08:02	10560268024	Water	3						X												
25	MW-17B	PS	5/13/2021 08:20	10560268025	Water	3						X												
26	MW-5	PS	5/13/2021 09:10	10560268026	Water	3						X												
27	MW-5B	PS	5/13/2021 09:45	10560268027	Water	3						X												
28	Dup-1	PS	5/11/2021 00:00	10560268028	Water	3						X												
29	Dup-2	PS	5/12/2021 00:00	10560268029	Water	3						X												
30	Dup-3	PS	5/13/2021 00:00	10560268030	Water	3						X												
31	Trip Blank - 1	PS	5/11/2021 00:00	10560268031	Water	2						X												

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2	Fed Ex	5/15/21 1130	Susan K Mylea Pace	5/15/21 1150
3				

Comments

BTEX, MTBE, 124 and 135 trimethylbenzene and naphthalene

Cooler Temperature on Receipt ____ °C	Custody Seal Y or N	Received on Ice Y or N	Samples Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

May 28, 2021

Jim Taraldsen
Barr Engineering Company
325 S Lake Ave
Duluth, MN 55802

RE: Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560497

Dear Jim Taraldsen:

Enclosed are the analytical results for sample(s) received by the laboratory on May 14, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amanda J Albrecht

Amanda Albrecht
amanda.albrecht@pacelabs.com
(612)607-6382
Project Manager

Enclosures

cc: BarrDM@barr.com, Barr Engineering
Data Management, Barr Engineering
Accounts Payable, Barr Engineering

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560497

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560497

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10560497001	**MW-23B**	Water	05/14/21 08:05	05/14/21 08:35
10560497002	**Trip Blank - 2**	Water	05/14/21 00:00	05/14/21 08:35

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SAMPLE ANALYTE COUNT

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560497

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10560497001	**MW-23B**	EPA 8260	SMT	11	PASI-G
10560497002	**Trip Blank - 2**	EPA 8260	SMT	11	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560497

Sample: MW-23B **Lab ID: 10560497001** Collected: 05/14/21 08:05 Received: 05/14/21 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/20/21 00:57	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/20/21 00:57	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/20/21 00:57	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/20/21 00:57	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/20/21 00:57	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/20/21 00:57	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/20/21 00:57	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/20/21 00:57	1330-20-7	
Surrogates									
Toluene-d8 (S)	92	%	70-130		1		05/20/21 00:57	2037-26-5	
4-Bromofluorobenzene (S)	112	%	70-130		1		05/20/21 00:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		05/20/21 00:57	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560497

Sample: Trip Blank - 2 **Lab ID: 10560497002** Collected: 05/14/21 00:00 Received: 05/14/21 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/20/21 00:39	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/20/21 00:39	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/20/21 00:39	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/20/21 00:39	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/20/21 00:39	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/20/21 00:39	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/20/21 00:39	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/20/21 00:39	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		05/20/21 00:39	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		05/20/21 00:39	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		05/20/21 00:39	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560497

QC Batch: 385762
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 10560497001, 10560497002

METHOD BLANK: 2225833 Matrix: Water
Associated Lab Samples: 10560497001, 10560497002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<4.5	10.0	05/19/21 16:51	
1,3,5-Trimethylbenzene	ug/L	<3.6	10.0	05/19/21 16:51	
Benzene	ug/L	<3.0	10.0	05/19/21 16:51	
Ethylbenzene	ug/L	<3.3	10.0	05/19/21 16:51	
Methyl-tert-butyl ether	ug/L	<11.3	50.0	05/19/21 16:51	
Naphthalene	ug/L	<11.3	50.0	05/19/21 16:51	
Toluene	ug/L	<2.9	10.0	05/19/21 16:51	
Xylene (Total)	ug/L	<10.5	30.0	05/19/21 16:51	
1,2-Dichlorobenzene-d4 (S)	%	105	70-130	05/19/21 16:51	
4-Bromofluorobenzene (S)	%	100	70-130	05/19/21 16:51	
Toluene-d8 (S)	%	94	70-130	05/19/21 16:51	

LABORATORY CONTROL SAMPLE: 2225834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	54.2	108	70-132	
Ethylbenzene	ug/L	50	52.2	104	80-123	
Methyl-tert-butyl ether	ug/L	50	55.6	111	66-130	
Toluene	ug/L	50	51.3	103	80-121	
Xylene (Total)	ug/L	150	159	106	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2226042 2226043

Parameter	Units	40227004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	482	50	500	758	7060	554	1310	70-132	161	20	E,M1, R1
Ethylbenzene	ug/L	129	50	500	188	1760	117	327	80-123	161	20	M1,R1
Methyl-tert-butyl ether	ug/L	<1.1	50	500	56.0	540	112	108	66-130	162	20	R1
Toluene	ug/L	1450	50	500	2160	19800	1440	3660	80-121	161	20	E,M1, R1
Xylene (Total)	ug/L	584	150	1500	910	8760	218	545	70-130	162	20	ES, MS,RS
1,2-Dichlorobenzene-d4 (S)	%						101	102	70-130			
4-Bromofluorobenzene (S)	%						97	99	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560497

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2226042 2226043

Parameter	Units	40227004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%						100	99	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560497

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
ES	The reported result is estimated because one or more of the constituent results are qualified as such.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
R1	RPD value was outside control limits.
RS	The RPD value in one of the constituent analytes was outside the control limits.

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560497

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10560497001	**MW-23B**	EPA 8260	385762		
10560497002	**Trip Blank - 2**	EPA 8260	385762		

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Barr Engineering Co. Chain of Custody

Sample Origination State
☐ CO ☐ MI ☐ MN ☐ MO ☐ ND ☐ TX ☐ UT ☒ WI ☐ Other: _____

COC Number: № 589462
COC 1 of 1

REPORT TO	INVOICE TO
Company: Barr Engineering	Company: Barr
Address: 525 S. Lake Ave.	Address:
Address: Duluth, MN 55802	Address:
Name: Lynette Carney	Name:
email: lcarney@barr.com	email:
Copy to: BarrDM@barr.com	P.O. —
Project Name: 2021 GMP SPT	Barr Project No: 49161528.00 200 205

Matrix Code: GW = Groundwater; SW = Surface Water; WW = Waste Water; DW = Drinking Water; S = Soil/Solid; SD = Sediment; O = Other

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; I = Ascorbic Acid; J = Zn Acetate; K = Other

Location	Sample Depth Start	Sample Depth Stop	Sample Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD Y / N	Total Number Of Containers	Analysis Requested: Water: PVC + Naphthalene (8260)	Analysis Requested: Soil: % Solids	Preservative Code	Field Filtered Y/N
1. MW-23B	—	—		08/14/2021	0805	GW	N	3	X		00 032	001
2. Trip Blank-2	—	—		—	—	—	N	2	X		002 033	002
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												

5/15/21 AJ

5/17/21

BARR USE ONLY

Sampled by: KMTS
Barr Proj. Manager: LMC
Barr DQ Manager: JET
Lab Name: Green Bay, WI Pace
Lab Location:

Relinquished by: Kathleen Mast — On Ice? (Y) N — Date 5/14/21 — Time 0834
Received by: Leah Mashuda — Date 5/14/21 — Time 8:35

Relinquished by: — On Ice? (Y) N — Date 5/14/21 — Time 1400
Received by: — Date — Time

Samples Shipped VIA: ☐ Ground Courier ☐ Air Carrier ☐ Sampler ☐ Other: _____
Air Bill Number:

Lab WO: Temperature on Receipt (°C): 3.5 Custody Seal Intact? ☒ Y ☐ N ☐ None

Requested Due Date: ☒ Standard Turn Around Time ☐ Rush _____ (mm/dd/yyyy)

H:\RLG\STDFORMS\Chain of Custody Form 2015 RLG Rev. 01/30/2020

Distribution - White-Original: Accompanies Shipment to Laboratory; Yellow Copy: Include in Field Documents; Scan and email: a copy to BarrDM@barr.com for tracking and filing procedures

Relinquished by: Fedex — 5/15/21 1120 — Received by: Anthony Wendel — 5/15/21 1120

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Barr Engineering Project # _____

All containers needing preservation have been checked and noted below: □Yes □No ☑N/A

Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

	Glass								Plastic					Vials						Jars				General							
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																	JW															2.5 / 5 / 10
002																	JW															2.5 / 5 / 10
003																																2.5 / 5 / 10
004																																2.5 / 5 / 10
005																																2.5 / 5 / 10
006																																2.5 / 5 / 10
007																																2.5 / 5 / 10
008																																2.5 / 5 / 10
009																																2.5 / 5 / 10
010																																2.5 / 5 / 10
011																																2.5 / 5 / 10
012																																2.5 / 5 / 10
013																																2.5 / 5 / 10
014																																2.5 / 5 / 10
015																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																																2.5 / 5 / 10
018																																2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

Exceptions to preservation check: (VOA) Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm) : □Yes (☑No) □N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40227075

40227075

Client Name: Barr Engineering

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 6779 8809 3734

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR-107 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3.5 /Corr: 3.5

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 5/15/21 /Initials: AS
Labeled By Initials: SFW

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A		8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☐Yes ☒No ☐N/A 5/15/21 AS	
-Pace IR Containers Used:	☒Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☒Yes ☐No ☐N/A	12.
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 032221-3CYR		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Page 3 of 3

Internal Transfer Chain of Custody

4022 7025

Pace Analytical® www.pacelabs.com

☑ Samples Pre-Logged into eCOC.

State Of Origin: WI

Cert. Needed: ☑ Yes ☐ No

Workorder: 10560497 Workorder Name: 49161528.00 200 205 2021 GMP Owner Received Date: 5/14/2021 Results Requested By: 5/28/2021

Report To	Subcontract To
Amanda Albrecht Pace Analytical Minnesota 1700 Elm Street Minneapolis, MN 55414 Phone (612)607-6382	Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: VG9H HCl						Requested Analysis: 8260 PVOC+Naphthalene (Pace-Green												LAB USE ONLY
1	MW-23B	PS	5/14/2021 08:05	10560497001	Water	3						X												001
2	Trip Blank - 2	PS	5/14/2021 00:00	10560497002	Water	2						X												002
3																								
4																								
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2	Fed Ex	5/15/21 1120	[signature] Pace	5/15/21 1120
3				

Comments

BTEX, MTBE, 124 and 135 trimethylbenzene and naphthalene

Cooler Temperature on Receipt ____ °C | **Custody Seal Y or N** | **Received on Ice Y or N** | **Samples Intact Y or N**

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Appendix B

Well Photos

Superior Terminal Well Photos Spring - 2021

MW-1R

MW-2

MW-5 & MW-5B

Superior Terminal Well Photos Spring - 2021

MW-6 & MW-6B

MW-10

MW-11 & MW-11B

Superior Terminal Well Photos Spring - 2021

MW-12

MW-14

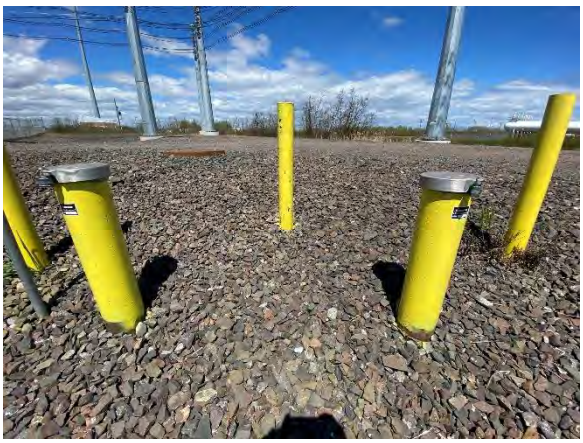
MW-15

Superior Terminal Well Photos Spring - 2021

MW-17 & MW-17B

MW-18

MW-19A & MW-19B



Superior Terminal Well Photos Spring - 2021

MW-20A & MW-20B

MW-21A & MW-21B

MW-22B

Superior Terminal Well Photos Spring - 2021

MW-23B

MW-24A & MW-24B

MW-25A & 25B

Superior Terminal Well Photos Spring - 2021

MW-26

Appendix C

Field Notes

BARR

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-18
Location: Superior Terminal, Superior, WI	**Date:** 5/12/2021
Project #: 49161528.00	**Sample Time:** 1555

GENERAL DATA		STABILIZATION TEST						
Enbridge lock:	yes	Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNU
Casing diameter *(in.)*:	2"							
Total well depth *(ft.)*:*	17.55	1537	5.4	0.697	7.10	83.7	1.97	141.70
Static water level *(ft.)*:*	5.75							
Water depth *(ft.)*:*	11.80							
Well volume *(gal.)*:	1.92							
Purge method:	bail							
Sample method:	bail							
Start time *(hh:mm:ss)*:	1544	Odor: none						
Stop time *(hh:mm:ss)*:	1553	Purge Appearance: clear, colorless						
Duration *(hh:mm:ss)*:	9 min	Sample Appearance: "						
Rate, gpm:	0.67	Comments: Water level measured on 5/12.						
Volume, purged: *(note units)*	6 gal							
Duplicate collected?	no							
Sample collection by:	KMJ3	CO2-		Mn2-		Fe(T)-		Fe2-

Others present: none Well Condition: good

MW: groundwater monitoring well (circled) WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-2
Location: Superior Terminal, Superior, WI	**Date:** 5/11/2021
Project #: 49161528.00	**Sample Time:** 14:03

GENERAL DATA	
Enbridge lock:	Yes
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	28.20
Static water level *(ft.)*:*	4.11
Water depth *(ft.)*:*	24.09
Well volume *(gal)*:	3.9
Purge method:	bail-dry
Sample method:	bail
Start time *(hh:mm:ss)*:	1:41
Stop time *(hh:mm:ss)*:	2:00
Duration *(hh:mm:ss)*:	19 minutes
Rate, gpm:	~ 0.63
Volume, purged: *(note units)*	12
Duplicate collected?	NO
Sample collection by:	KMJ3 / KLS3

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNH
13:39	7.2	1.051	7.37	68.7	2.21	19.40

Odor: none

Purge Appearance: Clear to slight, turbid, Light brown/pink

Sample Appearance: Light brown/pink

Comments: water level measured on 5/10.

CO2- Mn2- Fe(T)- Fe2-

Others present: none

Well Condition: good, rusty LOCK - replace

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-5
Location: Superior Terminal, Superior, WI	**Date:** 5/13/21
Project #: 49161528.00	**Sample Time:** 0910

GENERAL DATA	
Enbridge lock:	Yes
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	27.03
Static water level *(ft.)*:*	3.41
Water depth *(ft.)*:*	23.62
Well volume *(gal.)*:	3.85
Purge method:	bail - dry
Sample method:	bail
Start time *(hh:mm:ss)*:	0849
Stop time *(hh:mm:ss)*:	0908
Duration *(hh:mm:ss)*:	19 min
Rate, gpm:	0.6
Volume, purged: *(note units)*	11 gal
Duplicate collected?	no
Sample collection by: KMJ3	

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNU
0839	7.0	0.774	7.33	75.2	2.24	8.67

Odor: none

Purge Appearance: clear to light brown/pink

Sample Appearance: light brown/pink

Comments: water level measured on 5/10.

CO2- Mn2- Fe(T)- Fe2-

Others present: none

Well Condition: good

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-5B
Location: Superior Terminal, Superior, WI	**Date:** 5/13/21
Project #: 49161528.00	**Sample Time:** 0945

GENERAL DATA	
Enbridge lock:	yes
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	57.91
Static water level *(ft.)*:*	7.10
Water depth *(ft.)*:*	50.81
Well volume *(gal.)*:	8.28
Purge method:	bail ~~1.25~~ KMJ
Sample method:	bail
Start time *(hh:mm:ss)*:	0913
Stop time *(hh:mm:ss)*:	0941
Duration *(hh:mm:ss)*:	28 mn
Rate, gpm:	0.5
Volume, purged: *(note units)*	13 gal
Duplicate collected?	no
Sample collection by: KMJ3	

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNM
0844	6.8	0.417	7.59	79.8	3.73	4.73

Odor: none

Purge Appearance: clear, colorless

Sample Appearance:

Comments: Water level measured on 5/10.

CO2- Mn2- Fe(T)- Fe2-

Others present: none

Well Condition: good - lock on but rusty

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-6
Location: Superior Terminal, Superior, WI	**Date:** 5/14/2021
Project #: 49161528.00	**Sample Time:** 1240

GENERAL DATA	
Enbridge lock:	YES
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	26.70
Static water level *(ft.)*:*	9.82
Water depth *(ft.)*:*	16.88
Well volume *(gal.)*:	2.8
Purge method:	bail
Sample method:	bail
Start time *(hh:mm:ss)*:	1219
Stop time *(hh:mm:ss)*:	1238
Duration *(hh:mm:ss)*:	19 min
Rate, gpm:	0.53
Volume, purged: *(note units)*	10 gal
Duplicate collected?	NO
Sample collection by:	KMJ3 KLS3

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FAN
1211	8.5	1.059	7.24	125.2	5.82	114.66

Odor: none

Purge Appearance: clear to slightly turbid, brown/pink

Sample Appearance: brown/pink

Comments: Water level measured on 5/10. ~~MW75~~ well purged on 5/14/21

CO2- Mn2- Fe(T)- Fe2-

Others present: none

Well Condition: good

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** mw-6B
Location: Superior Terminal, Superior, WI	**Date:** 5/11/2021
Project #: 49161528.00	**Sample Time:** 1250

GENERAL DATA	
Enbridge lock:	yes
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	58.28
Static water level *(ft.)*:*	10.06
Water depth *(ft.)*:*	48.22
Well volume *(gal.)*:	7.9
Purge method:	bail - dry
Sample method:	bail
Start time *(hh:mm:ss)*:	12:04
Stop time *(hh:mm:ss)*:	1245
Duration *(hh:mm:ss)*:	41 min
Rate, gpm:	0.26
Volume, purged: *(note units)*	10.5 gal
Duplicate collected?	no
Sample collection by:	KMJ3 / KLS3

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNU
12:00	8.3	0.516	7.45	84.1	3.73	87.44

Odor: none

Purge Appearance: clear to turbid, brown/pink

Sample Appearance: turbid, brown / pink

Comments: Water level measured on 5/10.
Concrete collar around well removed on 5/11.
Well painted on 5/14/21.

CO2- Mn2- Fe(T)- Fe2-

Others present: none

Well Condition: good

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-10
Location: Superior Terminal, Superior, WI	**Date:** 05/12/2021
Project #: 49161528.00	**Sample Time:** 1235

GENERAL DATA	
Enbridge lock:	Yes
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	30.45
Static water level *(ft.)*:*	6.34
Water depth *(ft.)*:*	24.11
Well volume *(gal.)*:	3.9
Purge method:	bail
Sample method:	bail
Start time *(hh:mm:ss)*:	1212
Stop time *(hh:mm:ss)*:	1231
Duration *(hh:mm:ss)*:	19 min
Rate, gpm:	0.71
Volume, purged: *(note units)*	13.5
Duplicate collected?	Yes-Dup-2
Sample collection by: KMJ3	
Others present: None	

STABILIZATION TEST						
Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNU
1205	7.9	1.411	6.65	-42.5	0.51	12.75

Odor: none

Purge Appearance: clear to light orange/Brown

Sample Appearance: light brown

Comments: Water level measured on 5/10.

CO2- Mn2- Fe(T)- Fe2-

Well Condition: good

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 6 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-11
Location: Superior Terminal, Superior, WI	**Date:** 5/12/21
Project #: 49161528.00	**Sample Time:** 1427

GENERAL DATA	
Enbridge lock:	yes
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	18.19
Static water level *(ft.)*:*	8.56
Water depth *(ft.)*:*	9.63
Well volume *(gal.)*:	1.57
Purge method:	bail - dry
Sample method:	bail
Start time *(hh:mm:ss)*:	1418
Stop time *(hh:mm:ss)*:	1425
Duration *(hh:mm:ss)*:	7 min
Rate, gpm:	0.57
Volume, purged: *(note units)*	4 gal
Duplicate collected?	no
Sample collection by: KMJ3	

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance
1407	6.7	1,273	6.37	-89.9	0.81	13.20 FNU

Odor: none

Purge Appearance: clear, colorless

Sample Appearance: N

Comments: Water level measured on 5/12.

CO2- Mn2- Fe(T)- Fe2-

Others present: none

Well Condition: good

(MW): groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-11B
Location: Superior Terminal, Superior, WI	**Date:** 5/12/21
Project #: 49161528.00	**Sample Time:** 1500

GENERAL DATA	
Enbridge lock:	Yes
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	57.52
Static water level *(ft.)*:*	23.56
Water depth *(ft.)*:*	33.96
Well volume *(gal.)*:	5.5
Purge method:	bail - dry
Sample method:	bail
Start time *(hh:mm:ss)*:	1431
Stop time *(hh:mm:ss)*:	1457
Duration *(hh:mm:ss)*:	26 min
Rate, gpm:	0.31
Volume, purged: *(note units)*	8 gal
Duplicate collected?	no
Sample collection by:	KMJ3
Others present:	none

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNU
1412	7.4	0.727	7.65	-47.4	2.44	40.21

Odor: none

Purge Appearance: clear, colorless

Sample Appearance: cl

Comments: Water level measured on 5/10.

CO2- Mn2- Fe(T)- Fe2-

Well Condition: good

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-12
Location: Superior Terminal, Superior, WI	**Date:** 5/12/2021
Project #: 49161528.00	**Sample Time:** 0830

GENERAL DATA	
Enbridge lock:	Ycs
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	21.05
Static water level *(ft.)*:*	4.52
Water depth *(ft.)*:*	16.53
Well volume *(gal.)*:	2.7
Purge method:	bail - dry
Sample method:	bail
Start time *(hh:mm:ss)*:	0821
Stop time *(hh:mm:ss)*:	0828
Duration *(hh:mm:ss)*:	7
Rate, gpm:	0.64
Volume, purged: *(note units)*	4.5 gal
Duplicate collected?	no
Sample collection by:	KMJ3

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance
NOT measured						→

Odor: none

Purge Appearance: clear, colorless

Sample Appearance: clear, colorless

Comments: water level measured on 5/10. Could not get YSI probe down well more - slight bend in riser possibly at 3.1 feet.

CO2- Mn2- Fe(T)- Fe2-

Others present: none

Well Condition: good

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-14
Location: Superior Terminal, Superior, WI	**Date:** 5/12/21
Project #: 49161528.00	**Sample Time:** 1700

GENERAL DATA		STABILIZATION TEST						
Enbridge lock:	Unknown lock NO - Barr lock put on	Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNM
Casing diameter *(in.)*:	2"							
Total well depth *(ft.)*:*	18.35	1643	6.1	0.673	7.23	126.5	7.27	7.23
Static water level *(ft.)*:*	5.06							
Water depth *(ft.)*:*	13.29							
Well volume *(gal.)*:	2.17							
Purge method:	bail - dry							
Sample method:	bail							
Start time *(hh:mm:ss)*:	1648	Odor: none						
Stop time *(hh:mm:ss)*:	1657	Purge Appearance: clear to slightly turbid						
Duration *(hh:mm:ss)*:	9 min	Sample Appearance: light brown / pink						
Rate, gpm:	0.78	Comments: water level measured on 5/10. unknown lock on well, cut lock, bailer in well removed. Placed Barr lock on well. well painted on 5/14/21.						
Volume, purged: *(note units)*	7 gal							
Duplicate collected?	no							
Sample collection by: KMJ3		CO2-	Mn2-	Fe(T)-	Fe2-			
Others present: none		Well Condition: good						

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-15
Location: Superior Terminal, Superior, WI	**Date:** 5/12/21
Project #: 49161528.00	**Sample Time:** 1630

GENERAL DATA	
Enbridge lock:	NO - unknown lock Put on Barr lock
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	17.31
Static water level *(ft.)*:*	3.98
Water depth *(ft.)*:*	13.33
Well volume *(gal.)*:	2.17
Purge method:	bail - dry
Sample method:	bail
Start time *(hh:mm:ss)*:	1618
Stop time *(hh:mm:ss)*:	1627
Duration *(hh:mm:ss)*:	9 min
Rate, gpm:	.67
Volume, purged: *(note units)*	6 gal
Duplicate collected?	no
Sample collection by: KMJ3	

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNU
1619	6.1	0.618	7.33	-32.8	6.12	0.20

Odor: none

Purge Appearance: clear, colorless to slightly turbid

Sample Appearance: light brown

Comments: water level measured on 5/10.
unknown lock on well, cut lock, bailer in well - removed.
placed Barr lock on well.
well painted on 5/14/21.

CO2- Mn2- Fe(T)- Fe2-

Others present: none

Well Condition: good

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** ~~MW-17~~ KMJ3 MW-17
Location: Superior Terminal, Superior, WI	**Date:** 5/13/21
Project #: 49161528.00	**Sample Time:** 0802

GENERAL DATA	
Enbridge lock:	yes
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	17.48
Static water level *(ft.)*:*	4.81
Water depth *(ft.)*:*	12.67
Well volume *(gal.)*:	2.07
Purge method:	bail - dry
Sample method:	bail
Start time *(hh:mm:ss)*:	0750
Stop time *(hh:mm:ss)*:	0759
Duration *(hh:mm:ss)*:	9 min
Rate, gpm:	0.5
Volume, purged: *(note units)*	4.5 gal
Duplicate collected?	no
Sample collection by: KMJ3	

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNV
0739	5.8	0.825	7.59	72.9	5.77	10.01

Odor: none

Purge Appearance: clear, colorless

Sample Appearance: "

Comments: Water level measured on 5/10.

CO2- Mn2- Fe(T)- Fe2-

Others present: none

Well Condition: good, tube getting rusty

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-17B
Location: Superior Terminal, Superior, WI	**Date:** 5/13/21
Project #: 49161528.00	**Sample Time:** 0820

GENERAL DATA	
Enbridge lock:	yes
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	44.95
Static water level *(ft.)*:*	18.42
Water depth *(ft.)*:*	26.53
Well volume *(gal.)*:	4.32
Purge method:	bail-dry
Sample method:	bail
Start time *(hh:mm:ss)*:	0806
Stop time *(hh:mm:ss)*:	0818
Duration *(hh:mm:ss)*:	12 min
Rate, gpm:	0.42
Volume, purged: *(note units)*	5 gal
Duplicate collected?	no
Sample collection by: KMJ3	

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNU
0744	7.3	0.355	7.59	85.4	3.69	10.21

Odor: none

Purge Appearance: ~~good~~ clear colorless

Sample Appearance: ~~good~~ " "

Comments: water level measured on 5/10.

CO2- Mn2- Fe(T)- Fe2-

Others present: mine

Well Condition: good, locks getting rusty

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

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Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client:	Enbridge	**Monitoring Point:**	MW-18
Location:	Superior Terminal, Superior, WI	**Date:**	5/13/21
Project #:	49161528.00	**Sample Time:**	0725

GENERAL DATA		**STABILIZATION TEST**						
Enbridge lock:	yes	Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNU
Casing diameter *(in.)*:	2"							
Total well depth *(ft.)*:*	17.25	0712	6.4	0.752	7.48	-39.1	6.58	34.98
Static water level *(ft.)*:*	6.12							
Water depth *(ft.)*:*	11.13							
Well volume *(gal.)*:	1.8							
Purge method:	bail - dry							
Sample method:	bail							
Start time *(hh:mm:ss)*:	0715	Odor: none						
Stop time *(hh:mm:ss)*:	0723	Purge Appearance: clear, colorless						
Duration *(hh:mm:ss)*:	8 min	Sample Appearance: "						
Rate, gpm:	0.56	Comments: water level measured on 5/10.						
Volume, purged: *(note units)*	4.5 gal							
Duplicate collected?	yes - Dup-3							
Sample collection by:	KMJ3	CO2-	Mn2-	Fe(T)-	Fe2-			

Others present: none

Well Condition: good, lock is starting to get rusty - don't need to replace yet

(MW circled) MW: groundwater monitoring well | WS: water supply well | SW: surface water | SE: sediment | other:

PVOC+ naphthalene- 6 | semi-volatile- | general- | nutrient- | cyanide- | DRO- | Sulfide-

oil,grease- | bacteria- | total metal- | filtered metal- | methane- | filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-19A
Location: Superior Terminal, Superior, WI	**Date:** 5/11/2021
Project #: 49161528.00	**Sample Time:** 1525

GENERAL DATA	
Enbridge lock:	YES
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	24.17
Static water level *(ft.)*:*	3.26
Water depth *(ft.)*:*	20.91
Well volume *(gal.)*:	3.4
Purge method:	bail - dry
Sample method:	bail
Start time *(hh:mm:ss)*:	1500
Stop time *(hh:mm:ss)*:	1520
Duration *(hh:mm:ss)*:	20 min
Rate, gpm:	0.45
Volume, purged: *(note units)*	9 gal
Duplicate collected?	YES - Dup-1
Sample collection by: KMJ3	

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance
						FNH
1448	7.8	0.522	7.52	126.4	0.42	29.7

Odor: none

Purge Appearance: Clear, colorless

Sample Appearance: "

Comments: water level measured on 5/14/21.

CO2- Mn2- Fe(T)- Fe2-

Others present: KLS3

Well Condition: good

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 6 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-19B
Location: Superior Terminal, Superior, WI	**Date:** 5/11/2021
Project #: 49161528.00	**Sample Time:** 1520

GENERAL DATA	
Enbridge lock:	yes
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	59.95
Static water level *(ft.)*:*	8.50
Water depth *(ft.)*:*	51.45
Well volume *(gal.)*:	8.38
Purge method:	bail - dry
Sample method:	bail
Start time *(hh:mm:ss)*:	1444
Stop time *(hh:mm:ss)*:	1516
Duration *(hh:mm:ss)*:	32 min
Rate, gpm:	0.41
Volume, purged: *(note units)*	13 gal
Duplicate collected?	no
Sample collection by: KMJ3	

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance
1440	7.4	0.176	7.52	106.4	2.00	4.17

Odor: none

Purge Appearance: clear, colorless

Sample Appearance: "

Comments: water level measured on 5/10.

CO2- Mn2- Fe(T)- Fe2-

Others present: KLS3

Well Condition: good

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-20A
Location: Superior Terminal, Superior, WI	**Date:** 5/11/2021
Project #: 49161528.00	**Sample Time:** 11:00

GENERAL DATA	
Enbridge lock:	yes
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	24.20
Static water level *(ft.)*:*	4.88
Water depth *(ft.)*:*	~~KMJ3 24.20~~ 19.32
Well volume *(gal.)*:	3.15
Purge method:	bail/dry
Sample method:	bail
Start time *(hh:mm:ss)*:	1030
Stop time *(hh:mm:ss)*:	1057
Duration *(hh.mm:ss)*:	27 min
Rate, gpm:	0.37
Volume, purged: *(note units)*	10 gal
Duplicate collected?	no
Sample collection by: KMJ3 / KLS3	

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance
						FNM
1017	7.1	0.997	7.22	205.6	2.61	47.36

Odor: none

Purge Appearance: Slightly turbid Light Brown/Pink

Sample Appearance: light brown/pink

Comments: Water level measured on 5/10.
well painted on 5/14/21.

CO2- Mn2- Fe(T)- Fe2-

Others present: none

Well Condition: good

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene-8 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-20B
Location: Superior Terminal, Superior, WI	**Date:** 5/11/2021
Project #: 49161528.00	**Sample Time:** 11:30

GENERAL DATA	
Enbridge lock:	yes
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	60.19
Static water level *(ft.)*:*	17.86
Water depth *(ft.)*:*	42.33
Well volume *(gal.)*:	6.9
Purge method:	bail-dry
Sample method:	bail
Start time *(hh:mm:ss)*:	1047
Stop time *(hh:mm:ss)*:	11:28
Duration *(hh:mm:ss)*:	41 min
Rate, gpm:	0.24
Volume, purged: *(note units)*	10 gal
Duplicate collected?	no
Sample collection by:	KMJ3 KLS3

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance
						FWM
10:24	7.1	0.322	7.51	176.0	2.41	13.08

Odor: none

Purge Appearance: clear, colorless

Sample Appearance: clear, colorless

Comments: water level measured on 5/10. Well pumped on 5/11/21

CO2- Mn2- Fe(T)- Fe2-

Others present: Well Condition: good

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-21A
Location: Superior Terminal, Superior, WI	**Date:** 5/12/2021
Project #: 49161528.00	**Sample Time:** 1110

GENERAL DATA	
Enbridge lock:	Y05
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	24.55
Static water level *(ft.)*:*	4.31
Water depth *(ft.)*:*	20.24
Well volume *(gal.)*:	3.3
Purge method:	bail - dry
Sample method:	bail
Start time *(hh:mm:ss)*:	1055
Stop time *(hh:mm:ss)*:	1108
Duration *(hh:mm:ss)*:	13 min
Rate, gpm:	0.65
Volume, purged: *(note units)*	8.5 gal
Duplicate collected?	no
Sample collection by: KMJ3	

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNH
1042	7.1	1,034	7.26	78.0	5.84	4.30

Odor: none

Purge Appearance: clear, colorless

Sample Appearance: clear, colorless

Comments: Water level measured on 5/10.

CO2- Mn2- Fe(T)- Fe2-

Others present: none

Well Condition: good

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-21B
Location: Superior Terminal, Superior, WI	**Date:** 5/12/2024
Project #: 49161528.00	**Sample Time:** 1145

GENERAL DATA	
Enbridge lock:	Yes
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	60.63
Static water level *(ft.)*:*	18.57
Water depth *(ft.)*:*	42.11
Well volume *(gal.)*:	6.9
Purge method:	bail - dry
Sample method:	bail
Start time *(hh:mm:ss)*:	1120
Stop time *(hh:mm:ss)*:	1142
Duration *(hh:mm:ss)*:	22 min
Rate, gpm:	0.34
Volume, purged: *(note units)*	7.5 gal
Duplicate collected?	NO
Sample collection by: KMJ3	

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNU
1048	6.9	0.424	7.49	74.3	2.26	56.30

Odor: none

Purge Appearance: clear, colorless

Sample Appearance: "

Comments: Water level measured on 5/10.

CO2- Mn2- Fe(T)- Fe2-

Others present: none

Well Condition: Good

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-22B
Location: Superior Terminal, Superior, WI	**Date:** 5/12/2021
Project #: 49161528.00	**Sample Time:** 1350

GENERAL DATA		STABILIZATION TEST						
Enbridge lock:	425	Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNV
Casing diameter *(in.)*:	2"							
Total well depth *(ft.)*:*	57.75	1254	7.5	0.575	7.35	-87.8	0.20	160.20
Static water level *(ft.)*:*	19.36							
Water depth *(ft.)*:*	38.39							
Well volume *(gal.)*:	6.26							
Purge method:	bail							
Sample method:	bail							
Start time *(hh:mm:ss)*:	1323	Odor: none						
Stop time *(hh:mm:ss)*:	1347	Purge Appearance: clear to turbid, red/brown						
Duration *(hh:mm:ss)*:	24 min	Sample Appearance: red, brown						
Rate, gpm:	0.4	Comments: Water level received on 5/10. Closed to contractor trailer & spill containment & Drained 5 Gallon Cans.						
Volume, purged: *(note units)*	9.5 gal							
Duplicate collected?	no							
Sample collection by: KMJ3		CO2-	Mn2-	Fe(T)-	Fe2-			
Others present: none		Well Condition: good - murky look.						

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-23B
Location: Superior Terminal, Superior, WI	**Date:** 5/19/21
Project #: 49161528.00	**Sample Time:** 0805

GENERAL DATA	
Enbridge lock:	yes
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	57.30
Static water level *(ft.)*:*	5.62
Water depth *(ft.)*:*	51.68
Well volume *(gal.)*:	8.42
Purge method:	bail - dry
Sample method:	bail
Start time *(hh:mm:ss)*:	0738
Stop time *(hh:mm:ss)*:	0802
Duration *(hh:mm:ss)*:	24 min
Rate, gpm:	0.52
Volume, purged: *(note units)*	12.5 gal
Duplicate collected?	no
Sample collection by: KMJ3	

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNU
0733	7.1	0.533	7.62	45.9	2.30	8.70

Odor: none

Purge Appearance: clear, colorless

Sample Appearance: CT

Comments: water level measured on 5/10.

CO2- Mn2- Fe(T)- Fe2-

Others present: none

Well Condition: good - with lock had hyper-replace

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-24A
Location: Superior Terminal, Superior, WI	**Date:** 5/11/21
Project #: 49161528.00	**Sample Time:** 1630

GENERAL DATA		STABILIZATION TEST						
Enbridge lock:	465	Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNV
Casing diameter *(in.)*:	2"							
Total well depth *(ft.)*:*	19.03	1609	6.2	0.589	7.20	114.9	2.20	18.81
Static water level *(ft.)*:*	4.72							
Water depth *(ft.)*:*	14.31							
Well volume *(gal.)*:	2.3							
Purge method:	bail - dry							
Sample method:	bail							
Start time *(hh:mm:ss)*:	1615	Odor: none						
Stop time *(hh:mm:ss)*:	1626	Purge Appearance: clear to turbid						
Duration *(hh:mm:ss)*:	11 min	Sample Appearance: light brown / pink						
Rate, gpm:	0.55	Comments: well water level measured on 5/10. well riser heaved, making it impossible to close well pw - top cover with J-plug on. Cut 0.18' off riser on 5/11/2021 - able to close cover now.						
Volume, purged: *(note units)*	6 gal							
Duplicate collected?	no							
Sample collection by: KMJ3		CO2- Mn2- Fe(T)- Fe2-						

Others present: none	Well Condition: good / replace lock - rusty

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-24B
Location: Superior Terminal, Superior, WI	**Date:** 5/11/2021
Project #: 49161528.00	**Sample Time:** 1652

GENERAL DATA	
Enbridge lock:	Yes
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	49.38
Static water level *(ft.)*:*	8.84
Water depth *(ft.)*:*	40.54
Well volume *(gal.)*:	6.6
Purge method:	bail-dry
Sample method:	bail
Start time *(hh:mm:ss)*:	1633
Stop time *(hh:mm:ss)*:	1649
Duration *(hh:mm:ss)*:	16 min
Rate, gpm:	0.5
Volume, purged: *(note units)*	8 gal
Duplicate collected?	no
Sample collection by: KMJ3	

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNU
1559	7.6	0.509	7.32	55.0	2.51	51.92

Odor: none

Purge Appearance: clear to slightly turbid

Sample Appearance: light brown

Comments: Water level measured on 5/10.

CO2- Mn2- Fe(T)- Fe2-

Others present: none

Well Condition: good, rusty lock - replace

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-25A
Location: Superior Terminal, Superior, WI	**Date:** 5/12/2021
Project #: 49161528.00	**Sample Time:** 0910

GENERAL DATA	
Enbridge lock:	yes
Casing diameter *(in.)*:	2"
Total well depth *(ft.)*:*	19.26
Static water level *(ft.)*:*	3.98
Water depth *(ft.)*:*	15.28
Well volume *(gal.)*:	2.5
Purge method:	bail - 2x
Sample method:	bail
Start time *(hh:mm:ss)*:	0900
Stop time *(hh:mm:ss)*:	0908
Duration *(hh:mm:ss)*:	8 min
Rate, gpm:	0.5
Volume, purged: *(note units)*	4 gal
Duplicate collected?	no
Sample collection by:	KMJ3

STABILIZATION TEST

Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNU
0849	6.6	0.613	7.19	83.1	0.33	7.42

Odor: none

Purge Appearance: slightly turbid to very turbid, brown/red

Sample Appearance: red/brown

Comments: Water level measured on 5/10.
Well painted on 5/14/21.

CO2- Mn2- Fe(T)- Fe2-

Others present: none

Well Condition: good

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-25B
Location: Superior Terminal, Superior, WI	**Date:** 5/12/2021
Project #: 49161528.00	**Sample Time:** 0940

GENERAL DATA		STABILIZATION TEST						
Enbridge lock:	Yes	Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FNR
Casing diameter *(in.)*:	2"							
Total well depth *(ft.)*:*	50.45	0854	7.1	0.252	7.75	22.1	1.03	27.66
Static water level *(ft.)*:*	9.29							
Water depth *(ft.)*:*	41.16							
Well volume *(gal.)*:	6.7							
Purge method:	bail - dry							
Sample method:	bail							
Start time *(hh:mm:ss)*:	0915	Odor: none						
Stop time *(hh:mm:ss)*:	0935	Purge Appearance: brown/pink turbid to very turbid						
Duration *(hh:mm:ss)*:	20 min	Sample Appearance: brown/pink						
Rate, gpm:	0.43	Comments: Water level measured on 5/10. Well purged on 5/19/21.						
Volume, purged: *(note units)*	8.5 gal							
Duplicate collected?	no							
Sample collection by:	KMJ3	CO2-	Mn2-	Fe(T)-	Fe2-			
Others present:	none	Well Condition:	Good					

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC + naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Barr Engineering Company
Well Sampling/Stabilization Data Sheet

Client: Enbridge	**Monitoring Point:** MW-26
Location: Superior Terminal, Superior, WI	**Date:** 5/12/2021
Project #: 49161528.00	**Sample Time:** 1018

GENERAL DATA		STABILIZATION TEST						
Enbridge lock:	Yes	Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance FAIR
Casing diameter *(in.)*:	2"							
Total well depth *(ft.)*:*	18.92	0958	6.7	0.649	7.10	61.2	4.03	25.01
Static water level *(ft.)*:*	8.78							
Water depth *(ft.)*:*	~~8.78~~ KMJ 10.14							
Well volume *(gal.)*:	1.7							
Purge method:	bail - dry							
Sample method:	bail							
Start time *(hh:mm:ss)*:	1004	Odor: none						
Stop time *(hh:mm:ss)*:	1014	Purge Appearance: clear, colorless						
Duration *(hh:mm:ss)*:	10 min	Sample Appearance: "						
Rate, gpm:	0.55	Comments: Water level measured on 5/10.						
Volume, purged: *(note units)*	5.5 gal							
Duplicate collected?	no							
Sample collection by: KMJ		CO2- Mn2- Fe(T)- Fe2-						

Others present: none

Well Condition: good

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

PVOC+ naphthalene- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

Appendix D

Private Well Memo

resourceful. naturally.
engineering and environmental consultants

BARR

July 19, 2021

Mr. Nick Larabel
Environmental Advisor
Enbridge Energy
455 Leggitt Road
Marshall, MI 49068

Sent Via Email

Re: Potable Well Sampling Results – Superior Terminal
2021 Groundwater Monitoring Program

Dear Mr. Larabel:

On May 13, 2021, Barr Engineering Co (Barr) collected water quality samples from the three private wells located at the Enbridge Superior Terminal. Water samples from private wells PW-1 and PW-2 were collected from spigots closest but prior to each pressure tank. The water sample from private well PW-3 was collected from an outside spigot. Figure 1 depicts the locations of the potable wells at the terminal. Prior to sample collection, stagnant water was purged from each well by allowing the spigot to run for approximately 20 minutes. This allowed the well pump to cycle on and helped ensure the sample was representative of the aquifer. Water samples from each well were collected into laboratory-supplied containers and submitted to Pace Analytical Laboratory of Minneapolis, Minnesota for chemical analyses of benzene, toluene, ethylbenzene, total xylenes (BTEX), iron, chloride, pH, nitrate, and total and fecal coliform (as E. coli). The results are summarized on Table 1 and copy of the analytical laboratory report is in Attachment A.

Private well PW-2 had a detection of total coliform equal to the reporting limit of 1.0 mpn/100/ml from the May 13 sampling event. The well was resampled by Barr for total and fecal coliform (as E. coli) on June 9, 2021. Prior to sample collection the well was purged for approximately 20 minutes and the sample was collected from the spigot closest to the pressure tank (same location as the previous sample). Analytical results from the June 9 sampling event confirmed the total coliform detection with a result of 3.0 mpn/100/ml. The resample results are summarized on Table 1 and copy of the analytical laboratory report is included in Attachment A. The well was also inspected and a gap between the well casing and well cover was identified. Photo documentation of this is in Attachment B.

No BTEX compounds were detected in these wells and although the iron and pH detections are above established criteria, these detections along with the chloride and nitrate appear to represent natural groundwater conditions. With the exception of the total coliform detection, these results are similar to what has been previously been detected in these wells since monitoring began in 2017.

If you have any questions or require additional information, please contact me at (218) 529-7133 or Lynette Carney at (218) 529-7141.

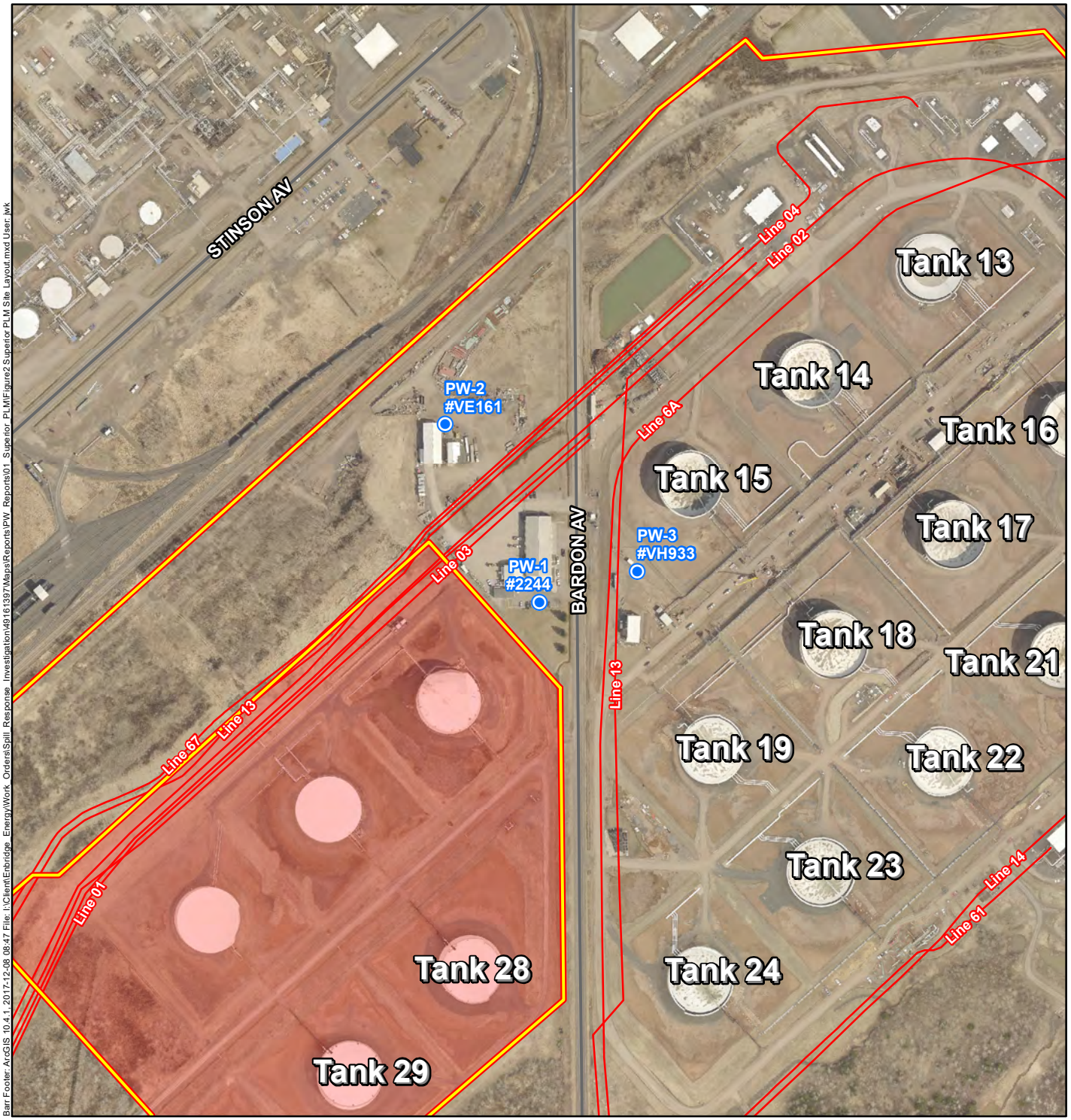
Sincerely,
Barr Engineering Co.

Kaitlin Montz
Geologist

Enclosure:

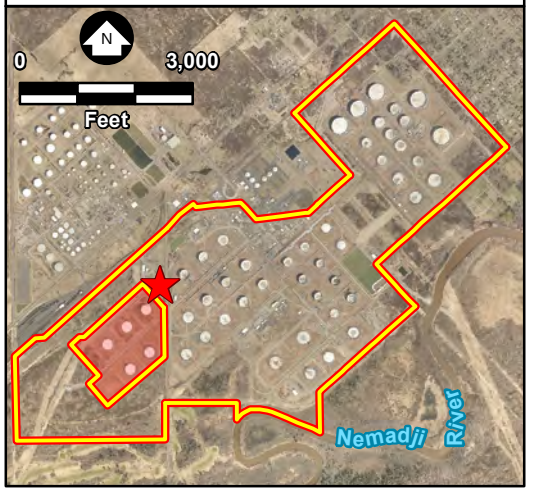
Figure 1	Private Well Locations
Table 1	Private Well Groundwater Quality Data
Attachment A	Pace Analytical Laboratory Reports
Attachment B	Private Well PW-2 Photos

cc: Karl Beaster, Enbridge Energy



Barr Footer: ArcGIS 10.4.1, 2017-12-08 08:47 File: I:\Client\Enbridge_Energy\Work_Orders\Spill_Response_Investigation\49161397\Maps\Reports\PW_Reports\01_Superior_PLM\Figure2_Superior PLM Site Layout.mxd User: lwk

ENBRIDGE SUPERIOR TERMINAL



- Site Location
- Pipeline Infrastructure
- Enbridge Ownership Boundary
- Non-Enbridge Owned Property
- Private Well

N

0 400 800

Feet

1 Inch = 400 Feet

Douglas County Imagery Circa May, 2016

Figure 1

PRIVATE WELL LOCATONS

Superior Terminal
Enbridge Energy, L.P.

ENBRIDGE

Table 1: Private Well Groundwater Quality Data

Enbridge Energy Limited Partnership - Superior, WI Terminal

	Sampling Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (m,o,p) (µg/L)	Chloride (mg/L)	Iron (mg/L)	Nitrate as N (mg/L)	Total Coliform (P/A)	Fecal Coliform as E. Coli (P/A)	Total Coliform (MPN/100/ml)	Fecal Coliform as E. Coli (MPN/100/ml)	pH
PW-1	2-Oct-17	<1.0	<4.0	<1.0	<3.0	NS	NS	NS	NS	NS	NS	NS	NS
	29-May-18	<1.0	<1.0	<1.0	<3.0	72.7	**0.442**	<0.020	Absent	Absent	NA	NA	**8.8**
	21-May-19	<1.0	<5.0	<1.0	<3.0	73.9	**1.950**	0.068J	NA	NA	<1.0	<1.0	**8.6**
	21-May-20	<0.12	<0.078	<0.11	<0.30	73.3	**0.2**	<0.0090	Absent	Absent	<1.0	<1.0	8.3
	13-May-21	<0.40	<0.28	<0.23	<0.11	72.3	**1.7**	<0.0027	Absent	Absent	<1.0	<1.0	**8.6**
PW-2	2-Oct-17	<1.0	<4.0	<1.0	<3.0	NS	NS	NS	NS	NS	NS	NS	NS
	29-May-18	<1.0	<1.0	<1.0	<3.0	108	**0.153**	<0.020	Absent	Absent	NA	NA	**9.0**
	21-May-19	<0.34	<0.28	<0.46	<1.0	109	0.099	<0.020	NA	NA	<1.0	<1.0	**8.8**
	21-May-20	<0.12	<0.078	<0.11	<0.30	107	0.1	<0.0090	Absent	Absent	<1.0	<1.0	**9.0**
	13-May-21	<0.40	<0.28	<0.23	<0.11	104	0.1	<0.0027	NA	NA	**1.0**	<1.0	**9.0**
	9-Jun-21	NS	NS	NS	NS	NS	NS	NS	Absent	Absent	**3.0**	<1.0	NS
PW-3	3-Oct-17	<1.0	<4.0	<1.0	<3.0	NS	NS	NS	NS	NS	NS	NS	NS
	29-May-18	<1.0	<1.0	<1.0	<3.0	59.5	**1.200**	<0.020	Absent	Absent	NA	NA	**9.1**
	21-May-19	<1.0	<5.0	<1.0	<3.0	60.4	**1.290**	<0.020	NA	NA	<1.0	<1.0	**8.9**
	21-May-20	<0.12	<0.078	<0.11	<0.30	60.8	**1.9**	<0.0090	Absent	Absent	<1.0	<1.0	8.2
	13-May-21	<0.40	<0.28	<0.23	<0.11	57.6	**0.4**	<0.0027	Absent	Absent	<1.0	<1.0	**8.7**
WAC NR 140 ES Criteria	--	5	800	700	2,000	250	0.3	10	--	--	--	--	--
WAC NR 140 PAL Criteria	--	0.5	160	140	400	125	0.15	2	--	--	--	--	--
EPA Primary DW Criteria	--	5	1,000	700	10,000	--	--	10	Pos/Neg	Pos/Neg	0	0	--
EPA Secondary DW Criteria	--	--	--	--	--	250	0.3	--	--	--	--	--	6.5 - 8.5

Notes:

µg/L = micrograms per liter (parts per billion)

mg/L = milligrams per liter

NA = Not analyzed for this parameter

NS = Not sampled for this parameter

<1.0 = not detected above the laboratory practical quantitation limit or reporting limit

-- = No standard established

Bold results exceeded established criteria

WAC NR 140 ES Criteria = Wisconsin Administrative Code NR 140, Enforcement Standard, revised December 2010.

WAC NR 140 PAL Criteria = Wisconsin Administrative Code NR 140, Preventive Action Limit, revised December 2010.

Attachment A

Pace Analytical Laboratory Reports

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

June 01, 2021

Jim Taraldsen
Barr Engineering Company
325 S Lake Ave
Duluth, MN 55802

RE: Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560019

Dear Jim Taraldsen:

Enclosed are the analytical results for sample(s) received by the laboratory on May 13, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Duluth, MN
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amanda J Albrecht

Amanda Albrecht
amanda.albrecht@pacelabs.com
(612)607-6382
Project Manager

Enclosures

cc: BarrDM@barr.com, Barr Engineering
Data Management, Barr Engineering
Accounts Payable, Barr Engineering

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560019

Pace Analytical Services Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services, LLC - Duluth MN
4730 Oneota Street, Duluth, MN 55807
Minnesota Certification #: 027-137-152
Minnesota Dept of Ag Approval: via Minnesota 027-137-152
Minnesota Petrofund Registration #: 1240
Montana Certification #: CERT0102
Nevada Certification #: MN00037
North Dakota Certification #: R-105
Wisconsin Certification #: 999446800
Wisconsin Dept of Ag Certification: 480341

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560019

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10560019001	**PW-1**	Water	05/13/21 10:45	05/13/21 13:40
10560019002	**PW-2**	Water	05/13/21 11:20	05/13/21 13:40
10560019003	**PW-3**	Water	05/13/21 12:20	05/13/21 13:40
10560019004	**Trip Blank - 1**	Water	05/13/21 00:00	05/13/21 13:40

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560019

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10560019001	**PW-1**	SM 9223B (Colilert-18 QT) 2004	AA2	2	PASI-DU
		EPA 353.2	AP2	2	PASI-DU
		EPA 353.2	AP2	1	PASI-DU
		EPA 524.2	JLR	7	PASI-O
		SM 4500-H+B	SWB	1	PASI-O
		EPA 300.0	EDC	1	PASI-O
10560019002	**PW-2**	SM 9223B (Colilert-18 QT) 2004	AA2	2	PASI-DU
		EPA 353.2	AP2	2	PASI-DU
		EPA 353.2	AP2	1	PASI-DU
		EPA 524.2	JLR	7	PASI-O
		SM 4500-H+B	SWB	1	PASI-O
		EPA 300.0	EDC	1	PASI-O
10560019003	**PW-3**	SM 9223B (Colilert-18 QT) 2004	AA2	2	PASI-DU
		EPA 353.2	AP2	2	PASI-DU
		EPA 353.2	AP2	1	PASI-DU
		EPA 524.2	JLR	7	PASI-O
		SM 4500-H+B	SWB	1	PASI-O
		EPA 300.0	EDC	1	PASI-O
10560019004	**Trip Blank - 1**	EPA 524.2	JLR	7	PASI-O

PASI-DU = Pace Analytical Services - Duluth, MN
PASI-O = Pace Analytical Services - Ormond Beach

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560019

Sample: PW-1 **Lab ID: 10560019001** Collected: 05/13/21 10:45 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9223B QT Total Coli Ecoli DU	Analytical Method: SM 9223B (Colilert-18 QT) 2004 Preparation Method: SM 9223B (Colilert-18 QT) 2004								
	Pace Analytical Services - Duluth, MN								
E.coli	**<1.0**	MPN/100/mL	1.0	1.0	1	05/13/21 17:45	05/14/21 14:04		
Total Coliform Bacteria	**<1.0**	MPN/100/mL	1.0	1.0	1	05/13/21 17:45	05/14/21 14:04		
353.2 Nitrogen N+N pres DU	Analytical Method: EPA 353.2								
	Pace Analytical Services - Duluth, MN								
Nitrate as N	**<0.0027**	mg/L	0.0091	0.0027	1		05/14/21 15:23	14797-55-8	
Nitrogen, NO2 plus NO3	**<0.0089**	mg/L	0.030	0.0089	1		05/14/21 15:23		
353.2 Nitrogen, NO2 unpres DU	Analytical Method: EPA 353.2								
	Pace Analytical Services - Duluth, MN								
Nitrite as N	**<0.0062**	mg/L	0.021	0.0062	1		05/14/21 14:52	14797-65-0	
524.2 MSV	Analytical Method: EPA 524.2								
	Pace Analytical Services - Ormond Beach								
Benzene	**<0.40**	ug/L	0.50	0.40	1		05/25/21 08:06	71-43-2	
Ethylbenzene	**<0.23**	ug/L	0.50	0.23	1		05/25/21 08:06	100-41-4	
Toluene	**<0.28**	ug/L	0.50	0.28	1		05/25/21 08:06	108-88-3	
Xylene (Total)	**<0.11**	ug/L	1.0	0.11	1		05/25/21 08:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		05/25/21 08:06	460-00-4	
Toluene-d8 (S)	99	%	70-130		1		05/25/21 08:06	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		05/25/21 08:06	2199-69-1	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
	Pace Analytical Services - Ormond Beach								
pH at 25 Degrees C	**8.6**	Std. Units	0.10	0.10	1		05/19/21 17:11		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
	Pace Analytical Services - Ormond Beach								
Chloride	**72300**	ug/L	5000	2500	1		05/27/21 14:23	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560019

Sample: PW-2 **Lab ID: 10560019002** Collected: 05/13/21 11:20 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9223B QT Total Coli Ecoli DU	Analytical Method: SM 9223B (Colilert-18 QT) 2004 Preparation Method: SM 9223B (Colilert-18 QT) 2004								
	Pace Analytical Services - Duluth, MN								
E.coli	**<1.0**	MPN/100/mL	1.0	1.0	1	05/13/21 17:45	05/14/21 14:04		
Total Coliform Bacteria	**1.0**	MPN/100/mL	1.0	1.0	1	05/13/21 17:45	05/14/21 14:04		
353.2 Nitrogen N+N pres DU	Analytical Method: EPA 353.2								
	Pace Analytical Services - Duluth, MN								
Nitrate as N	**<0.0027**	mg/L	0.0091	0.0027	1		05/14/21 15:27	14797-55-8	
Nitrogen, NO2 plus NO3	**<0.0089**	mg/L	0.030	0.0089	1		05/14/21 15:27		
353.2 Nitrogen, NO2 unpres DU	Analytical Method: EPA 353.2								
	Pace Analytical Services - Duluth, MN								
Nitrite as N	**<0.0062**	mg/L	0.021	0.0062	1		05/14/21 14:57	14797-65-0	
524.2 MSV	Analytical Method: EPA 524.2								
	Pace Analytical Services - Ormond Beach								
Benzene	**<0.40**	ug/L	0.50	0.40	1		05/19/21 20:55	71-43-2	
Ethylbenzene	**<0.23**	ug/L	0.50	0.23	1		05/19/21 20:55	100-41-4	
Toluene	**<0.28**	ug/L	0.50	0.28	1		05/19/21 20:55	108-88-3	
Xylene (Total)	**<0.11**	ug/L	1.0	0.11	1		05/19/21 20:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		05/19/21 20:55	460-00-4	
Toluene-d8 (S)	106	%	70-130		1		05/19/21 20:55	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	113	%	70-130		1		05/19/21 20:55	2199-69-1	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
	Pace Analytical Services - Ormond Beach								
pH at 25 Degrees C	**9.0**	Std. Units	0.10	0.10	1		05/19/21 17:12		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
	Pace Analytical Services - Ormond Beach								
Chloride	**104000**	ug/L	10000	5000	2		05/28/21 10:46	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560019

Sample: PW-3 **Lab ID: 10560019003** Collected: 05/13/21 12:20 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9223B QT Total Coli Ecoli DU	Analytical Method: SM 9223B (Colilert-18 QT) 2004 Preparation Method: SM 9223B (Colilert-18 QT) 2004								
	Pace Analytical Services - Duluth, MN								
E.coli	**<1.0**	MPN/100/mL	1.0	1.0	1	05/13/21 17:45	05/14/21 14:04		
Total Coliform Bacteria	**<1.0**	MPN/100/mL	1.0	1.0	1	05/13/21 17:45	05/14/21 14:04		
353.2 Nitrogen N+N pres DU	Analytical Method: EPA 353.2								
	Pace Analytical Services - Duluth, MN								
Nitrate as N	**<0.0027**	mg/L	0.0091	0.0027	1		05/14/21 15:28	14797-55-8	
Nitrogen, NO2 plus NO3	**<0.0089**	mg/L	0.030	0.0089	1		05/14/21 15:28		
353.2 Nitrogen, NO2 unpres DU	Analytical Method: EPA 353.2								
	Pace Analytical Services - Duluth, MN								
Nitrite as N	**<0.0062**	mg/L	0.021	0.0062	1		05/14/21 14:58	14797-65-0	
524.2 MSV	Analytical Method: EPA 524.2								
	Pace Analytical Services - Ormond Beach								
Benzene	**<0.40**	ug/L	0.50	0.40	1		05/25/21 18:30	71-43-2	
Ethylbenzene	**<0.23**	ug/L	0.50	0.23	1		05/25/21 18:30	100-41-4	
Toluene	**<0.28**	ug/L	0.50	0.28	1		05/25/21 18:30	108-88-3	
Xylene (Total)	**<0.11**	ug/L	1.0	0.11	1		05/25/21 18:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		05/25/21 18:30	460-00-4	
Toluene-d8 (S)	106	%	70-130		1		05/25/21 18:30	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	112	%	70-130		1		05/25/21 18:30	2199-69-1	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
	Pace Analytical Services - Ormond Beach								
pH at 25 Degrees C	**8.7**	Std. Units	0.10	0.10	1		05/19/21 17:13		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
	Pace Analytical Services - Ormond Beach								
Chloride	**57600**	ug/L	5000	2500	1		05/27/21 15:50	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560019

Sample: Trip Blank - 1 **Lab ID: 10560019004** Collected: 05/13/21 00:00 Received: 05/13/21 13:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach								
Benzene	**<0.40**	ug/L	0.50	0.40	1		05/25/21 18:04	71-43-2	
Ethylbenzene	**<0.23**	ug/L	0.50	0.23	1		05/25/21 18:04	100-41-4	
Toluene	**<0.28**	ug/L	0.50	0.28	1		05/25/21 18:04	108-88-3	
Xylene (Total)	**<0.11**	ug/L	1.0	0.11	1		05/25/21 18:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		05/25/21 18:04	460-00-4	
Toluene-d8 (S)	102	%	70-130		1		05/25/21 18:04	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	111	%	70-130		1		05/25/21 18:04	2199-69-1	

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560019

QC Batch:	741997	Analysis Method:	SM 9223B (Colilert-18 QT) 2004
QC Batch Method:	SM 9223B (Colilert-18 QT) 2004	Analysis Description:	9223B QT Total Coli Ecoli DU
		Laboratory:	Pace Analytical Services - Duluth, MN

Associated Lab Samples: 10560019001, 10560019002, 10560019003

METHOD BLANK: 3956848 Matrix: Water

Associated Lab Samples: 10560019001, 10560019002, 10560019003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
E.coli	MPN/100/mL	<1.0	1.0	05/14/21 14:04	
Total Coliform Bacteria	MPN/100/mL	<1.0	1.0	05/14/21 14:04	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560019

QC Batch: 742194
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved DU
Laboratory: Pace Analytical Services - Duluth, MN
Associated Lab Samples: 10560019001, 10560019002, 10560019003

METHOD BLANK: 3958003 Matrix: Water
Associated Lab Samples: 10560019001, 10560019002, 10560019003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.0089	0.030	05/14/21 15:21	

LABORATORY CONTROL SAMPLE: 3958004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.5	0.51	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3958005 3958006

Parameter	Units	10560019001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.0089	0.5	0.5	0.52	0.52	104	103	90-110	0	10	

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QUALITY CONTROL DATA

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560019

QC Batch: 742190
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrite DU
Laboratory: Pace Analytical Services - Duluth, MN
Associated Lab Samples: 10560019001, 10560019002, 10560019003

METHOD BLANK: 3957993 Matrix: Water
Associated Lab Samples: 10560019001, 10560019002, 10560019003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.0062	0.021	05/14/21 14:49	

LABORATORY CONTROL SAMPLE: 3957994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.5	0.52	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3957995 3957996

Parameter	Units	10560019001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrite as N	mg/L	<0.0062	0.5	0.5	0.52	0.52	104	104	90-110	0	10	

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QUALITY CONTROL DATA

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560019

QC Batch: 730722
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 10560019002

METHOD BLANK: 3984140 Matrix: Water
Associated Lab Samples: 10560019002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.40	0.50	05/19/21 14:34	
Ethylbenzene	ug/L	<0.23	0.50	05/19/21 14:34	
Toluene	ug/L	<0.28	0.50	05/19/21 14:34	
Xylene (Total)	ug/L	<0.11	1.0	05/19/21 14:34	
1,2-Dichlorobenzene-d4 (S)	%	114	70-130	05/19/21 14:34	
4-Bromofluorobenzene (S)	%	88	70-130	05/19/21 14:34	
Toluene-d8 (S)	%	102	70-130	05/19/21 14:34	

LABORATORY CONTROL SAMPLE & LCSD: 3984141 3984142

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	40	43.7	42.8	109	107	70-130	2	20	
Ethylbenzene	ug/L	40	43.8	42.6	110	106	70-130	3	20	
Toluene	ug/L	40	40.7	39.7	102	99	70-130	2	20	
Xylene (Total)	ug/L	120	120	117	100	98	70-130	2	20	
1,2-Dichlorobenzene-d4 (S)	%				99	98	70-130			
4-Bromofluorobenzene (S)	%				102	104	70-130			
Toluene-d8 (S)	%				99	101	70-130			

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QUALITY CONTROL DATA

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560019

QC Batch: 732178
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 10560019001

METHOD BLANK: 3992105 Matrix: Water
Associated Lab Samples: 10560019001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.40	0.50	05/25/21 04:17	
Ethylbenzene	ug/L	<0.23	0.50	05/25/21 04:17	
Toluene	ug/L	<0.28	0.50	05/25/21 04:17	
Xylene (Total)	ug/L	<0.11	1.0	05/25/21 04:17	
1,2-Dichlorobenzene-d4 (S)	%	108	70-130	05/25/21 04:17	
4-Bromofluorobenzene (S)	%	93	70-130	05/25/21 04:17	
Toluene-d8 (S)	%	97	70-130	05/25/21 04:17	

LABORATORY CONTROL SAMPLE & LCSD: 3992106 3992107

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	10	10.4	10.3	104	103	70-130	0	20	
Ethylbenzene	ug/L	10	10.3	10.2	103	102	70-130	2	20	
Toluene	ug/L	10	9.8	9.7	98	97	70-130	1	20	
Xylene (Total)	ug/L	30	30.8	29.6	103	99	70-130	4	20	
1,2-Dichlorobenzene-d4 (S)	%				97	93	70-130			
4-Bromofluorobenzene (S)	%				97	98	70-130			
Toluene-d8 (S)	%				102	103	70-130			

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QUALITY CONTROL DATA

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560019

QC Batch: 732542
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 10560019003, 10560019004

METHOD BLANK: 3995282 Matrix: Water
Associated Lab Samples: 10560019003, 10560019004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.40	0.50	05/25/21 16:24	
Ethylbenzene	ug/L	<0.23	0.50	05/25/21 16:24	
Toluene	ug/L	<0.28	0.50	05/25/21 16:24	
Xylene (Total)	ug/L	<0.11	1.0	05/25/21 16:24	
1,2-Dichlorobenzene-d4 (S)	%	109	70-130	05/25/21 16:24	
4-Bromofluorobenzene (S)	%	93	70-130	05/25/21 16:24	
Toluene-d8 (S)	%	110	70-130	05/25/21 16:24	

LABORATORY CONTROL SAMPLE & LCSD: 3995283 3995284

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	10	9.1	8.1	91	81	70-130	11	20	
Ethylbenzene	ug/L	10	8.7	8.8	87	88	70-130	2	20	
Toluene	ug/L	10	8.3	8.5	83	85	70-130	2	20	
Xylene (Total)	ug/L	30	24.5	25.9	82	86	70-130	5	20	
1,2-Dichlorobenzene-d4 (S)	%				97	98	70-130			
4-Bromofluorobenzene (S)	%				91	97	70-130			
Toluene-d8 (S)	%				100	101	70-130			

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QUALITY CONTROL DATA

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560019

QC Batch: 733269 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 10560019001, 10560019002, 10560019003

METHOD BLANK: 3999198 Matrix: Water
Associated Lab Samples: 10560019001, 10560019002, 10560019003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	<2500	5000	05/27/21 13:17	

LABORATORY CONTROL SAMPLE: 3999199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	50000	48400	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3999200 3999201

Parameter	Units	10560019001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	ug/L	72300	50000	50000	120000	126000	96	107	90-110	4	20	E

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3999202 3999203

Parameter	Units	35632809001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	ug/L	4.7J mg/L	50000	50000	52100	52000	95	95	90-110	0	20	

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QUALIFIERS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560019

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H6	Analysis initiated outside of the 15 minute EPA required holding time.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10560019

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10560019001	**PW-1**	SM 9223B (Colilert-18 QT) 2004	741997	SM 9223B (Colilert-18 QT) 2004	742007
10560019002	**PW-2**	SM 9223B (Colilert-18 QT) 2004	741997	SM 9223B (Colilert-18 QT) 2004	742007
10560019003	**PW-3**	SM 9223B (Colilert-18 QT) 2004	741997	SM 9223B (Colilert-18 QT) 2004	742007
10560019001	**PW-1**	EPA 353.2	742194		
10560019002	**PW-2**	EPA 353.2	742194		
10560019003	**PW-3**	EPA 353.2	742194		
10560019001	**PW-1**	EPA 353.2	742190		
10560019002	**PW-2**	EPA 353.2	742190		
10560019003	**PW-3**	EPA 353.2	742190		
10560019001	**PW-1**	EPA 524.2	732178		
10560019002	**PW-2**	EPA 524.2	730722		
10560019003	**PW-3**	EPA 524.2	732542		
10560019004	**Trip Blank - 1**	EPA 524.2	732542		
10560019001	**PW-1**	SM 4500-H+B	730708		
10560019002	**PW-2**	SM 4500-H+B	730708		
10560019003	**PW-3**	SM 4500-H+B	730708		
10560019001	**PW-1**	EPA 300.0	733269		
10560019002	**PW-2**	EPA 300.0	733269		
10560019003	**PW-3**	EPA 300.0	733269		

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Barr Engineering Co. Chain of Custody

Sample Origination State

☐ CO ☐ MI ☐ MN ☐ MO ☐ ND ☐ TX ☐ UT ☒ WI ☐ Other: _____

COC Number: № 588140

COC 1 of 1

WO#: 10560019

PM: AA1 **Due Date: 05/27/21**

CLIENT: BARR

REPORT TO	INVOICE TO
Company: Barr Engineering	Company: Barr
Address: 325 S. Lake Ave	Address:
Address: Duluth, MN 55802	Address:
Name: Lynette Carney	Name:
email: lcarney@barr.com	email:
Copy to: BarrDM@barr.com	P.O. —
Project Name: 2021 GMP SPT PW	Barr Project No: 49161528.00 200 205

	Location	Sample Depth Start	Stop	Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD Y / N	Total Number Of Containers	Analysis Requested: Water — BTEX (524.2) B	Chloride (300.0) A	pH (SM4500 H+) A	Iron (200.7) C	Total Coliform + E. Coli by 9223B colilert H	Nitrate (353.2) D	Analysis Requested: Soil — % Solids
	Preservative Code									N	N	N	N	N	N	
	Field Filtered Y/N									N	N	N	N	N	N	
1.	PW-1	—			05/13/2021	1045	DW	N	8	X	X	X	X	X	X	
2.	PW-2	—				1120	DW	N	11	X	X	X	X	X	X	
3.	PW-3	—				1220	DW	N	8	X	X	X	X	X	X	
4.	Trip Blank -1	—			—	—	—	N	2	X						
5.																
6.																
7.																
8.																
9.																
10.																

Preservative Code: O = Other; G = $NaHSO_4$; H = $Na_2S_2O_3$; I = Ascorbic Acid; J = Zn Acetate; K = Other

PW-2 had 3 VOA vials with HCl + 3 VOA vials without HCl. Air Bubbles in samples - KMJ3

BARR USE ONLY

Sampled by: KMJ3

Barr Proj. Manager: LMC

Barr DQ Manager: JET

Lab Name: Pace

Lab Location:

Relinquished by: Kaitlin Mantz — On Ice? (Y) N — Date 5/13/21 — Time 1340

Received by: Pace — Date 5/13/21 — Time 13:40

Relinquished by: — On Ice? Y N — Date — Time

Received by: — Date — Time

Samples Shipped VIA: ☐ Ground Courier ☐ Air Carrier ☐ Sampler ☐ Other: _____

Air Bill Number:

Lab WO: Temperature on Receipt (°C): 2.3 Custody Seal Intact? ☐ Y ☐ N ☒ None

Requested Due Date:

☒ Standard Turn Around Time

☐ Rush _____ (mm/dd/yyyy)

Distribution - White-Original: Accompanies Shipment to Laboratory; **Yellow Copy:** Include in Field Documents; **Scan and email:** a copy to BarrDM@barr.com for tracking and filing procedures

H:RLG\STDFORMS\Chain of Custody Form 2015 RLG Rev. 01/30/2020

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 17June2019 Page 1 of 1
	Document No.: F-DUL-C-001-rev.07	Issuing Authority: Pace Duluth Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: BARR ENGINEERING

Project #: WO# : 10560019

PM: AA1 Due Date: 05/27/21

CLIENT: BARR

Courier: ☐Fed Ex ☐UPS ☐USPS ☑Client ☐SpeeDee ☐Pace ☐Other:_____

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐Yes ☑No **Seals Intact?** ☐Yes ☐No

Packing Material: ☑Bubble Wrap ☑Bubble Bags ☐None ☐Other:_____

Type of Ice: ☑Wet ☐Blue ☐None ☐Samples on ice, cooling process has begun

Is there evidence of ice formation in samples? ☐Yes ☑No **Biological Tissue Frozen?** ☐Yes ☐No ☑NA

Temp Blank? ☑Yes ☐No **Thermometer Used:** ☑01339252/1710 ☐122639816 **Correction Factor °C:** -0.3

Temp should be above freezing to 6 °C **Cooler Temp Read °C:** 2.6 **Cooler Temp Corrected °C:** 2.3

Date and Initials of Person Examining Contents: 05/13/2021 (JT)

				Comments:
Chain of Custody Present?	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out?	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished?	☑Yes	☐No	☐N/A	3.
Sampler Name and Signature on COC?	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time?	☑Yes	☐No	☐N/A	5. If Fecal: ☐<8 hours ☐>8, <24 hours ☐>24 hours
Short Hold Time Analysis (<72 hr)?	☑Yes	☐No	☐N/A	6. E. CoLI, NO_2, NO_3
Rush Turn Around Time Requested?	☐Yes	☑No	☐N/A	7.
Sufficient Volume?	☑Yes	☐No	☐N/A	8.
Correct Containers Used?	☑Yes	☐No	☐N/A	9.
-Pace Containers Used?	☑Yes	☐No	☐N/A	
Containers Intact?	☑Yes	☐No	☐N/A	10.
Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☑N/A	11. Note if sediment is visible in the dissolved containers:
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑Yes	☐No	☐N/A	12.
All containers needing acid/base preservation properly preserved?	☑Yes	☐No	☐N/A	13. Note samples needing adjustment:
Headspace in Methyl Mercury Container	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm)?	☐Yes	☑No	☐N/A	15.
Trip Blank Present?	☑Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present?	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION: **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

FECAL WAIVER ON FILE: Y N TEMPERATURE WAIVER ON FILE: Y N

Project Manager Review: _____ **Date:** 5/13/21

WO# : 35633914

35633914

Custody

Samples Pre-Logged into eCOC.

State Of Origin: WI

Cert. Needed: ☑ Yes ☐ No

Owner Received Date: 5/13/2021 Results Requested By: 5/27/2021

Pace Analytical® www.pacelabs.com

Workorder: 10560019 **Workorder Name:** 49161528.00 200 205 2021 GMP

Report To	Subcontract To
Amanda Albrecht Pace Analytical Minnesota 1700 Elm Street Minneapolis, MN 55414 Phone (612)607-6382	Pace Analytical Ormond Beach 8 East Tower Circle Ormond Beach, FL 32174 Phone (386)672-5668

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: VG9H HCl	BP3U Unpreserved	VG9U Unpreserved				Requested Analysis: 300.0 Chloride (Pace-Ormond Beach)	524.2 BTEX (Pace-Ormond Beach)	SM4500 H+ pH (Pace-Ormond Beach)	LAB USE ONLY
1	PW-1	PS	5/13/2021 10:45	10560019001	Drinking Water	3	1					X	X	X	
2	PW-2	PS	5/13/2021 11:20	10560019002	Drinking Water	3	1	3				X	X	X	
3	PW-3	PS	5/13/2021 12:20	10560019003	Drinking Water	3	1					X	X	X	
4	Trip Blank - 1	PS	5/13/2021 00:00	10560019004	Drinking Water	2							X		
5															

Transfers	Released By	Date/Time	Received By	Date/Time
1		5/14/21 1400		5/15/21 1
2				
3				

Comments

3 VOA Vials with HCL and 3 VOA vials witout HCL due to bubble formation - watch holding time

Drinking Water Certification

Cooler Temperature on Receipt 5.0 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*

This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

CUR)

WO#: 35633914

PM: CLG **Due Date: 05/27/21**

CLIENT: PACMIN

Project #

Project Manager:

Client:

Date and Initials of person:

Examining contents:

Label:

Deliver: AW

pH:

Thermometer Used: T-353 Date: 5.15.21 Time: 11:10 Initials: KAT

State of Origin: ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C	4.9 **(Visual)**	+0.1 **(Correction Factor)**	5.0 **(Actual)**	☐	Samples on ice, cooling process has begun
Cooler #2 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐	Samples on ice, cooling process has begun
Cooler #3 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐	Samples on ice, cooling process has begun
Cooler #4 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐	Samples on ice, cooling process has begun
Cooler #5 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐	Samples on ice, cooling process has begun
Cooler #6 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐	Samples on ice, cooling process has begun

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Shipping Method: ☐ First Overnight ☑ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

Billing: ☐ Recipient ☑ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # 6779 8899 3756

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No **Seals intact:** ☑ Yes ☐ No **Ice:** (Wet) Blue Dry None

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (if Yes, complete) Shorted Date: Shorted Time: Qty:

		Comments:
Chain of Custody Present	☑Yes ☐ No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐ No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐ No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐ No ☐N/A	
Rush TAT requested on COC	☐Yes ☑ No ☐N/A	
Sufficient Volume	☑Yes ☐ No ☐N/A	
Correct Containers Used	☑Yes ☐ No ☐N/A	
Containers Intact	☑Yes ☐ No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑Yes ☐ No ☐N/A	
All containers needing acid/base preservation have been checked.	☐Yes ☐ No ☑N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☐Yes ☐ No ☑N/A	Preservative: Lot #/Trace #: Date: Time: Initials:
Headspace in VOA Vials? (>6mm):	☐Yes ☑ No ☐N/A	
Trip Blank Present:	☑Yes ☐ No ☐N/A	2-8 S24 AW 5/17

Client Notification/ Resolution:

Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

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LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida(Primary AB)*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon*	4156
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

Revision date: 09/29/2020

eurofins | Eaton Analytical

110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: Pace Analytical

Attn: Amanda Albrecht
1700 Elm Street SE
Suite 200
Minneapolis, MN 55414

Report: 518266
Priority: Rush Written
Status: Final
PWS ID: Not Supplied

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4903818	10560019001/PW-1	200.7	05/13/21 10:45	Client	05/17/21 08:15
4903819	10560019002/PW-2	200.7	05/13/21 11:20	Client	05/17/21 08:15
4903820	10560019003/PW-3	200.7	05/13/21 12:20	Client	05/17/21 08:15

Report Summary

Note: Sample containers were provided by the client.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Jessie Brasch at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Jessie Brasch — Analytical Services Manager — 05/21/2021

Authorized Signature | Title | Date

Client Name: Pace Analytical
Report #: 518266

Client Name: Pace Analytical Report #: 518266

Sampling Point: 10560019001/PW-1 PWS ID: Not Supplied

Metals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
7439-89-6	Iron	200.7	0.3 ^	0.0	**1.7**	mg/L	05/18/21 15:00	05/19/21 15:50	4903818

Sampling Point: 10560019002/PW-2 PWS ID: Not Supplied

Metals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
7439-89-6	Iron	200.7	0.3 ^	0.0	**0.1**	mg/L	05/18/21 15:00	05/19/21 16:03	4903819

Sampling Point: 10560019003/PW-3 PWS ID: Not Supplied

Metals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
7439-89-6	Iron	200.7	0.3 ^	0.0	**0.4**	mg/L	---	05/19/21 14:45	4903820

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: (MS or MSD value - Sample value) * 100 / spike target / dilution factor = **Recovery %**

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

Chain of Custody

PASI Minnesota Laboratory

426079
5182606

Pace Analytical®
www.pacelabs.com

Workorder: 10560019 **Workorder Name:** 49161528.00 200 205 2021 GMP **Results Requested By:** 5/27/2021

Report / Invoice To	Subcontract To
Amanda Albrecht Pace Analytical Minnesota 1700 Elm Street Minneapolis, MN 55414 Phone (612)607-6382 Email: amanda.albrecht@pacelabs.com	Eurofins - Eaton Analytical P.O. 10560019 110 South Hill St South Bend, IN 46617

State of Sample Origin: WI LOD/LOQ

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers HNO3 BP3N	Requested Analysis 200.7 Iron	LAB USE ONLY
1	PW-1	5/13/2021 10:45	10560019001	Drinking Water	1	X	4903818
2	PW-2	5/13/2021 11:20	10560019002	Drinking Water	1	X	819
3	PW-3	5/13/2021 12:20	10560019003	Drinking Water	1	X	820
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time
1		5/14/21 1400		
2				
3			Kelly-FAT	5.17.21 0815

Comments

Drinking water certification in WI required
Include Barr Equis EDD

Cooler Temperature on Receipt 7.0 °C | **Custody Seal** (Y) or N | **Received on Ice** Y or (N) | **Samples Intact** (Y) or N

RUSH WRITTEN

Client Provided Sample Container

pH Acceptable

Eurofins Eaton Analytical
Run Log

Run ID: **289151** Method: **200.7**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
ICB	4900878		RW	FC	05/19/2021 14:07	
UQCSM	4900885		RW	FC	05/19/2021 14:22	
CCB	4900887		RW	FC	05/19/2021 14:26	
LRB	4900889		RW	FC	05/19/2021 14:30	
LFB	4900891		RW	FC	05/19/2021 14:37	
FS	4903820	10560019003/PW-3	DW	FC	05/19/2021 14:45	
CCC	4900903		RW	FC	05/19/2021 15:05	
CCB	4900904		RW	FC	05/19/2021 15:07	
CCC	4900894		RW	FC	05/19/2021 15:37	
CCB	4900895		RW	FC	05/19/2021 15:39	
LDB	4905347		RW	FC	05/19/2021 15:41	
DFB	4905350		RW	FC	05/19/2021 15:48	
FS	4903818	10560019001/PW-1	DW	FC	05/19/2021 15:50	
MS	4906851	10560019001/PW-1	DW	FC	05/19/2021 15:52	
MSD	4906852	10560019001/PW-1	DW	FC	05/19/2021 15:54	
FS	4903819	10560019002/PW-2	DW	FC	05/19/2021 16:03	
CCC	4900907		RW	FC	05/19/2021 16:05	
CCB	4900908		RW	FC	05/19/2021 16:07	
CCB	4904495		RW	FC	05/19/2021 16:20	

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
ICB	Iron	200.7	0.0	---	<	0.0		mg/L	---	---	---	---	1.0	---	05/19/2021 14:07	4900878
ICB	IS-Yttrium	200.7	N/A	---		1.0000	1.0	N/A	100	75 - 125	---	---	1.0	---	05/19/2021 14:07	4900878
UQCSM	Iron	200.7	0.0	---		5.1500	5.0	mg/L	103	95 - 105	---	---	1.0	---	05/19/2021 14:22	4900885
UQCSM	IS-Yttrium	200.7	N/A	---		1.0000	1.0	N/A	100	75 - 125	---	---	1.0	---	05/19/2021 14:22	4900885
CCB	Iron	200.7	0.0	---	<	0.0		mg/L	---	---	---	---	1.0	---	05/19/2021 14:26	4900887
CCB	IS-Yttrium	200.7	N/A	---		1.0100	1.0	N/A	101	75 - 125	---	---	1.0	---	05/19/2021 14:26	4900887
LRB	Iron	200.7	0.0	---	<	0.0		mg/L	---	---	---	---	1.0	---	05/19/2021 14:30	4900889
LRB	IS-Yttrium	200.7	N/A	---		1.0100	1.0	N/A	101	75 - 125	---	---	1.0	---	05/19/2021 14:30	4900889
LFB	Iron	200.7	0.0	---		5.0481	5.0	mg/L	101	85 - 115	---	---	1.0	---	05/19/2021 14:37	4900891
LFB	IS-Yttrium	200.7	N/A	---		1.0100	1.0	N/A	101	75 - 125	---	---	1.0	---	05/19/2021 14:37	4900891
FS	Iron	200.7	0.0	10560019003/PW-3		0.4		mg/L	---	---	---	---	1.0	---	05/19/2021 14:45	4903820
FS	IS-Yttrium	200.7	N/A	10560019003/PW-3		1.0100	1.0	N/A	101	75 - 125	---	---	1.0	---	05/19/2021 14:45	4903820
CCC	Iron	200.7	0.0	---		4.9310	5.0	mg/L	99	90 - 110	---	---	1.0	---	05/19/2021 15:05	4900903
CCC	IS-Yttrium	200.7	N/A	---		1.0100	1.0	N/A	101	75 - 125	---	---	1.0	---	05/19/2021 15:05	4900903
CCB	Iron	200.7	0.0	---	<	0.0		mg/L	---	---	---	---	1.0	---	05/19/2021 15:07	4900904
CCB	IS-Yttrium	200.7	N/A	---		1.0200	1.0	N/A	102	75 - 125	---	---	1.0	---	05/19/2021 15:07	4900904
CCC	Iron	200.7	0.0	---		4.9787	5.0	mg/L	100	90 - 110	---	---	1.0	---	05/19/2021 15:37	4900894
CCC	IS-Yttrium	200.7	N/A	---		1.0300	1.0	N/A	103	75 - 125	---	---	1.0	---	05/19/2021 15:37	4900894
CCB	Iron	200.7	0.0	---	<	0.0		mg/L	---	---	---	---	1.0	---	05/19/2021 15:39	4900895
CCB	IS-Yttrium	200.7	N/A	---		1.0300	1.0	N/A	103	75 - 125	---	---	1.0	---	05/19/2021 15:39	4900895
LDB	Iron	200.7	0.0	---	<	0.0		mg/L	---	---	---	---	1.0	05/18/2021 15:00	05/19/2021 15:41	4905347
LDB	IS-Yttrium	200.7	N/A	---		1.0300	1.0	N/A	103	75 - 125	---	---	1.0	05/18/2021 15:00	05/19/2021 15:41	4905347
DFB	Iron	200.7	0.0	---		4.9850	5.0	mg/L	100	85 - 115	---	---	1.0	05/18/2021 15:00	05/19/2021 15:48	4905350
DFB	IS-Yttrium	200.7	N/A	---		1.0300	1.0	N/A	103	75 - 125	---	---	1.0	05/18/2021 15:00	05/19/2021 15:48	4905350
FS	Iron	200.7	0.0	10560019001/PW-1		1.7		mg/L	---	---	---	---	1.0	05/18/2021 15:00	05/19/2021 15:50	4903818
FS	IS-Yttrium	200.7	N/A	10560019001/PW-1		1.0200	1.0	N/A	102	75 - 125	---	---	1.0	05/18/2021 15:00	05/19/2021 15:50	4903818
MS	Iron	200.7	0.0	10560019001/PW-1		6.6496	6.748799	mg/L	98	70 - 130	---	---	1.0	---	05/19/2021 15:52	4906851
MS	IS-Yttrium	200.7	N/A	10560019001/PW-1		1.0000	1.0	N/A	100	75 - 125	---	---	1.0	---	05/19/2021 15:52	4906851
MSD	Iron	200.7	0.0	10560019001/PW-1		6.4321	6.748799	mg/L	94	70 - 130	3.3	20	1.0	---	05/19/2021 15:54	4906852
MSD	IS-Yttrium	200.7	N/A	10560019001/PW-1		1.0100	1.0	N/A	101	75 - 125	---	---	1.0	---	05/19/2021 15:54	4906852
FS	Iron	200.7	0.0	10560019002/PW-2		0.1		mg/L	---	---	---	---	1.0	05/18/2021 15:00	05/19/2021 16:03	4903819
FS	IS-Yttrium	200.7	N/A	10560019002/PW-2		1.0200	1.0	N/A	102	75 - 125	---	---	1.0	05/18/2021 15:00	05/19/2021 16:03	4903819
CCC	Iron	200.7	0.0	---		4.9251	5.0	mg/L	99	90 - 110	---	---	1.0	---	05/19/2021 16:05	4900907
CCC	IS-Yttrium	200.7	N/A	---		1.0200	1.0	N/A	102	75 - 125	---	---	1.0	---	05/19/2021 16:05	4900907
CCB	Iron	200.7	0.0	---	<	0.0		mg/L	---	---	---	---	1.0	---	05/19/2021 16:07	4900908
CCB	IS-Yttrium	200.7	N/A	---		1.0200	1.0	N/A	102	75 - 125	---	---	1.0	---	05/19/2021 16:07	4900908
CCB	Iron	200.7	0.0	---	<	0.0		mg/L	---	---	---	---	1.0	05/19/2021 13:30	05/19/2021 16:20	4904495
CCB	IS-Yttrium	200.7	N/A	---		1.0300	1.0	N/A	103	75 - 125	---	---	1.0	05/19/2021 13:30	05/19/2021 16:20	4904495

Sample Type Key

Type (Abbr.)	Sample Type
CCB	Continuing Calibration Blank
CCC	Continuing Calibration Check
DFB	Digested Fortified Blank
FS	Field Sample
ICB	Initial Calibration Blank
LDB	Laboratory Digestion Blank
LFB	Laboratory Fortified Blank
LRB	Laboratory Reagent Blank
MS	Matrix Spike
MSD	Matrix Spike Duplicate
UQCSM	Unextracted QCS Mid

Type (Abbr.)	Sample Type

END OF REPORT

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

June 10, 2021

Jim Taraldsen
Barr Engineering Company
325 S Lake Ave
Duluth, MN 55802

RE: Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10564297

Dear Jim Taraldsen:

Enclosed are the analytical results for sample(s) received by the laboratory on June 09, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Duluth, MN

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amanda J Albrecht

Amanda Albrecht
amanda.albrecht@pacelabs.com
(612)607-6382
Project Manager

Enclosures

cc: BarrDM@barr.com, Barr Engineering
Data Management, Barr Engineering
Accounts Payable, Barr Engineering

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10564297

Pace Analytical Services, LLC - Duluth MN
4730 Oneota Street, Duluth, MN 55807
Minnesota Certification #: 027-137-152
Minnesota Dept of Ag Approval: via Minnesota 027-137-152
Minnesota Petrofund Registration #: 1240
Montana Certification #: CERT0102
Nevada Certification #: MN00037
North Dakota Certification #: R-105
Wisconsin Certification #: 999446800
Wisconsin Dept of Ag Certification: 480341

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10564297

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10564297001	**PW-2**	Water	06/09/21 09:08	06/09/21 09:46

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10564297

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10564297001	**PW-2**	SM 9223B (Colilert-18 QT) 2004	DW3	2	PASI-DU
		SM 9223 B (Colilert-18)	AP2	2	PASI-DU

PASI-DU = Pace Analytical Services - Duluth, MN

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10564297

Sample: PW-2 **Lab ID: 10564297001** Collected: 06/09/21 09:08 Received: 06/09/21 09:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9223B QT Total Coli Ecoli DU	Analytical Method: SM 9223B (Colilert-18 QT) 2004 Preparation Method: SM 9223B (Colilert-18 QT) 2004								
	Pace Analytical Services - Duluth, MN								
E.coli	**<1.0**	MPN/100/mL	1.0	1.0	1	06/09/21 15:40	06/10/21 10:00		
Total Coliform Bacteria	**3.0**	MPN/100/mL	1.0	1.0	1	06/09/21 15:40	06/10/21 10:00		
Coliform Colilert18 P/A DW DU	Analytical Method: SM 9223 B (Colilert-18) Preparation Method: SM 9223 B (Colilert-18)								
	Pace Analytical Services - Duluth, MN								
Total Coliforms	**Absent**		1.0	1.0	1	06/09/21 14:15	06/10/21 08:34		
E.coli	**Absent**		1.0	1.0	1	06/09/21 14:15	06/10/21 08:34		

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QUALITY CONTROL DATA

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10564297

QC Batch: 747926
QC Batch Method: SM 9223B (Colilert-18 QT) 2004
Analysis Method: SM 9223B (Colilert-18 QT) 2004
Analysis Description: 9223B QT Total Coli Ecoli DU
Laboratory: Pace Analytical Services - Duluth, MN
Associated Lab Samples: 10564297001

METHOD BLANK: 3989417 Matrix: Water
Associated Lab Samples: 10564297001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
E.coli	MPN/100/mL	<1.0	1.0	06/10/21 10:00	
Total Coliform Bacteria	MPN/100/mL	<1.0	1.0	06/10/21 10:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Minneapolis, MN 55414
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QUALITY CONTROL DATA

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10564297

QC Batch: 747897
QC Batch Method: SM 9223 B (Colilert-18)
Analysis Method: SM 9223 B (Colilert-18)
Analysis Description: TotColDW DBIO Total Coliform DU
Laboratory: Pace Analytical Services - Duluth, MN
Associated Lab Samples: 10564297001

METHOD BLANK: 3989033 Matrix: Drinking Water
Associated Lab Samples: 10564297001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
E.coli		Absent	1.0	06/10/21 08:34	
Total Coliforms		Absent	1.0	06/10/21 08:34	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10564297

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 49161528.00 200 205 2021 GMP
Pace Project No.: 10564297

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10564297001	**PW-2**	SM 9223B (Colilert-18 QT) 2004	747926	SM 9223B (Colilert-18 QT) 2004	748149
10564297001	**PW-2**	SM 9223 B (Colilert-18)	747897	SM 9223 B (Colilert-18)	748194

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BARR

Barr Engineering Co. Chain of Custody

Sample Origination State

☐ CO ☐ MI ☐ MN ☐ MO ☐ ND ☐ TX ☐ UT ☒ WI ☐ Other: ________

COC Number: № 589419

COC 1 of 1

WO#: 10564297

PM: AA1 Due Date: 06/23/21

CLIENT: BARR

REPORT TO	
Company:	Barr Engineering Co.
Address:	325 S. Lake Ave.
Address:	Duluth, MN 55802
Name:	Lynette Carney
email:	lcarney@barr.com
Copy to:	BarrDM@barr.com
Project Name:	2021 GMPSPT PW

INVOICE TO	
Company:	Barr
Address:	↓
Address:	
Name:	
email:	
P.O.	—
Barr Project No:	49161528.00 200 205

Analysis Requested: Water / Soil

O = Other; G = $NaHSO_4$; H = $Na_2S_2O_3$; I = Ascorbic Acid; J = Zn Acetate; K = Other

Location	Sample Depth Start	Stop	Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD Y / N	Total Number Of Containers	See side comment	See side comment	% Solids
Preservative Code									H	H	
Field Filtered Y/N									N	N	
1. PW-2	—	—	—	06/09/2021	0908	DW	N	2	X	X	
2.											
3.											
4.											
5.											
6.											
7.											
8.											
9.											
10.											

Analysis Requested:

Total Coliform and E. Coli by SM 9223B (Colilert-18 QT)-2004

and

total Coliform and E. Coli by SM 9223 B (Colilert-18) - P/A

BARR USE ONLY	
Sampled by:	KMJ3
Barr Proj. Manager:	LMC
Barr DQ Manager:	JET
Lab Name:	Pace
Lab Location:	Duluth, MN

Relinquished by:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	(Y) N	6/9/21	0946	[signature] / PACE	6/9/21	09:46
Relinquished by:	On Ice? Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Ground Courier ☐ Air Carrier ☐ Sampler ☐ Other: ________

Air Bill Number:

Requested Due Date: ☒ Standard Turn Around Time ☐ Rush ________ (mm/dd/yyyy)

Lab WO: Temperature on Receipt (°C): 2.6 Custody Seal Intact? ☐ Y ☐ N ☒ None

Distribution - **White-Original:** Accompanies Shipment to Laboratory; **Yellow Copy:** Include in Field Documents; **Scan and email:** a copy to BarrDM@barr.com for tracking and filing procedures

H:\RLG\STDFORMS\Chain of Custody Form 2015 RLG Rev. 01/30/2020

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 17June2019 Page 1 of 1
	Document No.: F-DUL-C-001-rev.07	Issuing Authority: Pace Duluth Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: BARR ENGINEERING CO.

Project #: **WO#: 10564297**

PM: AA1 **Due Date: 06/23/21**

CLIENT: BARR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ SpeeDee ☐ Pace ☐ Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other:

Type of Ice: ☐ Wet ☐ Blue ☐ None ☒ Samples on ice, cooling process has begun

Is there evidence of ice formation in samples? ☐ Yes ☑ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ NA

Temp Blank? ☑ Yes ☐ No **Thermometer Used:** ☑ 01339252/1710 ☐ 122639816 **Correction Factor °C:** -0.3

Temp should be above freezing to 6 °C **Cooler Temp Read °C:** 2.9 **Cooler Temp Corrected °C:** 2.6

Date and Initials of Person Examining Contents: 06/09/2021

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5. If Fecal: ☐ <8 hours ☐ >8, <24 hours ☐ >24 hours
Short Hold Time Analysis (<72 hr)?	☑ Yes	☐ No	☐ N/A	6. T-COLI, E. COLI
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved containers:
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: DW	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation properly preserved?	☐ Yes	☐ No	☑ N/A	13. Note samples needing adjustment:
Headspace in Methyl Mercury Container	☐ Yes	☐ No	☑ N/A	14.
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION: **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

FECAL WAIVER ON FILE: Y N TEMPERATURE WAIVER ON FILE: Y N

Project Manager Review: **Date:** 6/9/21

Pace Container Order #824651

Addresses

Order By :		Ship To :		Return To:	
Company	Barr Engineering	Company	HOLD FOR CLIENT	Company	Pace Analytical Minnesota
Contact	Taraldsen, Jim	Contact	Taraldsen, James	Contact	Albrecht, Amanda
Email	mtreanor@barr.com	Email	jtaraldsen@barr.com	Email	amanda.albrecht@pacelabs.com
Address	325 S Lake Ave	Address	4730 Oneota Street	Address	1700 Elm Street
Address 2		Address 2		Address 2	Suite 200
City	Duluth	City	Duluth	City	Minneapolis
State	MN Zip 55802	State	MN Zip 55807	State	MN Zip 55414
Phone	NONE	Phone	(218) 529-7138	Phone	(612)607-6382

Info

Project Name	49161528.00 200 205 Superior Terminal GMP	**Due Date**	06/04/2021	**Profile**	38604, line 6	**Quote**	00086549, 00086506
Project Manager	Albrecht, Amanda	**Return Date**		**Carrier**	Pace Courier	**Location**	MN

Trip Blanks

- [ ] Include Trip Blanks

Bottle Labels

- [ ] Blank
- [X] Pre-Printed No Sample IDs
- [ ] Pre-Printed With Sample IDs

Bottles

- [ ] Boxed Cases
- [ ] Individually Wrapped
- [X] Grouped By Sample ID/Matrix

Return Shipping Labels

- [ ] No Shipper
- [ ] With Shipper

COC Options

- [ ] Number of Blanks
- [ ] Pre-Printed

Misc

- [ ] Sampling Instructions
- [X] Custody Seal
- [X] Temp. Blanks
- [X] Coolers
- [ ] Syringes
- [ ] Extra Bubble Wrap
- [X] Short Hold/Rush Stickers
- [ ] DI Water Liter(s)
- [ ] USDA Regulated Soils

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
1	WT	9223B Colilert (Presence/Absence)	120mL Sterile Coliform Sodium Thiosulfate	1	0	1-036-003	Short Hold - Pace Duluth
1	WT	9223B QT (MPN Total Coliform & E. coli)	120mL Sterile Coliform Sodium Thiosulfate	1	0	1-036-003	Short Hold - Pace Duluth

WO# : 10564297

PM: AA1 **Due Date: 06/23/21**

CLIENT: BARR

Hazard Shipping Placard In Place : YES

*Sample receiving hours are Mon-Fri 7:30am-7:00pm and Sat 9:00am-1:00pm unless special arrangements are made with your project manager.

*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to insure proper billing.

LAB USE:

Ship Date :	06/04/2021
Prepared By:	SV
Verified By:	SV

Sample

CLIENT USE (Optional):

Date Rec'd:	
Received By:	
Verified By:	

Attachment B

Private Well PW-2 Photos

Private Well PW-2 photos taken on June 9, 2021

Enbridge Superior Terminal, Superior, WI

Photo 1: Private Well PW-2, photo facing west.

Photo 2: Gap between PW-2 well casing and cover.