REI
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

June 6, 2023

Wisconsin Department of Natural Resources
Attn: Ms. Josie Schultz
2984 Shawano Avenue
Green Bay, WI 54313

Subject:

Former V&L Stripping
Construction Documentation Report & Update
864 Mather Street
Green Bay, WI 54303
BRRTS #02-05-216722

Dear Josie:

This letter summarizes the hotspot area excavation of Chlorinated Volatile Organic Compound (CVOC) impacted soil at the V&L Stripping site. It also documents the third round of off-site vapor sampling using passive cannisters, and one (1) additional round of groundwater sampling.

The site location is shown on Figure 1. The site layout and monitoring well network is shown on Figure 2.

The September 28, 2022 Vapor Sampling Update report summarized the results of two (2) rounds of off-site vapor sampling at 714 Lincoln Street and 856 Mather Street. It also summarized sewer gas sampling, and the results of confirmation soil sampling. Following review by the Department, a meeting was held between DNR personnel, owner/RP Ken Juza and REI Engineering, Inc. (REI). The department concluded that the following additional work was required to bring the site to closure:

- Source removal in the area of highest residual soil contamination
- Sampling groundwater for PFAS
- An additional round of off-site vapor sampling using passive/long term cannisters
- Two (2) additional rounds of groundwater sampling following source removal

Source Removal

The area identified as having the highest levels of CVOC contamination in soil was near the northeast corner of the former V&L Stripping building. Borings installed during the initial investigation in 2002 at B1400, and confirmation borings installed by REI in 2021 at CGP1 contained 124,000 ug/kg and 198,000 ug/kg Tetrachloroethylene (PCE) respectively. Toxicity Characteristic Leaching Procedure (TCLP) analysis of CGP1, 4-6 feet was 862 ug/L TCLP. Based on this analysis, this material was not acceptable for landfill disposal. Historical soil data is shown on Tables 1a-1b.

The proposed solution was treatment of soils on site to below acceptable TCLP values. REI partnered with Regenesis to provide a chemical oxidation reagent to treat the soils on site. Based on calculations, Regenesis recommended 771.4 pounds of PersulfOx® and 450 pounds of lime be added to approximately fifty (50) cubic yards of soil. Waste Management provided two (2) lined roll-off dumpsters for mixing, and storage during treatment. The Remedial Action Plan was submitted on April 4, 2023.

On April 11, 2023, REI was on site to oversee the excavation of the hotspot source area. Excavation proceeded to the water table at approximately seven (7) feet below land surface (bls). The horizontal limits of excavation were determined based on field screening but were limited by the building foundation to the south, the property boundary to the east, and a large tree to the west. The completed excavation was approximately ten (10) feet wide east to west and twenty (20) feet long north to south. The area of excavation is shown on Figure 3.

Confirmation soil samples were collected from the sidewalls of the excavation at a depth of five (5) feet bls. Samples SWE, and SWN, collected from the eastern and northern sidewalls, were non-detect for all VOCs. Sample SWS, collected from the southern sidewall, approximately four (4) feet from the building foundation, contained 1,580 ug/kg PCE. Sample SWW, from the western sidewall and adjacent to the large tree, contained 11,800 ug/kg PCE. The results are summarized on Table 1c. The complete analytical report is in Attachment A. Photographs are in Attachment B.

Soils were mixed with PersolfOx® and lime as they were excavated in accordance with Regenesis specifications. The excavation was backfilled with clean pit-run sand, compacted, covered with topsoil and seeded. The roll-off boxes were covered and monitored periodically by the RP/owner. The soil was allowed to treat with reagent for a period of approximately thirty (30) days. Samples were collected from each roll-off box on May 9, 2023 and analyzed for Volatile Organic Compounds (VOCs) and TCLP PCE. Samples RO1-EW and RO2-E contained 196 ug/kg and 136 ug/kg PCE respectively. Boths samples were non-detect for TCLP-PCE. Both samples also contained methylene chloride between the MDL and LOQ, which are assumed to be related to laboratory contamination. The results are summarized on Table 1c. The complete analytical reports are in Attachment B.

The soil was approved for disposal at Waste Management Ridgeview Landfill on May 18, 2023. On May 22 and 24, the roll-off boxes were transported for disposal. A total of 21.81 tons of soil was landfilled by Waste Management. Disposal documentation is in Attachment C.

PFAS Sampling

Monitoring well MW800 has historically shown the highest levels of CVOCs in groundwater. Due to the limited historical knowledge of the site prior to the current development, the actual "source area" is unknown. This well was sampled for PFAS on March 9, 2023 using low-flow sampling. The sample was non-detect for all PFAS compounds excepting very low-level (6.2 ng/L) Perfluoro-n-butanoic acid (PFBA) which was reported at a laboratory estimated value between the Method Detection Limit (MDL) and Limit of Quantification (LOQ). Historical groundwater data is summarized on Tables 2a-2r, PFAS results at MW800 are on Table 2k-2. The complete laboratory analytical report is in Attachment A.

Additional Off-Site Vapor Sampling

Previous off-site vapor sampling was conducted on April 14, and August 22, 2022. An additional sub-slab sample was collected from 714 Lincoln Street and 856 Mather Street on March 2, 2023. Additional ambient air sampling was conducted at each of these locations beginning March 2, 2023, and ending March 9, 2023. Samples were collected using 6 liter summa cans with a 7 day flow controller.

Sub-slab and ambient air testing results are included in Tables 4a and 4b. The results were below the Vapor Risk Screening Level for residential properties for all three (3) rounds. The complete analytical reports are in Attachment A. Photographs are included in Attachment B.

Groundwater

One (1) additional round of groundwater sampling was conducted on May 9, 2023. Levels of PCE and Trichloroethylene (TCE) have decreased significantly since the CAP 18 injection in June 2019 with an initial spike in daughter compounds. Since that time, levels of cis & trans 1,2 Dichloroethylene, and vinyl chloride have shown a general decline. The results of groundwater sampling are summarized on Tables 2a-2r. The complete analytical report is in Attachment B. Groundwater flow has remained consistent to the south/southwest as shown on Figure 4. Figures 5a and 5b depict the approximate dimensions of the groundwater contaminant plume. A graphical depiction of contaminant concentration versus groundwater elevation and time is shown on Figures 6a-6h. Historic groundwater elevations are on Table 3.

Conclusion and Recommendations

The highest levels of soil contamination have been removed from the site. Sampling has demonstrated that contamination from V&L Stripping does not pose a vapor intrusion risk. The groundwater contaminant plume is stable or receding in size and concentration. The on-site building is protected from vapor intrusion via the vapor mitigation system installed. An amended Operation and Maintenance Plan will be submitted in accordance with the Departments comments.

Based on the results of additional sampling, and discussions with the Department, REI recommends that one (1) additional round of groundwater samples be conduced in August 2023 followed by closure submittal.

Thank you for your assistance with this project. Please contact me to discuss further at (715) 675-9784 or email me at Adelforge@REIengineering.com.

Sincerely,
REI Engineering, Inc.

Andrew R. Delforge, P.G.
Senior Hydrogeologist/Project Manager

CC: Ken Juza, 1478 Norfield Road, Suamico, WI 54173

Enclosures

TABLE 1a
INVESTIGATIVE VOC SOIL ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

Date-->				***8/26/98***	***8/26/98***	***8/26/98***	***8/25/98***	***10/10/02***	***10/10/02***	***10/10/02***	***10/10/02***	***10/10/02***	***10/10/02***	***10/10/02***	***10/10/02***	***10/10/02***	***10/10/02***	***11/19/02***	***11/19/02***
Boring-->				***B100***	***B200***	***B300***	***B400***	***B500***	***B600***	***B700***	***B800***	***B900***	***B1000***	***B1100***	***B1200***	***B1300***	***B1400***	***B1500***	***B1600***	***B1800***
Sample Depth--(Feet)>				***2.5-4.5***	***2.5-4.5***	***2.5-4.5***	***2.5-4.5***	***2-4***	***2-4***	***0-2***	***02-***	***2-4***	***0-2***	***2-4***	***4-6***	***2-4***	***0-2***	***0-2***	***4-6***	***4-6***
Sampler -->				***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***
Chlorinated VOC's (ug/kg)	NR 605.08	NTEDC	GW																	
cis-1,2-Dichloroethylene	NS	156,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<20,800	<25	<5,000	<25
trans-1,2-Dichloroethylene	NS	1,560,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<20,800	<25	<5,000	<25
Tetrachloroethene	NS	30,700	4.50	**29**	**190**	<25	<25	**13,300**	**452**	**2,040**	**469**	**9,090**	**63**	**71**	**220**	<25	**124,000**	<25	**48,100**	<25
Trichloroethene	NS	1,260	3.6	<25	<25	<25	<25	<25	<25	<25	<25	**37.4**	<25	<25	<25	<25	<20,800	<25	<5,000	<25
Vinyl Chloride	NS	67	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<20,800	<25	<5,000	<25
TCLP Tetraclorothene (ug/L)	700	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Date-->				***11/19/02***	***11/19/02***	***11/19/02***	***11/19/02***	***11/19/02***	***3/21/03***	***3/21/03***	***3/21/03***	***3/21/03***	***3/21/03***	***3/21/03***	***3/21/03***	***3/21/03***	***3/21/03***	***3/21/03***
Boring-->				***B1900***	***B2000***	***B2100***	***B2200***	***B2300***	***B2400***	***B2500***	***B2600***	***B2700***	***B2800***	***B2900***	***B3000***	***B3100***	***B3300***	***B3400***	***B3500***
Sample Depth--(Feet)>				***4-6***	***2.5-4.5***	***2.5-4.5***	***0-2***	***0-2***	***2-4***	***0-2***	***2-4***	***4-6***	***0-2***	***4-6***	***0-2***	***4-6***	***2-4***	***2-4***	***2-4***
Sampler -->				***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***	***Northern***
Chlorinated VOC's (ug/kg)	NR 605.08	NTEDC	GW																
cis-1,2-Dichloroethylene	NS	156,000	41.2	<2,080	<25	<25	<25	<25	NA	<25	<25	NA	NA	NA	<25	<25	<25	<25	<25
trans-1,2-Dichloroethylene	NS	1,560,000	58.8	<2,080	<25	<25	<25	<25	NA	<25	<25	NA	NA	NA	<25	<25	<25	<25	<25
Tetrachloroethene	NS	30,700	4.50	**25,900**	<25	<25	**51.6**	**131**	NA	<25	<25	NA	NA	NA	**32.8**	<25	<25	<25	<25
Trichloroethene	NS	1,260	3.6	<2,080	<25	<25	<25	<25	NA	<25	<25	NA	NA	NA	<25	<25	<25	<25	<25
Vinyl Chloride	NS	67	0.1	<2,080	<25	<25	<25	<25	NA	<25	<25	NA	NA	NA	<25	<25	<25	<25	<25
TCLP Tetraclorothene (ug/L)	700	NS	NS	NA	NA	NA	NA	NA	322	NA	NA	19	*1,530*	*1,850*	NA	NA	NA	NA	NA

Notes:

NR 605.08 - TCLP Regulatory Limit
NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)
GW - RCL Protective of Groundwater Quality
< - Concentration below listed laboratory detection limit
TCLP Exceedances are italic *Italic*
GW RCL exceedences are bold **Bold**
NTEDC RCL exceedances are outlined in bold **Bold**
NS - No Standard
NA - Not Analyzed
j - Estimated Value between detection limit and quantification limit

TABLE 1b
CONFIRMATION VOC SOIL ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			Date-->	***10/26/21***	***10/26/21***	***10/26/21***	***10/26/21***	***10/26/21***
			Boring-->	***CGP1***	***CGP2***	***CGP3***	***CGP4***	***CGP5***
			Sample Depth--(Feet)>	***4-6***	***4-6***	***4-6***	***2-4***	***2-4***
Petroleum VOC's (ug/kg)	NR 605.08	NTEDC	GW					
Benzene	-	1,490	5.1	<63.3	<17.1	<14.2	<17.3	<13.2
Bromobenzene	-	354,000	NS	<104	<28.0	<23.2	<28.4	<21.7
Bromochloromethane	-	232,000	NS	<72.8	<19.7	<16.3	<19.9	<15.2
Bromodichloromethane	-	390	0.3	<63.3	<17.1	<14.2	<17.3	<13.2
Bromoform	-	61,500	2.3	<1170	<316	<262	<320	<244
Bromomethane	-	10,300	5.1	<373	<101	<83.4	<102	<77.8
n-Butylbenzene	-	108,000	NS	<122	<32.9	<27.2	<33.3	<25.4
sec-Butylbenzene	-	145,000	NS	<64.9	<17.5	<14.5	<17.8	<13.5
tert-Butylbenzene	-	183,000	NS	<83.5	<22.5	<18.7	<22.9	<17.4
Carbon Tetrachloride	-	854	3.9	<58.5	<15.8	<13.1	<16.0	<12.2
Chlorobenzene	-	392,000	NS	<31.8	<8.6	<7.1	<8.7	<6.7
Chloroethane	-	NS	226.6	<112	<30.3	<25.1	<30.7	<23.4
Chloroform	-	423	3.3	<190	<51.4	<42.6	<52.1	<39.8
Chloromethane	-	171,000	15.5	<101	<27.3	<22.6	<27.7	<21.1
2-Chlorotoluene	-	NS	NS	<86.1	<23.3	<19.3	<23.6	<18.0
4-Chlorotoluene	-	NS	NS	<101	<27.3	<22.6	<27.7	<21.1
1,2 Dibromo-3-chloropropane	-	8	0.2	<206	<55.7	<46.1	<56.5	<43.1
Dibromochloromethane	-	933	32	<909	<245	<203	<249	<190
1,2-Dibromoethane	-	47	0.0282	<72.8	<19.7	<16.3	<19.9	<15.2
Dibromomethane	-	35,000	NS	<78.7	<21.2	<17.6	<21.6	<16.4
1,2-Dichlorobenzene	-	376,000	1,168	<82.4	<22.2	<18.4	<22.6	<17.2
1,3-Dichlorobenzene	-	297,000	1,152.8	<72.8	<19.7	<16.3	<19.9	<15.2
1,4-Dichlorobenzene	-	3,480	144	<72.8	<19.7	<16.3	<19.9	<15.2
Dichlorodifluoromethane	-	135,000	3,086.3	<114	<30.9	<25.6	<31.3	<23.9
1,1-Dichloroethane	-	4,720	482.8	<68.1	<18.4	<15.2	<18.6	<14.2
1,2-Dichloroethane	-	608	2.8	<61.1	<16.5	<13.7	<16.7	<12.8
1,1-Dichloroethylene	-	342,000	5	<88.3	<23.8	<19.7	<24.2	<18.4
cis-1,2-Dichloroethylene	-	156,000	41.2	<56.9	<15.4	<12.7	<15.6	<11.9
trans-1,2-Dichloroethylene	-	1,560,000	58.8	<57.4	<15.5	<12.8	<15.7	<12.0
1,2-Dichloropropane	-	1,330	3.3	<63.3	<17.1	<14.2	<17.3	<13.2
1,3-Dichloropropane	-	1,490,000	NS	<58.0	<15.6	<13.0	<15.9	<12.1
2,2-Dichloropropane	-	527,000	NS	<71.8	<19.4	<16.1	<19.7	<15.0
1,1-Dichloropropylene	-	NS	NS	<86.1	<23.3	<19.3	<23.6	<18.0
cis-1,3-Dichloropropylene	-	1,220,000	NS	<175	<47.4	<39.2	<48.1	<36.6
trans-1,3-Dichloropropylene	-	1,570,000	NS	<760	<205	<170	<208	<159
(di)isopropyl ether	-	2,260,000	NS	<65.9	<17.8	<14.7	<18.1	<13.8
Ethylbenzene	-	7,470	1,570	<63.3	<17.1	<14.2	<17.3	<13.2
Hexachloro (1,3) butadiene	-	6,220	NS	<529	<143	<118	<145	<110
Isopropylbenzene	-	NS	NS	<71.8	<19.4	<16.1	<19.7	<15.0
p-Isopropyltoluene	-	162,000	NS	<80.8	<21.8	<18.1	<22.1	<16.9
Methylene Chloride	-	60,700	2.6	<73.9	<20.0	<16.5	<20.2	<15.4
Methly tert Butyl Ether	-	59,400	27	<78.2	<21.1	<17.5	<21.4	<16.3
Naphthalene	-	5,150	658.2	<82.9	<22.4	<18.6	<22.7	<17.3
n-Propylbenzene	-	NS	NS	<63.8	<17.2	<14.3	<17.5	<13.3
Styrene	-	867,000	220	<68.1	<18.4	<15.2	<18.6	<14.2
1,1,1,2-Tetrachloroethane	-	2,590	53.4	<63.8	<17.2	<14.3	<17.5	<13.3
1,1,2,2-Tetrachloroethane	-	753	0.2	<96.2	<26.0	<21.5	<26.4	<20.1
Tetrachloroethene	-	30,700	4.50	**198,000**	**148**	<23.1	**536**	<21.5
Toluene	-	818,000	1,107.2	<67.0	<18.1	<15.0	<18.3	<14.0
1,2,3-Trichlorobenzene	-	48,900	NS	<296	<79.9	<66.2	<81.1	<61.9
1,2,4-Trichlorobenzene	-	22,000	408	<219	<59.1	<49.0	<60.0	<45.8
1,1,1-Trichloroethane	-	640,000	140.2	<68.1	<18.4	<15.2	<18.6	<14.2
1,1,2-Trichloroethane	-	1,480	3.2	<96.8	<26.1	<21.6	<26.5	<20.2
Trichloroethene	-	1,260	3.6	**373**	<26.8	<22.2	<27.2	<20.8
Trichlorofluoromethane	-	1,120,000	4,475.8	<77.1	<20.8	<17.2	<21.1	<16.1
1,2,3-Trichloropropane	-	5	51.9	<129	<34.9	<28.9	<35.4	<27.0
1,2,4-Trimethylbenzene	-	89,800	1,382.1	<79.2	<21.4	<17.7	<21.7	<16.5
1,3,5-Trimethylbenzene	-	182,000		<85.6	<23.1	<19.1	<23.4	<17.9
Vinyl Chloride	-	67	0.1	<53.7	<14.5	<12.0	<14.7	<11.2
Xylenes (Total)	-	258,000	3,940	<199.8	<51.8	<32.9	<52.5	<40.1
TCLP Tetraclorothene (ug/L)	700	NS	NS	**862**	NA	NA	NA	NA

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

GW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

GW RCL exceedences are bold **Bold**

NTEDC RCL exceedances are outlined in bold **Bold**

NS - No Standard

NA - Not Analyzed

j - Estimated Value between detection limit and quantification limit

TABLE 1c
EXCAVATION CONFIRMATION VOC SOIL ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			Date-->	***4/11/23***	***4/11/23***	***4/11/23***	***4/11/23***	***5/9/23***	***5/9/23***
			Boring-->	***SWN***	***SWW***	***SWS***	***SWE***	***RO1-W****	***RO2-E****
			Sample Depth--(Feet)>	***5***	***5***	***5***	***5***	***-***	***-***
Petroleum VOC's (ug/kg)	NR 605.08	NTEDC	GW						
Benzene	-	1,490	5.1	<16.5	<39.1	<16.2	<17.7	<12.2	<15.8
Bromobenzene	-	354,000	NS	<27.0	<64.0	<26.6	<29.0	<20.1	<25.9
Bromochloromethane	-	232,000	NS	<18.9	<45.0	<18.7	<20.4	<14.1	<18.2
Bromodichloromethane	-	390	0.3	<16.5	<39.1	<16.2	<17.7	<12.2	<15.8
Bromoform	-	61,500	2.3	<304	<722	<300	<328	<226	<292
Bromomethane	-	10,300	5.1	<96.9	<230	<95.7	<104	<72.1	<93.0
n-Butylbenzene	-	108,000	NS	<31.7	<75.2	<31.3	<34.1	<23.6	<30.4
sec-Butylbenzene	-	145,000	NS	<16.9	<40.0	<16.7	<18.2	<12.5	<16.2
tert-Butylbenzene	-	183,000	NS	<21.7	<51.5	<21.4	<23.4	<16.1	<20.8
Carbon Tetrachloride	-	854	3.9	<15.2	<36.1	<15.0	<16.4	<11.3	<14.6
Chlorobenzene	-	392,000	NS	<8.3	<19.7	<8.2	<8.9	<6.2	<8.0
Chloroethane	-	NS	226.6	<29.2	<69.3	<28.8	<31.4	<21.7	<28.0
Chloroform	-	423	3.3	<49.5	<117	<48.9	<53.3	<36.8	<47.5
Chloromethane	-	171,000	15.5	<26.3	<62.4	<25.9	<28.3	<19.5	<25.2
2-Chlorotoluene	-	NS	NS	<22.4	<53.2	<22.1	<24.1	<16.7	<21.5
4-Chlorotoluene	-	NS	NS	<26.3	<62.4	<25.9	<28.3	<19.5	<25.2
1,2 Dibromo-3-chloropropane	-	8	0.2	<53.6	<127	<53.0	<57.8	<39.9	<51.5
Dibromochloromethane	-	933	32	<236	<561	<233	<254	<176	<227
1,2-Dibromoethane	-	47	0.0282	<18.9	<45.0	<18.7	<20.4	<14.1	<18.2
Dibromomethane	-	35,000	NS	<20.5	<48.6	<20.2	<22.0	<15.2	<19.6
1,2-Dichlorobenzene	-	376,000	1,168	<21.4	<50.9	<21.2	<23.1	<15.9	<20.6
1,3-Dichlorobenzene	-	297,000	1,152.8	<18.9	<45.0	<18.7	<20.4	<14.1	<18.2
1,4-Dichlorobenzene	-	3,480	144	<18.9	<45.0	<18.7	<20.4	<14.1	<18.2
Dichlorodifluoromethane	-	135,000	3,086.3	<29.7	<70.6	<29.3	<32.0	<22.1	<28.5
1,1-Dichloroethane	-	4,720	482.8	<17.7	<42.0	<17.5	<19.1	<13.2	<17.0
1,2-Dichloroethane	-	608	2.8	<15.9	<37.7	<15.7	<17.1	<11.8	<15.3
1,1-Dichloroethylene	-	342,000	5	<22.9	<54.5	<22.7	<24.7	<17.1	<22.0
cis-1,2-Dichloroethylene	-	156,000	41.2	<14.8	<35.1	<14.6	<15.9	<11.0	<14.2
trans-1,2-Dichloroethylene	-	1,560,000	58.8	<14.9	<35.4	<14.7	<16.1	<11.1	<14.3
1,2-Dichloropropane	-	1,330	3.3	<16.5	<39.1	<16.2	<17.7	<12.2	<15.8
1,3-Dichloropropane	-	1,490,000	NS	<15.1	<35.8	<14.9	<16.2	<11.2	<14.5
2,2-Dichloropropane	-	527,000	NS	<18.7	<44.3	<18.4	<20.1	<13.9	<17.9
1,1-Dichloropropylene	-	NS	NS	<22.4	<53.2	<22.1	<24.1	<16.7	<21.5
cis-1,3-Dichloropropylene	-	1,220,000	NS	<45.6	<108	<45.0	<49.1	<33.9	<43.8
trans-1,3-Dichloropropylene	-	1,570,000	NS	<198	<469	<195	<213	<147	<190
(di)isopropyl ether	-	2,260,000	NS	<17.1	<40.7	<16.9	<18.5	<12.8	<16.5
Ethylbenzene	-	7,470	1,570	<16.5	<39.1	<16.2	<17.7	<12.2	<15.8
Hexachloro (1,3) butadiene	-	6,220	NS	<137.0	<326	<136	<148	<102	<132.0
Isopropylbenzene	-	NS	NS	<18.7	<44.3	<18.4	<20.1	<13.9	<17.9
p-Isopropyltoluene	-	162,000	NS	<21.0	<49.9	<20.7	<22.6	<15.6	<20.2
Methylene Chloride	-	60,700	2.6	<19.2	<45.6	<19.0	<20.7	**23.6j**	**24.0j**
Methly tert Butyl Ether	-	59,400	27	<20.3	<48.2	<20.1	<21.9	<15.1	<19.5
Naphthalene	-	5,150	658.2	<21.6	<51.2	<21.3	<23.2	<16.0	<20.7
n-Propylbenzene	-	NS	NS	<16.6	<39.4	<16.4	<17.9	<12.3	<15.9
Styrene	-	867,000	220	<17.7	<42.0	<17.5	<19.1	<13.2	<17.0
1,1,1,2-Tetrachloroethane	-	2,590	53.4	<16.6	<39.4	<16.4	<17.9	<12.3	<15.9
1,1,2,2-Tetrachloroethane	-	753	0.2	<25.0	<59.4	<24.7	<27.0	<18.6	<24.0
Tetrachloroethene	-	30,700	4.50	<26.8	**11,800**	**1,580**	<28.9	**196**	**136**
Toluene	-	818,000	1,107.2	<17.4	<41.4	<17.2	<18.8	<13.0	<16.7
1,2,3-Trichlorobenzene	-	48,900	NS	<77.0	<183	<76.0	<82.9	<57.3	<73.9
1,2,4-Trichlorobenzene	-	22,000	408	<57.0	<135	<56.2	<61.3	<42.4	<54.7
1,1,1-Trichloroethane	-	640,000	140.2	<17.7	<42.0	<17.5	<19.1	<13.2	<17.0
1,1,2-Trichloroethane	-	1,480	3.2	<25.2	<59.7	<24.8	<27.1	<18.7	<24.2
Trichloroethene	-	1,260	3.6	<25.9	<61.4	<25.5	<27.8	<19.2	<24.8
Trichlorofluoromethane	-	1,120,000	4,475.8	<20.0	<47.6	<19.8	<21.6	<14.9	<19.2
1,2,3-Trichloropropane	-	5	51.9	<33.6	<79.8	<33.2	<36.2	<25.0	<32.3
1,2,4-Trimethylbenzene	-	89,800	1,382.1	<20.6	<48.9	<20.3	<22.2	<15.3	<19.8
1,3,5-Trimethylbenzene	-	182,000		<22.3	<52.8	<22.0	<24.0	<16.6	<21.4
Vinyl Chloride	-	67	0.1	<14.0	<33.1	<13.8	<15.0	<10.4	<13.4
Xylenes (Total)	-	258,000	3,940	<49.9	<118.5	<49.3	<53.7	<37.1	<47.9
TCLP Tetraclorothene (ug/L)	700	NS	NS	NA	NA	NA	NA	<4.1	<4.1

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

GW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

GW RCL exceedences are bold **Bold**

NTEDC RCL exceedances are outlined in bold **Bold**

NS - No Standard

NA - Not Analyzed

j - Estimated Value between detection limit and quantification limit

* - RO1-W & RO2-E represent excavated soils following treatment

TABLE 2a
MW100 GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			MW100																		
PARAMETER	**ES**	**PAL**	***8/31/98***	***3/23/00***	***5/21/01***	***12/4/02***	***8/16/07***	***4/10/08***	***5/12/19***	***6/8/10***	***9/28/10***	***10/30/18***	***Cap 18 Injection - 6/19-6/20/19***	***10/28/19***	***2/5/20***	***5/13/20***	***9/3/20***	***8/31/20***	***11/17/21***	***3/29/22***	***Hotspot Excavation 4/11/23***	***5/9/23***
Detected VOC's (ug/L)																						
Acetone	9	1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	<864	<432	<432		<432
Benzene	5	0.5	<32	<10	<38	<77.5	<16	<20.5	<16.4	<32	<20	<12.3		<12.3	<24.6	<24.6	<24.6	<29.5	<14.8	<14.8		<14.8
2-Butanone (MEK)	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	<652	<326	<326		<326
Ethylbenzene	700	140	NDA	NDA	NDA	<125	<22	<27	<21.6	<80	<50	<10.9		<10.9	<21.8	<31.9	<31.9	<32.5	<16.3	<16.3		<16.3
Naphthalene	100	10	NDA	NDA	NDA	<200	<30	<37	<35.6	*75*	<25	<58.8		<58.8	<118	<118	<118	<113	<56.5	<56.5		<56.5
Methyl-tert-Butyl Ether	60	12	NDA	NDA	NDA	<75	<24	<30.5	<24.4	<80	<50	<62.3		<62.3	<125	<125	<125	<113	<56.5	<56.5		<56.5
Toluene	800	160	<35	<10	<26	<75	<27	<33.5	<26.8	<80	<50	<8.6		<8.6	<17.2	<26.9	<26.9	<28.8	<14.4	<14.4		<14.4
cis-1,2-Dichloroethene	70	7	**200**	**230**	**400**	**285**	**3,300**	**1,530**	**2,200**	**8,200**	**1,400**	**1,500**		**11,900**	**13,600**	**5,470**	**10,300**	**4,100**	**3,120**	**2,820**		**2,010**
trans-1,2-Dichloroethene	100	20	<38	<25	<70	<97.5	**800**	**403**	**574**	**1,900**	**490**	**654**		**734**	**601**	**667**	**537**	**435**	**501**	**358**		**396**
Vinyl Chloride	0.2	0.02	<15	<25	<38	<50	<7.2	<9.0	<7.2	<32	<20	<8.7		**46.9j**	**64.2**	<17.5	**44.2j**	**19.7j**	**29.8j**	**25.2j**		**174.0**
Tetrachloroethene	5	0.5	**10,000**	**10,000**	**26,000**	**4,930**	**1,300**	**5,410**	**3,170**	**440**	**5,900**	**6,580**		**421**	**95.2j**	<32.6	**96.8j**	<40.9	<14.4	**36.4j**		<20.4
Trichloroethene	5	0.5	**3,800**	**2,300**	**8,200**	**1,050**	**5,800**	**3,640**	**3,200**	**3,200**	**1,900**	**4,150**		**319**	**298**	<25.5	**103**	<32.0	**16.8j**	**20.5j**		**16.0j**
Total Trimethylbenzenes	480	96	NDA	NDA	NDA	<177.5	<72	<90	<72	<64	<40	<85.7		<85.7	<171.4	<171.4	<171.4	<80.6	<40.3	40		<40.3
Total Xylenes	2,000	400	NDA	NDA	NDA	<230	<105	<131.5	<72	<80	<50	<36.4		<36.4	<72.7	<72.7	<72.7	<104.8	<52.4	52.4		<52.4
Geochemical Indicator Parameters																						
Ferrous Iron (mg/L)			NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.028		1.7	16.6	4.6	6.3	0.69j	0.3	40.8		NA
Nitrate-Nitrogen (mg/L)			NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.38		<0.075	<0.22	<0.22	<0.22	<0.22	NA	NA		NA
Chloride (mg/L)			NA	NA	NA	NA	NA	NA	NA	NA	NA	64.8		63.6	60.2	48.1	56.0	47.1	NA	46.7		NA
Sulfate (mg/L)			NA	NA	NA	NA	NA	NA	NA	NA	NA	49.9		4.9	<2.2	2.7j	2.7j	<2.2	NA	16.8		NA
Manganese (mg/L)			NA	NA	NA	NA	NA	NA	NA	NA	NA	0.350		0.125	0.457	0.350	0.365	0.483	0.435	0.557		NA
Dissolved Manganese (mg/L)			NA	NA	NA	NA	NA	NA	NA	0.34	0.32	NA		NA	NA	NA	NA	NA	NA	NA		NA
Total Alkalinity ($AaCO_3$)			NA	NA	NA	NA	NA	NA	NA	370	280	NA		NA	NA	NA	NA	NA	NA	NA		NA
Dissolved Nitrate/Nitrite (mg/L)			NA	NA	NA	NA	NA	NA	NA	2.2	0.4	NA		NA	NA	NA	NA	NA	NA	NA		NA
Dissolved Sulfate (mg/L)			NA	NA	NA	NA	NA	NA	NA	47	42	NA		NA	NA	NA	NA	NA	NA	NA		NA
Total Organic Carbon (mg/L)			NA	NA	NA	NA	NA	NA	NA	6.00	6.23	7.4		90.5	84.7	47.6	47.6	47.6	12.9	22.3		NA
Dissolved Ethane (ug/L)			NA	NA	NA	NA	NA	NA	NA	<14	<14	<0.58		2.3j	<1.2	<1.2	<1.2	<0.39	<0.39	<0.39		NA
Dissolved Ethene (ug/L)			NA	NA	NA	NA	NA	NA	NA	<11	<11	<0.52		<1.2	1.5j	2.5j	1.6j	<0.25	<0.25	<0.25		NA
Dissolved Methane (ug/L)			NA	NA	NA	NA	NA	NA	NA	3,150	471	770		800	2,210	11,100	9,370	3,300	5,230	4,400		NA
Field Parameters																						
Temperature (^{o}F)			NA	NA	NA	NA	NA	NA	NA	59.79	69.49	63.40		NA*	NA*	54.70	66.1	64.1	59.9	45.4		50.3
Conductivity (ms/cm)			NA	NA	NA	NA	NA	NA	NA	848	891	958		NA*	NA*	921	1,116	1,208	1,439	1,357		1,239
Dissolved Oxygen (mg/L)			NA	NA	NA	NA	NA	NA	NA	0.30	0.43	7.03		NA*	NA*	1.29	0.86	2.69	1.40	2.80		0.14
pH			NA	NA	NA	NA	NA	NA	NA	7.10	7.01	7.08		NA*	NA*	6.80	6.79	6.86	7.35	7.10		5.96
Redox Potential (mV)			NA	NA	NA	NA	NA	NA	NA	-47	-10.4	-90.6		NA*	NA*	-91.90	-106.70	-13.8	87.4	114.1		-36.9

NDA = No Data Available, laboratory reports not provided
PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit
j - Estimated Value between detection limit and quantification limit
*NA - Field Measurements not collected, CAP 18 Oil in well

TABLE 2b
MW200 GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			MW200																		
PARAMETER	**ES**	**PAL**	***8/31/98***	***3/23/00***	***5/21/01***	***12/4/02***	***8/16/07***	***4/10/08***	***5/12/09***	***6/8/10***	***9/28/10***	***10/30/18***		***10/28/19***	***2/5/20***	***5/13/20***	***9/3/20***	***8/31/21***	***11/17/21***	***3/29/22***		***5/9/23***
Detected VOC's (ug/L)																						
Acetone	9	1.8	NA	NA	NA	NA		NA	NA	NA	NA			NA	NA	NA	NA	<17.3	<43.2	<43.2		<43.2
Benzene	5	0.5	1.4	<1.0	<1.4	<31		<16.4	<10.2	<8	<5			<0.25	<0.25	<0.25	<2.5	<0.59	<1.5	<1.5		<1.5
2-Butanone (MEK)	4	0.4	NA	NA	NA	NA		NA	NA	NA	NA			NA	NA	NA	NA	<13.0	<32.6	<32.6		<32.6
Ethylbenzene	700	140	NDA	NDA	NDA	<50		<21.6	<13.5	<20	<13			<0.22	<0.22	<0.32	<3.2	<0.65	<1.6	<1.6		<1.6
Naphthalene	100	10	NDA	NDA	NDA	<80		<29.6	<22.2	<10	<6.3			<1.2	<1.2	<1.2	<11.8	<2.3	<5.6	<5.6		<5.6
Methyl-tert-Butyl Ether	60	12	NDA	NDA	NDA	<30		<24.4	<15.2	<20	<13			<1.2	<1.2	<1.2	<12.5	<2.3	<5.6	<5.6		<5.6
Toluene	800	160	<0.35	<1.0	<0.65	<30		<26.8	<16.8	<20	<13			<0.17	<0.17	<0.27	<2.7	<0.58	<1.4	<1.4		<1.4
1,1-Dichloroethene	7	0.7	<0.27	<0.27	<0.27	<0.27		<0.27	<0.27	<0.27	<0.27			0.36j	0.60j	<0.24	<2.4	<1.2	<2.9	<2.9		<2.9
cis-1,2-Dichloroethene	70	7	**310**	**270**	**210**	**188**		**78.7**	*35.4*	**420**	**330**			**117**	**437**	**90.0**	**512**	**239**	**456**	**258**		*48.8*
trans-1,2-Dichloroethene	100	20	*93*	**330**	**450**	**171**		**116**	*41.3*	**590**	**360**			*64.9*	**460**	*58.9*	**670**	**334**	**688**	**519**		**288**
Vinyl Chloride	0.2	0.02	<1.5	<2.5	**1.3j**	<20		<7.2	<4.5	<8	<5			**0.22j**	**1.8**	**0.32j**	**22.9**	**14.5**	**32.0**	**44.1**		**146.0**
Tetrachloroethene	5	0.5	**140**	**8.9**	**200**	**233**		**4,100**	**2,370**	**350**	**130**			<0.33	<0.33	<0.33	<3.3	*0.99j*	<2.0	<2.0		<2.0
Trichloroethene	5	0.5	**520**	**170**	**210**	**89**		**1,660**	**590**	**1,900**	**1,500**			*3.9*	*1.3*	**5.3**	<2.6	<0.64	<1.6	<1.6		<1.6
Total Trimethylbenzenes	480	96	NDA	NDA	NDA	<71		<72	<45	<16	<10			<1.71	<1.71	<1.71	<1.71	<1.61	<4	<4		<4
Total Xylenes	2,000	400	NDA	NDA	NDA	<92		<105.2	<45	<20	<13			<0.73	<0.73	<0.73	<0.73	<2.14	<5.2	<5.2		<5.2
Geochemical Indicator Parameters																						
Ferrous Iron (mg/L)			NA	NA	NA	NA		NA	NA	NA	NA			<0.028	<0.021	<0.021	NA*	0.70	0.18	0.85	0.85	NA
Nitrate-Nitrogen (mg/L)			NA	NA	NA	NA		NA	NA	NA	NA			<0.075	<0.22	<0.044	NA*	<0.22	<0.22	NA	NA	NA
Chloride (mg/L)			NA	NA	NA	NA		NA	NA	NA	NA			49.7	75.3	19.7	NA*	63.0	71.8	78.2	78.2	NA
Sulfate (mg/L)			NA	NA	NA	NA		NA	NA	NA	NA			2.7j	2.5j	<0.44	NA*	<2.2	3.2j	13.5	13.5	NA
Manganese (mg/L)			NA	NA	NA	NA		NA	NA	NA	NA			0.125	0.331	0.169	NA*	0.312	0.845	0.543	0.543	NA
Dissolved Manganese (mg/L)			NA	NA	NA	NA		NA	NA	0.19	0.16			NA	NA	NA	NA*	NA	NA	NA	NA	NA
Total Alkalinity ($AaCO_3$)			NA	NA	NA	NA		NA	NA	430	310			NA	NA	NA	NA*	NA	NA	NA	NA	NA
Dissolved Nitrate/Nitrite (mg/L)			NA	NA	NA	NA		NA	NA	<0.024	<0.024			NA	NA	NA	NA*	NA	NA	NA	NA	NA
Dissolved Sulfate (mg/L)			NA	NA	NA	NA		NA	NA	56	29			NA	NA	NA	NA*	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L)			NA	NA	NA	NA		NA	NA	20.80	12.30			10.0	49.1	23.5	NA*	6.6	9.4	9.4	9.4	NA
Dissolved Ethane (ug/L)			NA	NA	NA	NA		NA	NA	<14	<14			<1.2	<1.2	<1.2	NA*	<0.39	<0.39	<0.39	<0.39	NA
Dissolved Ethene (ug/L)			NA	NA	NA	NA		NA	NA	<11	<11			<1.2	<1.2	<1.2	NA*	<0.25	<0.25	8.1	8.1	NA
Dissolved Methane (ug/L)			NA	NA	NA	NA		NA	NA	40	41.3			207	2,470	4,870	NA*	5,720	5,720	8,630	8,630	NA
Field Parameters																						
Temperature (^oF)			NA	NA	NA	NA		NA	NA	56.93	58.77			58.6	41.3	41.3	65.5	67.6	58.3	43.6	43.6	53.2
Conductivity (ms/cm)			NA	NA	NA	NA		NA	NA	977	788			714	826	826	1,799	1,675	2,201	2,035	2,035	1,923
Dissolved Oxygen (mg/L)			NA	NA	NA	NA		NA	NA	0.59	0.45			0.38	1.26	1.26	0.99	1.37	1.97	1.78	1.78	2.70
pH			NA	NA	NA	NA		NA	NA	6.99	6.84			7.12	7.19	7.19	6.80	6.74	7.27	6.89	6.89	6.48
Redox Potential (mV)			NA	NA	NA	NA		NA	NA	-285	-264.0			-134.5	-68.1	-68.1	-100.5	-82.2	-86.6	-99.9	-99.9	-47.3

Dry

Cap 18 Injection - 6/19-6/20/19

Hotspot Excavation 4/11/23

NDA = No Data Available, laboratory reports not provided
PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit
j - Estimated Value between detection limit and quantification limit
*MW200 did not contain enough water to analyze for inorganics on 9/3/20

TABLE 2c
MW300 GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			MW300																
PARAMETER	**ES**	**PAL**	***8/31/98***	***3/23/00***	***5/21/01***	***12/4/02***	***8/16/07***	***4/10/08***	***5/12/09***	***6/8/10***	***9/28/10***	***10/30/18***	***Cap 18 Injection - 6/19-6/20/19***	***10/28/19***	***2/5/20***	***5/13/20****	***9/3/20****	***Hotspot Excavation 4/11/23***	***5/9/23***
Detected VOC's (ug/L)																			
Acetone	9	1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA		44.9j
Benzene	5	0.5	<0.32	<0.10	*0.92*	<0.31	<4.1	<20.5	<10.2	<10	<10	<0.25		Injection Oil in Well, No H2O Present	Injection Oil in Well, No H2O Present	<1.2	<1.2		<1.5
2-Butanone (MEK)	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				NA	NA		**47.0j**
Ethylbenzene	700	140	NDA	NDA	NDA	<0.5	<5.4	<27	<13.5	<25	<25	<0.22				<1.6	<1.6		<1.6
Naphthalene	100	10	NDA	NDA	NDA	<80	<29.6	<29.6	<22.2	<13	<13	<1.2				<5.9	<5.9		<9.6
Methyl-tert-Butyl Ether	60	12	NDA	NDA	NDA	<0.3	<6.1	<30.5	<15.2	<25	<25	<1.2				<6.2	<6.2		<5.6
Toluene	800	160	<0.35	<0.10	0.34	<0.30	<6.7	<33.5	<16.8	<25	<25	<0.17				<1.3	<1.3		<1.4
cis-1,2-Dichloroethene	70	7	**50**	*18*	**36**	**24.4**	**360**	**266**	**520**	**630**	**620**	**461**				**354**	**268**		**280**
trans-1,2-Dichloroethene	100	20	*75*	*18*	*39*	7.13	**670**	**492**	**1,100**	**930**	**790**	**438**				**443**	**371**		**346**
Vinyl Chloride	0.2	0.02	<0.15	<0.25	**0.61**	<0.2	<1.8	<9.0	<4.5	<10	<10	**0.55j**				**29.4**	**21.2**		**17.2**
Tetrachloroethene	5	0.5	*2.4*	**5.2**	<0.85	*2.85*	**1,200**	**5,350**	**1,750**	**2,200**	**2,000**	**8.4**				*3.6j*	**8.8**		**10.5**
Trichloroethene	5	0.5	*2.4*	**12**	*2*	*3.61*	**1,000**	**1,200**	**1,190**	**3,400**	**3,700**	*3.2*				*1.4j*	*1.5j*		<1.6
Total Trimethylbenzenes	480	96	NDA	NDA	NDA	<0.71	<19	<90	<45	<20	<20	<1.71				<8.6	<8.6		<4
Total Xylenes	2,000	400	NDA	NDA	NDA	<0.92	<26.3	<131.5	<45	<25	<25	<0.73				<3.6	<3.6		<5.2
Geochemical Indicator Parameters																			
Ferrous Iron (mg/L)			NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.028				2.2	NA		NA
Nitrate-Nitrogen (mg/L)			NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.38				<0.22	NA		NA
Chloride (mg/L)			NA	NA	NA	NA	NA	NA	NA	NA	NA	57.6				67.7	NA		NA
Sulfate (mg/L)			NA	NA	NA	NA	NA	NA	NA	NA	NA	35.5				<2.2	NA		NA
Manganese (mg/L)			NA	NA	NA	NA	NA	NA	NA	NA	NA	0.217				0.804	NA		NA
Dissolved Manganese (mg/L)			NA	NA	NA	NA	NA	NA	NA	0.19	0.16	NA				NA	NA		NA
Total Alkalinity ($AaCO_3$)			NA	NA	NA	NA	NA	NA	NA	430	310	NA				NA	NA		NA
Dissolved Nitrate/Nitrite (mg/L)			NA	NA	NA	NA	NA	NA	NA	<0.024	<0.024	NA				NA	NA		NA
Dissolved Sulfate (mg/L)			NA	NA	NA	NA	NA	NA	NA	56	29	NA				NA	NA		NA
Total Organic Carbon (mg/L)			NA	NA	NA	NA	NA	NA	NA	20.80	12.30	11.6				494	NA		NA
Dissolved Ethane (ug/L)			NA	NA	NA	NA	NA	NA	NA	<14	<14	<0.58				8.7	<1.2		NA
Dissolved Ethene (ug/L)			NA	NA	NA	NA	NA	NA	NA	<11	<11	<0.52				<1.2	1.9j		NA
Dissolved Methane (ug/L)			NA	NA	NA	NA	NA	NA	NA	40	41.3	4.0				13,700	11,200		NA
Field Parameters																			
Temperature (^oF)			NA	NA	NA	NA	NA	NA	NA	56.93	58.77	61.5				Not	66.3		Not
Conductivity (ms/cm)			NA	NA	NA	NA	NA	NA	NA	977	788	873				Measured	1,616		Measured
Dissolved Oxygen (mg/L)			NA	NA	NA	NA	NA	NA	NA	0.59	0.45	5.69				Oil in	0.31		Oil in
pH			NA	NA	NA	NA	NA	NA	NA	6.99	6.84	6.98				Well	6.14		Well
Redox Potential (mV)			NA	NA	NA	NA	NA	NA	NA	-285	-264.0	-78.7					-31.0		

NDA = No Data Available, laboratory reports not provided
PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit
j - Estimated Value between detection limit and quantification limit
* - CAP 18 Oil present in well, sample collected from groundwater below oil

TABLE 2d
MW400 GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			MW400									
PARAMETER	**ES**	**PAL**	***8/31/98***	***3/23/00***	***5/21/01***	***12/4/02***	***8/16/07***	***4/10/08***	***5/12/09***	***6/8/10***	***9/28/10***	***10/30/18***
Detected VOC's (ug/L)												
Benzene	5	0.5	<0.32	<0.40	*<1.4*	<31	<10	<20.5	<41	<32	<20	Destroyed by Road Resconstruction
Ethylbenzene	700	140	NDA	NDA	NDA	<50	<14	<27	<54	<80	<50	
Naphthalene	100	10	NDA	NDA	NDA	<80	<18	<37	<89	<40	<25	
Methyl-tert-Butyl Ether	60	12	NDA	NDA	NDA	<30	<15	<30.5	<61	<80	<50	
Toluene	800	160	<0.35	<0.40	<0.65	<30	<17	<33.5	<67	<80	<50	
cis-1,2-Dichloroethene	70	7	**120**	**81**	**190**	**214**	**1,400**	**1,920**	**3,010**	**2,400**	**2,300**	
trans-1,2-Dichloroethene	100	20	**280**	**170**	**400**	**258**	**1,200**	**1,280**	**1,970**	**1,400**	**1,400**	
Vinyl Chloride	0.2	0.02	<0.15	<1.0	**1.4j**	<20	<4.5	<9.0	<18	<32	<20	
Tetrachloroethene	5	0.5	**34**	**21**	**120**	**526**	**3,500**	**1,830**	**83**	**6,000**	**6,500**	
Trichloroethene	5	0.5	**77**	**55**	**120**	**140**	**5,100**	**8,910**	**8,660**	**8,660**	**7,100**	
Total Trimethylbenzenes	480	96	NDA	NDA	NDA	<71	<65	<90	<180	<64	<40	
Total Xylenes	2,000	400	NDA	NDA	NDA	<92	<66	<131.5	<180	<80	<50	
Geochemical Indicator Parameters												
Ferrous Iron (mg/L)			NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrate-Nitrogen (mg/L)			NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloride (mg/L)			NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved Manganese (mg/L)			NA	NA	NA	NA	NA	NA	NA	0.19	0.16	
Total Alkalinity ($AaCO_3$)			NA	NA	NA	NA	NA	NA	NA	430	310	
Dissolved Nitrate/Nitrite (mg/L)			NA	NA	NA	NA	NA	NA	NA	<0.024	<0.024	
Dissolved Sulfate (mg/L)			NA	NA	NA	NA	NA	NA	NA	56	29	
Total Organic Carbon (mg/L)			NA	NA	NA	NA	NA	NA	NA	20.80	12.30	
Dissolved Ethane (ug/L)			NA	NA	NA	NA	NA	NA	NA	<14	<14	
Dissolved Ethene (ug/L)			NA	NA	NA	NA	NA	NA	NA	<11	<11	
Dissolved Methane (ug/L)			NA	NA	NA	NA	NA	NA	NA	40	41.3	
Field Parameters												
Temperature (^oF)			NA	NA	NA	NA	NA	NA	NA	56.93	58.77	
Conductivity (ms/cm)			NA	NA	NA	NA	NA	NA	NA	977	788	
Dissolved Oxygen (mg/L)			NA	NA	NA	NA	NA	NA	NA	0.59	0.45	
pH			NA	NA	NA	NA	NA	NA	NA	6.99	6.84	
Redox Potential (mV)			NA	NA	NA	NA	NA	NA	NA	-285	-264.0	

NDA = No Data Available, laboratory reports not provided

PAL = Preventive Action Limit

ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed

< - Concentration less than listed detection limit

j - Estimated Value between detection limit and quantification limit

TABLE 2e
MW600/MW600r GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			MW600			*MW600r*							
PARAMETER	**ES**	**PAL**	***9/28/10***	***10/30/18***		***10/28/19***	***2/5/20***	***5/13/20****	***9/3/20***	***8/31/21***	***11/17/21***		***5/9/23***
Detected VOC's (ug/L)				Destroyed by Road Resconstruction	***Cap 18 Injection - 6/19-6/20/19***							***Hotspot Excavation 4/11/23***	
Acetone	9	1.8	NA			NA	NA	NA	NA	<8.6	<8.6		<8.6
Benzene	5	0.5	**39**			*3.3*	**17.8**	<0.25	*0.51j*	<0.30	<0.30		0.48j
2-Butanone (MEK)	4	0.4	NA			NA	NA	NA	NA	<6.5	<6.5		<6.5
Ethylbenzene	700	140	<2			<0.22	<0.22	<0.32	<0.32	<0.33	<0.33		<0.33
Naphthalene	100	10	<1			<1.2	<1.2	<1.2	<1.2	<1.1	<1.1		<1.1
Methyl-tert-Butyl Ether	60	12	**250**			**61.8**	**140**	<1.2	**128**	1.8j	**115**		**102**
Toluene	800	160	<2			<0.17	<0.17	<0.27	<0.27	<0.29	<0.29		<0.29
cis-1,2-Dichloroethene	70	7	<2			0.41j	<0.27	<0.27	<0.27	<0.47	<0.47		<0.47
trans-1,2-Dichloroethene	100	20	<2			<1.1	<1.1	<0.46	<0.46	<0.53	<0.53		<0.53
Vinyl Chloride	0.2	0.02	<0.8			**0.28j**	<0.17	<0.17	<0.17	<0.17	<0.17		<0.17
Tetrachloroethene	5	0.5	<2			<0.33	<0.33	<0.33	<0.33	<0.41	<0.41		<0.41
Trichloroethene	5	0.5	<0.8			<0.26	<0.26	<0.26	<0.26	<0.32	<0.32		<0.32
Total Trimethylbenzenes	480	96	<1.6			<1.71	<1.71	<1.71	<1.71	<0.81	<0.81		<0.81
Total Xylenes	2,000	400	<2			<0.73	<0.73	<0.73	<0.73	<1.05	<1.05		<1.05
Geochemical Indicator Parameters													
Ferrous Iron (mg/L)			NA			<0.14	<0.021	<0.021	<0.021	0.069	0.420		NA
Nitrate-Nitrogen (mg/L)			NA			1.2	0.087j	<0.44	<0.22	14.1	<0.22		NA
Chloride (mg/L)			NA			350	405	491	469	78.7	445		NA
Sulfate (mg/L)			NA			231	194	194	194	37.6	241		NA
Manganese (mg/L)			NA			0.721	0.947	0.964	0.920	0.344	0.750		NA
Dissolved Manganese (mg/L)			NA			NA	NA	NA	NA	NA	NA		NA
Total Alkalinity ($AaCO_3$)			NA			NA	NA	NA	NA	NA	NA		NA
Dissolved Nitrate/Nitrite (mg/L)			NA			NA	NA	NA	NA	NA	NA		NA
Dissolved Sulfate (mg/L)			NA			NA	NA	NA	NA	NA	NA		NA
Total Organic Carbon (mg/L)			NA			3.2	4.7	5.5	NA	3.2	8.5		NA
Dissolved Ethane (ug/L)			NA			<1.2	7.4	3.2j	3.7j	<0.39	10.2		NA
Dissolved Ethene (ug/L)			NA			<1.2	<1.2	<1.2	<1.2	<0.25	<0.25		NA
Dissolved Methane (ug/L)			NA			75.8	2,110	1,330	1,330	<0.58	1,630		NA
Field Parameters													
Temperature (^oF)			54.63			56.50	44.60	48.80	62.00	69.1	58.8		49.4
Conductivity (ms/cm)			1,139			1,992	2,954	2,621	2,415	1,438	3,140		3,179
Dissolved Oxygen (mg/L)			0.73			9.04	1.24	1.17	3.10	1.77	3.44		2.11
pH			7.19			7.14	6.83	6.94	6.89	7.21	7.24		6.93
Redox Potential (mV)			61.0			78.7	75.4	50.1	28.3	54.9	-20.3		9.9

NDA = No Data Available, laboratory reports not provided

PAL = Preventive Action Limit

ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed

< - Concentration less than listed detection limit

j - Estimated Value between detection limit and quantification limit

*VOC data suggests that MW600r and MW1000 were transposed on 5/13/20

TABLE 2f
MW1000 GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			MW1000																
PARAMETER	**ES**	**PAL**	***4/29/97***	***3/23/00***	***5/21/02***	***12/4/02***	***6/9/10***	***9/28/10***	***10/30/18***	***Cap 18 Injection - 6/19-6/20/19***	***10/28/19***	***2/5/20***	***5/13/20****	***9/3/20***	***8/31/21***	***11/17/21***	***3/29/22***	***Hotspot Excavation 4/11/23***	***3/29/22***
Detected VOC's (ug/L)																			
Acetone	9	1.8	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	<8.6	<8.6	<8.6		<8.6
Benzene	5	0.5	<0.21	<0.10	<0.29	<0.31	<0.2	<0.2	<0.25		<0.25	<0.25	*1.4*	<0.25	<0.30	<0.30	<0.30		<0.30
2-Butanone (MEK)	4	0.4	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	<6.5	<6.5	<6.5		<6.5
Ethylbenzene	700	140	NDA	NDA	NDA	<0.5	<0.50	<0.50	<0.22		<0.22	<0.22	<0.32	<0.32	<0.33	<0.33	<0.33		<0.33
Naphthalene	100	10	NDA	NDA	NDA	<0.8	<0.25	<0.25	<1.2		<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.1		<1.1
Methyl-tert-Butyl Ether	60	12	NDA	NDA	NDA	<0.3	<0.50	<0.50	<1.2		<1.2	<1.2	**129**	<1.2	<1.1	<1.1	<1.1		<1.1
Toluene	800	160	<1.5	<0.10	0.3j	<0.3	<0.50	<0.50	<0.17		<0.17	<0.17	<0.27	<0.27	<0.29	<0.29	<0.29		<0.29
cis-1,2-Dichloroethene	70	7	<0.32	3.2	0.5j	0.245j	<0.50	<0.50	<0.27		<0.27	<0.27	<0.27	0.33j	<0.47	0.58j	1.6		1.6
trans-1,2-Dichloroethene	100	20	<0.11	<0.25	<0.35	<0.39	<0.50	<0.50	<1.1		<1.1	<1.1	<0.46	<0.46	<0.53	<0.53	<0.53		<0.47
Vinyl Chloride	0.2	0.02	<0.045	<0.25	<0.19	<0.2	<0.2	<0.2	<0.17		<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17		<0.17
Tetrachloroethene	5	0.5	*0.63*	*2.7*	<0.85	*0.515j*	<0.50	<0.50	<0.33		<0.33	<0.33	<0.33	<0.33	<0.41	<0.41	*0.89j*		<0.41
Trichloroethene	5	0.5	0.47	**16**	*1.8*	*0.685j*	0.45j	<0.2	<0.26		<0.26	<0.26	<0.26	0.47j	<0.32	0.42j	0.47j		<0.32
Total Trimethylbenzenes	480	96	NDA	NDA	NDA	<0.71	<0.4	<0.4	<1.71		<1.71	<1.71	<1.71	<1.71	<0.81	<0.81	<0.81		<0.81
Total Xylenes	2,000	400	NDA	NDA	NDA	<0.92	<0.50	<0.50	<0.73		<0.73	<0.73	<0.73	<0.73	<1.05	<1.05	<1.05		<1.05
Geochemical Indicator Parameters																			
Ferrous Iron (mg/L)			NA	NA	NA	NA	NA	NA	<0.028		<0.028	<0.021	<0.021	<0.021	0.046j	0.20	0.13		NA
Nitrate-Nitrogen (mg/L)			NA	NA	NA	NA	NA	NA	3.7		2.7	1.4	2.2	0.42j	<0.044	NA	NA		NA
Chloride (mg/L)			NA	NA	NA	NA	NA	NA	169		142	125	113	94.3	49.1	NA	126		NA
Sulfate (mg/L)			NA	NA	NA	NA	NA	NA	162		108	46.1	40.3	54.4	26.1	NA	52.6		NA
Manganese (mg/L)			NA	NA	NA	NA	NA	NA	1.54		0.593	0.246	0.338	1.1	0.7	5.97	3.48		NA
Dissolved Manganese (mg/L)			NA	NA	NA	NA	0.19	0.16	NA		NA	NA	NA	NA	NA	NA	NA		NA
Total Alkalinity ($AaCO_3$)			NA	NA	NA	NA	430	310	NA		NA	NA	NA	NA	NA	NA	NA		NA
Dissolved Nitrate/Nitrite (mg/L)			NA	NA	NA	NA	<0.024	<0.024	NA		NA	NA	NA	NA	NA	NA	NA		NA
Dissolved Sulfate (mg/L)			NA	NA	NA	NA	56	29	NA		NA	NA	NA	NA	NA	NA	NA		NA
Total Organic Carbon (mg/L)			NA	NA	NA	NA	20.80	12.30	2.9		8.0	6.5	6.5	NA	7.2	7.3	4.7		NA
Dissolved Ethane (ug/L)			NA	NA	NA	NA	<14	<14	<0.58		<1.2	<1.2	<1.2	<1.2	<0.39	<0.39	<0.39		NA
Dissolved Ethene (ug/L)			NA	NA	NA	NA	<11	<11	<0.52		<1.2	<1.2	<1.2	<1.2	<0.25	<0.25	<0.25		NA
Dissolved Methane (ug/L)			NA	NA	NA	NA	40	41.3	<1.4		<0.66	<0.66	<0.66	1.0j	<0.58	<0.58	<0.58		NA
Field Parameters																			
Temperature (^oF)			NA	NA	NA	NA	54.63	64.00	60.2		59.2	45.1	49.0	62.4	62.1	59.1	43.7		49.8
Conductivity (ms/cm)			NA	NA	NA	NA	1,139	1,827	1,339		1,141	983	984	977	755	1,235	2,110		1,210
Dissolved Oxygen (mg/L)			NA	NA	NA	NA	0.73	1.95	1.58		1.07	0.85	1.42	2.84	0.91	4.81	5.57		5.57
pH			NA	NA	NA	NA	7.19	7.11	7.26		7.22	7.13	7.33	7.39	7.55	7.42	7.31		7.53
Redox Potential (mV)			NA	NA	NA	NA	61	90.9	109.1		150.2	19.2	15.8	-3.1	41.4	62.6	22.3		31.5

NDA = No Data Available, laboratory reports not provided
PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit
j - Estimated Value between detection limit and quantification limit
*VOC data suggests that MW600r and MW1000 were transposed on 5/13/20

TABLE 2g
MW2000 GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			MW2000									*MW2000r*						
PARAMETER	**ES**	**PAL**	***12/4/02***	***4/1/03***	***8/16/07***	***4/10/08***	***5/12/09***	***6/9/10***	***9/28/10***	***10/30/18***	***Cap 18 Injection - 6/19-6/20/19***	***2/5/20***	***5/13/20***	***9/3/20***	***8/31/21***	***11/17/21***	***Hotspot Excavation 4/11/23***	***5/9/23***
Detected VOC's (ug/L)																		
Acetone	9	1.8	NA	NA	NA	NA	NA	NA	NA	Destroyed by Road Resconstruction		NA	NA	NA	<8.6	<8.6		<8.6
Benzene	5	0.5	<0.31	<0.31	<0.41	<0.41	<0.41	<0.20	<0.20			<0.25	<0.25	<0.25	<0.30	<0.30		<0.30
2-Butanone (MEK)	4	0.4	NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	<6.5	<6.5		<6.5
Ethylbenzene	700	140	<0.5	<0.5	<0.54	<0.54	<0.54	<0.50	<0.50			<0.22	<0.32	<0.32	<0.33	<0.33		<0.33
Naphthalene	100	10	<0.8	<0.8	<0.74	<0.74	<0.89	<0.25	<0.25			<1.2	<1.2	<1.2	<1.1	<1.1		<1.1
Methyl-tert-Butyl Ether	60	12	<0.3	<0.3	<0.61	<0.61	<0.61	<0.50	<0.50			<1.2	<1.2	<1.2	<1.1	<1.1		<1.1
Toluene	800	160	<0.3	<0.3	<0.67	<0.67	<0.67	<0.50	<0.50			<0.17	<0.27	<0.27	<0.29	<0.29		<0.29
cis-1,2-Dichloroethene	70	7	<0.23	<0.23	<0.83	<0.83	<0.83	<0.50	<0.50			<0.27	<0.27	<0.27	<0.47	<0.47		<0.47
trans-1,2-Dichloroethene	100	20	<0.396	<0.39	<0.89	<0.89	<0.89	<0.50	<0.50			<1.1	<0.46	<0.46	<0.53	<0.53		<0.53
Vinyl Chloride	0.2	0.02	<0.2	<0.2	<0.18	<0.18	<0.18	<0.20	<0.20			<0.17	<0.17	<0.17	<0.17	<0.17		<0.17
Tetrachloroethene	5	0.5	<0.32	<0.32	<0.45	<0.45	<0.45	<0.50	*3.2*			*0.69j*	0.43j	<0.33	<0.41	<0.41		<0.41
Trichloroethene	5	0.5	<0.36	<0.36	<0.48	<0.48	<0.48	<0.20	*0.74*			<0.26	<0.26	<0.26	<0.32	<0.32		<0.32
Total Trimethylbenzenes	480	96	<0.71	<0.71	<1.80	<1.80	<1.80	<0.40	<0.40			<1.71	<1.71	<1.71	<0.81	<0.81		<0.81
Total Xylenes	2,000	400	<0.92	<0.92	<2.63	<2.63	<1.8	<0.50	<0.50			<0.73	<0.73	<0.73	<1.05	<1.05		<1.05
Geochemical Indicator Parameters																		
Ferrous Iron (mg/L)			NA	NA	NA	NA	NA	NA	NA			0.070	<0.021	<0.021	0.15	0.68	0.68	NA
Nitrate-Nitrogen (mg/L)			NA	NA	NA	NA	NA	NA	NA			<0.22	<0.044	<0.22	NA	NA	NA	NA
Chloride (mg/L)			NA	NA	NA	NA	NA	NA	NA			34.1	31.0	33.6	38.6	NA	NA	NA
Sulfate (mg/L)			NA	NA	NA	NA	NA	NA	NA			0.28	0.32	0.137	24.1	NA	NA	NA
Manganese (mg/L)			NA	NA	NA	NA	NA	NA	NA			32.4	32.4	32.4	0.188	0.222	0.222	NA
Dissolved Manganese (mg/L)			NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA
Total Alkalinity ($AaCO_3$)			NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA
Dissolved Nitrate/Nitrite (mg/L)			NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA
Dissolved Sulfate (mg/L)			NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L)			NA	NA	NA	NA	NA	NA	NA			8.8	8.7	NA	10.3	6.3	6.3	NA
Dissolved Ethane (ug/L)			NA	NA	NA	NA	NA	NA	NA			<1.2	<1.2	<1.2	<1.2	<0.39	<0.39	NA
Dissolved Ethene (ug/L)			NA	NA	NA	NA	NA	NA	NA			<1.2	<1.2	<1.2	<1.2	<0.25	<0.25	NA
Dissolved Methane (ug/L)			NA	NA	NA	NA	NA	NA	NA			27.4	15.4	1,310	239	188	188	NA
Field Parameters																		
Temperature (^oF)			NA	NA	NA	NA	NA	NA	NA			45.3	47.9	58.0	58.9	57.4	57.4	49.9
Conductivity (ms/cm)			NA	NA	NA	NA	NA	NA	NA			629.7	675.5	745	676	803	803	911
Dissolved Oxygen (mg/L)			NA	NA	NA	NA	NA	NA	NA			4.69	1.60	0.29	0.51	1.68	1.68	2.69
pH			NA	NA	NA	NA	NA	NA	NA			7.40	7.28	7.28	7.22	7.60	7.60	7.37
Redox Potential (mV)			NA	NA	NA	NA	NA	NA	NA			-26.70	-96.4	-109.5	-123.7	-8.6	-8.6	81.9

NDA = No Data Available, laboratory reports not provided
PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit
j - Estimated Value between detection limit and quantification limit

TABLE 2h
MW2100 GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			MW2100																	
PARAMETER	**ES**	**PAL**	***12/4/02***	***4/1/03***	***8/16/07***	***4/10/08***	***5/12/09***	***6/9/10***	***9/28/10***	***10/30/18***	***Cap 18 Injection - 6/19-6/20/19***	***10/28/19***	***2/5/20***	***5/13/20***	***9/3/20***	***8/31/21***	***11/17/21***	***3/29/22***	***Hotspot Excavation 4/11/23***	***5/9/23***
Detected VOC's (ug/L)																				
Acetone	9	1.8	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	<8.6	<8.6	<8.6		<8.6
Benzene	5	0.5	<15.5	<0.31	<0.41	<0.41	<0.82	<0.40	<0.40	<0.25		<0.25	<0.25	<0.25	<0.25	<0.30	<0.30	<0.30		<0.30
2-Butanone (MEK)	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	<6.5	<6.5	<6.5		<6.5
Ethylbenzene	700	140	<25	<0.5	<0.54	<0.54	<1.1	<1.0	<1.0	<0.22		<0.22	<0.22	<0.32	<0.32	<0.33	<0.33	<0.33		<0.33
Naphthalene	100	10	<40	<0.8	<0.74	<0.74	<1.8	<0.50	<0.50	<1.2		<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.1		<1.1
Methyl-tert-Butyl Ether	60	12	<15	<0.3	<0.61	<0.61	<1.2	<1.0	<1.0	<1.2		<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.1		<1.1
Toluene	800	160	<15	<0.3	<0.67	<0.67	<1.3	<1.0	<1.0	<0.17		<0.17	<0.17	<0.27	<0.27	<0.29	<0.29	<0.29		<0.29
cis-1,2-Dichloroethene	70	7	**241**	**181**	**230**	**147**	**130**	**130**	**220**	**148**		*16.1*	**98.2**	5.7	**126**	*42.0*	**136**	*34.3*		*26.0*
trans-1,2-Dichloroethene	100	20	<19.5	12.2	11	5.5	5.6	5.0	8.8	9.1		1.4j	4.1	0.69j	6.0	2.5	6.0	0.94j		<0.53
Vinyl Chloride	0.2	0.02	<10	<0.2	**1.4**	<0.18	<0.36	**0.54j**	**0.74j**	**0.67j**		<0.17	**0.30j**	<0.17	**0.90j**	**0.20j**	**1.1**	<0.17		<0.17
Tetrachloroethene	5	0.5	<16	<0.32	<0.45	<0.45	<0.9	<1.0	<1.0	<0.33		<0.33	<0.33	<0.33	<0.33	<0.41	<0.41	<0.41		<0.41
Trichloroethene	5	0.5	<18	*2.1*	0.55j	<0.48	<0.96	*0.56j*	*0.64j*	*0.89j*		*0.73j*	*0.62j*	<0.26	*0.52j*	*0.87j*	*0.57j*	*0.57j*		*0.54j*
Total Trimethylbenzenes	480	96	<35.5	<0.71	<1.80	<1.80	<3.6	<0.80	<0.80	<1.71		<1.71	<1.71	<1.71	<1.71	<0.81	<0.81	<0.81		<0.81
Total Xylenes	2,000	400	<46	<0.92	<2.63	<2.63	<3.6	<1.0	<1.0	<0.73		<0.73	<0.73	<0.73	<0.73	<1.05	<1.05	<1.05		<1.05
Geochemical Indicator Parameters																				
Ferrous Iron (mg/L)			NA	NA	NA	NA	NA	NA	NA	<0.028		<0.028	<0.021	<0.021	<0.021	0.51	0.47	0.14		NA
Nitrate-Nitrogen (mg/L)			NA	NA	NA	NA	NA	NA	NA	<0.075		3.3	0.27	11.3	0.56	2.6	NA	NA		NA
Chloride (mg/L)			NA	NA	NA	NA	NA	NA	NA	602		293	461	69.1	397	279	NA	493		NA
Sulfate (mg/L)			NA	NA	NA	NA	NA	NA	NA	54.6		38.9	44.3	25.8	32.9	33.2	NA	38.4		NA
Manganese (mg/L)			NA	NA	NA	NA	NA	NA	NA	0.218		0.064	0.101	0.159	0.225	0.462	0.363	0.638		NA
Dissolved Manganese (mg/L)			NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA		NA
Total Alkalinity ($AaCO_3$)			NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA		NA
Dissolved Nitrate/Nitrite (mg/L)			NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA		NA
Dissolved Sulfate (mg/L)			NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA		NA
Total Organic Carbon (mg/L)			NA	NA	NA	NA	NA	NA	NA	0.48j		1.0	1.1	3.0	NA	3.1	3.4	2.4		NA
Dissolved Ethane (ug/L)			NA	NA	NA	NA	NA	NA	NA	<0.58		<1.2	<1.2	<1.2	<1.2	<0.39	<0.39	<0.39		NA
Dissolved Ethene (ug/L)			NA	NA	NA	NA	NA	NA	NA	<0.52		<1.2	<1.2	<1.2	<1.2	<0.25	0.54j	<0.25		NA
Dissolved Methane (ug/L)			NA	NA	NA	NA	NA	NA	NA	253		13.9	16.8	1.1j	107.0	88.6	250	<0.58		NA
Field Parameters																				
Temperature (^{o}F)			NA	NA	NA	NA	NA	NA	NA	59.3		58.7	45.1	47.0	63.1	64.4	58.9	46.2		49.2
Conductivity (ms/cm)			NA	NA	NA	NA	NA	NA	NA	1,801		1,657	1,921	892	2,129	1,891	2,242	1,149		3,749
Dissolved Oxygen (mg/L)			NA	NA	NA	NA	NA	NA	NA	7.11		3.80	0.45	4.32	0.71	0.51	2.31	6.11		1.14
pH			NA	NA	NA	NA	NA	NA	NA	7.51		7.27	7.43	7.62	7.35	7.28	7.51	7.22		6.84
Redox Potential (mV)			NA	NA	NA	NA	NA	NA	NA	-96.0		-39.2	96.2	36.3	-90.8	-73.3	-57.7	-21.6		87.2

NDA = No Data Available, laboratory reports not provided

PAL = Preventive Action Limit

ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed

< - Concentration less than listed detection limit

j - Estimated Value between detection limit and quantification limit

TABLE 2i
MW3200 GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			MW3200														
PARAMETER	**ES**	**PAL**	***4/1/03***	***8/16/07***	***4/10/08***	***5/12/09***	***6/9/10***	***9/28/10***	***10/30/18***	***Cap 18 Injection - 6/19-6/20/19***	***10/28/19***	***2/5/20***	***5/13/20***	***9/3/20***	***8/31/21***	***11/17/21***	***3/29/22***
Detected VOC's (ug/L)																	
Acetone	9	1.8	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	<8.6	<8.6	<8.6
Benzene	5	0.5	<0.31	<0.41	<0.41	<0.41	<0.20	<0.20	<0.25		<0.25	<0.25	<0.25	<0.25	<0.30	<0.30	<0.30
2-Butanone (MEK)	4	0.4	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	<6.5	<6.5	<6.5
Ethylbenzene	700	140	<0.5	<0.54	<0.54	<0.54	<0.50	<0.50	<0.22		<0.22	<0.22	<0.32	<0.32	<0.33	<0.33	<0.33
Naphthalene	100	10	<0.8	<0.74	<0.74	<0.89	<0.25	<0.25	<1.2		<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.1
Methyl-tert-Butyl Ether	60	12	<0.3	<0.61	<0.61	<0.61	<0.50	<0.50	<1.2		<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.1
Toluene	800	160	<0.3	<0.67	<0.67	<0.67	<0.50	<0.50	<0.17		<0.17	<0.17	<0.27	<0.27	<0.29	<0.29	<0.29
cis-1,2-Dichloroethene	70	7	<0.23	<0.83	<0.83	<0.83	<0.50	<0.50	<0.27		<0.27	<0.27	0.29j	0.29j	*22.7*	<0.47	<0.47
trans-1,2-Dichloroethene	100	20	<0.39	<0.89	<0.89	<0.89	<0.50	<0.50	<1.1		<1.1	<1.1	<0.46	<0.46	0.98j	<0.53	<0.53
Vinyl Chloride	0.2	0.02	<0.2	<0.18	<0.18	<0.18	<0.20	<0.20	<0.17		<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Tetrachloroethene	5	0.5	<0.2	<0.18	<0.18	<0.18	<0.20	<0.20	*0.65j*		<0.33	<0.33	*0.55j*	<0.33	**99.4**	0.42j	*3.2*
Trichloroethene	5	0.5	**13.5**	<0.45	*0.52j*	*0.81j*	<0.50	<0.50	0.47j		0.49j	<0.26	*0.52j*	*0.69j*	**33.8**	*0.81j*	*0.55j*
Total Trimethylbenzenes	480	96	<0.71	<1.80	<1.80	<1.80	<0.40	<0.40	<1.71		<1.71	<1.71	<1.71	<1.71	<0.81	<0.81	<0.81
Total Xylenes	2,000	400	<0.92	<2.63	<2.63	<1.8	<0.50	<0.50	<0.73		<0.73	<0.73	<0.73	<0.73	<1.05	<1.05	<1.05
Geochemical Indicator Parameters																	
Ferrous Iron (mg/L)			NA	NA	NA	NA	NA	NA	<0.028		<0.14	<0.021	<0.021	<0.021	<0.021	0.66	0.064
Nitrate-Nitrogen (mg/L)			NA	NA	NA	NA	NA	NA	<0.075		<0.075	<0.22	<0.044	<0.22	<0.22	NA	NA
Chloride (mg/L)			NA	NA	NA	NA	NA	NA	39.9		37.3	25.4	2.5	58.8	58.8	NA	64.9
Sulfate (mg/L)			NA	NA	NA	NA	NA	NA	10.6		27.5	19.4	<0.44	72.9	72.9	NA	69.2
Manganese (mg/L)			NA	NA	NA	NA	NA	NA	0.224		0.150	0.128	0.0166	0.138	0.157	0.178	0.0524
Dissolved Manganese (mg/L)			NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA
Total Alkalinity ($AaCO_3$)			NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA
Dissolved Nitrate/Nitrite (mg/L)			NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA
Dissolved Sulfate (mg/L)			NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L)			NA	NA	NA	NA	NA	NA	20.1		6.9	8.2	6.1	NA	0.4	7.2	4.5
Dissolved Ethane (ug/L)			NA	NA	NA	NA	NA	NA	<0.58		<1.2	<1.2	<1.2	<1.2	<0.39	<0.39	<0.39
Dissolved Ethene (ug/L)			NA	NA	NA	NA	NA	NA	<0.52		<1.2	<1.2	<1.2	<1.2	<0.25	<0.25	<0.25
Dissolved Methane (ug/L)			NA	NA	NA	NA	NA	NA	10.2		266	639	3,150	48.8	28.0	7.7	<0.58
Field Parameters																	
Temperature (^oF)			NA	NA	NA	NA	NA	NA	51.2		56.6	41.6	53.8	54.1	62.2	56.7	43.7
Conductivity (ms/cm)			NA	NA	NA	NA	NA	NA	757		719	781	426	916	862	1,024	1,122
Dissolved Oxygen (mg/L)			NA	NA	NA	NA	NA	NA	4.91		0.24	0.39	1.57	2.80	1.06	1.52	3.03
pH			NA	NA	NA	NA	NA	NA	7.00		7.11	7.33	7.63	7.53	7.39	7.46	7.29
Redox Potential (mV)			NA	NA	NA	NA	NA	NA	-109.5		-163.6	-128.5	-88.5	-108.7	-103.1	35.1	-57.0

NDA = No Data Available, laboratory reports not provided
PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit
j - Estimated Value between detection limit and quantification limit

TABLE 2j
PZ1700 GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			PZ1700																
PARAMETER	**ES**	**PAL**	***12/4/02***	***4/1/03***	***8/16/07***	***4/10/08***	***5/12/09***	***6/9/10***	***9/28/10***	***10/30/18***		***2/5/20***	***5/13/20***	***9/3/20***	***8/31/21***	***11/17/21***	***3/29/22***		***5/9/23***
Detected VOC's (ug/L)																			
Acetone	9	1.8	NA	NA	NA	NA	NA	NA	NA	Flush Mount Concreted In	***Cap 18 Injection - 6/19-6/20/19***	NA	NA	NA	<8.6	<8.6	<8.6	***Hotspot Excavation 4/11/23***	<8.6
Benzene	5	0.5	<0.31	<0.31	<0.41	<0.41	<0.41	<0.20	<0.20			<0.25	<0.25	<0.25	<0.30	<0.30	<0.30		<0.30
2-Butanone (MEK)	4	0.4	NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	<6.5	<6.5	<6.5		<6.5
Ethylbenzene	700	140	<0.5	<0.5	<0.54	<0.54	<0.54	<0.50	<0.50			<0.22	<0.32	<0.32	<0.33	<0.33	<0.33		<0.33
Naphthalene	100	10	<0.8	<0.8	<0.74	<0.74	<0.89	<0.25	0.47j			<1.2	<1.2	<1.2	<1.1	<1.1	<1.1		<1.1
Methyl-tert-Butyl Ether	60	12	<0.3	<0.3	<0.61	<0.61	<0.61	<0.50	<0.50			<1.2	<1.2	<1.2	<1.1	<1.1	<1.1		<1.1
Toluene	800	160	<0.3	<0.3	<0.67	<0.67	<0.67	<0.50	<0.50			<0.17	<0.27	<0.27	<0.29	<0.29	<0.29		<0.29
cis-1,2-Dichloroethene	70	7	<0.23	0.75j	<0.83	<0.83	<0.83	<0.50	<0.50			0.62j	<0.27	0.89j	**15,200**	*18.8*	*27.2*		0.56j
trans-1,2-Dichloroethene	100	20	<0.39	<0.39	<0.89	<0.89	<0.89	<0.50	<0.50			<1.1	<0.46	<0.46	**404**	<0.53	2.2		<0.53
Vinyl Chloride	0.2	0.02	<0.2	<0.2	<0.18	<0.18	<0.18	<0.20	<0.20			<0.17	<0.17	<0.17	**47.1**	<0.17	**0.29j**		<0.17
Tetrachloroethene	5	0.5	<0.32	*0.638j*	<0.45	<0.45	0.47j	<0.50	<0.50			<0.33	<0.33	<0.33	**12,600**	*1.1*	**28.2**		<0.41
Trichloroethene	5	0.5	<0.36	*0.924j*	*1.2j*	<0.48	<0.48	0.20j	<0.20			0.29j	0.48j	<0.26	**9,440**	0.41j	**30.1**		<0.32
Total Trimethylbenzenes	480	96	<0.71	<0.71	<1.80	<1.80	<1.80	<0.40	0.46			<1.71	<1.71	<1.71	<0.81	<0.81	<0.81		<0.81
Total Xylenes	2,000	400	<0.92	<0.92	<2.63	<2.63	<1.8	<0.50	<0.5			<0.73	<0.73	<0.73	<1.05	<1.05	<1.05		<1.05
Geochemical Indicator Parameters																			
Ferrous Iron (mg/L)			NA	NA	NA	NA	NA	NA	NA	May Be Accessible		<0.021	<0.021	<0.021	0.079	0.12	0.34		NA
Nitrate-Nitrogen (mg/L)			NA	NA	NA	NA	NA	NA	NA			<0.044	<0.044	<0.044	<0.044	NA	NA		NA
Chloride (mg/L)			NA	NA	NA	NA	NA	NA	NA			2.7	42.0	2.8	68.6	NA	21.1		NA
Sulfate (mg/L)			NA	NA	NA	NA	NA	NA	NA			0.45j	44.2	0.48j	18.0	NA	0.59j		NA
Manganese (mg/L)			NA	NA	NA	NA	NA	NA	NA			0.0147	0.122	0.0155	0.426	0.019	0.023		NA
Dissolved Manganese (mg/L)			NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA		NA
Total Alkalinity ($AaCO_3$)			NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA		NA
Dissolved Nitrate/Nitrite (mg/L)			NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA		NA
Dissolved Sulfate (mg/L)			NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA		NA
Total Organic Carbon (mg/L)			NA	NA	NA	NA	NA	NA	NA			6.2	5.7	NA	NA	6.1	5.8		NA
Dissolved Ethane (ug/L)			NA	NA	NA	NA	NA	NA	NA			<1.2	<1.2	<1.2	<0.39	<0.39	<0.39		NA
Dissolved Ethene (ug/L)			NA	NA	NA	NA	NA	NA	NA			<1.2	<1.2	<1.2	5.5	<0.25	<0.25		NA
Dissolved Methane (ug/L)			NA	NA	NA	NA	NA	NA	NA			2,910	65.0	1,290	407	1,600	2,280		NA
Field Parameters																			
Temperature (^{o}F)			NA	NA	NA	NA	NA	NA	NA			50.2	47.1	61.6	70.8	62.3	46.2		53.1
Conductivity (ms/cm)			NA	NA	NA	NA	NA	NA	NA			410.9	808	734	1,054	504.5	729.2		515.1
Dissolved Oxygen (mg/L)			NA	NA	NA	NA	NA	NA	NA			0.51	2.33	7.80	6.70	1.00	2.01		5.08
pH			NA	NA	NA	NA	NA	NA	NA			7.50	7.36	7.74	6.63	7.17	7.56		7.09
Redox Potential (mV)			NA	NA	NA	NA	NA	NA	NA			6.4	-125.8	-90.7	14.9	-84.8	41.2		-1.2

NDA = No Data Available, laboratory reports not provided
PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit
j - Estimated Value between detection limit and quantification limit

TABLE 2k-1
TW800/MW800 GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			TW800						*MW800*								
PARAMETER	**ES**	**PAL**	***10/10/02***	***4/1/03***	***6/8/10***	***9/28/10***	***10/30/18***	***Cap 18 Injection - 6/19-6/20/19***	***10/28/19***	***2/5/20***	***5/13/20***	***9/3/20***	***8/31/21***	***11/17/21***	***3/29/22***	***Hotspot Excavation 4/11/23***	***5/9/23***
Detected VOC's (ug/L)							Destroyed by Road Resconstruction										
Acetone	9	1.8	NA	NA	NA	NA			NA	NA	NA	NA	<43.2	<864	<1080		<1080
Benzene	5	0.5	<0.31	<0.31	<20	<16			<9.9	<6.2	<6.2	<6.2	<1.5	<29.5	<36.9		<36.9
2-Butanone (MEK)	4	0.4	NA	NA	NA	NA			NA	NA	NA	NA	<32.6	<652	<815		<815
Ethylbenzene	700	140	<0.5	<0.5	<50	<40			<8.7	<5.5	<8.0	<8.0	<1.6	<32.5	<40.6		<40.6
Naphthalene	100	10	<0.8	<0.8	<25	<20			<47.0	<29.4	<29.4	<29.4	<5.6	<113	<141		<141
Methyl-tert-Butyl Ether	60	12	<0.3	<0.3	<50	<40			<49.8	<31.1	<31.1	<31.1	<5.6	<113	<141		<141
Toluene	800	160	1.07	0.662j	<50	<40			<6.9	<4.3	<6.7	<6.7	<1.4	<28.8	<36.0		<36.0
cis-1,2-Dichloroethene	70	7	**8,520**	<0.23	**5,500**	**8,500**			**2,130**	**2,990**	**4,000**	**4,930**	**312**	**9,110**	**11,100**		**12,900**
trans-1,2-Dichloroethene	100	20	**364**	**354**	**910**	**1,610**			**437**	**483**	**336**	**662**	6.8	**528**	**624**		**712**
Vinyl Chloride	0.2	0.02	**10.8**	**11.4**	<20	<16			<7.0	<4.4	<4.4	**30.3**	<0.87	**153**	**111j**		**84.7j**
Tetrachloroethene	5	0.5	**3,060**	**2,200**	**1,100**	**230**			**1,130**	**9,480**	**21,100**	**4,680**	**467**	**1,350**	**1,590**		**246**
Trichloroethene	5	0.5	**20,000**	**14,600**	**2,300**	**2,200**			**2,310**	**6,470**	**5,320**	**5,620**	**228**	**5,590**	**4,840**		**3,410**
Total Trimethylbenzenes	480	96	<0.71	<0.71	<0.40	<32			<68.5	<42.8	<42.8	<42.8	<4	<80.6	<100.8		<100.8
Total Xylenes	2,000	400	<0.92	<0.92	<50	<40			<29.1	<18.1	<18.1	<18.1	<5.2	<104.8	<131		<131
Geochemical Indicator Parameters																	
Ferrous Iron (mg/L)			NA	NA	NA	NA			<0.14	<0.021	<0.021	<0.021	0.14	0.53	0.56		NA
Nitrate-Nitrogen (mg/L)			NA	NA	NA	NA			1.1	<0.044	<0.044	<0.044	<0.22	NA	NA		NA
Chloride (mg/L)			NA	NA	NA	NA			117	163	91	91	4.0j	NA	109		NA
Sulfate (mg/L)			NA	NA	NA	NA			42.3	32.1	30.1	30.1	<2.2	NA	15.5		NA
Manganese (mg/L)			NA	NA	NA	NA			0.484	0.892	0.513	0.475	0.0302	0.459	0.460		NA
Dissolved Manganese (mg/L)			NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA		NA
Total Alkalinity ($AaCO_3$)			NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA		NA
Dissolved Nitrate/Nitrite (mg/L)			NA	NA	NA	NA			1.1	NA	NA	NA	NA	NA	NA		NA
Dissolved Sulfate (mg/L)			NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA		NA
Total Organic Carbon (mg/L)			NA	NA	NA	NA			12.0	11.9	13.9	13.9	7.6	10.3	10.3		NA
Dissolved Ethane (ug/L)			NA	NA	NA	NA			<1.2	<1.2	<1.2	<1.2	<0.39	<0.39	<0.39		NA
Dissolved Ethene (ug/L)			NA	NA	NA	NA			<1.2	<1.2	<1.2	1.7j	<0.25	29.9	25.4		NA
Dissolved Methane (ug/L)			NA	NA	NA	NA			34.2	892	403	3,020	1,450	1,070	2,470		NA
Field Parameters																	
Temperature (^oF)			NA	NA	NA	NA			58.6	46.2	56.8	69.0	70.3	61.9	44.2		51.5
Conductivity (ms/cm)			NA	NA	NA	NA			1,033	1,259	733	1,143	476	1,290	1,231		1,297
Dissolved Oxygen (mg/L)			NA	NA	NA	NA			8.15	0.37	1.80	0.54	0.32	0.94	2.14		0.56
pH			NA	NA	NA	NA			7.11	7.05	7.11	6.96	7.17	6.98	7.95		6.66
Redox Potential (mV)			NA	NA	NA	NA			-26.2	15.3	-33.6	-27.0	-135.6	22.9	91.8		-55.2

NDA = No Data Available, laboratory reports not provided
PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit
j - Estimated Value between detection limit and quantification limit

TABLE 2k-2
MW800 GROUNDWATER ANALYTICAL RESULTS - PFAS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

					Collected By-->	***AD***	***AD***
					Date-->	***3/9/2023***	***3/9/2023***
					Sample-->	***MW800***	***Blank***
PFAS's (ng/L)	**CAS Number**	Proposed NR140 Enforcement Standard (ES)	Proposed NR140 Preventive Action Limit (PAL)	EPA Interim Screening Level	EPA Interim Preliminary Remediation Goal (PRG)		
Perfluoro-n-butanoic acid (PFBA)	375-22-4	10,000 [2]	2,000 [2]	--	--	6.2j	<0.55
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	--	--	--	--	<5.4	<0.50
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	150,000 [2]	30,000 [2]	--	--	<6.9	<0.63
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	--	--	--	--	<4.5	<0.41
Perfluoro-n-octanoic acid (PFOA)	335-67-1	20 [1, 3]	2 [1, 3]	40 [5]	70 [5]	<8.3	<0.76
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	30 [2]	3 [2]	--	--	<4.6	<0.42
Perfluoro-n-decanoic acid (PFDA)	335-76-2	300 [2]	60 [2]	--	--	<5.2	<0.48
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	3,000 [2]	600 [2]	--	--	<6.3	<0.57
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	500 [2]	100 [2]	--	--	<4.7	<0.43
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	--	--	--	--	<5.3	<0.48
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	10,000 [2]	2,000 [2]	--	--	<6.0	<0.55
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	450,000 [2]	90,000 [2]	--	--	<4.1	<0.38
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	--	--	--	--	<5.9	<0.54
Perfluoro-1-hexanesulfonic acid (PFHxS)	355-46-4	40 [2]	4 [2]	--	--	<5.5	<0.50
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	--	--	--	--	<5.0	<0.45
Perfluoro-1-octanesulfonic acid (PFOS)	1763-23-1	20 [1, 3]	2 [1, 3]	40 [5]	70 [5]	<20	<1.8
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	--	--	--	--	<7.1	<0.65
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	--	--	--	--	<7.8	<0.71
Perfluoro-1-dodecanesulfonic acid (PFDOS)	79780-39-5	--	--	--	--	<10	<0.95
1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	--	--	--	--	<8.7	<0.80
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	--	--	--	--	<20	<1.8
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	--	--	--	--	<16	<1.5
Perfluorooctanesulfonamide (PFOSA)	754-91-6	20 [2, 3]	2 [2, 3]	--	--	<6.1	<0.56
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	--	--	--	--	<13	<1.1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	20 [2, 3]	2 [2, 3]	--	--	<14	<1.2
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	--	--	--	--	<9.3	<0.85
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	20 [2, 3]	2 [2, 3]	--	--	<7.5	<0.68
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	--	--	--	--	<13	<1.2
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	20 [2, 3]	2 [2, 3]	--	--	<9.5	<0.87
4, 8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	300 [2]	60 [2]	--	--	<4.8	<0.44
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	--	--	--	--	<4.8	<0.44
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	--	--	--	--	<6.6	<0.60
Combined Standard[1] (PFOA and PFOS)	--	20 [1]	2 [1]	--	70 [5]	-	-
Combined Standard[3] (EtFOSA, EtFOSAA, EtFOSE, PFOSA, PFOA, and PFOS)	--	20 [2, 3]	2 [2, 3]	--	--	-	-

Notes:
ng/L - Parts Per Trillion (ppt)
< = Concentration Below Laboratory Detection Limit
- = Not Sampled
-- = No Standard/Not Applicable
[J] = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ)
[1] = WI DHS proposed groundwater standards for the protection of human health (Cycle 10 - June 21, 2019)
[2] = WI DHS proposed groundwater standards for the protection of human health (Cycle 11 - November 6, 2020)
[3] = WI DHS recommends a combinded standard for EtFOSA, EtFOSAA, EtFOSE, PFOSA, PFOA, and PFOS (Cycle 11 - November 6, 2020)
[4] = ERP Interim Recommendations to Address Grounwater Contaminated with PFOA and PFOS (December 19, 2019)
[5] = Gen X is a trade name for Hexafluoropropylene oxide dimer acid (HPFO-DA)

Laboratory Prep Method: SOP SPE
Laboratory Analytical Method: PFAS by ID SOP

Bold	= Exceeds Proposed NR140.10 Enforcement Standard
Italic	= Exceeds Proposed NR140.10 Preventive Action Limit

TABLE 2l
TW900 GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			TW900						
PARAMETER	**ES**	**PAL**	***10/10/02***	***4/1/03***	***9/28/10***	***10/30/18***		***10/28/19***	***2/5/20***
Detected VOC's (ug/L)									
Benzene	5	0.5	<310	<0.31	<40	Could Not Locate Inside Building	***Cap 18 Injection - 6/19-6/20/19***	Dry	Dry
Ethylbenzene	700	140	<500	<0.5	<100				
Naphthalene	100	10	<800	<0.8	<50				
Methyl-tert-Butyl Ether	60	12	<300	<0.3	<100				
Toluene	800	160	<300	0.484j	<100				
cis-1,2-Dichloroethene	70	7	**250**	**316**	**780**				
trans-1,2-Dichloroethene	100	20	<390	*33.6*	**730**				
Vinyl Chloride	0.2	0.02	<200	**1.03**	<40				
Tetrachloroethene	5	0.5	**11,300**	**16,000**	**21,000**				
Trichloroethene	5	0.5	**7,450**	**4,910**	**6,200**				
Total Trimethylbenzenes	480	96	<710	<0.71	<80				
Total Xylenes	2,000	400	<920	<0.92	<100				
Geochemical Indicator Parameters									
Ferrous Iron (mg/L)			NA	NA	NA				
Nitrate-Nitrogen (mg/L)			NA	NA	NA				
Chloride (mg/L)			NA	NA	NA				
Dissolved Manganese (mg/L)			NA	NA	NA				
Total Alkalinity ($AaCO_3$)			NA	NA	NA				
Dissolved Nitrate/Nitrite (mg/L)			NA	NA	NA				
Dissolved Sulfate (mg/L)			NA	NA	NA				
Total Organic Carbon (mg/L)			NA	NA	NA				
Dissolved Ethane (ug/L)			NA	NA	NA				
Dissolved Ethene (ug/L)			NA	NA	NA				
Dissolved Methane (ug/L)			NA	NA	NA				
Field Parameters									
Temperature (^oF)			NA	NA	NA				
Conductivity (ms/cm)			NA	NA	NA				
Dissolved Oxygen (mg/L)			NA	NA	NA				
pH			NA	NA	NA				
Redox Potential (mV)			NA	NA	NA				

NDA = No Data Available, laboratory reports not provided

PAL = Preventive Action Limit

ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed

< - Concentration less than listed detection limit

j - Estimated Value between detection limit and quantification limit

TABLE 2m
TW1100 GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			TW1100	
PARAMETER	**ES**	**PAL**	***10/10/02***	***4/1/03***
Detected VOC's (ug/L)				
Benzene	5	0.5	*1.80*	*1.48*
Ethylbenzene	700	140	<0.5	<0.5
Naphthalene	100	10	<0.8	<0.8
Methyl-tert-Butyl Ether	60	12	<0.3	<0.3
Toluene	800	160	<0.3	<0.3
cis-1,2-Dichloroethene	70	7	**306**	**252**
trans-1,2-Dichloroethene	100	20	**343**	**359**
Vinyl Chloride	0.2	0.02	**1.97**	**1.34**
Tetrachloroethene	5	0.5	**54.8**	**78.1**
Trichloroethene	5	0.5	**626.0**	**306.0**
Total Trimethylbenzenes	480	96	<0.71	<0.71
Total Xylenes	2,000	400	<0.92	<0.92
Geochemical Indicator Parameters				
Ferrous Iron (mg/L)			NA	NA
Nitrate-Nitrogen (mg/L)			NA	NA
Chloride (mg/L)			NA	NA
Dissolved Manganese (mg/L)			NA	NA
Total Alkalinity ($AaCO_3$)			NA	NA
Dissolved Nitrate/Nitrite (mg/L)			NA	NA
Dissolved Sulfate (mg/L)			NA	NA
Total Organic Carbon (mg/L)			NA	NA
Dissolved Ethane (ug/L)			NA	NA
Dissolved Ethene (ug/L)			NA	NA
Dissolved Methane (ug/L)			NA	NA
Field Parameters				
Temperature (^oF)			NA	NA
Conductivity (ms/cm)			NA	NA
Dissolved Oxygen (mg/L)			NA	NA
pH			NA	NA
Redox Potential (mV)			NA	NA

NDA = No Data Available, laboratory reports not provided

PAL = Preventive Action Limit

ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed

< - Concentration less than listed detection limit

j - Estimated Value between detection limit and quantification limit

TABLE 2n
TW1300 GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			TW1300			
PARAMETER	**ES**	**PAL**	***10/10/02***	***4/1/03***	***6/8/10***	***9/28/10***
Detected VOC's (ug/L)						
Benzene	5	0.5	<0.31	<155	*3.2*	<2
Ethylbenzene	700	140	<0.5	<250	<8.0	<5
Naphthalene	100	10	<0.8	<400	<4.0	<2.5
Methyl-tert-Butyl Ether	60	12	<0.3	<150	<8.0	<5
Toluene	800	160	0.683j	<150	<8.0	<5
cis-1,2-Dichloroethene	70	7	**1,130**	**696**	**890**	**1,000**
trans-1,2-Dichloroethene	100	20	**745**	**299**	**590**	**820**
Vinyl Chloride	0.2	0.02	**3.04**	<100	<3.2	<2
Tetrachloroethene	5	0.5	**825**	**763**	**130**	**170**
Trichloroethene	5	0.5	**6,030**	**2,540**	**71**	**55**
Total Trimethylbenzenes	480	96	<0.71	<355	<6.4	<4
Total Xylenes	2,000	400	<0.92	<460	<8.0	<5
Geochemical Indicator Parameters						
Ferrous Iron (mg/L)			NA	NA	NA	NA
Nitrate-Nitrogen (mg/L)			NA	NA	NA	NA
Chloride (mg/L)			NA	NA	NA	NA
Dissolved Manganese (mg/L)			NA	NA	NA	NA
Total Alkalinity ($AaCO_3$)			NA	NA	NA	NA
Dissolved Nitrate/Nitrite (mg/L)			NA	NA	NA	NA
Dissolved Sulfate (mg/L)			NA	NA	NA	NA
Total Organic Carbon (mg/L)			NA	NA	NA	NA
Dissolved Ethane (ug/L)			NA	NA	NA	NA
Dissolved Ethene (ug/L)			NA	NA	NA	NA
Dissolved Methane (ug/L)			NA	NA	NA	NA
Field Parameters						
Temperature (^oF)			NA	NA	NA	NA
Conductivity (ms/cm)			NA	NA	NA	NA
Dissolved Oxygen (mg/L)			NA	NA	NA	NA
pH			NA	NA	NA	NA
Redox Potential (mV)			NA	NA	NA	NA

NDA = No Data Available, laboratory reports not provided
PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit
j - Estimated Value between detection limit and quantification limit

TABLE 2o
TW1400 GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			TW1400													
PARAMETER	**ES**	**PAL**	***10/10/02***	***4/1/03***	***6/8/10***	***9/28/10***	***10/30/18***		***10/28/19***	***2/5/20***	***5/13/20***	***9/3/20***	***8/31/21***	***11/17/21***	***3/29/22***	***5/9/23***
Detected VOC's (ug/L)																
Acetone	9	1.8	NA	NA	NA	NA	Could Not Locate Inside Building	***Cap 18 Injection - 6/19-6/20/19***	NA	NA	NA	NA	Beneath Car Being Repaired	<34.6	<34.6	Beneath Car Being Repaired
Benzene	5	0.5	<0.31	<155	<6.4	<0.8			<0.99	<0.99	<0.99	<0.99		<1.2	<1.2	
2-Butanone (MEK)	4	0.4	NA	NA	NA	NA			NA	NA	NA	NA		<26.1	<26.1	
Ethylbenzene	700	140	<0.5	<250	<16	<2			<0.87	<0.87	<1.3	<1.3		<1.3	<1.3	
Naphthalene	100	10	<0.8	<400	<8.0	<1			<4.7	<4.7	<4.7	<4.7		<4.5	<4.5	
Methyl-tert-Butyl Ether	60	12	<0.3	<150	<16	<2			<5.0	<5.0	<5.0	<5.0		<4.5	<4.5	
Toluene	800	160	<0.3	<150	<16	<2			<0.69	<0.69	<1.1	<1.1		<1.2	<1.2	
cis-1,2-Dichloroethene	70	7	**222**	<115	**120**	**74**			*10.7*	*12.6*	6.2	**184**		**3,980**	**2,990**	
trans-1,2-Dichloroethene	100	20	**644**	**347**	**300**	**190**			*23.8*	12.3j	10.5	*26.9*		**771**	**34**	
Vinyl Chloride	0.2	0.02	**0.789**	<100	<6.4	<0.8			<0.70	<0.70	<0.70	<0.70		**53.1**	**0.83j**	
Tetrachloroethene	5	0.5	**1,990**	**2,960**	**1,700**	**260**			**283**	**853**	**1,100**	**161**		**8.4**	**2,400**	
Trichloroethene	5	0.5	**1,200**	**1,820**	**76**	**120**			**7.6**	**21.2**	**10.4**	**17.5**		**15.6**	**549**	
Total Trimethylbenzenes	480	96	<0.71	<355	<12.8	<1.6			<6.9	<6.9	<6.9	<6.9		<3.2	<3.2	
Total Xylenes	2,000	400	<0.92	<460	<8.0	<5			<2.9	<2.9	<2.9	<2.9		<4.2	<4.2	
Geochemical Indicator Parameters																
Ferrous Iron (mg/L)			NA	NA	NA	NA			<0.70	0.21	<0.10	NA*		1.2	NA*	
Nitrate-Nitrogen (mg/L)			NA	NA	NA	NA			<0.075	<0.22	<0.22	NA*		NA	NA*	
Chloride (mg/L)			NA	NA	NA	NA			136	142	139.0	NA*		46.1	NA*	
Sulfate (mg/L)			NA	NA	NA	NA			50.0	33.3	16.4	NA*		NA	NA*	
Manganese (mg/L)			NA	NA	NA	NA			0.525	1.51	1.18	NA*		0.455	NA*	
Dissolved Manganese (mg/L)			NA	NA	NA	NA			NA	NA	NA	NA*		NA	NA*	
Total Alkalinity ($AaCO_3$)			NA	NA	NA	NA			NA	NA	NA	NA*		NA	NA*	
Dissolved Nitrate/Nitrite (mg/L)			NA	NA	NA	NA			NA	NA	NA	NA*		NA	NA*	
Dissolved Sulfate (mg/L)			NA	NA	NA	NA			NA	NA	NA	NA*		NA	NA*	
Total Organic Carbon (mg/L)			NA	NA	NA	NA			2.8	4.5	16.9	NA*		37.1	NA*	
Dissolved Ethane (ug/L)			NA	NA	NA	NA			<1.2	<1.2	<1.2	NA*		<0.39	NA*	
Dissolved Ethene (ug/L)			NA	NA	NA	NA			<1.2	<1.2	<1.2	NA*		<0.25	NA*	
Dissolved Methane (ug/L)			NA	NA	NA	NA			0.89j	<0.66	<0.66	NA*		4,530	NA*	
Field Parameters																
Temperature (^oF)			NA	NA	NA	NA			59.7	46.9	49.6	51.2		61.5	NM	
Conductivity (ms/cm)			NA	NA	NA	NA			1,194	1,174	1,108	1,423		1,896	NM	
Dissolved Oxygen (mg/L)			NA	NA	NA	NA			2.80	3.67	3.35	3.27		1.93	NM	
pH			NA	NA	NA	NA			7.00	7.01	7.49	7.10		7.33	NM	
Redox Potential (mV)			NA	NA	NA	NA			-62.0	31.9	-195.6	108.9		-87.1	NM	

NDA = No Data Available, laboratory reports not provided
PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit
j - Estimated Value between detection limit and quantification limit
*TW1400 did not contain enough water to analyze for inorganics

TABLE 2p
TW1500/MW1500 GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			TW1500			*MW1500*								
PARAMETER	**ES**	**PAL**	***10/10/02***	***4/1/03***		***10/28/19***	***2/5/20***	***5/13/20***	***9/3/20***	***8/31/21***	***11/17/21***	***3/29/22***		***5/9/23***
Detected VOC's (ug/L)														
Acetone	9	1.8	NA	NA		NA	NA	NA	NA	<43.2	<8.6	<17.3		<17.3
Benzene	5	0.5	<0.31	<0.31		<2.5	<1.2	*2.2j*	<1.2	<1.5	*0.78j*	<0.59		*0.62j*
2-Butanone (MEK)	4	0.4	NA	NA		NA	NA	NA	NA	<32.6	<6.5	<13.0		<13.0
Ethylbenzene	700	140	<0.5	<0.5		<2.2	<1.1	<1.6	<1.6	<1.6	<0.33	<0.65		<0.65
Naphthalene	100	10	<0.8	<0.8		<11.8	<5.9	<5.9	<5.9	<5.9	<1.1	<2.3		<2.3
Methyl-tert-Butyl Ether	60	12	<0.3	<0.3		<12.5	<6.2	<6.2	<6.2	<5.6	<1.1	<2.3		<2.3
Toluene	800	160	<0.3	<0.3		<1.7	<0.86	<1.3	<1.3	<1.4	<0.29	<0.58		<0.58
cis-1,2-Dichloroethene	70	7	*16.6*	*9.23*		**640**	**430**	**760**	**427**	**387**	**93.4**	**120**		**77.4**
trans-1,2-Dichloroethene	100	20	2.92	<0.2		**164**	**129**	**297**	**168**	**180**	*93.8*	<6.9		*78.9*
Vinyl Chloride	0.2	0.02	<0.2	<0.2		<1.7	<0.87	**2.0j**	**7.0**	**41.5**	**46.8**	**42.5**		**73.5**
Tetrachloroethene	5	0.5	0.339j	0.351j		<3.3	**25.0**	<1.6	<1.6	**38.3**	<0.41	<0.82		<0.82
Trichloroethene	5	0.5	*0.664j*	<0.36		<2.6	**18.3**	<1.3	<1.3	**12.4**	<0.32	<0.64		<0.64
Total Trimethylbenzenes	480	96	<0.71	<0.71		<17.1	<8.6	<8.6	<8.6	<4	<0.81	<1.61		<1.61
Total Xylenes	2,000	400	<0.92	<0.92		<7.3	<4.6	<3.6	<3.6	<5.2	<1.05	<2.1		<2.1
Geochemical Indicator Parameters														
Ferrous Iron (mg/L)			NA	NA		<0.28	<0.021	<0.021	<0.021	0.10	0.75	0.16		NA
Nitrate-Nitrogen (mg/L)			NA	NA		0.67	<0.044	<0.044	<0.044	<0.044	NA	NA		NA
Chloride (mg/L)			NA	NA		127	145	111	130	109	NA	120		NA
Sulfate (mg/L)			NA	NA		NA	NA	41.2	10.7	78.6	NA	12.6		NA
Manganese (mg/L)			NA	NA		0.0586	0.525	0.510	0.599	0.671	0.459	0.484		NA
Dissolved Manganese (mg/L)			NA	NA		NA	NA	NA	NA	NA	NA	NA		NA
Total Alkalinity ($AaCO_3$)			NA	NA		450	NA	NA	NA	NA	NA	NA		NA
Dissolved Nitrate/Nitrite (mg/L)			NA	NA		NA	NA	NA	NA	NA	NA	NA		NA
Dissolved Sulfate (mg/L)			NA	NA		NA	NA	NA	NA	NA	NA	NA		NA
Total Organic Carbon (mg/L)			NA	NA		13.6	20.1	15.3	15.3	12.9	14.4	11.0		NA
Dissolved Ethane (ug/L)			NA	NA		<1.2	<1.2	<1.2	<1.2	<0.39	<0.39	<0.39		NA
Dissolved Ethene (ug/L)			NA	NA		<1.2	<1.2	<1.2	1.4j	11.0	31.0	19.1		NA
Dissolved Methane (ug/L)			NA	NA		137	642	4,280	6,730	2,180	4,590	4,790		NA
Field Parameters														
Temperature (^oF)			NA	NA		58.7	46.0	49.5	64.1	67.8	59.8	43.7		50.2
Conductivity (ms/cm)			NA	NA		1,099	1,207	1,297	1,312	1,193	1,503	1,384		1,735
Dissolved Oxygen (mg/L)			NA	NA		7.48	0.18	0.86	0.34	1.15	0.91	2.18		2.48
pH			NA	NA		7.05	7.14	7.11	7.03	6.87	7.43	7.23		6.35
Redox Potential (mV)			NA	NA		36.4	31.2	-8.5	-130.0	-42.4	-50.2	-99.6		-17.8

Cap 18 Injection - 6/19-6/20/19

Hotspot Excavation 4/11/23

NDA = No Data Available, laboratory reports not provided

PAL = Preventive Action Limit

ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed

< - Concentration less than listed detection limit

j - Estimated Value between detection limit and quantification limit

TABLE 2q
TW3100 GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			TW3100
PARAMETER	**ES**	**PAL**	***4/1/03***
Detected VOC's (ug/L)			
Benzene	5	0.5	<0.31
Ethylbenzene	700	140	<0.5
Naphthalene	100	10	<0.8
Methyl-tert-Butyl Ether	60	12	<0.3
Toluene	800	160	<0.3
cis-1,2-Dichloroethene	70	7	<0.23
trans-1,2-Dichloroethene	100	20	<0.39
Vinyl Chloride	0.2	0.02	<0.2
Tetrachloroethene	5	0.5	<0.32
Trichloroethene	5	0.5	<0.36
Total Trimethylbenzenes	480	96	<0.71
Total Xylenes	2,000	400	<0.92
Geochemical Indicator Parameters			
Ferrous Iron (mg/L)			NA
Nitrate-Nitrogen (mg/L)			NA
Chloride (mg/L)			NA
Dissolved Manganese (mg/L)			NA
Total Alkalinity ($AaCO_3$)			NA
Dissolved Nitrate/Nitrite (mg/L)			NA
Dissolved Sulfate (mg/L)			NA
Total Organic Carbon (mg/L)			NA
Dissolved Ethane (ug/L)			NA
Dissolved Ethene (ug/L)			NA
Dissolved Methane (ug/L)			NA
Field Parameters			
Temperature (^oF)			NA
Conductivity (ms/cm)			NA
Dissolved Oxygen (mg/L)			NA
pH			NA
Redox Potential (mV)			NA

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PAL = Preventive Action Limit

ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

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< - Concentration less than listed detection limit

j - Estimated Value between detection limit and quantification limit

TABLE 2r
TW3500 GROUNDWATER ANALYTICAL RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

			TW3500
PARAMETER	**ES**	**PAL**	***6/19/03***
Detected VOC's (ug/L)			
Benzene	5	0.5	<0.31
Ethylbenzene	700	140	<0.5
Naphthalene	100	10	<0.8
Methyl-tert-Butyl Ether	60	12	<0.3
Toluene	800	160	<0.3
cis-1,2-Dichloroethene	70	7	<0.23
trans-1,2-Dichloroethene	100	20	<0.39
Vinyl Chloride	0.2	0.02	<0.2
Tetrachloroethene	5	0.5	0.431j
Trichloroethene	5	0.5	<0.36
Total Trimethylbenzenes	480	96	<0.71
Total Xylenes	2,000	400	<0.92
Geochemical Indicator Parameters			
Ferrous Iron (mg/L)			NA
Nitrate-Nitrogen (mg/L)			NA
Chloride (mg/L)			NA
Dissolved Manganese (mg/L)			NA
Total Alkalinity ($AaCO_3$)			NA
Dissolved Nitrate/Nitrite (mg/L)			NA
Dissolved Sulfate (mg/L)			NA
Total Organic Carbon (mg/L)			NA
Dissolved Ethane (ug/L)			NA
Dissolved Ethene (ug/L)			NA
Dissolved Methane (ug/L)			NA
Field Parameters			
Temperature (^oF)			NA
Conductivity (ms/cm)			NA
Dissolved Oxygen (mg/L)			NA
pH			NA
Redox Potential (mV)			NA

NDA = No Data Available, laboratory reports not provided

PAL = Preventive Action Limit

ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed

< - Concentration less than listed detection limit

j - Estimated Value between detection limit and quantification limit

TABLE 3
MONITORING WELL DATA
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

	MW100	MW200	MW300	MW400	MW600	MW600r	MW800	MW1000	MW2000	MW2000r	MW2100	MW3200	PZ1700	TW900	TW1400	MW1500
Top of Casing Elevation	594.72	595.09	594.70	594.22	594.33	593.20	594.63	595.11	593.54	595.25	594.31	592.70	594.32	Not Surveyed	Not Surveyed	594.73
Depth to Water (feet)																
8/16/07	8.20	Dry	8.28	7.75	NM	NI	NI	NM	7.36	NI	8.09	6.20	8.74	NM	NM	NI
4/10/08	6.39	6.69	6.67	6.46	NM	NI	NI	NM	6.23	NI	6.80	3.46	6.81	NM	NM	NI
5/12/09	7.05	7.37	7.12	6.87	NM	NI	NI	NM	6.51	NI	7.25	4.73	7.13	NM	NM	NI
6/8/10	7.56	7.92	7.57	7.19	NM	NI	NI	NM	6.64	NI	7.57	5.39	7.41	NM	NM	NI
9/28/10	7.01	7.43	7.14	6.81	7.42	NI	NI	8.09	6.46	NI	7.39	4.79	10.42	NM	NM	NI
10/30/18	7.87	Dry	7.82	Destroyed	Destroyed	NI	NI	8.10	Destroyed	NI	7.41	5.12	NM	NM	NM	NI
10/28/19	NM*	7.65	NM*			10.12	11.65	7.67		NI	6.96	4.81	NM	Dry	7.80	8.40
2/5/20	7.84	7.89	NM*			6.79	7.72	8.21		7.63	7.41	5.16	6.96	Dry	8.13	7.51
5/13/20	7.71	7.72	NM*			5.99	7.61	7.85		7.03	7.11	7.11	5.75	Dry	7.99	7.39
9/3/20	8.38	8.65	9.65*			7.55	8.10	8.38		7.75	7.91	6.05	7.13	Dry	8.86	8.04
8/31/21	7.51	7.61	NM*			6.71	7.07	7.86		6.82	7.15	4.71	7.49	Dry	NM	7.33
3/29/22	8.15	8.21	NM*			NM	7.87	8.55		NM	7.61	5.60	7.84	Dry	5.60	7.77
5/9/23	7.44	7.52	NM*			6.54	7.36	7.66		6.86	6.87	NM	6.46	Dry	NM	7.26
Groundwater Elevation																
8/16/07	586.52	Dry	586.42	586.47	NM	NI	NI	NM	586.18	NI	586.22	586.50	585.58	NM	NM	NI
4/10/08	588.33	588.40	588.03	587.76	NM	NI	NI	NM	587.31	NI	587.51	589.24	587.51	NM	NM	NI
5/12/09	587.67	587.72	587.58	587.35	NM	NI	NI	NM	587.03	NI	587.06	587.97	587.19	NM	NM	NI
6/8/10	587.16	587.17	587.13	587.03	NM	NI	NI	NM	586.90	NI	586.74	587.31	586.91	NM	NM	NI
9/28/10	587.71	587.66	587.56	587.41	586.91	NI	NI	587.02	587.08	NI	586.92	587.91	583.90	NM	NM	NI
10/30/18	586.85	Dry	586.88	Destroyed	Destroyed	NI	NI	587.01	Destroyed	NI	586.90	587.58	NM	NM	NM	NI
10/28/19	NM	587.44	NM*			583.08	582.98	587.44		NI	587.35	587.89	NM	Dry	-	586.33
2/5/20	586.88	587.20	NM*			586.41	586.91	586.90		587.62	586.90	587.54	587.36	Dry	-	587.22
5/13/20	587.01	587.37	NM*			587.21	587.02	587.26		588.22	587.20	585.59	588.57	Dry	-	587.34
9/3/20	586.34	586.44	585.05*			585.65	586.53	586.73		587.50	586.40	586.65	587.19	Dry	-	586.69
8/31/21	587.21	587.48	NM*			586.49	587.56	587.25		588.43	587.16	587.99	586.83	Dry	NM	587.40
3/29/22	586.57	586.88	NM*			NM	586.76	586.56		NM	586.70	587.10	586.48	Dry	-	586.96
5/9/23	587.28	587.57	NM*			586.66	587.27	587.45		588.39	587.44	NM	587.86	Dry	-	587.47

NM = Not Measured
NI = Not Installed
* CAP 18 injection oil present in MW100 & MW300, Unable to obtain accurate DTW

TABLE 4a
AMBIENT AIR SAMPLING RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

					Sample -->	***West***	***Center***	***East***	***Entrance***	***AA856M***			***AA714L***		
					Collected By-->	***AD***	***AD***	***AD***	***AD***	***AD***	***AD***	***AD***	***AD***	***AD***	***AD***
					Sample Date-->	***9/3/20***	***9/3/20***	***9/3/20***	***9/3/20***	***4/14/22***	***8/22/22***	***3/2-3/9/23***	***4/14/22***	***8/22/22***	***3/2-3/9/23***
TO-15 Detected VOC's (µg/m³)	**CAS Number**	carcinogen	***Indoor Air VAL*** Residential [R]	Small Commercial [SC]	Large Commercial/ Industrial [LC/I]										
Acetone	67-64-1	n	32,200	135,000	135,000	<0.897	20.6	45	12	34	1050	NA	1118	69	NA
Acrolein	107-02-8	n	0.0209	0.0876	0.0876	**3.03**	<0.188	<0.188	<0.188	NA	NA	NA	NA	NA	NA
Benzene	71-43-2	c	3.6	16	16	**56**	**54**	**54**	**52**	1.66	1.76	NA	7.9	0.80	NA
Benzyl chloride	100-44-7	c	0.573	2.5	2.5	<0.627	<0.418	<0.418	<0.418	<0.209	<0.209	NA	<0.209	<0.209	NA
Bromodichloromethane	75-27-4	c	0.759	3.31	3.31	<1.122	<0.748	<0.748	<0.748	<0.374	0.80j	NA	<0.374	0.94j	NA
Bromoform	75-25-2	c	25.5	111	111	<1.242	<0.828	<0.828	<0.828	<0.414	<0.414	NA	<0.414	<0.414	NA
Bromomethane	74-83-9	n	5.21	21.9	21.9	<0.6	<0.4	<0.4	<0.4	<0.2	<0.2	NA	<0.2	<0.2	NA
1,3-Butadiene	106-99-0	c	0.936	4.09	4.09	<0.429	<0.286	<0.286	<0.286	0.77	0.62	NA	<0.143	<0.143	NA
Carbon disulfide	75-15-0	c	730	3,070	3,070	20.2	2.86	3.2	2.86	1.43	0.37j	NA	1.37	1.24	NA
Carbon tetrachloride	56-23-5	c	4.68	20.4	20.4	<0.921	<0.614	0.63j	0.63j	0.63j	0.57j	NA	<0.307	0.50j	NA
Chlorobenzene	108-90-7	c	52.1	219	219	<0.753	<0.502	<0.502	<0.502	<0.251	<0.251	NA	<0.251	<0.251	NA
Chloroethane	75-00-3	- -	- -	- -	- -	<0.477	<0.318	<0.318	<0.318	<0.159	<0.159	NA	<0.159	<0.159	NA
Chloroform	67-66-3	c	1.22	5.33	5.33	<0.9	<0.6	<0.6	<0.6	0.49j	2.34	NA	<0.3	1.95	NA
Chloromethane	74-87-3	n	93.9	394	394	<2.493	<1.662	<1.661	<1.662	1.67j	1.53j	NA	1.4j	1.22j	NA
Chlorohexane	544-10-5	- -	- -	- -	- -	13.5	12.5	12.6	11.7	<0.212	2.1	NA	5.5	1.5	NA
Dibromochloromethane	124-48-1	- -	- -	- -	- -	<1.128	<0.752	<0.752	<0.752	<0.376	<0.376	NA	<0.376	<0.376	NA
1,4-Dichlorobenzene	106-46-7	c	2.55	11.1	11.1	1.8j	0.96j	1.2j	1.2j	<0.302	<0.302	NA	<0.302	0.42j	NA
1,3-Dichlorobenzene	541-73-1	- -	- -	- -	- -	<0.906	<0.604	<0.604	<0.604	<0.302	<0.302	NA	<0.302	<0.302	NA
1,2-Dichlorobenzene	95-50-1	n	209	876	876	<0.705	<0.47	<0.47	<0.47	<0.235	<0.235	NA	<0.235	<0.235	NA
Dichlorodifluoromethane	75-71-8	n	104	438	438	3.11	3.2	3.2	3.07	3.11	3.5	NA	10.3	2.52	NA
1,2-Dichloroethane	107-06-2	c	1.08	4.72	4.72	<0.72	<0.48	<0.48	<0.48	0.243j	2.06	NA	<0.24	14.9	NA
1,1-Dichloroethane	75-34-3	c	17.5	76.7	76.7	<0.561	<0.374	<0.374	<0.374	<0.187	<0.187	NA	<0.187	<0.187	NA
1,1-Dichloroethene	75-35-4	n	209	876	876	<0.63	<0.42	<0.42	<0.42	<0.21	<0.21	NA	<0.21	<0.21	NA
cis-1,2-Dichloroethene	156-59-2	- -	- -	- -	- -	<0.591	<0.394	<0.394	<0.394	<0.197	<0.197	<0.197	<0.197	<0.197	<0.197
trans-1,2-Dichloroethene	156-60-5	c	- -	- -	- -	<0.693	<0.462	<0.462	<0.462	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231
1,2-Dichloropropane	78-87-5	n	4.17	17.5	17.5	<0.84	<0.56	<0.56	<0.56	<0.28	<0.28	NA	<0.28	<0.28	NA
trans-1,3-Dichloropropene	10061-02-6	- -	- -	- -	- -	<0.594	<0.396	<0.396	<0.396	<0.198	<0.198	NA	<0.198	<0.198	NA
cis-1,3-Dichloropropene	10061-01-5	- -	- -	- -	- -	<0.702	<0.468	<0.468	<0.468	<0.234	<0.234	NA	<0.234	<0.234	NA
Dichlorotetrafluoroethane (1,2-)	76-14-2	- -	- -	- -	- -	<1.338	<0.892	<0.892	<0.892	<0.446	<0.446	NA	<0.446	<0.446	NA
1,4-Dioxane	123-91-1	c	5.62	24.5	24.5	<0.471	<0.314	<0.314	<0.314	<0.157	<0.157	NA	<0.157	<0.157	NA
1,2-Dibromoethane (EDB)	106-93-4	c	0.0468	0.204	0.204	<1.026	<0.684	<0.684	<0.684	<0.342	<0.342	NA	<0.342	<0.342	NA
Ethanol	64-17-5	- -	- -	- -	- -	130	109	104	87	870	1320	NA	670	330	NA
Ethyl acetate	141-78-6	n	73	307	307	<0.528	<0.352	<0.352	<0.352	2.85	7.0	NA	7.2	15.7	NA
Ethylbenzene	100-41-4	c	11.2	49.1	49.1	*38*	*37*	*37*	*33*	0.91	2.86	NA	8.6	4.1	NA
4-Ethyltouene	622-96-8	- -	- -	- -	- -	15.3	15	15.5	11.6	<0.214	0.39j	NA	4.8	0.39j	NA
n-Heptane	142-82-5	n	417	1,750	1,750	46	44	44	42	0.75j	2.78	NA	8.2	1.39	NA
Hexachloro-1,3-butadiene	87-68-3	c	1.28	5.57	5.57	<1.467	<0.978	<0.978	<0.978	<0.489	<0.489	NA	<0.489	<0.489	NA
n-Hexane	110-54-3	n	730	1,750	1,750	45	39	39	36	7.9	14.2	NA	23.5	10.3	NA
2-Hexanone	591-78-6	n	31.3	131	131	<0.666	<0.444	<0.444	<0.444	0.286j	<0.222	NA	<0.222	<0.222	NA
2-Propanol (Isopropanol)	67-63-0	n	209	876	876	<0.327	<0.218	<0.218	<0.218	5.9	57	NA	21.8	46	NA
2-Butanone (MEK)	78-93-3	n	5,210	21,900	21,900	4.8	5.4	4.10	3.07	3.15	11.6	NA	4.80	6.4	NA
4-Methyl-2-pentanone (MIBK)	108-11-2	n	3,130	13,100	13,100	<0.504	1.15	<0.336	<0.336	0.41j	0.78	NA	0.86	0.61	NA
Methyl Methacrylate	80-62-6	n	730	3,070	3,070	<0.651	<0.434	<0.434	<0.434	<0.217	0.37j	NA	<0.217	2.87j	NA
Methylene Chloride	75-09-2	n	626	2,630	2,630	<45	<30	<30	<30	15.9	<15	NA	<15	<15	NA
Methyl-tert-butyl ether (MTBE)	1634-04-4	c	108	472	472	<0.48	<0.32	<0.32	<0.32	<0.16	<0.16	NA	<0.16	<0.16	NA
Naphthalene	91-20-3	n	0.826	3.61	3.61	**7.8**	**6.2**	**5.9**	**3.7j**	*0.89j*	*1.67j*	NA	*1.62j*	*1.15j*	NA
Propylene	115-07-1	n	3,130	13,100	13,100	<0.237	<0.158	<0.158	<0.158	<0.079	<0.079	NA	<0.079	9.2	NA
Styrene	100-42-5	n	1,040	4,380	4,380	0.64j	0.6j	0.43j	<0.362	0.68	1.32	NA	22.9	7.1	NA
1,1,2,2-Tetrachloroethane	79-34-5	c	0.484	2.11	2.11	<0.975	<0.65	<0.65	<0.65	<0.325	<0.325	NA	<0.325	<0.325	NA
Tetrachloroethene (PCE)	127-18-4	n	41.7	175	175	5.7	8.7	14.4	<0.556	<0.278	1.09	1.02	1.43	0.48j	0.75j
Tetrahydrofuran	109-99-9	n	2,090	8,760	8,760	<0.393	<0.262	<0.262	<0.262	0.68	1.27	NA	15.1	0.50	NA
Toluene	108-88-3	n	5,210	21,900	21,900	245	236	239	221	3.05	6.0	NA	40	7.6	NA
1,2,4-Trichlorobenzene	120-82-1	n	2.09	8.76	8.76	<1.971	<1.314	<1.314	<1.314	<0.657	<0.657	NA	<0.657	<0.657	NA
1,1,1-Trichloroethane	71-55-6	n	5,210	21,900	21,900	<0.747	<0.498	<0.498	<0.498	<0.249	<0.249	NA	<0.249	<0.249	NA
1,1,2-Trichloroethane	79-00-5	n	0.209	0.876	0.876	<0.774	<0.516	<0.516	<0.516	<0.258	<0.258	NA	<0.258	<0.258	NA
Trichloroethene (TCE)	79-01-6	- -	2.09	8.76	8.76	<0.711	1.71	<0.474	<0.474	<0.237	<0.237	<0.237	0.48j	<0.237	<0.237
Trichlorofluoromethane	75-69-4	n	- -	- -	- -	2.36j	2.13j	2.02j	1.8j	1.69	1.8	NA	1.4	1.24	NA
Trichlorotrifluoroethane (1,1,2-)	76-13-1	n	5,210	21,900	21,900	<1.206	<0.804	<0.804	<0.804	0.61j	0.54j	NA	0.54j	0.54j	NA
1,2,4-Trimethylbenzene (TMB)	95-63-6	n	62.6	263	263	54	52	55	37	0.69j	1.42	NA	18.4	1.57	NA
1,3,5-Trimethylbenzene (TMB)	108-67-8	c	62.6	263	263	12.2	11.6	12.5	8.3	<0.232	0.34j	NA	4.4	0.34j	NA
Vinyl acetate	108-05-4	n	209	876	876	<0.609	<0.406	<0.406	<0.406	<0.203	<0.203	NA	<0.203	<0.203	NA
Vinyl chloride	75-01-4	n	1.68	27.9	27.9	<0.444	<0.296	<0.296	<0.296	<0.148	<0.148	<0.148	<0.148	<0.148	<0.148
Xylene, m,p-	1330-20-7	n	104	438	438	137	132	134	117	2.17	4.3	NA	28	4.9	NA
Xylene, o-		n				51	50	51	43	0.78	1.69	NA	10.9	2.64	NA

Notes:
VAL = Vapor Action Level
< = Concentration Below Laboratory Detection Limit
- = Not Sampled/Collected
- - = No Standard/Not Applicable
[J] = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ)
c = carcinogen
n = non-carcinogen
Target Risk for Carcinogens = 1.00E-05
Target Hazard Quotient for Non-Carcinogens = 1

Immediate Action Criteria for Indoor Air
Carinogens (c) = 10 x VAL
Non-carinogens (n) = 3 x VAL

Italics	= Exceeds US EPA Residential VAL
Bold	= Exceeds US EPA Commercial VAL
Underlined	= Exceeds Immediate Action Criteria for Indoor Air

TABLE 4b
SUB-SLAB AIR SAMPLING RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

					Sample -->	***VP1***	***VP2***	***VP3***	***SS856M***			***SS714L***			***SP714L***	
					Collected By-->	***AD***	***AD***	***AD***	***AD***	***AD***	***AD***	***AD***	***AD***	***AD***	***AD***	***AD***
					Sample Date-->	***10/26/21***	***10/26/21***	***10/26/21***	***4/14/22***	***8/22/22***	***3/2/23***	***4/14/22***	***8/22/22***	***3/2/23***	***4/14/22***	***8/22/22***
WDNR Common VOC's (µg/m³)	**CAS Number**	carcinogen	***Sub-Slab VRSL*** Residential [R] (AF = 0.03)	Small Commercial [SC] (AF = 0.03)	Large Commercial/ Industrial [LC/I] (AF = 0.01)											
cis-1,2-Dichloroethene	156-59-2	- -	- -	- -	- -	354	8,380	0.74j	<0.197	<0.197	<0.197	<0.197	<0.197	<0.197	<0.197	<0.197
trans-1,2-Dichloroethene	156-60-5	- -	- -	- -	- -	33.5j	246	069j	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231
Tetrachloroethene (PCE)	127-18-4	n	1,390	5,840	17,500	***<u>254,000</u>***	***<u>409,000</u>***	56.4	64	93	138	13.7	24.8	55	2.17	3.3
Trichloroethene (TCE)	79-01-6	n	69.5	292	876	***<u>3,520</u>***	***<u>14,700</u>***	3.7	1.61	2.84	1.5	1.12	1.29	0.96	0.268j	0.70j
Vinyl chloride	75-01-4	c	55.9	929	2,790	29.9j	44.0j	<0.15	0.256j	<0.148	<0.148	0.23j	<0.148	<0.148	<0.148	<0.148

<u>Notes:</u>
Indoor Air Standards based on US EPA Vapor Intrusion Screening Levels (VISL) online calculator.
VISL Calculated on Date: **<u>6/14/2019</u>**
AF = Attenuation Factor
VAL = Vapor Action Level
VRSL = Vapor Risk Screening Level
< = Concentration Below Laboratory Detection Limit
- = Not Sampled/Collected
- - = No Standard/Not Applicable
J = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ)
c = carcinogen
n = non-carcinogen
Target Risk for Carcinogens = 1.00E-05
Target Hazard Quotient for Non-Carcinogens = 1

Italics	= Exceeds US EPA Residential VRSL
Bold	= Exceeds US EPA Small Commercial VRSL
<u>Underlined</u>	= Exceeds US EPA Large Commercial/Industrial VRSL

TABLE 4c
SEWER VAPOR SAMPLING RESULTS
FORMER V&L STRIPPING
864 MATHER STREET
GREEN BAY, WI 54303

					Sample Address--->	**Sewer**	**Sewer**	**Sewer**
					Sample Location--->	***Downgradient***	***Indoor***	***Upgradient***
					Collected By--->	***AD***	***AD***	***AD***
					Sample Date--->	***3/29/2022***	***3/29/2022***	***3/29/2022***
TO-15 VOC's (µg/m³)	**CAS Number**	carcinogen	***Sub-Slab VRSL*** Residential [R] (AF = 0.03)	Small Commercial [SC] (AF = 0.03)	Large Commercial/ Industrial [LC/I] (AF = 0.01)			
Acetone	67-64-1	n	1,070,000	4,510,000	13,500,000	18.7	4200	86
Benzene	71-43-2	c	120	524	1,570	1.34	44	3.4
Benzyl chloride	100-44-7	c	19.1	83.4	250	<0.209	<0.209	<0.209
Bromodichloromethane	75-27-4	c	25.3	110	331	<0.374	<0.374	<0.374
Bromoform	75-25-2	c	851	3,720	11,100	<0.414	<0.414	<0.414
Bromomethane	74-83-9	n	174	730	2,190	<0.2	<0.2	<0.2
1,3-Butadiene	106-99-0	c	31.2	136	409	<0.143	8.6	<0.143
Carbon disulfide	75-15-0	c	24,300	102,000	307,000	<0.138	0.44j	0.44j
Carbon tetrachloride	56-23-5	c	156	681	2,040	0.44j	0.57j	0.5j
Chlorobenzene	108-90-7	c	1,740	7,300	21,900	<0.251	<0.251	<0.251
Chloroethane	75-00-3	- -	- -	- -	- -	<0.159	<0.159	<0.159
Chloroform	67-66-3	c	40.7	178	533	<0.3	0.68j	<0.3
Chloromethane	74-87-3	n	3,130	13,100	39,400	1.01j	1.18j	0.91j
Chlorohexane	544-10-5	- -	- -	- -	- -	0.93	11.7	1.07
Dibromochloromethane	124-48-1	- -	- -	- -	- -	<0.376	<0.376	<0.376
1,4-Dichlorobenzene	106-46-7	c	85	372	1,110	<0.302	<0.302	<0.302
1,3-Dichlorobenzene	541-73-1	- -	- -	- -	- -	<0.302	<0.302	<0.302
1,2-Dichlorobenzene	95-50-1	n	6,950	29,200	87,600	<0.235	<0.235	<0.235
Dichlorodifluoromethane	75-71-8	n	3,480	14,600	43,800	2.97	2.62	2.77
1,2-Dichloroethane	107-06-2	c	36	157	472	<0.24	<0.24	<0.24
1,1-Dichloroethane	75-34-3	c	585	2,560	7,670	<0.187	<0.187	<0.187
1,1-Dichloroethene	75-35-4	n	6,950	29,200	87,600	<0.21	<0.21	<0.21
cis-1,2-Dichloroethene	156-59-2	- -	- -	- -	- -	<0.197	1.86	0.99
trans-1,2-Dichloroethene	156-60-5	c	- -	- -	- -	<0.231	<0.231	<0.231
1,2-Dichloropropane	78-87-5	n	139	584	1,750	<0.28	<0.28	<0.28
trans-1,3-Dichloropropene	10061-02-6	- -	- -	- -	- -	<0.198	<0.198	<0.198
cis-1,3-Dichloropropene	10061-01-5	- -	- -	- -	- -	<0.234	<0.234	<0.234
Dichlorotetrafluoroethane (1,2-)	76-14-2	- -	- -	- -	- -	<0.446	<0.446	<0.446
1,4-Dioxane	123-91-1	c	187	818	2,450	<0.157	<0.157	<0.157
1,2-Dibromoethane (EDB)	106-93-4	c	1.56	6.81	20	<0.342	<0.342	<0.342
Ethanol	64-17-5	- -	- -	- -	- -	17.7	440	60
Ethyl acetate	141-78-6	n	2,430	10,200	30,700	2.02	20.1	3.9
Ethylbenzene	100-41-4	c	374	1,640	4,910	1.82	31.5	4.5
4-Ethyltouene	622-96-8	- -	- -	- -	- -	0.59j	27.8	1.03
n-Heptane	142-82-5	n	13,900	58,400	175,000	2.45	22.1	3.11
Hexachloro-1,3-butadiene	87-68-3	c	42.5	186	557	<0.489	<0.489	<0.489
n-Hexane	110-54-3	n	24,300	102,000	307,000	1.69	37	4.2
2-Hexanone	591-78-6	n	1,040	4,380	13,100	<0.222	<0.222	<0.222
2-Propanol (Isopropanol)	67-63-0	n	6,950	29,200	87,600	3.1	59	5.9
2-Butanone (MEK)	78-93-3	n	174,000	730,000	2,190,000	1.15	66	6.9
4-Methyl-2-pentanone (MIBK)	108-11-2	n	104,000	438,000	1,310,000	0.49j	7.7	0.286j
Methyl Methacrylate	80-62-6	n	24,300	102,000	307,000	<0.217	<0.217	<0.217
Methylene Chloride	75-09-2	n	3,600	15,700	47,200	<15	16.3	15.9
Methyl-tert-butyl ether (MTBE)	1634-04-4	c	20,900	87,600	263,000	<0.16	<0.16	<0.16
Naphthalene	91-20-3	n	27.5	120	361	0.94j	4.7	0.78j
Propylene	115-07-1	n	104,000	438,000	1,310,000	<0.079	63	<0.079
Styrene	100-42-5	n	34,800	146,000	438,000	1.06	3.8	1.74
1,1,2,2-Tetrachloroethane	79-34-5	c	16.1	70.5	211	<0.325	<0.325	<0.325
Tetrachloroethene (PCE)	127-18-4	n	1,390	5,840	17,500	5.8	31.4	13
Tetrahydrofuran	109-99-9	n	69,500	292,000	876,000	0.65	9.2	2.03
Toluene	108-88-3	n	174,000	730,000	2,190,000	7.7	410	54
1,2,4-Trichlorobenzene	120-82-1	n	69.5	292	876	<0.657	<0.657	<0.657
1,1,1-Trichloroethane	71-55-6	n	174,000	730,000	2,190,000	<0.249	<0.249	<0.249
1,1,2-Trichloroethane	79-00-5	n	6.95	29.2	87.6	<0.258	<0.258	<0.258
Trichloroethene (TCE)	79-01-6	- -	69.5	292	876	0.268j	2.3	0.75j
Trichlorofluoromethane	75-69-4	n	- -	- -	- -	1.35	1.35	1.29
Trichlorotrifluoroethane (1,1,2-)	76-13-1	n	174,000	730,000	2,190,000	0.46j	0.54j	0.61j
1,2,4-Trimethylbenzene (TMB)	95-63-6	n	2,090	8,760	26,300	1.52	89	2.11
1,3,5-Trimethylbenzene (TMB)	108-67-8	c	2,090	8,760	26,300	0.44j	47	0.78
Vinyl acetate	108-05-4	n	6,950	29,200	87,600	<0.203	<0.203	<0.203
Vinyl chloride	75-01-4	n	55.9	929	2,790	<0.148	<0.148	<0.148
Xylene, m,p-	1330-20-7	n	3,480	14,600	43,800	5.9	73	14.3
Xylene, o-		n				1.82	16.2	4.9

Notes:
Indoor Air Standards based on US EPA Vapor Intrusion Screening Levels (VISL) online calculator.
VISL Calculated on Date: **6/14/2019**
AF = Attenuation Factor
VAL = Vapor Action Level
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c = carcinogen
n = non-carcinogen
Target Risk for Carcinogens = 1.00E-05
Target Hazard Quotient for Non-Carcinogens = 1

Italics	= Exceeds US EPA Residential VRSL
Bold	= Exceeds US EPA Small Commercial VRSL
Underlined	= Exceeds US EPA Large Commercial/Industrial VRSL

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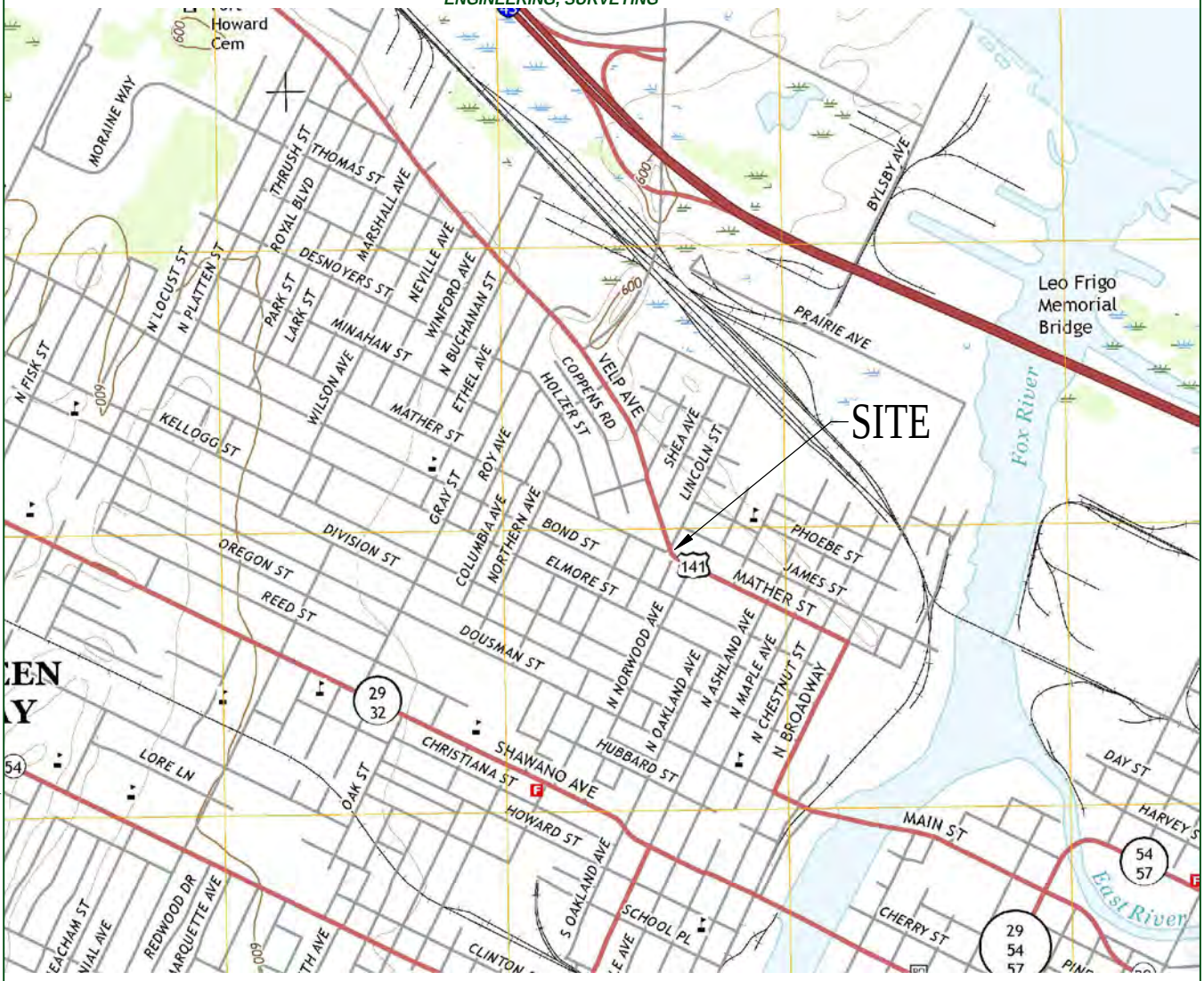

SCALE 1:24 000

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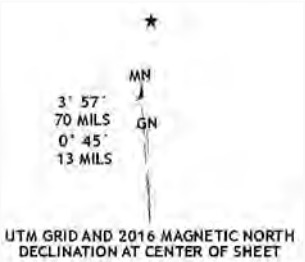
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988



UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

GREEN BAY WEST QUADRANGLE
WISCONSIN-BROWN CO.
7.5-MINUTE SERIES

QUADRANGLE LOCATION

REI ENGINEERING, INC.

V&L STRIPPING (FORMER)
864 MATHER STREET
GREEN BAY, WISCONSIN 54303

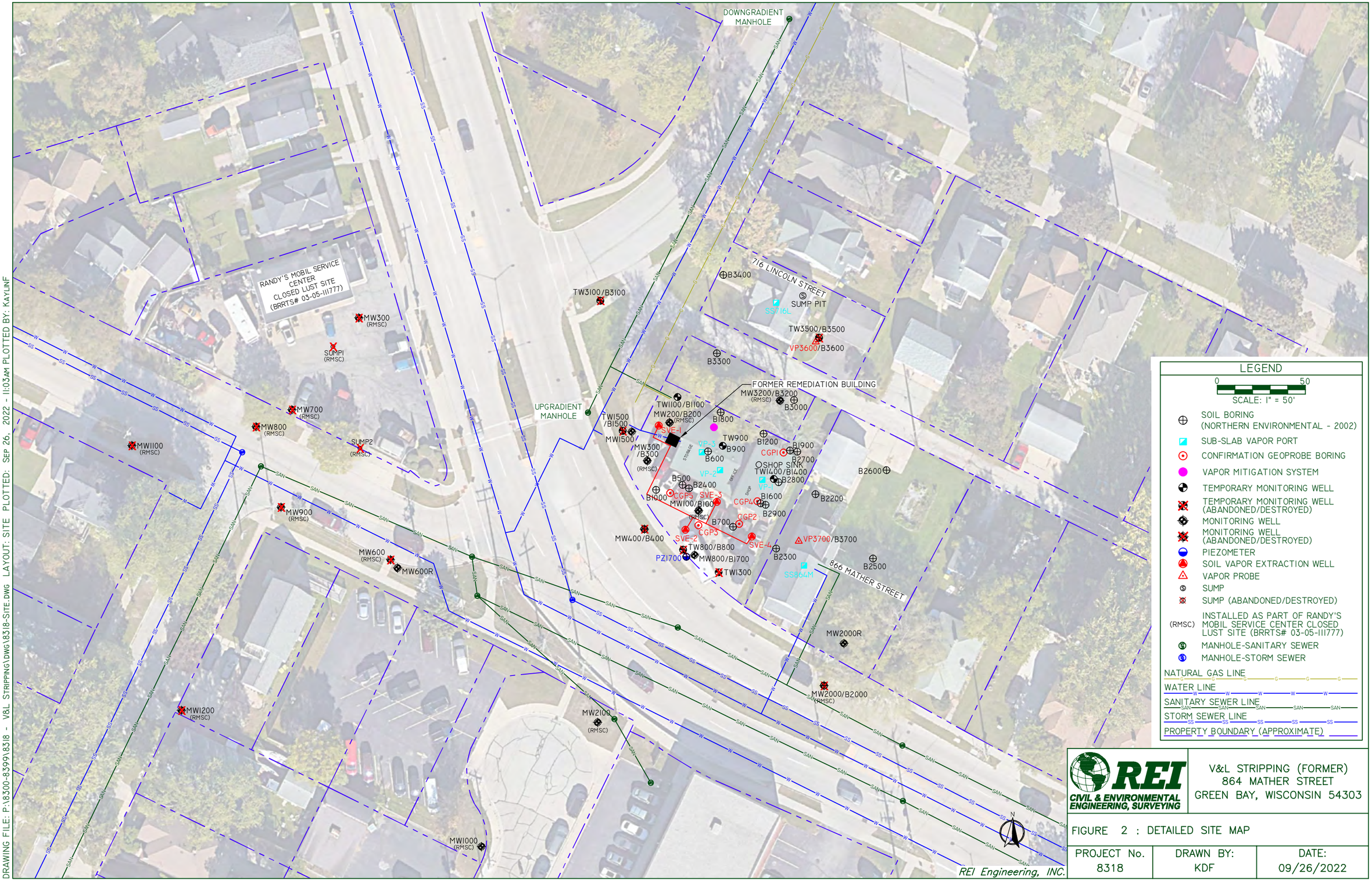
N

FIGURE 1 : VICINITY MAP

PROJECT NO.	DRAWN BY:	DATE:
8318	MCM	9/10/2018

DRAWING FILE: P:\8300-8399\8318 - V&L STRIPPING\DWG\8318-VICN.DWG LAYOUT: VICN PLOTTED: JAN 10, 2022 - 2:21PM PLOTTED BY: NATHANP

DRAWING FILE: P:\8300-8399\8318 - V&L STRIPPING\DWG\8318-SITE.DWG LAYOUT: SITE PLOTTED: SEP 26, 2022 - 11:03AM PLOTTED BY: KAYLINF



REI Engineering, INC.

REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

V&L STRIPPING (FORMER)
864 MATHER STREET
GREEN BAY, WISCONSIN 54303

FIGURE 2 : DETAILED SITE MAP

PROJECT No.	DRAWN BY:	DATE:
8318	KDF	09/26/2022

DRAWING FILE: P:\8300-8399\8318 - V&L STRIPPING\DWG\8318-RESIDUAL SOIL CONTAMINATION PCE.DWG LAYOUT: RSC PLOTTED: JUN 06, 2023 - 8:44AM PLOTTED BY: CHASEK

TW3100
/B3100
SS716L
TW3500 /B3500
VP3600/B3600
B3300
FORMER REMEDIATION BUILDING
MW3200/B3200
(RMSC)
B3000
TWI100/BI100
MW200/B200
(RMSC)
BI800
SVE-1
TWI500/BI500
MWI500
BI200
SWN
SWW
AREA OF EXCAVATION
TW900
VP-3
BI900
SWE
B900
CGPI
STORAGE
B600
B2700
MW300/B300
(RMSC)
VP-2
OFFICE
TWI400/BI400
B2800
VP-1
B500
B2400
SHOP
CGP5
BI000
CGP4
BI600
B2600
B2200
MWI00/BI00
(RMSC)
SVE-3
B2900
CGP2
B700
SVE-4
CGP3
SVE-2
MW400/B400
VP3700/B3700
TW800/B800
B2300
PZI700
MW800/BI700
B2500
SS864M
866 MATHER STREET
TWI300

LEGEND

0 20
SCALE: 1" = 20'

- CONFIRMATION SOIL SAMPLE
- SOIL BORING (NORTHERN ENVIRONMENTAL - 2002)
- VAPOR MITIGATION SYSTEM
- RESIDUAL SOIL CONTAMINATION
- (RMSC) INSTALLED AS PART OF RANDY'S MOBIL SERVICE CENTER CLOSED LUST SITE (BRRTS# 03-05-111777)
- TEMPORARY MONITORING WELL (ABANDONED/DESTROYED)
- MONITORING WELL (ABANDONED/DESTROYED)
- MONITORING WELL
- PIEZOMETER
- TEMPORARY MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- VAPOR PROBE
- SUMP
- MANHOLE-SANITARY SEWER
- MANHOLE-STORM SEWER

NATURAL GAS LINE
WATER LINE
SANITARY SEWER LINE
STORM SEWER LINE
PROPERTY BOUNDARY (APPROXIMATE)

REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

V&L STRIPPING (FORMER)
864 MATHER STREET
GREEN BAY, WISCONSIN 54303

FIGURE 3 : AREA OF EXCAVATION + RESIDUAL SOIL CONT. (PCB)

PROJECT No.	DRAWN BY:	DATE:
8318	CJK	06/05/2023

REI Engineering, INC.

DRAWING FILE: P:\8300-8399\8318 - V&L STRIPPING\DWG\8318-GW FLOW-050923.DWG LAYOUT: GW PLOTTED: JUN 06, 2023 - 9:13AM PLOTTED BY: CHASEK

RANDY'S MOBIL SERVICE CENTER
CLOSED LUST SITE
(BRRTS# 03-05-111777)

716 LINCOLN STREET

866 MATHER STREET

FORMER REMEDIATION BUILDING

STORAGE

OFFICE

SHOP

MW300 (RMSC)
MW700 (RMSC)
MW800 (RMSC)
MW1100 (RMSC)
MW900 (RMSC)
MW600 (RMSC)
MW600R
MW1200 (RMSC)
MW1000 (RMSC)
MW2100 (RMSC)
MW2000R
MW2000/B2000 (RMSC)
MW3200/B3200 (RMSC)
MW300/B300 (RMSC)
MW100/B100 (RMSC)

TW3100/B3100
TW3500/B3500
VP3600/B3600
VP3700/B3700
B3400
B3300
B3000
B2600
B2500
B2200
TW1500/B1500
TW1100/B1100
MW1500
MW200/B200
B1800
TW900
B900
B1200
B1900
B600
CGP1
B2700
TW1400/B1400
B2800
B500
B2400
VP-1
B1600
B1000
CGP5
SVE-3
CGP4
B2900
B700
CGP2
CGP3
SVE-2
SVE-4
MW400/B400
MW800/B800
MW800/B1700
PZ1700
TW1300
B2500
SS716L
SS864M
VP-3

587.47
587.37
587.14
587.28
587.27
587.44
587.45
586.66
588.39

586.8
587
587.2
587.4
587.6
587.8
588

LEGEND

SCALE: 1" = 40'

- VAPOR MITIGATION SYSTEM
- (RMSC) INSTALLED AS PART OF RANDY'S MOBIL SERVICE CENTER CLOSED LUST SITE (BRRTS# 03-05-111777)
- TEMPORARY MONITORING WELL (ABANDONED/DESTROYED)
- MONITORING WELL (ABANDONED/DESTROYED)
- MONITORING WELL
- PIEZOMETER
- TEMPORARY MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- VAPOR PROBE
- SUMP
- MANHOLE-SANITARY SEWER
- MANHOLE-STORM SEWER

NATURAL GAS LINE
WATER LINE
SANITARY SEWER LINE
STORM SEWER LINE
PROPERTY BOUNDARY (APPROXIMATE)

REI Engineering, INC.

CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

V&L STRIPPING (FORMER)
864 MATHER STREET
GREEN BAY, WISCONSIN 54303

FIGURE 4 : GROUNDWATER FLOW (05/09/2023)

PROJECT No.	DRAWN BY:	DATE:
8318	CJK	06/06/2023

RANDY'S MOBIL SERVICE CENTER
CLOSED LUST SITE
(BRRTS# 03-05-111777)

716 LINCOLN STREET

866 MATHER STREET

FORMER REMEDIATION BUILDING

STORAGE

OFFICE

SHOP

MW300 (RMSC)
MW700 (RMSC)
MW800 (RMSC)
MWI100 (RMSC)
MW900 (RMSC)
MW600 (RMSC)
MW600R
MWI200 (RMSC)
MWI000 (RMSC)
MW2100 (RMSC)
MW2000R
MW2000/B2000 (RMSC)
MW3200/B3200 (RMSC)
MW200/B200 (RMSC)
MW300/B300 (RMSC)
MW400/B400
MWI00/BI00 (RMSC)
MW800/BI700
TW3100/B3100
TWI500/BI500
TWII00/BI100
TW800/B800
TWI300
TW3500/B3500
VP3600/B3600
VP3700/B3700
B3400
B3300
B3000
BI800
BI200
BI900
B2700
B900
B600
B500
B2400
BI000
BI600
B2900
B700
B2600
B2200
B2300
B2500
SS716L
SS864M
PZI700
SVE-1
SVE-2
SVE-3
SVE-4
CGP5
CGP4
CGP2
CGP3
VP-1
VP-2
VP-3

LEGEND

0 40
SCALE: 1" = 40'

- VAPOR MITIGATION SYSTEM
- PCE >NRI40 ES
- TCE >NRI40 ES
- (RMSC) INSTALLED AS PART OF RANDY'S MOBIL SERVICE CENTER CLOSED LUST SITE (BRRTS# 03-05-111777)
- TEMPORARY MONITORING WELL (ABANDONED/DESTROYED)
- MONITORING WELL (ABANDONED/DESTROYED)
- MONITORING WELL
- PIEZOMETER
- TEMPORARY MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- VAPOR PROBE
- SUMP
- MANHOLE-SANITARY SEWER
- MANHOLE-STORM SEWER
- NATURAL GAS LINE
- WATER LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- PROPERTY BOUNDARY (APPROXIMATE)

REI Engineering, INC.

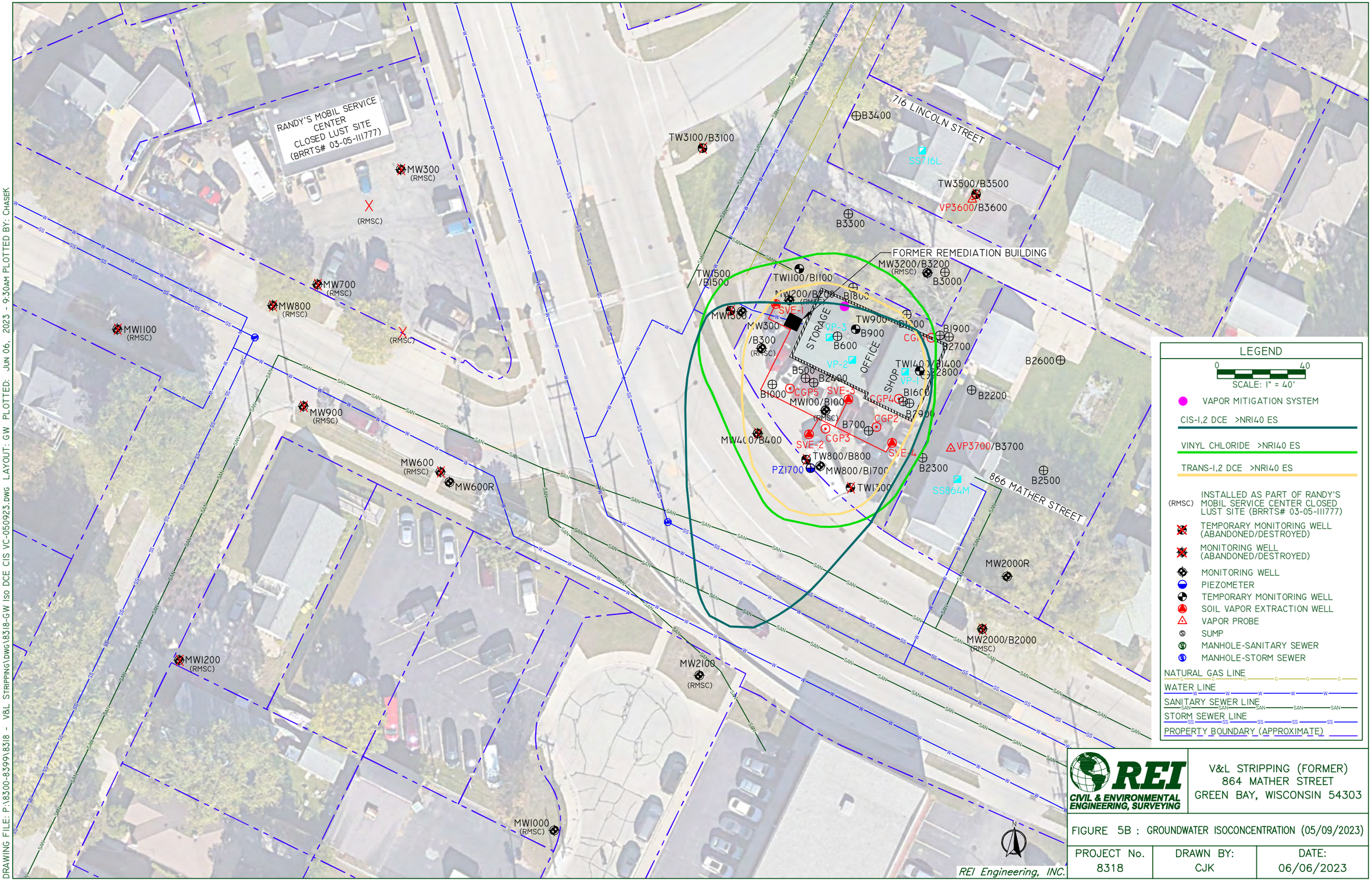
REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

V&L STRIPPING (FORMER)
864 MATHER STREET
GREEN BAY, WISCONSIN 54303

FIGURE 5A : GROUNDWATER ISOCONCENTRATION (05/09/2023)

PROJECT No.	DRAWN BY:	DATE:
8318	CJK	06/06/2023

DRAWING FILE: P:\8300-8399\8318 - V&L STRIPPING\DWG\8318-GW ISO TCE PCE-050923.DWG LAYOUT: GW PLOTTED: JUN 06, 2023 - 9:20AM PLOTTED BY: CHASEK



LEGEND

0 — 40
SCALE: 1" = 40'

- VAPOR MITIGATION SYSTEM
- CIS-1,2 DCE >NRI40 ES
- VINYL CHLORIDE >NRI40 ES
- TRANS-1,2 DCE >NRI40 ES
- (RMSC) INSTALLED AS PART OF RANDY'S MOBIL SERVICE CENTER CLOSED LUST SITE (BRRTS# 03-05-111777)
- TEMPORARY MONITORING WELL (ABANDONED/DESTROYED)
- MONITORING WELL (ABANDONED/DESTROYED)
- MONITORING WELL
- PIEZOMETER
- TEMPORARY MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- VAPOR PROBE
- SUMP
- MANHOLE-SANITARY SEWER
- MANHOLE-STORM SEWER

NATURAL GAS LINE
WATER LINE
SANITARY SEWER LINE
STORM SEWER LINE
PROPERTY BOUNDARY (APPROXIMATE)

REI Engineering, INC.

REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

V&L STRIPPING (FORMER)
864 MATHER STREET
GREEN BAY, WISCONSIN 54303

FIGURE 5B : GROUNDWATER ISOCONCENTRATION (05/09/2023)

PROJECT No.	DRAWN BY:	DATE:
8318	CJK	06/06/2023

DRAWING FILE: P:\8300-8399\8318 - V&L STRIPPING\DWG\8318-GW ISO DCE CIS VC-050923.DWG LAYOUT: GW PLOTTED: JUN 06, 2023 - 9:30AM PLOTTED BY: CHASEK

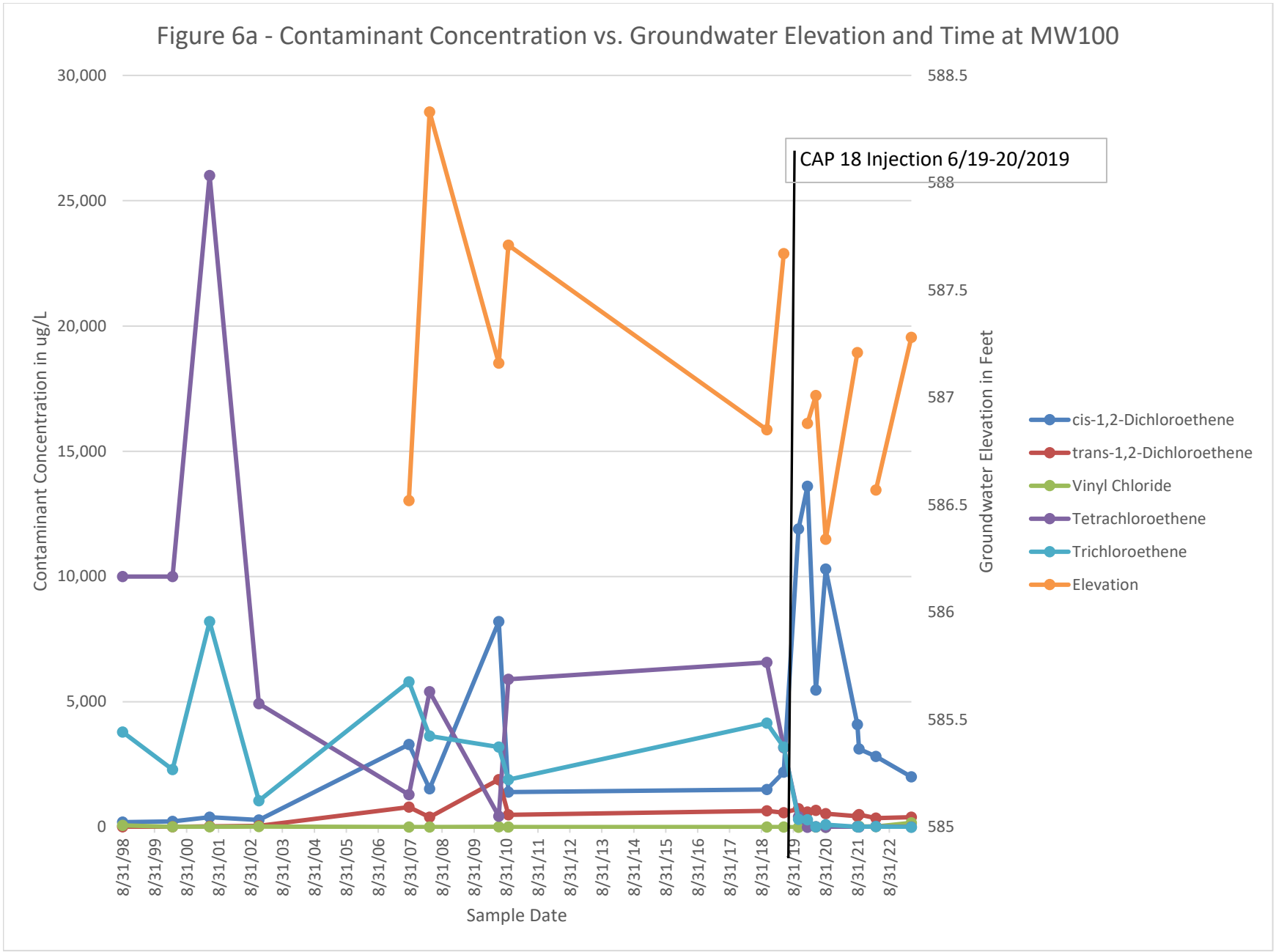


Figure 6a - Contaminant Concentration vs. Groundwater Elevation and Time at MW100
CAP 18 Injection 6/19-20/2019
Contaminant Concentration in ug/L
Groundwater Elevation in Feet
Sample Date
30,000
25,000
20,000
15,000
10,000
5,000
0
588.5
588
587.5
587
586.5
586
585.5
585
8/31/98
8/31/99
8/31/00
8/31/01
8/31/02
8/31/03
8/31/04
8/31/05
8/31/06
8/31/07
8/31/08
8/31/09
8/31/10
8/31/11
8/31/12
8/31/13
8/31/14
8/31/15
8/31/16
8/31/17
8/31/18
8/31/19
8/31/20
8/31/21
8/31/22
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
Vinyl Chloride
Tetrachloroethene
Trichloroethene
Elevation

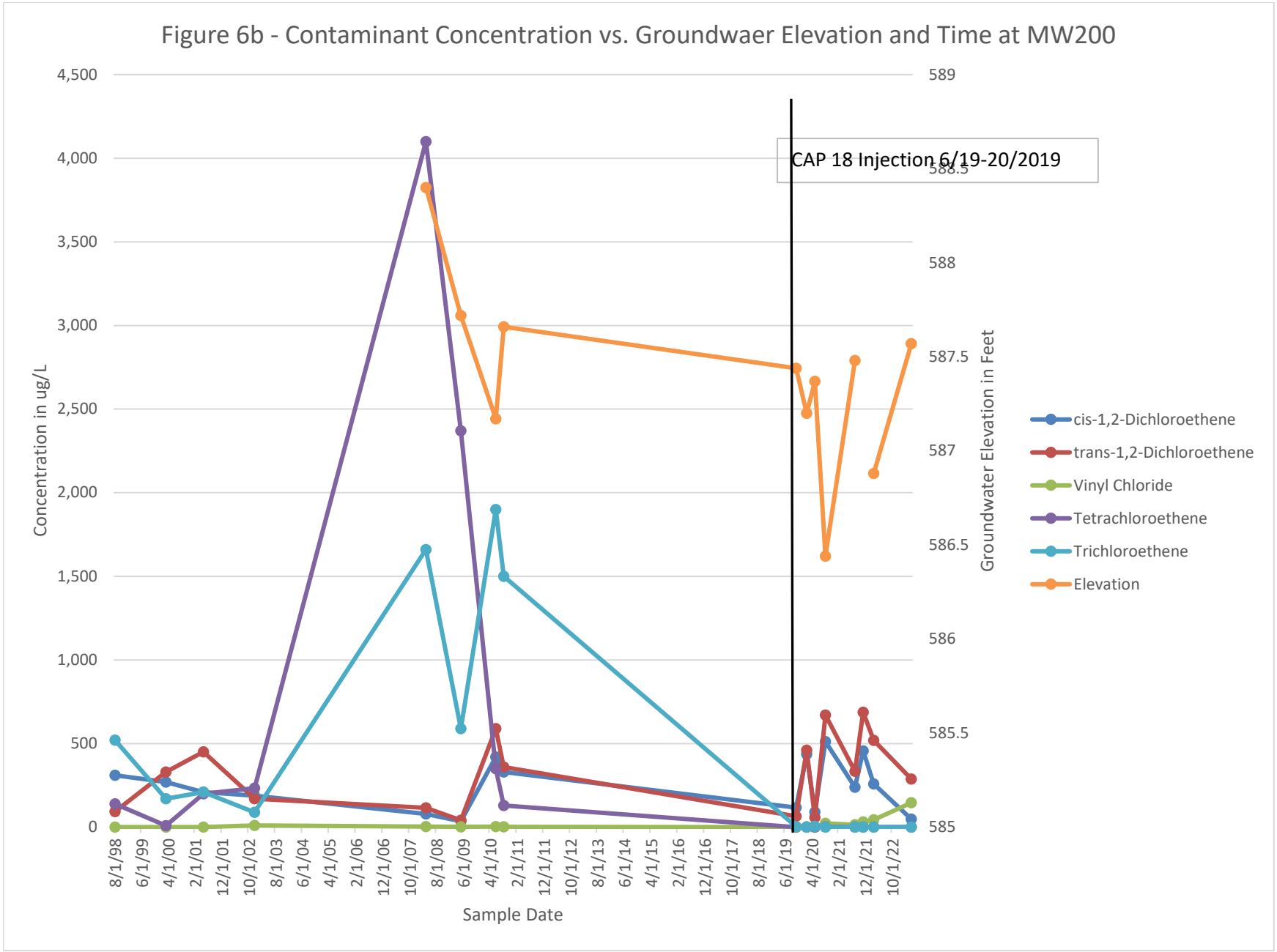


Figure 6b - Contaminant Concentration vs. Groundwaer Elevation and Time at MW200
CAP 18 Injection 6/19-20/2019
Concentration in ug/L
Groundwater Elevation in Feet
Sample Date
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
Vinyl Chloride
Tetrachloroethene
Trichloroethene
Elevation
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
589
588.5
588
587.5
587
586.5
586
585.5
585
8/1/98
6/1/99
4/1/00
2/1/01
12/1/01
10/1/02
8/1/03
6/1/04
4/1/05
2/1/06
12/1/06
10/1/07
8/1/08
6/1/09
4/1/10
2/1/11
12/1/11
10/1/12
8/1/13
6/1/14
4/1/15
2/1/16
12/1/16
10/1/17
8/1/18
6/1/19
4/1/20
2/1/21
12/1/21
10/1/22

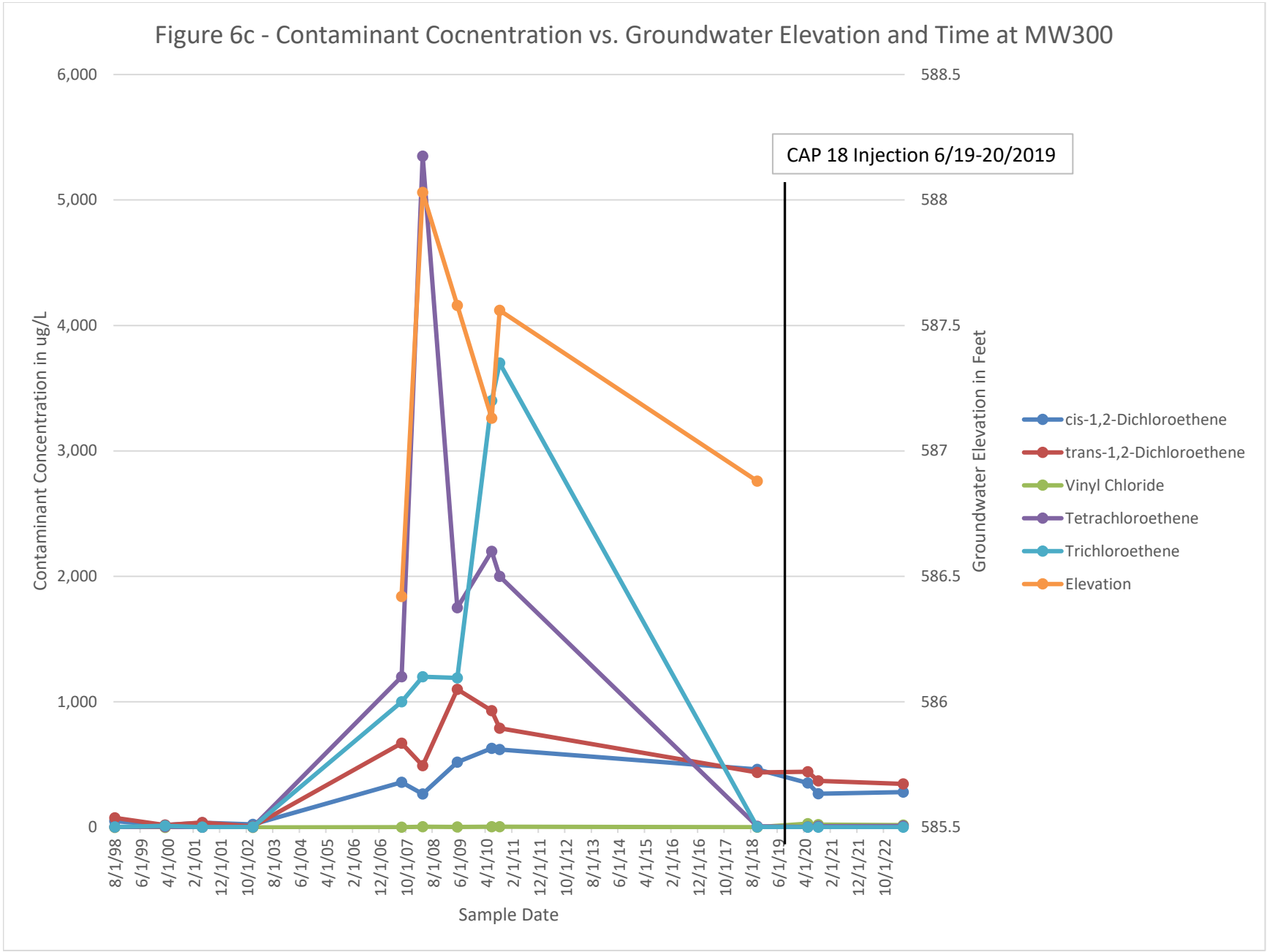


Figure 6c - Contaminant Cocnentration vs. Groundwater Elevation and Time at MW300
CAP 18 Injection 6/19-20/2019
Contaminant Concentration in ug/L
Groundwater Elevation in Feet
Sample Date
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
Vinyl Chloride
Tetrachloroethene
Trichloroethene
Elevation
6,000
5,000
4,000
3,000
2,000
1,000
0
588.5
588
587.5
587
586.5
586
585.5
8/1/98
6/1/99
4/1/00
2/1/01
12/1/01
10/1/02
8/1/03
6/1/04
4/1/05
2/1/06
12/1/06
10/1/07
8/1/08
6/1/09
4/1/10
2/1/11
12/1/11
10/1/12
8/1/13
6/1/14
4/1/15
2/1/16
12/1/16
10/1/17
8/1/18
6/1/19
4/1/20
2/1/21
12/1/21
10/1/22

Figure 6d - Contaminant Concentration vs. Groundwater Elevation and Time at MW2100

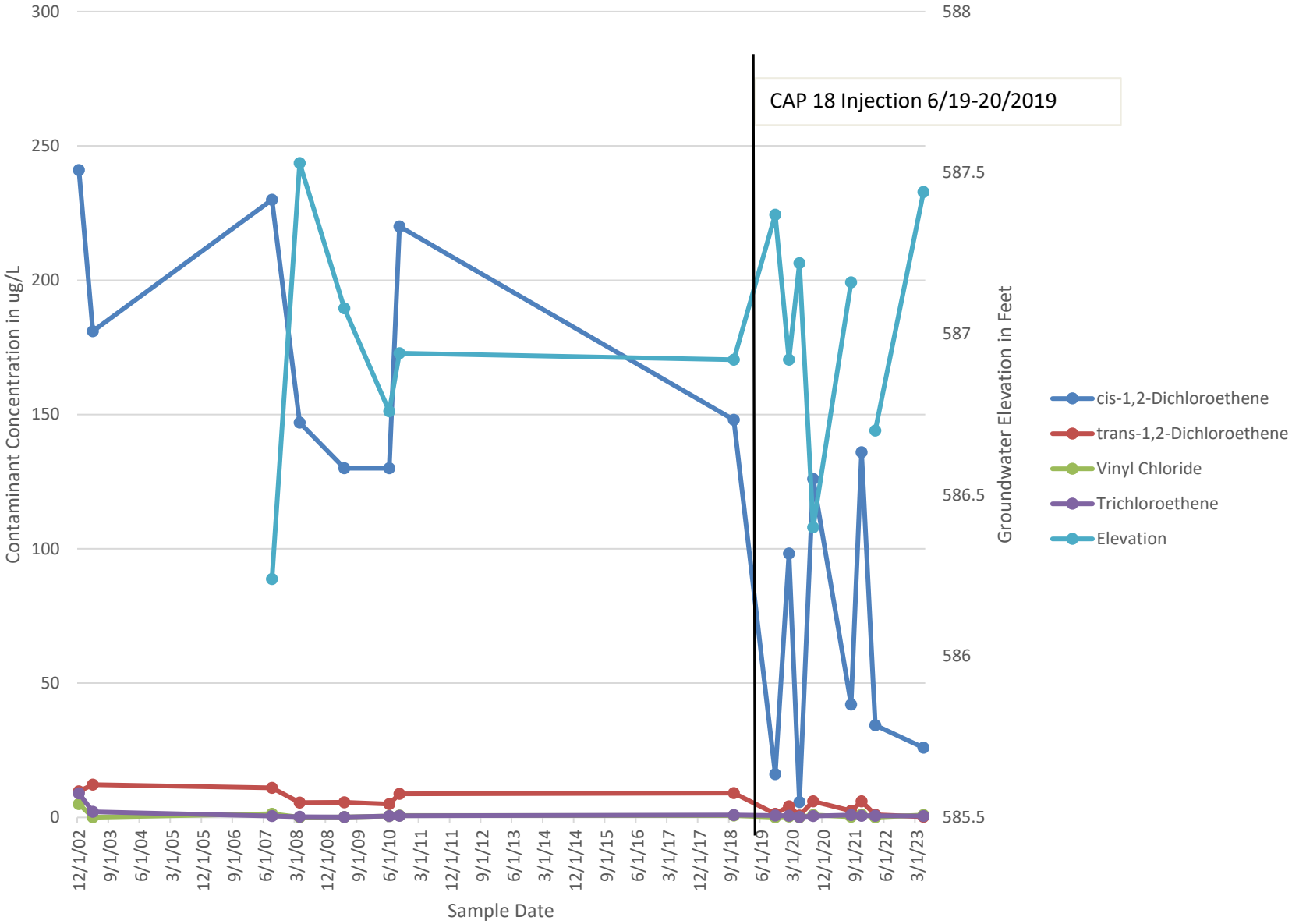


Figure 6e - Contaminant Concentration vs. Groundwater Elevation and Time at MW800

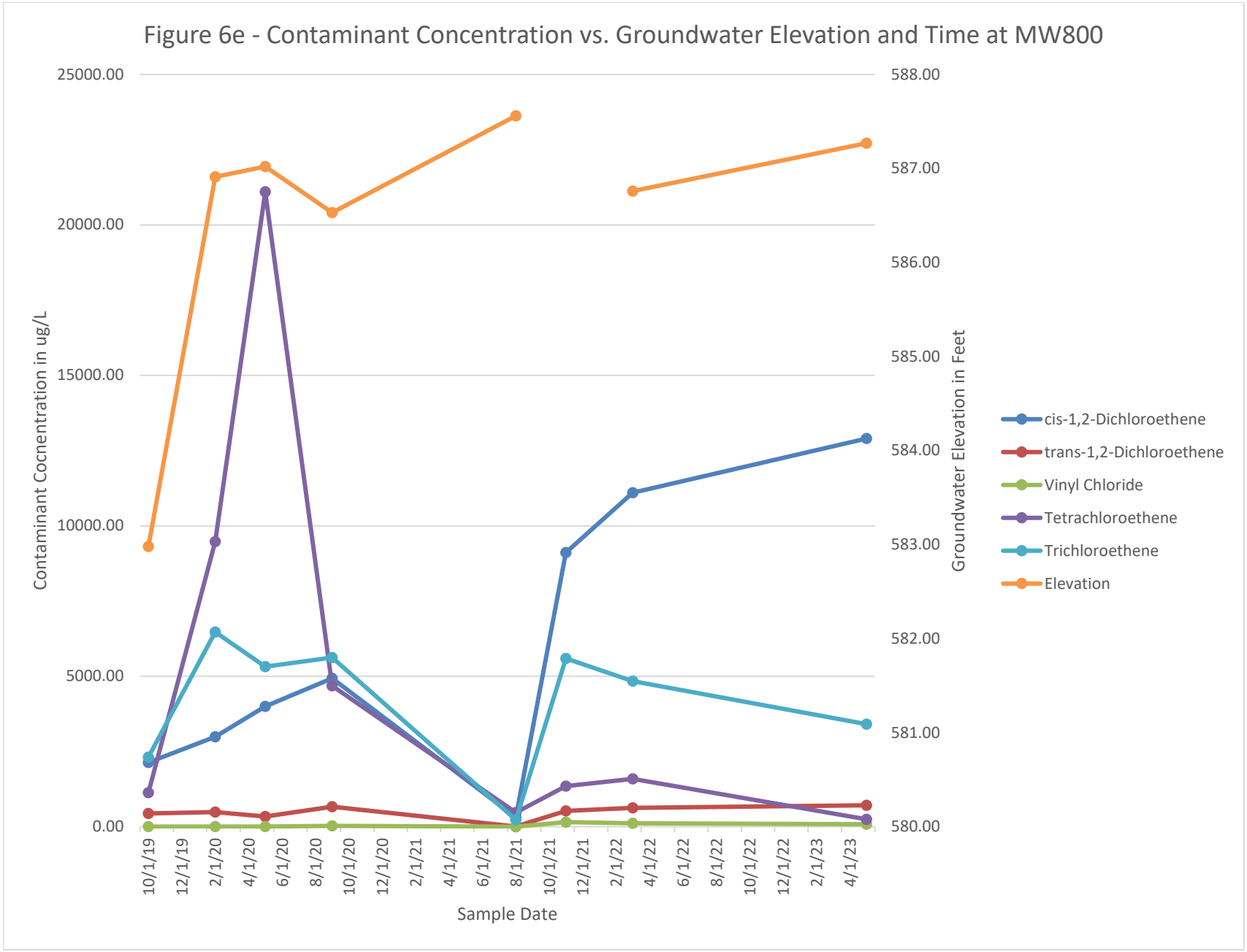


Figure 6f - Contaminant Concentration vs. Time at TW1400

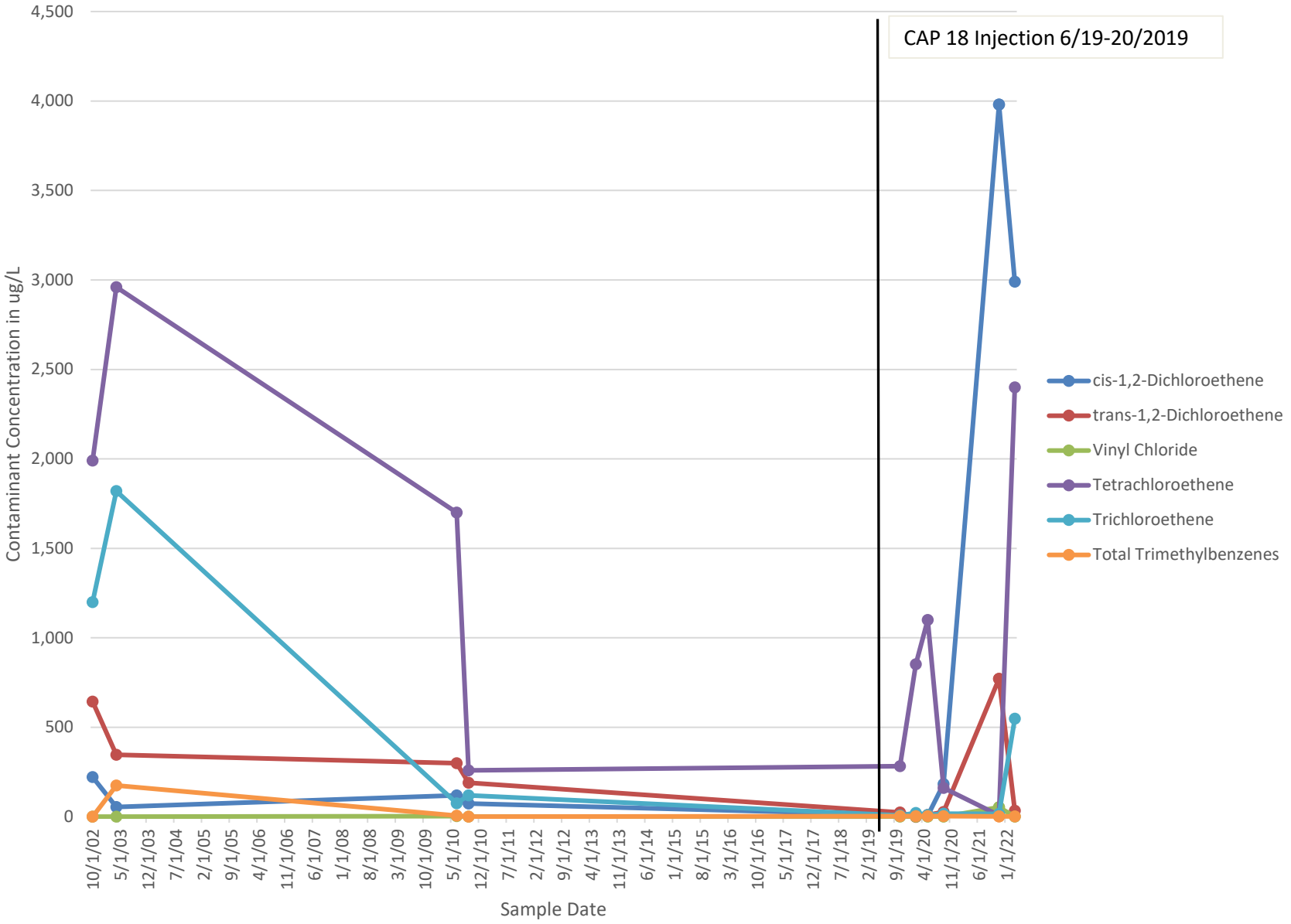
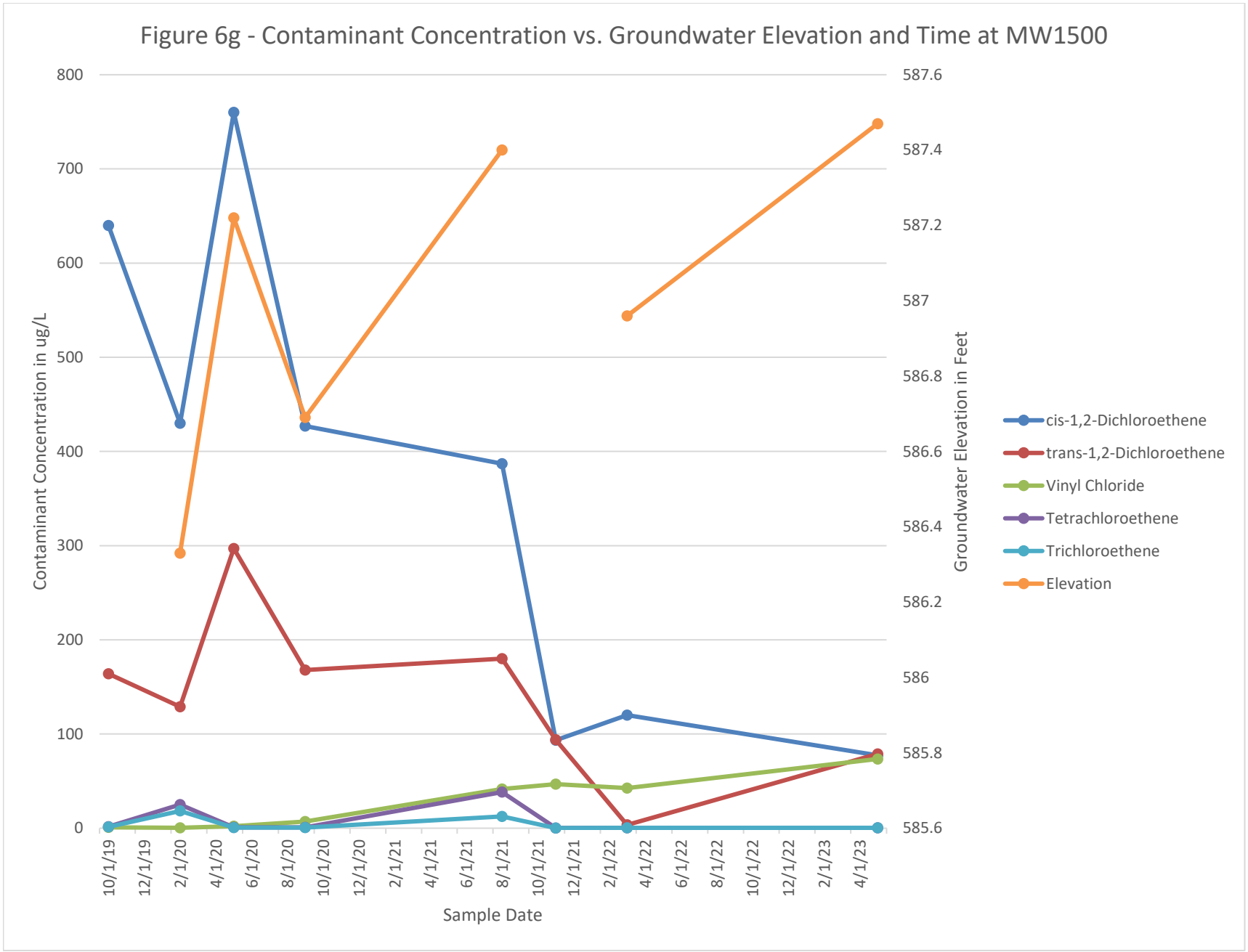


Figure 6g - Contaminant Concentration vs. Groundwater Elevation and Time at MW1500



ATTACHMENT A

LABORATORY ANALYTICAL REPORTS

Synergy Environmental Lab, LLC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

ANDY DELFORGE
REI ENGINEERING
4080 N. 20TH AVENUE
WAUSAU. WI 54401

Report Date *15-Mar-23*

Project Name V&L STRIPPING/GREEN BAY **Invoice #** E42111
Project # 8318

Lab Code 5042111A
Sample ID SS856M
Sample Matrix Air
Sample Date 3/2/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
cis-1,2-Dichloroethene	< 0.197	ug/m3	0.197	0.626	1	TO-15		3/8/2023	CJR	1
trans-1,2-Dichloroethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		3/8/2023	CJR	1
Tetrachloroethene	138	ug/m3	0.278	0.884	1	TO-15		3/8/2023	CJR	1
Trichloroethene (TCE)	1.5	ug/m3	0.237	0.754	1	TO-15		3/8/2023	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		3/8/2023	CJR	1

Lab Code 5042111B
Sample ID SS714L
Sample Matrix Air
Sample Date 3/2/2023

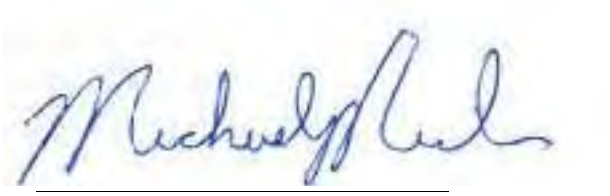
	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
cis-1,2-Dichloroethene	< 0.197	ug/m3	0.197	0.626	1	TO-15		3/10/2023	CJR	1
trans-1,2-Dichloroethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		3/10/2023	CJR	1
Tetrachloroethene	55	ug/m3	0.278	0.884	1	TO-15		3/10/2023	CJR	1
Trichloroethene (TCE)	0.96	ug/m3	0.237	0.754	1	TO-15		3/10/2023	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		3/10/2023	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



CHAIN OF CUSTODY RECORD

Synergy
Environmental Lab, Inc.

www.synergy-lab.net
1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • mrsynergy@wi.twcbc.com

Chain # 42423

Page 1 of 1

Sample Handling Request

___ Rush Analysis Date Required: ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #	
QUOTE # :	
Project #:	8318
Sampler: (signature)	[signature]
Project (Name / Location):	V&L Stamping / Green Bay

Reports To:	Andy Delforge	Invoice To:	AD
Company	REI	Company	REI
Address		Address	
City State Zip		City State Zip	
Phone		Phone	
Email	ADelforge@REIEngineering.com	Email	

Analysis Requested / **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	VOC AIR (TO - 15) CVOC only	8-RCRA METALS	PID/FID
5042111A	SS856M	3/2/23	1:48	N	1	A	–														X		0
B	SS714L	3/2/23	2:15	N	1	A	–														X		0.6

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge, etc.)

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Waltco

Temp. of Temp. Blank: ___ °C On Ice: ___

Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
[signature]	3/3/23	8:30a			

Received in Laboratory By: [signature] Time: 1000a Date: 03.07.23

to 15 level II qc		MATRIX BLANK			to030823
CCV	% REC	PPBV	MOL WT	UG/M3	
Propene	3.64	91 N.D	42.1	N.D	
Dichlorodif	3.62	90.5 N.D	120.92	N.D	
Chloromet	3.5	87.5 N.D	50.5	N.D	
Dichlorote	3.47	86.75 N.D	171	N.D	
Vinyl Chlor	3.43	85.75 N.D	62.5	N.D	
1,3--Butadi	3.42	85.5 N.D	54.1	N.D	
Bromomet	3.54	88.5 N.D	94.9	N.D	
Chloroetha	3.47	86.75 N.D	64.5	N.D	
Ethanol	3.49	87.25	2.75	46.1	5.182952
Acrolein	3.03	75.75 N.D	56.06	N.D	
Trichlorofl	3.6	90 N.D	137.4	N.D	
Acetone	3.24	81	1.49	58.1	3.539207
Isopropyl A	3.67	91.75 N.D	60.1	N.D	
1,1-Dichlor	3.71	92.75 N.D	96.9	N.D	
Freon 113	3.52	88 N.D	187.4	N.D	
Methylene	3.58	89.5	3.91	84.9	13.5715
Carbon Dis	3.58	89.5	0.29	76.1	0.902249
trans-1,2-D	3.64	91 N.D	96.9	N.D	
MTBE	3.75	93.75 N.D	88.1	N.D	
Vinyl Aceta	3.85	96.25 N.D	86.09	N.D	
1,1-Dichlor	3.65	91.25 N.D	98	N.D	
2-Butanon	4.05	101.25 N.D	72.1	N.D	
Hexane	3.73	93.25 N.D	86.2	N.D	
cis-1,2-Dicl	3.66	91.5 N.D	96.9	N.D	
Ethyl Aceta	3.85	96.25 N.D	88.1	N.D	
Chloroform	3.62	90.5 N.D	119	N.D	
Tetrahydrc	3.78	94.5 N.D	72.1	N.D	
1,1,1-Trich	3.62	90.5 N.D	133	N.D	
1,2-Dichlor	3.66	91.5 N.D	99	N.D	
Benzene	3.75	93.75	0.16	78.1	0.510875
Carbon Tet	3.68	92 N.D	154	N.D	
Cyclohexar	3.73	93.25 N.D	84.2	N.D	
Heptane	3.77	94.25 N.D	100.21	N.D	
Trichloroet	3.6	90 N.D	131	N.D	
1,2-Dichlor	3.53	88.25 N.D	113	N.D	
1,4-Dioxan	3.72	93 N.D	88.1	N.D	
Methyl Me	3.73	93.25 N.D	100.12	N.D	
Bromodich	3.58	89.5 N.D	164	N.D	
cis-1,3-Dicl	3.67	91.75 N.D	111	N.D	
4-Methyl-2	3.83	95.75 N.D	100.1	N.D	
trans-1,3-D	3.64	91 N.D	111	N.D	
Toluene	3.38	84.5	0.11	92.1	0.414186
1,1,2-Trich	3.62	90.5 N.D	133	N.D	
2-Hexanon	3.57	89.25 N.D	100.1	N.D	
Dibromoch	3.6	90 N.D	208	N.D	

Tetrachlor	3.55	88.75	N.D		166	N.D
1,2-Dibrom	3.57	89.25	N.D		188	N.D
Chloroben	3.71	92.75	N.D		113	N.D
Ethylbenze	3.87	96.75	N.D		106	N.D
m,p-Xylene	7.4	92.5		0.12	106	0.520033
Styrene	3.82	95.5	N.D		104	N.D
o-Xylene	3.79	94.75	N.D		106	N.D
Bromoforn	3.47	86.75	N.D		253	N.D
1,1,2,2-Tet	3.57	89.25	N.D		168	N.D
4-Ethyltolu	3.84	96	N.D		120	N.D
1,3,5-Trime	3.76	94	N.D		120	N.D
1,2,4-Trime	3.78	94.5	N.D		120	N.D
1,3-Dichlor	3.54	88.5	N.D		147	N.D
Benzyl Chl	3.49	87.25	N.D		127	N.D
1,4-Dichlor	3.61	90.25	N.D		147	N.D
1,2-Dichlor	3.57	89.25	N.D		144	N.D
1,2,4-Trich	3.34	83.5		0.06	181	0.44399
Naphthale	3.57	89.25		0.11	128	0.575634
Hexachlorc	3.2	80	N.D		261	N.D

Synergy Environmental Lab, LLC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

ANDY DELFORGE
REI ENGINEERING
4080 N. 20TH AVENUE
WAUSAU. WI 54401

Report Date *16-Mar-23*

Project Name V&L STRIPPING
Project # 8318
Invoice # E42132

Lab Code 5042132A
Sample ID AA866M
Sample Matrix Air
Sample Date 3/2/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
cis-1,2-Dichloroethene	< 0.197	ug/m3	0.197	0.626	1	TO-15		3/14/2023	CJR	1
trans-1,2-Dichloroethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		3/14/2023	CJR	1
Tetrachloroethene	1.02	ug/m3	0.278	0.884	1	TO-15		3/14/2023	CJR	1
Trichloroethene (TCE)	< 0.237	ug/m3	0.237	0.754	1	TO-15		3/14/2023	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		3/14/2023	CJR	1

Lab Code 5042132B
Sample ID AA714L
Sample Matrix Air
Sample Date 3/2/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
cis-1,2-Dichloroethene	< 0.197	ug/m3	0.197	0.626	1	TO-15		3/14/2023	CJR	1
trans-1,2-Dichloroethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		3/14/2023	CJR	1
Tetrachloroethene	0.75 "J"	ug/m3	0.278	0.884	1	TO-15		3/14/2023	CJR	1
Trichloroethene (TCE)	< 0.237	ug/m3	0.237	0.754	1	TO-15		3/14/2023	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		3/14/2023	CJR	1

Project Name V&L STRIPPING **Invoice #** E42132
Project # 8318

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

to 15 level II qc			MATRIX BLANK			
	CCV	% REC	PPBV		MOL WT	UG/M3
Propene	4.29	107.25	N.D		42.1	N.D
Dichlorodif	4.53	113.25	N.D		120.92	N.D
Chloromet	4.2	105	N.D		50.5	N.D
Dichlorote	4.2	105	N.D		171	N.D
Vinyl Chlor	4.18	104.5	N.D		62.5	N.D
1,3--Butad	4.25	106.25	N.D		54.1	N.D
Bromomet	4.44	111	N.D		94.9	N.D
Chloroetha	4.3	107.5	N.D		64.5	N.D
Ethanol	4.32	108		2.1	46.1	3.95789
Acrolein	5.71	142.75	N.D		56.06	N.D
Trichlorofl	4.39	109.75	N.D		137.4	N.D
Acetone	4.26	106.5		0.91	58.1	2.161529
Isopropyl A	4.28	107	N.D		60.1	N.D
1,1-Dichlor	4.37	109.25	N.D		96.9	N.D
Freon 113	4.24	106	N.D		187.4	N.D
Methylene	4.37	109.25		2.18	84.9	7.566721
Carbon Dis	4.35	108.75	N.D		76.1	N.D
trans-1,2-D	4.26	106.5	N.D		96.9	N.D
MTBE	4.5	112.5	N.D		88.1	N.D
Vinyl Aceta	4.49	112.25	N.D		86.09	N.D
1,1-Dichlor	4.44	111	N.D		98	N.D
2-Butanon	4.83	120.75	N.D		72.1	N.D
Hexane	4.43	110.75	N.D		86.2	N.D
cis-1,2-Dicl	4.28	107	N.D		96.9	N.D
Ethyl Aceta	4.44	111	N.D		88.1	N.D
Chloroforn	4.3	107.5	N.D		119	N.D
Tetrahydrc	4.47	111.75	N.D		72.1	N.D
1,1,1-Trich	4.38	109.5	N.D		133	N.D
1,2-Dichlor	4.28	107	N.D		99	N.D
Benzene	4.43	110.75		0.13	78.1	0.415086
Carbon Tet	4.36	109	N.D		154	N.D
Cyclohexar	4.37	109.25	N.D		84.2	N.D
Heptane	4.46	111.5	N.D		100.21	N.D
Trichloroet	4.26	106.5	N.D		131	N.D
1,2-Dichlor	4.18	104.5	N.D		113	N.D
1,4-Dioxan	4.46	111.5	N.D		88.1	N.D
Methyl Me	4.23	105.75	N.D		100.12	N.D
Bromodich	4.21	105.25	N.D		164	N.D
cis-1,3-Dicl	4.37	109.25	N.D		111	N.D
4-Methyl-2	4.49	112.25	N.D		100.1	N.D
trans-1,3-D	4.26	106.5	N.D		111	N.D
Toluene	3.97	99.25		0.08	92.1	0.301226
1,1,2-Trich	4.32	108	N.D		133	N.D
2-Hexanon	4.11	102.75	N.D		100.1	N.D
Dibromoch	4.26	106.5	N.D		208	N.D

Tetrachlor	4.19	104.75	N.D		166	N.D
1,2-Dibron	4.26	106.5	N.D		188	N.D
Chloroben	4.39	109.75	N.D		113	N.D
Ethylbenze	4.54	113.5	N.D		106	N.D
m,p-Xylene	8.89	111.125		0.06	106	0.260016
Styrene	4.62	115.5	N.D		104	N.D
o-Xylene	4.56	114	N.D		106	N.D
Bromoforn	4.24	106	N.D		253	N.D
1,1,2,2-Tet	4.38	109.5	N.D		168	N.D
4-Ethyltolu	4.56	114	N.D		120	N.D
1,3,5-Trim	4.52	113	N.D		120	N.D
1,2,4-Trim	4.54	113.5	N.D		120	N.D
1,3-Dichlor	4.33	108.25	N.D		147	N.D
Benzyl Chl	4.29	107.25	N.D		127	N.D
1,4-Dichlor	4.33	108.25	N.D		147	N.D
1,2-Dichlor	4.33	108.25	N.D		144	N.D
1,2,4-Trich	3.93	98.25	N.D		181	N.D
Naphthale	4.25	106.25		0.07	128	0.366312
Hexachlorc	3.85	96.25	N.D		261	N.D

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

www.synergy-lab.net
1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • mrsynergy@wi.twcbc.com

Chain # 42812

Page 1 of 1

Sample Handling Request

___ Rush Analysis Date Required: ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #	
QUOTE # :	
Project #:	8318
Sampler: (signature)	

Project (Name / Location):	UOL STRIPPING		
Reports To:	Andy DeLuhge	Invoice To:	AD
Company	NRE	Company	NRE
Address		Address	
City State Zip		City State Zip	
Phone		Phone	
Email	ADELUHGE@RESOURCEENGINEERING.COM	Email	

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
SC4213214 A	AA 866M	3/2/23	12:30	N	1	A	-
B	AA 714L	3/2/23	12:45	N	1	A	-

Analysis Requested / **Other Analysis**

DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	VOC AIR (TO - 15 VOCs only)	8-RCRA METALS	PID/FID
													X		
													X		

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge, etc.)

7 DAY 3/2/23 – 3/9/23

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Client

Temp. of Temp. Blank: ___ °C On Ice: X

Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	8:30am	3/1/23			

Received in Laboratory By: Nicki Clark Time: 2:00 Date: 3/13/23

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

March 30, 2023

Andy Delforge
REI
4080 North 20th Avenue
Wausau, WI 54401

RE: Project: V&L STRIPPING/8318
Pace Project No.: 40259145

Dear Andy Delforge:

Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2023. 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:

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

Sincerely,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kaylin Felix, REI

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: V&L STRIPPING/8318
Pace Project No.: 40259145

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40259145001	**MW800**	Water	03/09/23 11:42	03/09/23 12:30
40259145002	**BLANK**	Water	03/09/23 00:00	03/09/23 12:30

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CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40259145

ALL SHADED AREAS are for LAB USE ONLY

Company: REI	Billing Information: REI
Address:	
Report To: Andy Kellogg	Email To: akellogg@reiengineering.com
Copy To:	Site Collection Info/Address: 867 Maurer / Green Bay
Customer Project Name/Number: V+L Stripping / 8318	State: WI County/City: Green Bay Time Zone Collected: [ ]PT [ ]MT [X]CT [ ]ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [X] No
Collected By (print): Andy Kellogg	Purchase Order #. Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: STD Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)	Field Filtered (if applicable): [ ] Yes [X] No Analysis: _____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

PRES

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Lab Sample # / Comments
MW900	GW	G	3/1/23	11:42				2	001
blank	—	G	"	—				1	002

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble wrap

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2829867

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 128
Cooler 1 Temp Upon Receipt: 0.5 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 0.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time: 3/9/23 12:30	Received by/Company: (Signature)	Date/Time: 3-9-23 12:30
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM: 03/09/2023
PB:

Trip Blank Received: Y (N) NA
HCL MeOH TSP Other

Non Conformance(s): YES / (NO)

Client Name: REI

Sample Preservation Receipt Form

Project # 402591145

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

Initial when completed MJB Date/Time: 03/09/2023

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted).

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
001									2																								2.5 / 5
002									1																								2.5 / 5
003																																	2.5 / 5
004																																	2.5 / 5
005																																	2.5 / 5
006																																	2.5 / 5
007																																	2.5 / 5
008																																	2.5 / 5
009																																	2.5 / 5
010																																	2.5 / 5
011																																	2.5 / 5
012																																	2.5 / 5
013																																	2.5 / 5
014																																	2.5 / 5
015																																	2.5 / 5
016																																	2.5 / 5
017																																	2.5 / 5
018																																	2.5 / 5
019																																	2.5 / 5
020																																	2.5 / 5

MJB 03/09/2023

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	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40259145

40259145

Client Name: REI

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

Tracking #: _____

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 - 128 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 0.5 /Corr: 0.5

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: 03/09/2023 Initials: MVS

Labeled By Initials: YN

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.
- DI 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.
Correct Type: (Pace Green Bay) Pace IR, Non-Pace		
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): _____		

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

Person Contacted _____ Date/Time: _____

Comments/ Resolution: Custody seal on the correct location on cooler but not filled out.
MVS 03/09/2023

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

Page 2 of 2

Report of Analysis

Pace Analytical Services, LLC
1241 Bellevue Street
Suite 9
Green Bay, WI 54302
Attention: Brian Basten

Project Name: V&L Stripping - 8318

Project Number: 40259145

Lot Number:**YC10041**

Date Completed:03/27/2023

03/29/2023 7:24 PM
Approved and released by:
Project Coordinator 1: **Jenna S. Holliday**

The electronic signature above is the equivalent of a handwritten signature.
This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

Case Narrative
Pace Analytical Services, LLC
Lot Number: YC10041

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

PFAS Analysis
Surrogate recovery for sample YC10041-001 was outside the acceptance limits. Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Sample Summary
Pace Analytical Services, LLC
Lot Number: YC10041
Project Name: V&L Stripping - 8318
Project Number: 40259145

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW800	Aqueous	03/09/2023 1142	03/10/2023
002	BLANK	Aqueous	03/09/2023	03/10/2023

(2 samples)

Detection Summary

Pace Analytical Services, LLC

Lot Number: YC10041

Project Name: V&L Stripping - 8318

Project Number: 40259145

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW800	Aqueous	PFBA	PFAS by ID	6.2	J	ng/L	5

(1 detection)

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **YC10041-001**

Description: **MW800** Matrix: **Aqueous**

Date Sampled: **03/09/2023 1142** Project Name: **V&L Stripping - 8318**

Date Received: **03/10/2023** Project Number: **40259145**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/26/2023 1405	ALM	03/23/2023 0927	70833

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		80	4.8	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		80	6.6	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		80	16	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		80	20	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	80	8.7	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		80	21	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		80	4.8	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		80	14	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		80	7.5	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		80	9.5	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		160	13	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		80	9.3	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		80	13	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		40	4.1	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		40	7.8	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		40	5.0	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		40	7.1	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		40	6.1	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		40	5.9	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		80	10	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		40	5.5	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	**375-22-4**	**PFAS by ID SOP**	**6.2**	**J**	**40**	**6.0**	**ng/L**	**1**
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		40	5.2	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		40	4.7	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		40	4.5	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		40	6.9	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		40	4.6	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		40	8.3	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		40	5.4	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		40	6.0	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		40	5.3	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		40	6.3	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		40	20	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	169	25-150
13C2_6:2FTS		105	25-150
13C2_8:2FTS		107	25-150
13C2_PFDoA		101	25-150
13C2_PFTeDA		98	25-150
13C3_PFBS		100	25-150
13C3_PFHxS		95	25-150
13C3-HFPO-DA		95	25-150
13C4_PFBA		95	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **YC10041-001**

Description: **MW800** Matrix: **Aqueous**

Date Sampled: **03/09/2023 1142** Project Name: **V&L Stripping - 8318**

Date Received: **03/10/2023** Project Number: **40259145**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C4_PFHpA		94	25-150
13C5_PFHxA		95	25-150
13C5_PFPeA		105	25-150
13C6_PFDA		108	25-150
13C7_PFUdA		107	25-150
13C8_PFOA		99	25-150
13C8_PFOS		98	25-150
13C8_PFOSA		91	10-150
13C9_PFNA		102	25-150
d-EtFOSA		83	10-150
d5-EtFOSAA		101	25-150
d9-EtFOSE		91	10-150
d-MeFOSA		70	10-150
d3-MeFOSAA		102	25-150
d7-MeFOSE		93	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **YC10041-002**

Description: **BLANK** Matrix: **Aqueous**

Date Sampled: **03/09/2023** Project Name: **V&L Stripping - 8318**

Date Received: **03/10/2023** Project Number: **40259145**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/26/2023 1416	ALM	03/23/2023 0927	70833

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		7.3	0.44	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		7.3	0.60	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		7.3	1.5	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		7.3	1.8	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		7.3	0.80	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		7.3	1.9	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		7.3	0.44	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		7.3	1.2	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.3	0.68	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		7.3	0.87	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		15	1.1	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.3	0.85	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		7.3	1.2	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		3.6	0.38	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.6	0.71	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.6	0.45	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.6	0.65	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.6	0.56	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.6	0.54	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		7.3	0.95	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.6	0.50	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		3.6	0.55	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.6	0.48	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.6	0.43	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.6	0.41	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.6	0.63	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.6	0.42	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.6	0.76	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.6	0.50	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.6	0.55	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.6	0.48	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.6	0.57	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.6	1.8	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		118	25-150
13C2_6:2FTS		101	25-150
13C2_8:2FTS		99	25-150
13C2_PFDoA		101	25-150
13C2_PFTeDA		98	25-150
13C3_PFBS		102	25-150
13C3_PFHxS		97	25-150
13C3-HFPO-DA		94	25-150
13C4_PFBA		101	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC**		Laboratory ID: **YC10041-002**
Description: **BLANK**		Matrix: **Aqueous**
Date Sampled: **03/09/2023**	Project Name: **V&L Stripping - 8318**	
Date Received: **03/10/2023**	Project Number: **40259145**	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C4_PFHpA		97	25-150
13C5_PFHxA		97	25-150
13C5_PFPeA		108	25-150
13C6_PFDA		104	25-150
13C7_PFUdA		100	25-150
13C8_PFOA		108	25-150
13C8_PFOS		96	25-150
13C8_PFOSA		91	10-150
13C9_PFNA		98	25-150
d-EtFOSA		84	10-150
d5-EtFOSAA		96	25-150
d9-EtFOSE		94	10-150
d-MeFOSA		70	10-150
d3-MeFOSAA		94	25-150
d7-MeFOSE		93	10-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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QC Summary

PFAS by LC/MS/MS - MB

Sample ID: YQ70833-001
Batch: 70833
Analytical Method: PFAS by ID SOP
Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/23/2023 0927

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
9Cl-PF3ONS	ND		1	8.0	0.48	ng/L	03/24/2023 1303
11Cl-PF3OUdS	ND		1	8.0	0.66	ng/L	03/24/2023 1303
8:2 FTS	ND		1	8.0	1.6	ng/L	03/24/2023 1303
6:2 FTS	ND		1	8.0	2.0	ng/L	03/24/2023 1303
4:2 FTS	ND		1	8.0	0.87	ng/L	03/24/2023 1303
GenX	ND		1	8.0	2.1	ng/L	03/24/2023 1303
ADONA	ND		1	8.0	0.48	ng/L	03/24/2023 1303
EtFOSA	ND		1	8.0	1.4	ng/L	03/24/2023 1303
EtFOSAA	ND		1	8.0	0.75	ng/L	03/24/2023 1303
EtFOSE	ND		1	8.0	0.95	ng/L	03/24/2023 1303
MeFOSA	ND		1	16	1.3	ng/L	03/24/2023 1303
MeFOSAA	ND		1	8.0	0.93	ng/L	03/24/2023 1303
MeFOSE	ND		1	8.0	1.3	ng/L	03/24/2023 1303
PFBS	ND		1	4.0	0.41	ng/L	03/24/2023 1303
PFDS	ND		1	4.0	0.78	ng/L	03/24/2023 1303
PFHpS	ND		1	4.0	0.50	ng/L	03/24/2023 1303
PFNS	ND		1	4.0	0.71	ng/L	03/24/2023 1303
PFOSA	ND		1	4.0	0.61	ng/L	03/24/2023 1303
PFPeS	ND		1	4.0	0.59	ng/L	03/24/2023 1303
PFDOS	ND		1	8.0	1.0	ng/L	03/24/2023 1303
PFHxS	ND		1	4.0	0.55	ng/L	03/24/2023 1303
PFBA	ND		1	4.0	0.60	ng/L	03/24/2023 1303
PFDA	ND		1	4.0	0.52	ng/L	03/24/2023 1303
PFDoA	ND		1	4.0	0.47	ng/L	03/24/2023 1303
PFHpA	ND		1	4.0	0.45	ng/L	03/24/2023 1303
PFHxA	ND		1	4.0	0.69	ng/L	03/24/2023 1303
PFNA	ND		1	4.0	0.46	ng/L	03/24/2023 1303
PFOA	ND		1	4.0	0.83	ng/L	03/24/2023 1303
PFPeA	ND		1	4.0	0.54	ng/L	03/24/2023 1303
PFTeDA	ND		1	4.0	0.60	ng/L	03/24/2023 1303
PFTrDA	ND		1	4.0	0.53	ng/L	03/24/2023 1303
PFUdA	ND		1	4.0	0.63	ng/L	03/24/2023 1303
PFOS	ND		1	4.0	2.0	ng/L	03/24/2023 1303

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		100	25-150
13C2_6:2FTS		105	25-150
13C2_8:2FTS		94	25-150
13C2_PFDoA		92	25-150
13C2_PFTeDA		103	25-150
13C3_PFBS		105	25-150
13C3_PFHxS		97	25-150
13C3-HFPO-DA		95	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: YQ70833-001
Batch: 70833
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/23/2023 0927

Surrogate	Q	% Rec	Acceptance Limit
13C4_PFBA		99	25-150
13C4_PFHpA		103	25-150
13C5_PFHxA		99	25-150
13C5_PFPeA		106	25-150
13C6_PFDA		94	25-150
13C7_PFUdA		101	25-150
13C8_PFOA		105	25-150
13C8_PFOS		98	25-150
13C8_PFOSA		91	10-150
13C9_PFNA		96	25-150
d-EtFOSA		64	10-150
d5-EtFOSAA		97	25-150
d9-EtFOSE		89	10-150
d-MeFOSA		66	10-150
d3-MeFOSAA		100	25-150
d7-MeFOSE		90	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: YQ70833-002
Batch: 70833
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/23/2023 0927

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
9Cl-PF3ONS	15	17		1	112	50-150	03/24/2023 1314
11Cl-PF3OUdS	15	17		1	111	50-150	03/24/2023 1314
8:2 FTS	15	17		1	113	50-150	03/24/2023 1314
6:2 FTS	15	16		1	109	50-150	03/24/2023 1314
4:2 FTS	15	18		1	120	50-150	03/24/2023 1314
GenX	32	38		1	120	50-150	03/24/2023 1314
ADONA	15	18		1	121	50-150	03/24/2023 1314
EtFOSA	16	17		1	109	50-150	03/24/2023 1314
EtFOSAA	16	19		1	118	50-150	03/24/2023 1314
EtFOSE	16	19		1	120	50-150	03/24/2023 1314
MeFOSA	16	21		1	131	50-150	03/24/2023 1314
MeFOSAA	16	19		1	117	50-150	03/24/2023 1314
MeFOSE	16	18		1	114	50-150	03/24/2023 1314
PFBS	14	16		1	112	50-150	03/24/2023 1314
PFDS	15	16		1	106	50-150	03/24/2023 1314
PFHpS	15	17		1	114	50-150	03/24/2023 1314
PFNS	15	17		1	113	50-150	03/24/2023 1314
PFOSA	16	21		1	129	50-150	03/24/2023 1314
PFPeS	15	17		1	112	50-150	03/24/2023 1314
PFDOS	15	17		1	107	50-150	03/24/2023 1314
PFHxS	15	16		1	107	50-150	03/24/2023 1314
PFBA	16	18		1	115	50-150	03/24/2023 1314
PFDA	16	18		1	110	50-150	03/24/2023 1314
PFDoA	16	19		1	116	50-150	03/24/2023 1314
PFHpA	16	18		1	110	50-150	03/24/2023 1314
PFHxA	16	18		1	115	50-150	03/24/2023 1314
PFNA	16	18		1	115	50-150	03/24/2023 1314
PFOA	16	18		1	113	50-150	03/24/2023 1314
PFPeA	16	18		1	115	50-150	03/24/2023 1314
PFTeDA	16	19		1	117	50-150	03/24/2023 1314
PFTrDA	16	18		1	110	50-150	03/24/2023 1314
PFUdA	16	18		1	109	50-150	03/24/2023 1314
PFOS	15	17		1	115	50-150	03/24/2023 1314

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		103	25-150
13C2_6:2FTS		97	25-150
13C2_8:2FTS		92	25-150
13C2_PFDoA		91	25-150
13C2_PFTeDA		94	25-150
13C3_PFBS		100	25-150
13C3_PFHxS		95	25-150
13C3-HFPO-DA		88	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: YQ70833-002
Batch: 70833
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/23/2023 0927

Surrogate	Q	% Rec	Acceptance Limit
13C4_PFBA		94	25-150
13C4_PFHpA		98	25-150
13C5_PFHxA		96	25-150
13C5_PFPeA		99	25-150
13C6_PFDA		93	25-150
13C7_PFUdA		92	25-150
13C8_PFOA		96	25-150
13C8_PFOS		96	25-150
13C8_PFOSA		85	10-150
13C9_PFNA		92	25-150
d-EtFOSA		62	10-150
d5-EtFOSAA		91	25-150
d9-EtFOSE		83	10-150
d-MeFOSA		57	10-150
d3-MeFOSAA		94	25-150
d7-MeFOSE		88	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents

Internal Transfer Chain of Custody

Samples Pre-Logged into eCOC.

State Of Origin: WI
Cert. Needed: [X] Yes [ ] No
Owner Received Date: 3/9/2023 **Results Requested By:** 4/20/2023

Workorder: 40259145 **Workorder Name:** V&L STRIPPING/8318

Pace Analytical
www.pacelabs.com

Report To

Brian Basten
Pace Analytical Green Bay
1241 Bellevue Street
Suite 9
Green Bay, WI 54302
Phone (920)469-2436

Subcontract To

Pace Analytical West Columbia
106 Vantage Point Drive
West Columbia, SC 29172
Phone (803)791-9700

YC10041

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: PFAS WI 33	LAB USE ONLY
1	MW8D	PS	3/9/2023 11:42	40259145001	Water	2						X	
2	BLANK	PS	3/9/2023 00:00	40259145002	Water	1						X	
3													
4													
5													

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	3/9/23 1600		
2				
3	[illegible]	3/9/2023 [illegible]	[illegible]	3/10/23 1010

Comments:

Cooler Temperature on Receipt 2.7 °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 (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

DC#_Title: ENV-FRM-WCOL-0286 v02_Samples Receipt Checklist (SRC)
Effective Date: 8/2/2022

Sample Receipt Checklist (SRC)

Client: Pace Cooler Inspected by/date: CDR / 03/10/2023 Lot #: YC10041

Means of receipt: ☐ Pace ☐ Client ☐ UPS ☑ FedEx ☐ Other:

☑ Yes	☐ No		1. Were custody seals present on the cooler?
☑ Yes	☐ No	☐ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: 22-2027

1.7 / 1.7 °C NA / NA °C NA / NA °C NA / NA °C

Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: 8 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☑ Yes	☐ No	☐ NA	3. Were all coolers received at or below 6.0°C? If no, was Project Manager notified? PM was Notified by: phone / email / face-to-face (circle one).
☑ Yes	☐ No	☐ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC and all sample containers?
☑ Yes	☐ No		7. Was collection date & time listed on the COC and all sample containers?
☑ Yes	☐ No		8. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		9. Were tests to be performed listed on the COC?
☑ Yes	☐ No		10. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☑ Yes	☐ No		11. Was adequate sample volume available?
☑ Yes	☐ No		12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☑ Yes	☐ No		13. Were all samples containers accounted for? (No missing/excess)
☐ Yes	☐ No	☑ NA	14. Were VOA, 8015C and RSK-175 samples free of bubbles >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	15. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	16. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	17. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☑ No	☐ NA	18. Was the quote number listed on the container label? If yes, Quote #

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA. ☐
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #10 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Unique ID: NA.

Comments:

Qualtrax ID: 56360 Pace® Analytical Services, LLC Page 1 of 1

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

April 17, 2023

Andy Delforge
REI
4080 North 20th Avenue
Wausau, WI 54401

RE: Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

Dear Andy Delforge:

Enclosed are the analytical results for sample(s) received by the laboratory on April 12, 2023. 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,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kaylin Felix, REI

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Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40260582001	**SWN**	Solid	04/11/23 09:00	04/12/23 08:25
40260582002	**SWW**	Solid	04/11/23 09:10	04/12/23 08:25
40260582003	**SWS**	Solid	04/11/23 09:20	04/12/23 08:25
40260582004	**SWE**	Solid	04/11/23 09:30	04/12/23 08:25
40260582005	**MEOH BLANK**	Solid	04/11/23 00:00	04/12/23 08:25

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SAMPLE ANALYTE COUNT

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40260582001	**SWN**	EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40260582002	**SWW**	EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40260582003	**SWS**	EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40260582004	**SWE**	EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40260582005	**MEOH BLANK**	EPA 8260	ALD	64	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

Sample: SWN **Lab ID: 40260582001** Collected: 04/11/23 09:00 Received: 04/12/23 08:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<16.5**	ug/kg	27.6	16.5	1	04/13/23 08:00	04/13/23 14:52	71-43-2	
Bromobenzene	**<27.0**	ug/kg	69.1	27.0	1	04/13/23 08:00	04/13/23 14:52	108-86-1	
Bromochloromethane	**<18.9**	ug/kg	69.1	18.9	1	04/13/23 08:00	04/13/23 14:52	74-97-5	
Bromodichloromethane	**<16.5**	ug/kg	69.1	16.5	1	04/13/23 08:00	04/13/23 14:52	75-27-4	
Bromoform	**<304**	ug/kg	346	304	1	04/13/23 08:00	04/13/23 14:52	75-25-2	
Bromomethane	**<96.9**	ug/kg	346	96.9	1	04/13/23 08:00	04/13/23 14:52	74-83-9	
n-Butylbenzene	**<31.7**	ug/kg	69.1	31.7	1	04/13/23 08:00	04/13/23 14:52	104-51-8	
sec-Butylbenzene	**<16.9**	ug/kg	69.1	16.9	1	04/13/23 08:00	04/13/23 14:52	135-98-8	
tert-Butylbenzene	**<21.7**	ug/kg	69.1	21.7	1	04/13/23 08:00	04/13/23 14:52	98-06-6	
Carbon tetrachloride	**<15.2**	ug/kg	69.1	15.2	1	04/13/23 08:00	04/13/23 14:52	56-23-5	
Chlorobenzene	**<8.3**	ug/kg	69.1	8.3	1	04/13/23 08:00	04/13/23 14:52	108-90-7	
Chloroethane	**<29.2**	ug/kg	346	29.2	1	04/13/23 08:00	04/13/23 14:52	75-00-3	
Chloroform	**<49.5**	ug/kg	346	49.5	1	04/13/23 08:00	04/13/23 14:52	67-66-3	
Chloromethane	**<26.3**	ug/kg	69.1	26.3	1	04/13/23 08:00	04/13/23 14:52	74-87-3	
2-Chlorotoluene	**<22.4**	ug/kg	69.1	22.4	1	04/13/23 08:00	04/13/23 14:52	95-49-8	
4-Chlorotoluene	**<26.3**	ug/kg	69.1	26.3	1	04/13/23 08:00	04/13/23 14:52	106-43-4	
1,2-Dibromo-3-chloropropane	**<53.6**	ug/kg	346	53.6	1	04/13/23 08:00	04/13/23 14:52	96-12-8	
Dibromochloromethane	**<236**	ug/kg	346	236	1	04/13/23 08:00	04/13/23 14:52	124-48-1	
1,2-Dibromoethane (EDB)	**<18.9**	ug/kg	69.1	18.9	1	04/13/23 08:00	04/13/23 14:52	106-93-4	
Dibromomethane	**<20.5**	ug/kg	69.1	20.5	1	04/13/23 08:00	04/13/23 14:52	74-95-3	
1,2-Dichlorobenzene	**<21.4**	ug/kg	69.1	21.4	1	04/13/23 08:00	04/13/23 14:52	95-50-1	
1,3-Dichlorobenzene	**<18.9**	ug/kg	69.1	18.9	1	04/13/23 08:00	04/13/23 14:52	541-73-1	
1,4-Dichlorobenzene	**<18.9**	ug/kg	69.1	18.9	1	04/13/23 08:00	04/13/23 14:52	106-46-7	
Dichlorodifluoromethane	**<29.7**	ug/kg	69.1	29.7	1	04/13/23 08:00	04/13/23 14:52	75-71-8	
1,1-Dichloroethane	**<17.7**	ug/kg	69.1	17.7	1	04/13/23 08:00	04/13/23 14:52	75-34-3	
1,2-Dichloroethane	**<15.9**	ug/kg	69.1	15.9	1	04/13/23 08:00	04/13/23 14:52	107-06-2	
1,1-Dichloroethene	**<22.9**	ug/kg	69.1	22.9	1	04/13/23 08:00	04/13/23 14:52	75-35-4	
cis-1,2-Dichloroethene	**<14.8**	ug/kg	69.1	14.8	1	04/13/23 08:00	04/13/23 14:52	156-59-2	
trans-1,2-Dichloroethene	**<14.9**	ug/kg	69.1	14.9	1	04/13/23 08:00	04/13/23 14:52	156-60-5	
1,2-Dichloropropane	**<16.5**	ug/kg	69.1	16.5	1	04/13/23 08:00	04/13/23 14:52	78-87-5	
1,3-Dichloropropane	**<15.1**	ug/kg	69.1	15.1	1	04/13/23 08:00	04/13/23 14:52	142-28-9	
2,2-Dichloropropane	**<18.7**	ug/kg	69.1	18.7	1	04/13/23 08:00	04/13/23 14:52	594-20-7	
1,1-Dichloropropene	**<22.4**	ug/kg	69.1	22.4	1	04/13/23 08:00	04/13/23 14:52	563-58-6	
cis-1,3-Dichloropropene	**<45.6**	ug/kg	346	45.6	1	04/13/23 08:00	04/13/23 14:52	10061-01-5	
trans-1,3-Dichloropropene	**<198**	ug/kg	346	198	1	04/13/23 08:00	04/13/23 14:52	10061-02-6	
Diisopropyl ether	**<17.1**	ug/kg	69.1	17.1	1	04/13/23 08:00	04/13/23 14:52	108-20-3	
Ethylbenzene	**<16.5**	ug/kg	69.1	16.5	1	04/13/23 08:00	04/13/23 14:52	100-41-4	
Hexachloro-1,3-butadiene	**<137**	ug/kg	346	137	1	04/13/23 08:00	04/13/23 14:52	87-68-3	
Isopropylbenzene (Cumene)	**<18.7**	ug/kg	69.1	18.7	1	04/13/23 08:00	04/13/23 14:52	98-82-8	
p-Isopropyltoluene	**<21.0**	ug/kg	69.1	21.0	1	04/13/23 08:00	04/13/23 14:52	99-87-6	
Methylene Chloride	**<19.2**	ug/kg	69.1	19.2	1	04/13/23 08:00	04/13/23 14:52	75-09-2	
Methyl-tert-butyl ether	**<20.3**	ug/kg	69.1	20.3	1	04/13/23 08:00	04/13/23 14:52	1634-04-4	
Naphthalene	**<21.6**	ug/kg	346	21.6	1	04/13/23 08:00	04/13/23 14:52	91-20-3	
n-Propylbenzene	**<16.6**	ug/kg	69.1	16.6	1	04/13/23 08:00	04/13/23 14:52	103-65-1	

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

Sample: SWN **Lab ID: 40260582001** Collected: 04/11/23 09:00 Received: 04/12/23 08:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Styrene	**<17.7**	ug/kg	69.1	17.7	1	04/13/23 08:00	04/13/23 14:52	100-42-5	
1,1,1,2-Tetrachloroethane	**<16.6**	ug/kg	69.1	16.6	1	04/13/23 08:00	04/13/23 14:52	630-20-6	
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	69.1	25.0	1	04/13/23 08:00	04/13/23 14:52	79-34-5	
Tetrachloroethene	**<26.8**	ug/kg	69.1	26.8	1	04/13/23 08:00	04/13/23 14:52	127-18-4	
Toluene	**<17.4**	ug/kg	69.1	17.4	1	04/13/23 08:00	04/13/23 14:52	108-88-3	
1,2,3-Trichlorobenzene	**<77.0**	ug/kg	346	77.0	1	04/13/23 08:00	04/13/23 14:52	87-61-6	
1,2,4-Trichlorobenzene	**<57.0**	ug/kg	346	57.0	1	04/13/23 08:00	04/13/23 14:52	120-82-1	
1,1,1-Trichloroethane	**<17.7**	ug/kg	69.1	17.7	1	04/13/23 08:00	04/13/23 14:52	71-55-6	
1,1,2-Trichloroethane	**<25.2**	ug/kg	69.1	25.2	1	04/13/23 08:00	04/13/23 14:52	79-00-5	
Trichloroethene	**<25.9**	ug/kg	69.1	25.9	1	04/13/23 08:00	04/13/23 14:52	79-01-6	
Trichlorofluoromethane	**<20.0**	ug/kg	69.1	20.0	1	04/13/23 08:00	04/13/23 14:52	75-69-4	
1,2,3-Trichloropropane	**<33.6**	ug/kg	69.1	33.6	1	04/13/23 08:00	04/13/23 14:52	96-18-4	
1,2,4-Trimethylbenzene	**<20.6**	ug/kg	69.1	20.6	1	04/13/23 08:00	04/13/23 14:52	95-63-6	
1,3,5-Trimethylbenzene	**<22.3**	ug/kg	69.1	22.3	1	04/13/23 08:00	04/13/23 14:52	108-67-8	
Vinyl chloride	**<14.0**	ug/kg	69.1	14.0	1	04/13/23 08:00	04/13/23 14:52	75-01-4	
m&p-Xylene	**<29.2**	ug/kg	138	29.2	1	04/13/23 08:00	04/13/23 14:52	179601-23-1	
o-Xylene	**<20.7**	ug/kg	69.1	20.7	1	04/13/23 08:00	04/13/23 14:52	95-47-6	
Surrogates									
Toluene-d8 (S)	121	%	69-153		1	04/13/23 08:00	04/13/23 14:52	2037-26-5	
4-Bromofluorobenzene (S)	113	%	68-156		1	04/13/23 08:00	04/13/23 14:52	460-00-4	
1,2-Dichlorobenzene-d4 (S)	119	%	71-161		1	04/13/23 08:00	04/13/23 14:52	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**16.1**	%	0.10	0.10	1		04/13/23 08:20		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

Sample: SWW **Lab ID: 40260582002** Collected: 04/11/23 09:10 Received: 04/12/23 08:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<39.1**	ug/kg	65.6	39.1	2.5	04/13/23 08:00	04/13/23 19:44	71-43-2	
Bromobenzene	**<64.0**	ug/kg	164	64.0	2.5	04/13/23 08:00	04/13/23 19:44	108-86-1	
Bromochloromethane	**<45.0**	ug/kg	164	45.0	2.5	04/13/23 08:00	04/13/23 19:44	74-97-5	
Bromodichloromethane	**<39.1**	ug/kg	164	39.1	2.5	04/13/23 08:00	04/13/23 19:44	75-27-4	
Bromoform	**<722**	ug/kg	821	722	2.5	04/13/23 08:00	04/13/23 19:44	75-25-2	
Bromomethane	**<230**	ug/kg	821	230	2.5	04/13/23 08:00	04/13/23 19:44	74-83-9	
n-Butylbenzene	**<75.2**	ug/kg	164	75.2	2.5	04/13/23 08:00	04/13/23 19:44	104-51-8	
sec-Butylbenzene	**<40.0**	ug/kg	164	40.0	2.5	04/13/23 08:00	04/13/23 19:44	135-98-8	
tert-Butylbenzene	**<51.5**	ug/kg	164	51.5	2.5	04/13/23 08:00	04/13/23 19:44	98-06-6	
Carbon tetrachloride	**<36.1**	ug/kg	164	36.1	2.5	04/13/23 08:00	04/13/23 19:44	56-23-5	
Chlorobenzene	**<19.7**	ug/kg	164	19.7	2.5	04/13/23 08:00	04/13/23 19:44	108-90-7	
Chloroethane	**<69.3**	ug/kg	821	69.3	2.5	04/13/23 08:00	04/13/23 19:44	75-00-3	
Chloroform	**<117**	ug/kg	821	117	2.5	04/13/23 08:00	04/13/23 19:44	67-66-3	
Chloromethane	**<62.4**	ug/kg	164	62.4	2.5	04/13/23 08:00	04/13/23 19:44	74-87-3	
2-Chlorotoluene	**<53.2**	ug/kg	164	53.2	2.5	04/13/23 08:00	04/13/23 19:44	95-49-8	
4-Chlorotoluene	**<62.4**	ug/kg	164	62.4	2.5	04/13/23 08:00	04/13/23 19:44	106-43-4	
1,2-Dibromo-3-chloropropane	**<127**	ug/kg	821	127	2.5	04/13/23 08:00	04/13/23 19:44	96-12-8	
Dibromochloromethane	**<561**	ug/kg	821	561	2.5	04/13/23 08:00	04/13/23 19:44	124-48-1	
1,2-Dibromoethane (EDB)	**<45.0**	ug/kg	164	45.0	2.5	04/13/23 08:00	04/13/23 19:44	106-93-4	
Dibromomethane	**<48.6**	ug/kg	164	48.6	2.5	04/13/23 08:00	04/13/23 19:44	74-95-3	
1,2-Dichlorobenzene	**<50.9**	ug/kg	164	50.9	2.5	04/13/23 08:00	04/13/23 19:44	95-50-1	
1,3-Dichlorobenzene	**<45.0**	ug/kg	164	45.0	2.5	04/13/23 08:00	04/13/23 19:44	541-73-1	
1,4-Dichlorobenzene	**<45.0**	ug/kg	164	45.0	2.5	04/13/23 08:00	04/13/23 19:44	106-46-7	
Dichlorodifluoromethane	**<70.6**	ug/kg	164	70.6	2.5	04/13/23 08:00	04/13/23 19:44	75-71-8	
1,1-Dichloroethane	**<42.0**	ug/kg	164	42.0	2.5	04/13/23 08:00	04/13/23 19:44	75-34-3	
1,2-Dichloroethane	**<37.7**	ug/kg	164	37.7	2.5	04/13/23 08:00	04/13/23 19:44	107-06-2	
1,1-Dichloroethene	**<54.5**	ug/kg	164	54.5	2.5	04/13/23 08:00	04/13/23 19:44	75-35-4	
cis-1,2-Dichloroethene	**<35.1**	ug/kg	164	35.1	2.5	04/13/23 08:00	04/13/23 19:44	156-59-2	
trans-1,2-Dichloroethene	**<35.4**	ug/kg	164	35.4	2.5	04/13/23 08:00	04/13/23 19:44	156-60-5	
1,2-Dichloropropane	**<39.1**	ug/kg	164	39.1	2.5	04/13/23 08:00	04/13/23 19:44	78-87-5	
1,3-Dichloropropane	**<35.8**	ug/kg	164	35.8	2.5	04/13/23 08:00	04/13/23 19:44	142-28-9	
2,2-Dichloropropane	**<44.3**	ug/kg	164	44.3	2.5	04/13/23 08:00	04/13/23 19:44	594-20-7	
1,1-Dichloropropene	**<53.2**	ug/kg	164	53.2	2.5	04/13/23 08:00	04/13/23 19:44	563-58-6	
cis-1,3-Dichloropropene	**<108**	ug/kg	821	108	2.5	04/13/23 08:00	04/13/23 19:44	10061-01-5	
trans-1,3-Dichloropropene	**<469**	ug/kg	821	469	2.5	04/13/23 08:00	04/13/23 19:44	10061-02-6	
Diisopropyl ether	**<40.7**	ug/kg	164	40.7	2.5	04/13/23 08:00	04/13/23 19:44	108-20-3	
Ethylbenzene	**<39.1**	ug/kg	164	39.1	2.5	04/13/23 08:00	04/13/23 19:44	100-41-4	
Hexachloro-1,3-butadiene	**<326**	ug/kg	821	326	2.5	04/13/23 08:00	04/13/23 19:44	87-68-3	
Isopropylbenzene (Cumene)	**<44.3**	ug/kg	164	44.3	2.5	04/13/23 08:00	04/13/23 19:44	98-82-8	
p-Isopropyltoluene	**<49.9**	ug/kg	164	49.9	2.5	04/13/23 08:00	04/13/23 19:44	99-87-6	
Methylene Chloride	**<45.6**	ug/kg	164	45.6	2.5	04/13/23 08:00	04/13/23 19:44	75-09-2	
Methyl-tert-butyl ether	**<48.2**	ug/kg	164	48.2	2.5	04/13/23 08:00	04/13/23 19:44	1634-04-4	
Naphthalene	**<51.2**	ug/kg	821	51.2	2.5	04/13/23 08:00	04/13/23 19:44	91-20-3	
n-Propylbenzene	**<39.4**	ug/kg	164	39.4	2.5	04/13/23 08:00	04/13/23 19:44	103-65-1	

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

Sample: SWW **Lab ID: 40260582002** Collected: 04/11/23 09:10 Received: 04/12/23 08:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Styrene	**<42.0**	ug/kg	164	42.0	2.5	04/13/23 08:00	04/13/23 19:44	100-42-5	
1,1,1,2-Tetrachloroethane	**<39.4**	ug/kg	164	39.4	2.5	04/13/23 08:00	04/13/23 19:44	630-20-6	
1,1,2,2-Tetrachloroethane	**<59.4**	ug/kg	164	59.4	2.5	04/13/23 08:00	04/13/23 19:44	79-34-5	
Tetrachloroethene	**11800**	ug/kg	164	63.7	2.5	04/13/23 08:00	04/13/23 19:44	127-18-4	
Toluene	**<41.4**	ug/kg	164	41.4	2.5	04/13/23 08:00	04/13/23 19:44	108-88-3	
1,2,3-Trichlorobenzene	**<183**	ug/kg	821	183	2.5	04/13/23 08:00	04/13/23 19:44	87-61-6	
1,2,4-Trichlorobenzene	**<135**	ug/kg	821	135	2.5	04/13/23 08:00	04/13/23 19:44	120-82-1	
1,1,1-Trichloroethane	**<42.0**	ug/kg	164	42.0	2.5	04/13/23 08:00	04/13/23 19:44	71-55-6	
1,1,2-Trichloroethane	**<59.7**	ug/kg	164	59.7	2.5	04/13/23 08:00	04/13/23 19:44	79-00-5	
Trichloroethene	**<61.4**	ug/kg	164	61.4	2.5	04/13/23 08:00	04/13/23 19:44	79-01-6	
Trichlorofluoromethane	**<47.6**	ug/kg	164	47.6	2.5	04/13/23 08:00	04/13/23 19:44	75-69-4	
1,2,3-Trichloropropane	**<79.8**	ug/kg	164	79.8	2.5	04/13/23 08:00	04/13/23 19:44	96-18-4	
1,2,4-Trimethylbenzene	**<48.9**	ug/kg	164	48.9	2.5	04/13/23 08:00	04/13/23 19:44	95-63-6	
1,3,5-Trimethylbenzene	**<52.8**	ug/kg	164	52.8	2.5	04/13/23 08:00	04/13/23 19:44	108-67-8	
Vinyl chloride	**<33.1**	ug/kg	164	33.1	2.5	04/13/23 08:00	04/13/23 19:44	75-01-4	
m&p-Xylene	**<69.3**	ug/kg	328	69.3	2.5	04/13/23 08:00	04/13/23 19:44	179601-23-1	
o-Xylene	**<49.2**	ug/kg	164	49.2	2.5	04/13/23 08:00	04/13/23 19:44	95-47-6	
Surrogates									
Toluene-d8 (S)	121	%	69-153		2.5	04/13/23 08:00	04/13/23 19:44	2037-26-5	
4-Bromofluorobenzene (S)	133	%	68-156		2.5	04/13/23 08:00	04/13/23 19:44	460-00-4	
1,2-Dichlorobenzene-d4 (S)	142	%	71-161		2.5	04/13/23 08:00	04/13/23 19:44	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**13.5**	%	0.10	0.10	1		04/13/23 08:20		

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

Sample: SWS **Lab ID: 40260582003** Collected: 04/11/23 09:20 Received: 04/12/23 08:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<16.2**	ug/kg	27.3	16.2	1	04/13/23 08:00	04/13/23 15:11	71-43-2	
Bromobenzene	**<26.6**	ug/kg	68.2	26.6	1	04/13/23 08:00	04/13/23 15:11	108-86-1	
Bromochloromethane	**<18.7**	ug/kg	68.2	18.7	1	04/13/23 08:00	04/13/23 15:11	74-97-5	
Bromodichloromethane	**<16.2**	ug/kg	68.2	16.2	1	04/13/23 08:00	04/13/23 15:11	75-27-4	
Bromoform	**<300**	ug/kg	341	300	1	04/13/23 08:00	04/13/23 15:11	75-25-2	
Bromomethane	**<95.7**	ug/kg	341	95.7	1	04/13/23 08:00	04/13/23 15:11	74-83-9	
n-Butylbenzene	**<31.3**	ug/kg	68.2	31.3	1	04/13/23 08:00	04/13/23 15:11	104-51-8	
sec-Butylbenzene	**<16.7**	ug/kg	68.2	16.7	1	04/13/23 08:00	04/13/23 15:11	135-98-8	
tert-Butylbenzene	**<21.4**	ug/kg	68.2	21.4	1	04/13/23 08:00	04/13/23 15:11	98-06-6	
Carbon tetrachloride	**<15.0**	ug/kg	68.2	15.0	1	04/13/23 08:00	04/13/23 15:11	56-23-5	
Chlorobenzene	**<8.2**	ug/kg	68.2	8.2	1	04/13/23 08:00	04/13/23 15:11	108-90-7	
Chloroethane	**<28.8**	ug/kg	341	28.8	1	04/13/23 08:00	04/13/23 15:11	75-00-3	
Chloroform	**<48.9**	ug/kg	341	48.9	1	04/13/23 08:00	04/13/23 15:11	67-66-3	
Chloromethane	**<25.9**	ug/kg	68.2	25.9	1	04/13/23 08:00	04/13/23 15:11	74-87-3	
2-Chlorotoluene	**<22.1**	ug/kg	68.2	22.1	1	04/13/23 08:00	04/13/23 15:11	95-49-8	
4-Chlorotoluene	**<25.9**	ug/kg	68.2	25.9	1	04/13/23 08:00	04/13/23 15:11	106-43-4	
1,2-Dibromo-3-chloropropane	**<53.0**	ug/kg	341	53.0	1	04/13/23 08:00	04/13/23 15:11	96-12-8	
Dibromochloromethane	**<233**	ug/kg	341	233	1	04/13/23 08:00	04/13/23 15:11	124-48-1	
1,2-Dibromoethane (EDB)	**<18.7**	ug/kg	68.2	18.7	1	04/13/23 08:00	04/13/23 15:11	106-93-4	
Dibromomethane	**<20.2**	ug/kg	68.2	20.2	1	04/13/23 08:00	04/13/23 15:11	74-95-3	
1,2-Dichlorobenzene	**<21.2**	ug/kg	68.2	21.2	1	04/13/23 08:00	04/13/23 15:11	95-50-1	
1,3-Dichlorobenzene	**<18.7**	ug/kg	68.2	18.7	1	04/13/23 08:00	04/13/23 15:11	541-73-1	
1,4-Dichlorobenzene	**<18.7**	ug/kg	68.2	18.7	1	04/13/23 08:00	04/13/23 15:11	106-46-7	
Dichlorodifluoromethane	**<29.3**	ug/kg	68.2	29.3	1	04/13/23 08:00	04/13/23 15:11	75-71-8	
1,1-Dichloroethane	**<17.5**	ug/kg	68.2	17.5	1	04/13/23 08:00	04/13/23 15:11	75-34-3	
1,2-Dichloroethane	**<15.7**	ug/kg	68.2	15.7	1	04/13/23 08:00	04/13/23 15:11	107-06-2	
1,1-Dichloroethene	**<22.7**	ug/kg	68.2	22.7	1	04/13/23 08:00	04/13/23 15:11	75-35-4	
cis-1,2-Dichloroethene	**<14.6**	ug/kg	68.2	14.6	1	04/13/23 08:00	04/13/23 15:11	156-59-2	
trans-1,2-Dichloroethene	**<14.7**	ug/kg	68.2	14.7	1	04/13/23 08:00	04/13/23 15:11	156-60-5	
1,2-Dichloropropane	**<16.2**	ug/kg	68.2	16.2	1	04/13/23 08:00	04/13/23 15:11	78-87-5	
1,3-Dichloropropane	**<14.9**	ug/kg	68.2	14.9	1	04/13/23 08:00	04/13/23 15:11	142-28-9	
2,2-Dichloropropane	**<18.4**	ug/kg	68.2	18.4	1	04/13/23 08:00	04/13/23 15:11	594-20-7	
1,1-Dichloropropene	**<22.1**	ug/kg	68.2	22.1	1	04/13/23 08:00	04/13/23 15:11	563-58-6	
cis-1,3-Dichloropropene	**<45.0**	ug/kg	341	45.0	1	04/13/23 08:00	04/13/23 15:11	10061-01-5	
trans-1,3-Dichloropropene	**<195**	ug/kg	341	195	1	04/13/23 08:00	04/13/23 15:11	10061-02-6	
Diisopropyl ether	**<16.9**	ug/kg	68.2	16.9	1	04/13/23 08:00	04/13/23 15:11	108-20-3	
Ethylbenzene	**<16.2**	ug/kg	68.2	16.2	1	04/13/23 08:00	04/13/23 15:11	100-41-4	
Hexachloro-1,3-butadiene	**<136**	ug/kg	341	136	1	04/13/23 08:00	04/13/23 15:11	87-68-3	
Isopropylbenzene (Cumene)	**<18.4**	ug/kg	68.2	18.4	1	04/13/23 08:00	04/13/23 15:11	98-82-8	
p-Isopropyltoluene	**<20.7**	ug/kg	68.2	20.7	1	04/13/23 08:00	04/13/23 15:11	99-87-6	
Methylene Chloride	**<19.0**	ug/kg	68.2	19.0	1	04/13/23 08:00	04/13/23 15:11	75-09-2	
Methyl-tert-butyl ether	**<20.1**	ug/kg	68.2	20.1	1	04/13/23 08:00	04/13/23 15:11	1634-04-4	
Naphthalene	**<21.3**	ug/kg	341	21.3	1	04/13/23 08:00	04/13/23 15:11	91-20-3	
n-Propylbenzene	**<16.4**	ug/kg	68.2	16.4	1	04/13/23 08:00	04/13/23 15:11	103-65-1	

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

Sample: SWS **Lab ID: 40260582003** Collected: 04/11/23 09:20 Received: 04/12/23 08:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Styrene	**<17.5**	ug/kg	68.2	17.5	1	04/13/23 08:00	04/13/23 15:11	100-42-5	
1,1,1,2-Tetrachloroethane	**<16.4**	ug/kg	68.2	16.4	1	04/13/23 08:00	04/13/23 15:11	630-20-6	
1,1,2,2-Tetrachloroethane	**<24.7**	ug/kg	68.2	24.7	1	04/13/23 08:00	04/13/23 15:11	79-34-5	
Tetrachloroethene	**1580**	ug/kg	68.2	26.5	1	04/13/23 08:00	04/13/23 15:11	127-18-4	
Toluene	**<17.2**	ug/kg	68.2	17.2	1	04/13/23 08:00	04/13/23 15:11	108-88-3	
1,2,3-Trichlorobenzene	**<76.0**	ug/kg	341	76.0	1	04/13/23 08:00	04/13/23 15:11	87-61-6	
1,2,4-Trichlorobenzene	**<56.2**	ug/kg	341	56.2	1	04/13/23 08:00	04/13/23 15:11	120-82-1	
1,1,1-Trichloroethane	**<17.5**	ug/kg	68.2	17.5	1	04/13/23 08:00	04/13/23 15:11	71-55-6	
1,1,2-Trichloroethane	**<24.8**	ug/kg	68.2	24.8	1	04/13/23 08:00	04/13/23 15:11	79-00-5	
Trichloroethene	**<25.5**	ug/kg	68.2	25.5	1	04/13/23 08:00	04/13/23 15:11	79-01-6	
Trichlorofluoromethane	**<19.8**	ug/kg	68.2	19.8	1	04/13/23 08:00	04/13/23 15:11	75-69-4	
1,2,3-Trichloropropane	**<33.2**	ug/kg	68.2	33.2	1	04/13/23 08:00	04/13/23 15:11	96-18-4	
1,2,4-Trimethylbenzene	**<20.3**	ug/kg	68.2	20.3	1	04/13/23 08:00	04/13/23 15:11	95-63-6	
1,3,5-Trimethylbenzene	**<22.0**	ug/kg	68.2	22.0	1	04/13/23 08:00	04/13/23 15:11	108-67-8	
Vinyl chloride	**<13.8**	ug/kg	68.2	13.8	1	04/13/23 08:00	04/13/23 15:11	75-01-4	
m&p-Xylene	**<28.8**	ug/kg	136	28.8	1	04/13/23 08:00	04/13/23 15:11	179601-23-1	
o-Xylene	**<20.5**	ug/kg	68.2	20.5	1	04/13/23 08:00	04/13/23 15:11	95-47-6	
Surrogates									
Toluene-d8 (S)	124	%	69-153		1	04/13/23 08:00	04/13/23 15:11	2037-26-5	
4-Bromofluorobenzene (S)	129	%	68-156		1	04/13/23 08:00	04/13/23 15:11	460-00-4	
1,2-Dichlorobenzene-d4 (S)	133	%	71-161		1	04/13/23 08:00	04/13/23 15:11	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**15.4**	%	0.10	0.10	1		04/13/23 08:20		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

Sample: SWE **Lab ID: 40260582004** Collected: 04/11/23 09:30 Received: 04/12/23 08:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<17.7**	ug/kg	29.8	17.7	1	04/13/23 08:00	04/13/23 15:31	71-43-2	
Bromobenzene	**<29.0**	ug/kg	74.5	29.0	1	04/13/23 08:00	04/13/23 15:31	108-86-1	
Bromochloromethane	**<20.4**	ug/kg	74.5	20.4	1	04/13/23 08:00	04/13/23 15:31	74-97-5	
Bromodichloromethane	**<17.7**	ug/kg	74.5	17.7	1	04/13/23 08:00	04/13/23 15:31	75-27-4	
Bromoform	**<328**	ug/kg	372	328	1	04/13/23 08:00	04/13/23 15:31	75-25-2	
Bromomethane	**<104**	ug/kg	372	104	1	04/13/23 08:00	04/13/23 15:31	74-83-9	
n-Butylbenzene	**<34.1**	ug/kg	74.5	34.1	1	04/13/23 08:00	04/13/23 15:31	104-51-8	
sec-Butylbenzene	**<18.2**	ug/kg	74.5	18.2	1	04/13/23 08:00	04/13/23 15:31	135-98-8	
tert-Butylbenzene	**<23.4**	ug/kg	74.5	23.4	1	04/13/23 08:00	04/13/23 15:31	98-06-6	
Carbon tetrachloride	**<16.4**	ug/kg	74.5	16.4	1	04/13/23 08:00	04/13/23 15:31	56-23-5	
Chlorobenzene	**<8.9**	ug/kg	74.5	8.9	1	04/13/23 08:00	04/13/23 15:31	108-90-7	
Chloroethane	**<31.4**	ug/kg	372	31.4	1	04/13/23 08:00	04/13/23 15:31	75-00-3	
Chloroform	**<53.3**	ug/kg	372	53.3	1	04/13/23 08:00	04/13/23 15:31	67-66-3	
Chloromethane	**<28.3**	ug/kg	74.5	28.3	1	04/13/23 08:00	04/13/23 15:31	74-87-3	
2-Chlorotoluene	**<24.1**	ug/kg	74.5	24.1	1	04/13/23 08:00	04/13/23 15:31	95-49-8	
4-Chlorotoluene	**<28.3**	ug/kg	74.5	28.3	1	04/13/23 08:00	04/13/23 15:31	106-43-4	
1,2-Dibromo-3-chloropropane	**<57.8**	ug/kg	372	57.8	1	04/13/23 08:00	04/13/23 15:31	96-12-8	
Dibromochloromethane	**<254**	ug/kg	372	254	1	04/13/23 08:00	04/13/23 15:31	124-48-1	
1,2-Dibromoethane (EDB)	**<20.4**	ug/kg	74.5	20.4	1	04/13/23 08:00	04/13/23 15:31	106-93-4	
Dibromomethane	**<22.0**	ug/kg	74.5	22.0	1	04/13/23 08:00	04/13/23 15:31	74-95-3	
1,2-Dichlorobenzene	**<23.1**	ug/kg	74.5	23.1	1	04/13/23 08:00	04/13/23 15:31	95-50-1	
1,3-Dichlorobenzene	**<20.4**	ug/kg	74.5	20.4	1	04/13/23 08:00	04/13/23 15:31	541-73-1	
1,4-Dichlorobenzene	**<20.4**	ug/kg	74.5	20.4	1	04/13/23 08:00	04/13/23 15:31	106-46-7	
Dichlorodifluoromethane	**<32.0**	ug/kg	74.5	32.0	1	04/13/23 08:00	04/13/23 15:31	75-71-8	
1,1-Dichloroethane	**<19.1**	ug/kg	74.5	19.1	1	04/13/23 08:00	04/13/23 15:31	75-34-3	
1,2-Dichloroethane	**<17.1**	ug/kg	74.5	17.1	1	04/13/23 08:00	04/13/23 15:31	107-06-2	
1,1-Dichloroethene	**<24.7**	ug/kg	74.5	24.7	1	04/13/23 08:00	04/13/23 15:31	75-35-4	
cis-1,2-Dichloroethene	**<15.9**	ug/kg	74.5	15.9	1	04/13/23 08:00	04/13/23 15:31	156-59-2	
trans-1,2-Dichloroethene	**<16.1**	ug/kg	74.5	16.1	1	04/13/23 08:00	04/13/23 15:31	156-60-5	
1,2-Dichloropropane	**<17.7**	ug/kg	74.5	17.7	1	04/13/23 08:00	04/13/23 15:31	78-87-5	
1,3-Dichloropropane	**<16.2**	ug/kg	74.5	16.2	1	04/13/23 08:00	04/13/23 15:31	142-28-9	
2,2-Dichloropropane	**<20.1**	ug/kg	74.5	20.1	1	04/13/23 08:00	04/13/23 15:31	594-20-7	
1,1-Dichloropropene	**<24.1**	ug/kg	74.5	24.1	1	04/13/23 08:00	04/13/23 15:31	563-58-6	
cis-1,3-Dichloropropene	**<49.1**	ug/kg	372	49.1	1	04/13/23 08:00	04/13/23 15:31	10061-01-5	
trans-1,3-Dichloropropene	**<213**	ug/kg	372	213	1	04/13/23 08:00	04/13/23 15:31	10061-02-6	
Diisopropyl ether	**<18.5**	ug/kg	74.5	18.5	1	04/13/23 08:00	04/13/23 15:31	108-20-3	
Ethylbenzene	**<17.7**	ug/kg	74.5	17.7	1	04/13/23 08:00	04/13/23 15:31	100-41-4	
Hexachloro-1,3-butadiene	**<148**	ug/kg	372	148	1	04/13/23 08:00	04/13/23 15:31	87-68-3	
Isopropylbenzene (Cumene)	**<20.1**	ug/kg	74.5	20.1	1	04/13/23 08:00	04/13/23 15:31	98-82-8	
p-Isopropyltoluene	**<22.6**	ug/kg	74.5	22.6	1	04/13/23 08:00	04/13/23 15:31	99-87-6	
Methylene Chloride	**<20.7**	ug/kg	74.5	20.7	1	04/13/23 08:00	04/13/23 15:31	75-09-2	
Methyl-tert-butyl ether	**<21.9**	ug/kg	74.5	21.9	1	04/13/23 08:00	04/13/23 15:31	1634-04-4	
Naphthalene	**<23.2**	ug/kg	372	23.2	1	04/13/23 08:00	04/13/23 15:31	91-20-3	
n-Propylbenzene	**<17.9**	ug/kg	74.5	17.9	1	04/13/23 08:00	04/13/23 15:31	103-65-1	

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

Sample: SWE **Lab ID: 40260582004** Collected: 04/11/23 09:30 Received: 04/12/23 08:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Styrene	**<19.1**	ug/kg	74.5	19.1	1	04/13/23 08:00	04/13/23 15:31	100-42-5	
1,1,1,2-Tetrachloroethane	**<17.9**	ug/kg	74.5	17.9	1	04/13/23 08:00	04/13/23 15:31	630-20-6	
1,1,2,2-Tetrachloroethane	**<27.0**	ug/kg	74.5	27.0	1	04/13/23 08:00	04/13/23 15:31	79-34-5	
Tetrachloroethene	**<28.9**	ug/kg	74.5	28.9	1	04/13/23 08:00	04/13/23 15:31	127-18-4	
Toluene	**<18.8**	ug/kg	74.5	18.8	1	04/13/23 08:00	04/13/23 15:31	108-88-3	
1,2,3-Trichlorobenzene	**<82.9**	ug/kg	372	82.9	1	04/13/23 08:00	04/13/23 15:31	87-61-6	
1,2,4-Trichlorobenzene	**<61.3**	ug/kg	372	61.3	1	04/13/23 08:00	04/13/23 15:31	120-82-1	
1,1,1-Trichloroethane	**<19.1**	ug/kg	74.5	19.1	1	04/13/23 08:00	04/13/23 15:31	71-55-6	
1,1,2-Trichloroethane	**<27.1**	ug/kg	74.5	27.1	1	04/13/23 08:00	04/13/23 15:31	79-00-5	
Trichloroethene	**<27.8**	ug/kg	74.5	27.8	1	04/13/23 08:00	04/13/23 15:31	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/kg	74.5	21.6	1	04/13/23 08:00	04/13/23 15:31	75-69-4	
1,2,3-Trichloropropane	**<36.2**	ug/kg	74.5	36.2	1	04/13/23 08:00	04/13/23 15:31	96-18-4	
1,2,4-Trimethylbenzene	**<22.2**	ug/kg	74.5	22.2	1	04/13/23 08:00	04/13/23 15:31	95-63-6	
1,3,5-Trimethylbenzene	**<24.0**	ug/kg	74.5	24.0	1	04/13/23 08:00	04/13/23 15:31	108-67-8	
Vinyl chloride	**<15.0**	ug/kg	74.5	15.0	1	04/13/23 08:00	04/13/23 15:31	75-01-4	
m&p-Xylene	**<31.4**	ug/kg	149	31.4	1	04/13/23 08:00	04/13/23 15:31	179601-23-1	
o-Xylene	**<22.3**	ug/kg	74.5	22.3	1	04/13/23 08:00	04/13/23 15:31	95-47-6	
Surrogates									
Toluene-d8 (S)	134	%	69-153		1	04/13/23 08:00	04/13/23 15:31	2037-26-5	
4-Bromofluorobenzene (S)	142	%	68-156		1	04/13/23 08:00	04/13/23 15:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	152	%	71-161		1	04/13/23 08:00	04/13/23 15:31	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**19.6**	%	0.10	0.10	1		04/13/23 08:20		

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

Sample: MEOH BLANK **Lab ID: 40260582005** Collected: 04/11/23 00:00 Received: 04/12/23 08:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<11.9**	ug/kg	20.0	11.9	1	04/13/23 08:00	04/13/23 13:53	71-43-2	
Bromobenzene	**<19.5**	ug/kg	50.0	19.5	1	04/13/23 08:00	04/13/23 13:53	108-86-1	
Bromochloromethane	**<13.7**	ug/kg	50.0	13.7	1	04/13/23 08:00	04/13/23 13:53	74-97-5	
Bromodichloromethane	**<11.9**	ug/kg	50.0	11.9	1	04/13/23 08:00	04/13/23 13:53	75-27-4	
Bromoform	**<220**	ug/kg	250	220	1	04/13/23 08:00	04/13/23 13:53	75-25-2	
Bromomethane	**<70.1**	ug/kg	250	70.1	1	04/13/23 08:00	04/13/23 13:53	74-83-9	
n-Butylbenzene	**<22.9**	ug/kg	50.0	22.9	1	04/13/23 08:00	04/13/23 13:53	104-51-8	
sec-Butylbenzene	**<12.2**	ug/kg	50.0	12.2	1	04/13/23 08:00	04/13/23 13:53	135-98-8	
tert-Butylbenzene	**<15.7**	ug/kg	50.0	15.7	1	04/13/23 08:00	04/13/23 13:53	98-06-6	
Carbon tetrachloride	**<11.0**	ug/kg	50.0	11.0	1	04/13/23 08:00	04/13/23 13:53	56-23-5	
Chlorobenzene	**<6.0**	ug/kg	50.0	6.0	1	04/13/23 08:00	04/13/23 13:53	108-90-7	
Chloroethane	**<21.1**	ug/kg	250	21.1	1	04/13/23 08:00	04/13/23 13:53	75-00-3	
Chloroform	**<35.8**	ug/kg	250	35.8	1	04/13/23 08:00	04/13/23 13:53	67-66-3	
Chloromethane	**<19.0**	ug/kg	50.0	19.0	1	04/13/23 08:00	04/13/23 13:53	74-87-3	
2-Chlorotoluene	**<16.2**	ug/kg	50.0	16.2	1	04/13/23 08:00	04/13/23 13:53	95-49-8	
4-Chlorotoluene	**<19.0**	ug/kg	50.0	19.0	1	04/13/23 08:00	04/13/23 13:53	106-43-4	
1,2-Dibromo-3-chloropropane	**<38.8**	ug/kg	250	38.8	1	04/13/23 08:00	04/13/23 13:53	96-12-8	
Dibromochloromethane	**<171**	ug/kg	250	171	1	04/13/23 08:00	04/13/23 13:53	124-48-1	
1,2-Dibromoethane (EDB)	**<13.7**	ug/kg	50.0	13.7	1	04/13/23 08:00	04/13/23 13:53	106-93-4	
Dibromomethane	**<14.8**	ug/kg	50.0	14.8	1	04/13/23 08:00	04/13/23 13:53	74-95-3	
1,2-Dichlorobenzene	**<15.5**	ug/kg	50.0	15.5	1	04/13/23 08:00	04/13/23 13:53	95-50-1	
1,3-Dichlorobenzene	**<13.7**	ug/kg	50.0	13.7	1	04/13/23 08:00	04/13/23 13:53	541-73-1	
1,4-Dichlorobenzene	**<13.7**	ug/kg	50.0	13.7	1	04/13/23 08:00	04/13/23 13:53	106-46-7	
Dichlorodifluoromethane	**<21.5**	ug/kg	50.0	21.5	1	04/13/23 08:00	04/13/23 13:53	75-71-8	
1,1-Dichloroethane	**<12.8**	ug/kg	50.0	12.8	1	04/13/23 08:00	04/13/23 13:53	75-34-3	
1,2-Dichloroethane	**<11.5**	ug/kg	50.0	11.5	1	04/13/23 08:00	04/13/23 13:53	107-06-2	
1,1-Dichloroethene	**<16.6**	ug/kg	50.0	16.6	1	04/13/23 08:00	04/13/23 13:53	75-35-4	
cis-1,2-Dichloroethene	**<10.7**	ug/kg	50.0	10.7	1	04/13/23 08:00	04/13/23 13:53	156-59-2	
trans-1,2-Dichloroethene	**<10.8**	ug/kg	50.0	10.8	1	04/13/23 08:00	04/13/23 13:53	156-60-5	
1,2-Dichloropropane	**<11.9**	ug/kg	50.0	11.9	1	04/13/23 08:00	04/13/23 13:53	78-87-5	
1,3-Dichloropropane	**<10.9**	ug/kg	50.0	10.9	1	04/13/23 08:00	04/13/23 13:53	142-28-9	
2,2-Dichloropropane	**<13.5**	ug/kg	50.0	13.5	1	04/13/23 08:00	04/13/23 13:53	594-20-7	
1,1-Dichloropropene	**<16.2**	ug/kg	50.0	16.2	1	04/13/23 08:00	04/13/23 13:53	563-58-6	
cis-1,3-Dichloropropene	**<33.0**	ug/kg	250	33.0	1	04/13/23 08:00	04/13/23 13:53	10061-01-5	
trans-1,3-Dichloropropene	**<143**	ug/kg	250	143	1	04/13/23 08:00	04/13/23 13:53	10061-02-6	
Diisopropyl ether	**<12.4**	ug/kg	50.0	12.4	1	04/13/23 08:00	04/13/23 13:53	108-20-3	
Ethylbenzene	**<11.9**	ug/kg	50.0	11.9	1	04/13/23 08:00	04/13/23 13:53	100-41-4	
Hexachloro-1,3-butadiene	**<99.4**	ug/kg	250	99.4	1	04/13/23 08:00	04/13/23 13:53	87-68-3	
Isopropylbenzene (Cumene)	**<13.5**	ug/kg	50.0	13.5	1	04/13/23 08:00	04/13/23 13:53	98-82-8	
p-Isopropyltoluene	**<15.2**	ug/kg	50.0	15.2	1	04/13/23 08:00	04/13/23 13:53	99-87-6	
Methylene Chloride	**<13.9**	ug/kg	50.0	13.9	1	04/13/23 08:00	04/13/23 13:53	75-09-2	
Methyl-tert-butyl ether	**<14.7**	ug/kg	50.0	14.7	1	04/13/23 08:00	04/13/23 13:53	1634-04-4	
Naphthalene	**<15.6**	ug/kg	250	15.6	1	04/13/23 08:00	04/13/23 13:53	91-20-3	
n-Propylbenzene	**<12.0**	ug/kg	50.0	12.0	1	04/13/23 08:00	04/13/23 13:53	103-65-1	

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

Sample: MEOH BLANK **Lab ID: 40260582005** Collected: 04/11/23 00:00 Received: 04/12/23 08:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Styrene	**<12.8**	ug/kg	50.0	12.8	1	04/13/23 08:00	04/13/23 13:53	100-42-5	
1,1,1,2-Tetrachloroethane	**<12.0**	ug/kg	50.0	12.0	1	04/13/23 08:00	04/13/23 13:53	630-20-6	
1,1,2,2-Tetrachloroethane	**<18.1**	ug/kg	50.0	18.1	1	04/13/23 08:00	04/13/23 13:53	79-34-5	
Tetrachloroethene	**<19.4**	ug/kg	50.0	19.4	1	04/13/23 08:00	04/13/23 13:53	127-18-4	
Toluene	**<12.6**	ug/kg	50.0	12.6	1	04/13/23 08:00	04/13/23 13:53	108-88-3	
1,2,3-Trichlorobenzene	**<55.7**	ug/kg	250	55.7	1	04/13/23 08:00	04/13/23 13:53	87-61-6	
1,2,4-Trichlorobenzene	**<41.2**	ug/kg	250	41.2	1	04/13/23 08:00	04/13/23 13:53	120-82-1	
1,1,1-Trichloroethane	**<12.8**	ug/kg	50.0	12.8	1	04/13/23 08:00	04/13/23 13:53	71-55-6	
1,1,2-Trichloroethane	**<18.2**	ug/kg	50.0	18.2	1	04/13/23 08:00	04/13/23 13:53	79-00-5	
Trichloroethene	**<18.7**	ug/kg	50.0	18.7	1	04/13/23 08:00	04/13/23 13:53	79-01-6	
Trichlorofluoromethane	**<14.5**	ug/kg	50.0	14.5	1	04/13/23 08:00	04/13/23 13:53	75-69-4	
1,2,3-Trichloropropane	**<24.3**	ug/kg	50.0	24.3	1	04/13/23 08:00	04/13/23 13:53	96-18-4	
1,2,4-Trimethylbenzene	**<14.9**	ug/kg	50.0	14.9	1	04/13/23 08:00	04/13/23 13:53	95-63-6	
1,3,5-Trimethylbenzene	**<16.1**	ug/kg	50.0	16.1	1	04/13/23 08:00	04/13/23 13:53	108-67-8	
Vinyl chloride	**<10.1**	ug/kg	50.0	10.1	1	04/13/23 08:00	04/13/23 13:53	75-01-4	
m&p-Xylene	**<21.1**	ug/kg	100	21.1	1	04/13/23 08:00	04/13/23 13:53	179601-23-1	
o-Xylene	**<15.0**	ug/kg	50.0	15.0	1	04/13/23 08:00	04/13/23 13:53	95-47-6	
Surrogates									
Toluene-d8 (S)	86	%	69-153		1	04/13/23 08:00	04/13/23 13:53	2037-26-5	
4-Bromofluorobenzene (S)	80	%	68-156		1	04/13/23 08:00	04/13/23 13:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	83	%	71-161		1	04/13/23 08:00	04/13/23 13:53	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

QC Batch: 442256
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40260582001, 40260582002, 40260582003, 40260582004, 40260582005

METHOD BLANK: 2539154 Matrix: Solid
Associated Lab Samples: 40260582001, 40260582002, 40260582003, 40260582004, 40260582005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<12.0	50.0	04/13/23 11:37	
1,1,1-Trichloroethane	ug/kg	<12.8	50.0	04/13/23 11:37	
1,1,2,2-Tetrachloroethane	ug/kg	<18.1	50.0	04/13/23 11:37	
1,1,2-Trichloroethane	ug/kg	<18.2	50.0	04/13/23 11:37	
1,1-Dichloroethane	ug/kg	<12.8	50.0	04/13/23 11:37	
1,1-Dichloroethene	ug/kg	<16.6	50.0	04/13/23 11:37	
1,1-Dichloropropene	ug/kg	<16.2	50.0	04/13/23 11:37	
1,2,3-Trichlorobenzene	ug/kg	<55.7	250	04/13/23 11:37	
1,2,3-Trichloropropane	ug/kg	<24.3	50.0	04/13/23 11:37	
1,2,4-Trichlorobenzene	ug/kg	<41.2	250	04/13/23 11:37	
1,2,4-Trimethylbenzene	ug/kg	<14.9	50.0	04/13/23 11:37	
1,2-Dibromo-3-chloropropane	ug/kg	<38.8	250	04/13/23 11:37	
1,2-Dibromoethane (EDB)	ug/kg	<13.7	50.0	04/13/23 11:37	
1,2-Dichlorobenzene	ug/kg	<15.5	50.0	04/13/23 11:37	
1,2-Dichloroethane	ug/kg	<11.5	50.0	04/13/23 11:37	
1,2-Dichloropropane	ug/kg	<11.9	50.0	04/13/23 11:37	
1,3,5-Trimethylbenzene	ug/kg	<16.1	50.0	04/13/23 11:37	
1,3-Dichlorobenzene	ug/kg	<13.7	50.0	04/13/23 11:37	
1,3-Dichloropropane	ug/kg	<10.9	50.0	04/13/23 11:37	
1,4-Dichlorobenzene	ug/kg	<13.7	50.0	04/13/23 11:37	
2,2-Dichloropropane	ug/kg	<13.5	50.0	04/13/23 11:37	
2-Chlorotoluene	ug/kg	<16.2	50.0	04/13/23 11:37	
4-Chlorotoluene	ug/kg	<19.0	50.0	04/13/23 11:37	
Benzene	ug/kg	<11.9	20.0	04/13/23 11:37	
Bromobenzene	ug/kg	<19.5	50.0	04/13/23 11:37	
Bromochloromethane	ug/kg	<13.7	50.0	04/13/23 11:37	
Bromodichloromethane	ug/kg	<11.9	50.0	04/13/23 11:37	
Bromoform	ug/kg	<220	250	04/13/23 11:37	
Bromomethane	ug/kg	<70.1	250	04/13/23 11:37	
Carbon tetrachloride	ug/kg	<11.0	50.0	04/13/23 11:37	
Chlorobenzene	ug/kg	<6.0	50.0	04/13/23 11:37	
Chloroethane	ug/kg	<21.1	250	04/13/23 11:37	
Chloroform	ug/kg	<35.8	250	04/13/23 11:37	
Chloromethane	ug/kg	<19.0	50.0	04/13/23 11:37	
cis-1,2-Dichloroethene	ug/kg	<10.7	50.0	04/13/23 11:37	
cis-1,3-Dichloropropene	ug/kg	<33.0	250	04/13/23 11:37	
Dibromochloromethane	ug/kg	<171	250	04/13/23 11:37	
Dibromomethane	ug/kg	<14.8	50.0	04/13/23 11:37	
Dichlorodifluoromethane	ug/kg	<21.5	50.0	04/13/23 11:37	
Diisopropyl ether	ug/kg	<12.4	50.0	04/13/23 11:37	

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QUALITY CONTROL DATA

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

METHOD BLANK: 2539154 Matrix: Solid
Associated Lab Samples: 40260582001, 40260582002, 40260582003, 40260582004, 40260582005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<11.9	50.0	04/13/23 11:37	
Hexachloro-1,3-butadiene	ug/kg	<99.4	250	04/13/23 11:37	
Isopropylbenzene (Cumene)	ug/kg	<13.5	50.0	04/13/23 11:37	
m&p-Xylene	ug/kg	<21.1	100	04/13/23 11:37	
Methyl-tert-butyl ether	ug/kg	<14.7	50.0	04/13/23 11:37	
Methylene Chloride	ug/kg	<13.9	50.0	04/13/23 11:37	
n-Butylbenzene	ug/kg	<22.9	50.0	04/13/23 11:37	
n-Propylbenzene	ug/kg	<12.0	50.0	04/13/23 11:37	
Naphthalene	ug/kg	<15.6	250	04/13/23 11:37	
o-Xylene	ug/kg	<15.0	50.0	04/13/23 11:37	
p-Isopropyltoluene	ug/kg	<15.2	50.0	04/13/23 11:37	
sec-Butylbenzene	ug/kg	<12.2	50.0	04/13/23 11:37	
Styrene	ug/kg	<12.8	50.0	04/13/23 11:37	
tert-Butylbenzene	ug/kg	<15.7	50.0	04/13/23 11:37	
Tetrachloroethene	ug/kg	<19.4	50.0	04/13/23 11:37	
Toluene	ug/kg	<12.6	50.0	04/13/23 11:37	
trans-1,2-Dichloroethene	ug/kg	<10.8	50.0	04/13/23 11:37	
trans-1,3-Dichloropropene	ug/kg	<143	250	04/13/23 11:37	
Trichloroethene	ug/kg	<18.7	50.0	04/13/23 11:37	
Trichlorofluoromethane	ug/kg	<14.5	50.0	04/13/23 11:37	
Vinyl chloride	ug/kg	<10.1	50.0	04/13/23 11:37	
1,2-Dichlorobenzene-d4 (S)	%	98	71-161	04/13/23 11:37	
4-Bromofluorobenzene (S)	%	91	68-156	04/13/23 11:37	
Toluene-d8 (S)	%	90	69-153	04/13/23 11:37	

LABORATORY CONTROL SAMPLE: 2539155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2490	100	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2460	99	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2450	98	70-130	
1,1-Dichloroethane	ug/kg	2500	2350	94	70-130	
1,1-Dichloroethene	ug/kg	2500	2570	103	77-120	
1,2,4-Trichlorobenzene	ug/kg	2500	2130	85	67-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1980	79	70-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2460	98	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2480	99	70-130	
1,2-Dichloroethane	ug/kg	2500	2320	93	70-130	
1,2-Dichloropropane	ug/kg	2500	2310	92	80-123	
1,3-Dichlorobenzene	ug/kg	2500	2490	100	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2280	91	70-130	
Benzene	ug/kg	2500	2500	100	70-130	
Bromodichloromethane	ug/kg	2500	2420	97	70-130	
Bromoform	ug/kg	2500	2450	98	60-130	

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QUALITY CONTROL DATA

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

LABORATORY CONTROL SAMPLE: 2539155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/kg	2500	3190	127	45-153	
Carbon tetrachloride	ug/kg	2500	2400	96	70-130	
Chlorobenzene	ug/kg	2500	2450	98	70-130	
Chloroethane	ug/kg	2500	3170	127	55-160	
Chloroform	ug/kg	2500	2480	99	80-120	
Chloromethane	ug/kg	2500	1910	76	47-130	
cis-1,2-Dichloroethene	ug/kg	2500	2420	97	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2280	91	70-130	
Dibromochloromethane	ug/kg	2500	2440	98	70-130	
Dichlorodifluoromethane	ug/kg	2500	1560	62	16-83	
Ethylbenzene	ug/kg	2500	2400	96	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2350	94	70-130	
m&p-Xylene	ug/kg	5000	4700	94	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2410	97	65-130	
Methylene Chloride	ug/kg	2500	2580	103	70-130	
o-Xylene	ug/kg	2500	2420	97	70-130	
Styrene	ug/kg	2500	2940	118	70-130	
Tetrachloroethene	ug/kg	2500	2390	96	70-130	
Toluene	ug/kg	2500	2340	94	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2630	105	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2210	88	70-130	
Trichloroethene	ug/kg	2500	2420	97	70-130	
Trichlorofluoromethane	ug/kg	2500	2860	115	70-130	
Vinyl chloride	ug/kg	2500	2190	87	59-114	
1,2-Dichlorobenzene-d4 (S)	%			99	71-161	
4-Bromofluorobenzene (S)	%			102	68-156	
Toluene-d8 (S)	%			97	69-153	

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QUALITY CONTROL DATA

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

QC Batch: 442263
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40260582001, 40260582002, 40260582003, 40260582004

SAMPLE DUPLICATE: 2539168

Parameter	Units	40260590001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.4	7.4	0	10	

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QUALIFIERS

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

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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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8318 V&L STRIPPING
Pace Project No.: 40260582

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40260582001	**SWN**	EPA 5035/5030B	442256	EPA 8260	442260
40260582002	**SWW**	EPA 5035/5030B	442256	EPA 8260	442260
40260582003	**SWS**	EPA 5035/5030B	442256	EPA 8260	442260
40260582004	**SWE**	EPA 5035/5030B	442256	EPA 8260	442260
40260582005	**MEOH BLANK**	EPA 5035/5030B	442256	EPA 8260	442260
40260582001	**SWN**	ASTM D2974-87	442263		
40260582002	**SWW**	ASTM D2974-87	442263		
40260582003	**SWS**	ASTM D2974-87	442263		
40260582004	**SWE**	ASTM D2974-87	442263		

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40260582

ALL SHADED AREAS are for LAB USE ONLY

Company: REI

Billing Information: REI

Address:

Report To: Andy Delforge

Email To:

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: V&L Stripping / 8318

State: WI / County/City: [illegible] / [illegible]

Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET

Container Preservative Type ** 6

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____________

Lab Project Manager:

Phone: 715-675-9784

Email: adelforge@rei-[illegible]

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Andy Delforge

Purchase Order #:

Quote #:

DW PWS ID #:

DW Location Code:

Collected By (signature):

Turnaround Date Required: STD

Immediately Packed on Ice: [X] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ____________ [ ] Hold: ____________

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [X] No

Analysis: ____________

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analyses: VOCs

Customer Sample ID	Matrix *	Comp / Grab	Collected Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs	Lab Sample # / Comments
SWN	S	G	4/11/23	9:00				2	X	001
SWW	↓	↓	↓	9:10				2	X	002
SWS	↓	↓	↓	9:20				2	X	003
SWE	↓	↓	↓	9:30				2	X	004
MeOH Blank	↓	↓	↓	—				1	X	005

Lab Profile/Line:

```
Lab Sample Receipt Checklist:

Custody Seals Present/Intact    Y N NA
Custody Signatures Present      Y N NA
Collector Signature Present     Y N NA
Bottles Intact                  Y N NA
Correct Bottles                 Y N NA
Sufficient Volume               Y N NA
Samples Received on Ice         Y N NA
VOA - Headspace Acceptable      Y N NA
USDA Regulated Soils            Y N NA
Samples in Holding Time         Y N NA
Residual Chlorine Present       Y N NA
Cl Strips: ____________
Sample pH Acceptable            Y N NA
pH Strips: ____________
Sulfide Present                 Y N NA
Lead Acetate Strips: ____________

LAB USE ONLY:
Lab Sample # / Comments:
```

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2698030

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ____________
Cooler 1 Temp Upon Receipt: ______oC
Cooler 1 Therm Corr. Factor: ______oC
Cooler 1 Corrected Temp: ______oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature]	4-11-23 2:00		
WalAco	4/12/23 0825	[signature]	4/12/23 0825

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ______ of: ______

Sample Preservation Receipt Form

Client Name: REI

Project # 402600582

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

Lab Lot# of pH paper.

Lab Std #ID of preservation (if pH adjusted).

Initial when completed

Date/ Time

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	Vials: VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																																		2.5 / 5
002																																		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

4/12/2386

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	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40260582

40260582

Client Name: REI

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

Tracking #: 353801 9-1

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 - 9 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr. 0.0 /Corr. 1.0

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: 4/12/23 /Initials: SG

Labeled By Initials: YN

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.
- DI 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.
Correct Type: Pace Green Bay, Pace IR, Non-Pace		
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: S	☐Yes ☑No ☐N/A	12. 001-004 WPSFLs no time or date 4/12/23 SG
Trip Blank Present:	☑Yes ☐No ☐N/A	13. Seal not intact/bent back
Trip Blank Custody Seals Present 4/12/23 SG	☐Yes ☑No ☐N/A	
Pace Trip Blank Lot # (if purchased):		4/12/23 SG

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 19, 2023

Andy Delforge
REI
4080 North 20th Avenue
Wausau, WI 54401

RE: Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Dear Andy Delforge:

Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 2023. 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,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Paul Bushar, REI
Kaylin Felix, REI

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CERTIFICATIONS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40261896001	**PZ1700**	Water	05/09/23 09:00	05/10/23 08:00
40261896002	**MW1000**	Water	05/09/23 11:30	05/10/23 08:00
40261896003	**MW200**	Water	05/09/23 11:00	05/10/23 08:00
40261896004	**MW2000R**	Water	05/09/23 13:00	05/10/23 08:00
40261896005	**MW600R**	Water	05/09/23 12:30	05/10/23 08:00
40261896006	**MW2100**	Water	05/09/23 12:00	05/10/23 08:00
40261896007	**MW1500**	Water	05/09/23 10:00	05/10/23 08:00
40261896008	**MW800**	Water	05/09/23 09:20	05/10/23 08:00
40261896009	**MW100**	Water	05/09/23 10:30	05/10/23 08:00
40261896010	**MW300**	Water	05/09/23 10:00	05/10/23 08:00

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SAMPLE ANALYTE COUNT

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40261896001	**PZ1700**	EPA 8260	CXJ	66	PASI-G
40261896002	**MW1000**	EPA 8260	CXJ	66	PASI-G
40261896003	**MW200**	EPA 8260	CXJ	66	PASI-G
40261896004	**MW2000R**	EPA 8260	CXJ	66	PASI-G
40261896005	**MW600R**	EPA 8260	CXJ	66	PASI-G
40261896006	**MW2100**	EPA 8260	CXJ	66	PASI-G
40261896007	**MW1500**	EPA 8260	CXJ	66	PASI-G
40261896008	**MW800**	EPA 8260	CXJ	66	PASI-G
40261896009	**MW100**	EPA 8260	CXJ	66	PASI-G
40261896010	**MW300**	EPA 8260	CXJ	66	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: PZ1700 **Lab ID: 40261896001** Collected: 05/09/23 09:00 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/17/23 13:24	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/17/23 13:24	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		05/17/23 13:24	108-86-1	
Bromochloromethane	**<0.36**	ug/L	1.0	0.36	1		05/17/23 13:24	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/17/23 13:24	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/17/23 13:24	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/17/23 13:24	74-83-9	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/17/23 13:24	78-93-3	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		05/17/23 13:24	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		05/17/23 13:24	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		05/17/23 13:24	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/17/23 13:24	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/17/23 13:24	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/17/23 13:24	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/17/23 13:24	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/17/23 13:24	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		05/17/23 13:24	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		05/17/23 13:24	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/17/23 13:24	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/17/23 13:24	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/17/23 13:24	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/17/23 13:24	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/17/23 13:24	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/17/23 13:24	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/17/23 13:24	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/17/23 13:24	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/17/23 13:24	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/17/23 13:24	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/17/23 13:24	75-35-4	
cis-1,2-Dichloroethene	**0.56J**	ug/L	1.0	0.47	1		05/17/23 13:24	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/17/23 13:24	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/17/23 13:24	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		05/17/23 13:24	142-28-9	
2,2-Dichloropropane	**<0.42**	ug/L	1.0	0.42	1		05/17/23 13:24	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		05/17/23 13:24	563-58-6	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/17/23 13:24	10061-01-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/17/23 13:24	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		05/17/23 13:24	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/17/23 13:24	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		05/17/23 13:24	87-68-3	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		05/17/23 13:24	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		05/17/23 13:24	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/17/23 13:24	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/17/23 13:24	1634-04-4	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/17/23 13:24	91-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: PZ1700 **Lab ID: 40261896001** Collected: 05/09/23 09:00 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		05/17/23 13:24	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/17/23 13:24	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		05/17/23 13:24	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		05/17/23 13:24	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/17/23 13:24	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/17/23 13:24	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		05/17/23 13:24	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		05/17/23 13:24	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/17/23 13:24	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/17/23 13:24	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/17/23 13:24	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/17/23 13:24	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	1.0	0.56	1		05/17/23 13:24	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/17/23 13:24	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/17/23 13:24	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/17/23 13:24	75-01-4	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/17/23 13:24	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/17/23 13:24	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		05/17/23 13:24	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		05/17/23 13:24	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		05/17/23 13:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW1000 **Lab ID: 40261896002** Collected: 05/09/23 11:30 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/12/23 17:48	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/12/23 17:48	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		05/12/23 17:48	108-86-1	
Bromochloromethane	**<0.36**	ug/L	1.0	0.36	1		05/12/23 17:48	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/12/23 17:48	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/12/23 17:48	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/12/23 17:48	74-83-9	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/12/23 17:48	78-93-3	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		05/12/23 17:48	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		05/12/23 17:48	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		05/12/23 17:48	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/12/23 17:48	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/12/23 17:48	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/12/23 17:48	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/12/23 17:48	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/12/23 17:48	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		05/12/23 17:48	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		05/12/23 17:48	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/12/23 17:48	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/12/23 17:48	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/12/23 17:48	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/12/23 17:48	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/12/23 17:48	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/12/23 17:48	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/12/23 17:48	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/12/23 17:48	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/12/23 17:48	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/12/23 17:48	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/12/23 17:48	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/12/23 17:48	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/12/23 17:48	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/12/23 17:48	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		05/12/23 17:48	142-28-9	
2,2-Dichloropropane	**<0.42**	ug/L	1.0	0.42	1		05/12/23 17:48	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		05/12/23 17:48	563-58-6	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/12/23 17:48	10061-01-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/12/23 17:48	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		05/12/23 17:48	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/12/23 17:48	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		05/12/23 17:48	87-68-3	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		05/12/23 17:48	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		05/12/23 17:48	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/12/23 17:48	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/12/23 17:48	1634-04-4	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/12/23 17:48	91-20-3	

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW1000 **Lab ID: 40261896002** Collected: 05/09/23 11:30 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		05/12/23 17:48	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/12/23 17:48	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		05/12/23 17:48	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		05/12/23 17:48	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/12/23 17:48	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/12/23 17:48	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		05/12/23 17:48	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		05/12/23 17:48	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/12/23 17:48	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/12/23 17:48	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/12/23 17:48	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/12/23 17:48	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	1.0	0.56	1		05/12/23 17:48	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/12/23 17:48	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/12/23 17:48	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/12/23 17:48	75-01-4	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/12/23 17:48	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/12/23 17:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/12/23 17:48	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		05/12/23 17:48	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		05/12/23 17:48	2037-26-5	

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW200 **Lab ID: 40261896003** Collected: 05/09/23 11:00 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Acetone	**<43.2**	ug/L	125	43.2	5		05/12/23 22:08	67-64-1	
Benzene	**<1.5**	ug/L	5.0	1.5	5		05/12/23 22:08	71-43-2	
Bromobenzene	**<1.8**	ug/L	5.0	1.8	5		05/12/23 22:08	108-86-1	
Bromochloromethane	**<1.8**	ug/L	5.0	1.8	5		05/12/23 22:08	74-97-5	
Bromodichloromethane	**<2.1**	ug/L	5.0	2.1	5		05/12/23 22:08	75-27-4	
Bromoform	**<2.1**	ug/L	5.0	2.1	5		05/12/23 22:08	75-25-2	
Bromomethane	**<6.0**	ug/L	25.0	6.0	5		05/12/23 22:08	74-83-9	
2-Butanone (MEK)	**<32.6**	ug/L	125	32.6	5		05/12/23 22:08	78-93-3	
n-Butylbenzene	**<4.3**	ug/L	5.0	4.3	5		05/12/23 22:08	104-51-8	
sec-Butylbenzene	**<2.1**	ug/L	5.0	2.1	5		05/12/23 22:08	135-98-8	
tert-Butylbenzene	**<2.9**	ug/L	5.0	2.9	5		05/12/23 22:08	98-06-6	
Carbon tetrachloride	**<1.8**	ug/L	5.0	1.8	5		05/12/23 22:08	56-23-5	
Chlorobenzene	**<4.3**	ug/L	5.0	4.3	5		05/12/23 22:08	108-90-7	
Chloroethane	**<6.9**	ug/L	25.0	6.9	5		05/12/23 22:08	75-00-3	
Chloroform	**<2.5**	ug/L	25.0	2.5	5		05/12/23 22:08	67-66-3	
Chloromethane	**<8.2**	ug/L	25.0	8.2	5		05/12/23 22:08	74-87-3	
2-Chlorotoluene	**<4.4**	ug/L	25.0	4.4	5		05/12/23 22:08	95-49-8	
4-Chlorotoluene	**<4.5**	ug/L	25.0	4.5	5		05/12/23 22:08	106-43-4	
1,2-Dibromo-3-chloropropane	**<11.8**	ug/L	25.0	11.8	5		05/12/23 22:08	96-12-8	
Dibromochloromethane	**<13.2**	ug/L	25.0	13.2	5		05/12/23 22:08	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/L	5.0	1.5	5		05/12/23 22:08	106-93-4	
Dibromomethane	**<5.0**	ug/L	25.0	5.0	5		05/12/23 22:08	74-95-3	
1,2-Dichlorobenzene	**<1.6**	ug/L	5.0	1.6	5		05/12/23 22:08	95-50-1	
1,3-Dichlorobenzene	**<1.8**	ug/L	5.0	1.8	5		05/12/23 22:08	541-73-1	
1,4-Dichlorobenzene	**<4.5**	ug/L	5.0	4.5	5		05/12/23 22:08	106-46-7	
Dichlorodifluoromethane	**<2.3**	ug/L	25.0	2.3	5		05/12/23 22:08	75-71-8	
1,1-Dichloroethane	**<1.5**	ug/L	5.0	1.5	5		05/12/23 22:08	75-34-3	
1,2-Dichloroethane	**<1.5**	ug/L	5.0	1.5	5		05/12/23 22:08	107-06-2	
1,1-Dichloroethene	**<2.9**	ug/L	5.0	2.9	5		05/12/23 22:08	75-35-4	
cis-1,2-Dichloroethene	**48.8**	ug/L	5.0	2.4	5		05/12/23 22:08	156-59-2	
trans-1,2-Dichloroethene	**288**	ug/L	5.0	2.6	5		05/12/23 22:08	156-60-5	
1,2-Dichloropropane	**<2.2**	ug/L	5.0	2.2	5		05/12/23 22:08	78-87-5	
1,3-Dichloropropane	**<1.5**	ug/L	5.0	1.5	5		05/12/23 22:08	142-28-9	
2,2-Dichloropropane	**<2.1**	ug/L	5.0	2.1	5		05/12/23 22:08	594-20-7	
1,1-Dichloropropene	**<2.1**	ug/L	5.0	2.1	5		05/12/23 22:08	563-58-6	
cis-1,3-Dichloropropene	**<1.2**	ug/L	5.0	1.2	5		05/12/23 22:08	10061-01-5	
trans-1,3-Dichloropropene	**<1.3**	ug/L	5.0	1.3	5		05/12/23 22:08	10061-02-6	
Diisopropyl ether	**<5.5**	ug/L	25.0	5.5	5		05/12/23 22:08	108-20-3	
Ethylbenzene	**<1.6**	ug/L	5.0	1.6	5		05/12/23 22:08	100-41-4	
Hexachloro-1,3-butadiene	**<13.7**	ug/L	25.0	13.7	5		05/12/23 22:08	87-68-3	
Isopropylbenzene (Cumene)	**<5.0**	ug/L	25.0	5.0	5		05/12/23 22:08	98-82-8	
p-Isopropyltoluene	**<5.2**	ug/L	25.0	5.2	5		05/12/23 22:08	99-87-6	
Methylene Chloride	**<1.6**	ug/L	25.0	1.6	5		05/12/23 22:08	75-09-2	
Methyl-tert-butyl ether	**<5.6**	ug/L	25.0	5.6	5		05/12/23 22:08	1634-04-4	
Naphthalene	**<9.6**	ug/L	25.0	9.6	5		05/12/23 22:08	91-20-3	

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW200 **Lab ID: 40261896003** Collected: 05/09/23 11:00 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
n-Propylbenzene	**<1.7**	ug/L	5.0	1.7	5		05/12/23 22:08	103-65-1	
Styrene	**<1.8**	ug/L	5.0	1.8	5		05/12/23 22:08	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.8**	ug/L	5.0	1.8	5		05/12/23 22:08	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.9**	ug/L	5.0	1.9	5		05/12/23 22:08	79-34-5	
Tetrachloroethene	**<2.0**	ug/L	5.0	2.0	5		05/12/23 22:08	127-18-4	
Toluene	**<1.4**	ug/L	5.0	1.4	5		05/12/23 22:08	108-88-3	
1,2,3-Trichlorobenzene	**<5.1**	ug/L	25.0	5.1	5		05/12/23 22:08	87-61-6	
1,2,4-Trichlorobenzene	**<4.8**	ug/L	25.0	4.8	5		05/12/23 22:08	120-82-1	
1,1,1-Trichloroethane	**<1.5**	ug/L	5.0	1.5	5		05/12/23 22:08	71-55-6	
1,1,2-Trichloroethane	**<1.7**	ug/L	5.0	1.7	5		05/12/23 22:08	79-00-5	
Trichloroethene	**<1.6**	ug/L	5.0	1.6	5		05/12/23 22:08	79-01-6	
Trichlorofluoromethane	**<2.1**	ug/L	5.0	2.1	5		05/12/23 22:08	75-69-4	
1,2,3-Trichloropropane	**<2.8**	ug/L	5.0	2.8	5		05/12/23 22:08	96-18-4	
1,2,4-Trimethylbenzene	**<2.2**	ug/L	5.0	2.2	5		05/12/23 22:08	95-63-6	
1,3,5-Trimethylbenzene	**<1.8**	ug/L	5.0	1.8	5		05/12/23 22:08	108-67-8	
Vinyl chloride	**146**	ug/L	5.0	0.87	5		05/12/23 22:08	75-01-4	
m&p-Xylene	**<3.5**	ug/L	10.0	3.5	5		05/12/23 22:08	179601-23-1	
o-Xylene	**<1.7**	ug/L	5.0	1.7	5		05/12/23 22:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		5		05/12/23 22:08	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		5		05/12/23 22:08	2199-69-1	
Toluene-d8 (S)	100	%	70-130		5		05/12/23 22:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW2000R **Lab ID: 40261896004** Collected: 05/09/23 13:00 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/12/23 18:22	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/12/23 18:22	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		05/12/23 18:22	108-86-1	
Bromochloromethane	**<0.36**	ug/L	1.0	0.36	1		05/12/23 18:22	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/12/23 18:22	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/12/23 18:22	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/12/23 18:22	74-83-9	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/12/23 18:22	78-93-3	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		05/12/23 18:22	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		05/12/23 18:22	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		05/12/23 18:22	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/12/23 18:22	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/12/23 18:22	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/12/23 18:22	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/12/23 18:22	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/12/23 18:22	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		05/12/23 18:22	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		05/12/23 18:22	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/12/23 18:22	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/12/23 18:22	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/12/23 18:22	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/12/23 18:22	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/12/23 18:22	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/12/23 18:22	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/12/23 18:22	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/12/23 18:22	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/12/23 18:22	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/12/23 18:22	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/12/23 18:22	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/12/23 18:22	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/12/23 18:22	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/12/23 18:22	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		05/12/23 18:22	142-28-9	
2,2-Dichloropropane	**<0.42**	ug/L	1.0	0.42	1		05/12/23 18:22	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		05/12/23 18:22	563-58-6	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/12/23 18:22	10061-01-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/12/23 18:22	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		05/12/23 18:22	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/12/23 18:22	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		05/12/23 18:22	87-68-3	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		05/12/23 18:22	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		05/12/23 18:22	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/12/23 18:22	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/12/23 18:22	1634-04-4	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/12/23 18:22	91-20-3	

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW2000R **Lab ID: 40261896004** Collected: 05/09/23 13:00 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		05/12/23 18:22	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/12/23 18:22	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		05/12/23 18:22	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		05/12/23 18:22	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/12/23 18:22	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/12/23 18:22	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		05/12/23 18:22	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		05/12/23 18:22	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/12/23 18:22	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/12/23 18:22	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/12/23 18:22	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/12/23 18:22	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	1.0	0.56	1		05/12/23 18:22	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/12/23 18:22	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/12/23 18:22	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/12/23 18:22	75-01-4	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/12/23 18:22	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/12/23 18:22	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/12/23 18:22	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		05/12/23 18:22	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		05/12/23 18:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW600R **Lab ID: 40261896005** Collected: 05/09/23 12:30 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/12/23 18:40	67-64-1	
Benzene	**0.48J**	ug/L	1.0	0.30	1		05/12/23 18:40	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		05/12/23 18:40	108-86-1	
Bromochloromethane	**<0.36**	ug/L	1.0	0.36	1		05/12/23 18:40	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/12/23 18:40	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/12/23 18:40	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/12/23 18:40	74-83-9	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/12/23 18:40	78-93-3	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		05/12/23 18:40	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		05/12/23 18:40	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		05/12/23 18:40	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/12/23 18:40	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/12/23 18:40	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/12/23 18:40	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/12/23 18:40	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/12/23 18:40	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		05/12/23 18:40	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		05/12/23 18:40	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/12/23 18:40	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/12/23 18:40	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/12/23 18:40	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/12/23 18:40	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/12/23 18:40	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/12/23 18:40	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/12/23 18:40	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/12/23 18:40	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/12/23 18:40	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/12/23 18:40	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/12/23 18:40	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/12/23 18:40	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/12/23 18:40	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/12/23 18:40	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		05/12/23 18:40	142-28-9	
2,2-Dichloropropane	**<0.42**	ug/L	1.0	0.42	1		05/12/23 18:40	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		05/12/23 18:40	563-58-6	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/12/23 18:40	10061-01-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/12/23 18:40	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		05/12/23 18:40	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/12/23 18:40	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		05/12/23 18:40	87-68-3	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		05/12/23 18:40	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		05/12/23 18:40	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/12/23 18:40	75-09-2	
Methyl-tert-butyl ether	**102**	ug/L	5.0	1.1	1		05/12/23 18:40	1634-04-4	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/12/23 18:40	91-20-3	

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW600R **Lab ID: 40261896005** Collected: 05/09/23 12:30 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		05/12/23 18:40	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/12/23 18:40	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		05/12/23 18:40	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		05/12/23 18:40	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/12/23 18:40	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/12/23 18:40	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		05/12/23 18:40	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		05/12/23 18:40	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/12/23 18:40	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/12/23 18:40	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/12/23 18:40	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/12/23 18:40	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	1.0	0.56	1		05/12/23 18:40	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/12/23 18:40	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/12/23 18:40	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/12/23 18:40	75-01-4	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/12/23 18:40	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/12/23 18:40	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/12/23 18:40	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		05/12/23 18:40	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		05/12/23 18:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW2100 **Lab ID: 40261896006** Collected: 05/09/23 12:00 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/12/23 18:57	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/12/23 18:57	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		05/12/23 18:57	108-86-1	
Bromochloromethane	**<0.36**	ug/L	1.0	0.36	1		05/12/23 18:57	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/12/23 18:57	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/12/23 18:57	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/12/23 18:57	74-83-9	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/12/23 18:57	78-93-3	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		05/12/23 18:57	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		05/12/23 18:57	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		05/12/23 18:57	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/12/23 18:57	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/12/23 18:57	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/12/23 18:57	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/12/23 18:57	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/12/23 18:57	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		05/12/23 18:57	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		05/12/23 18:57	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/12/23 18:57	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/12/23 18:57	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/12/23 18:57	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/12/23 18:57	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/12/23 18:57	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/12/23 18:57	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/12/23 18:57	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/12/23 18:57	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/12/23 18:57	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/12/23 18:57	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/12/23 18:57	75-35-4	
cis-1,2-Dichloroethene	**26.0**	ug/L	1.0	0.47	1		05/12/23 18:57	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/12/23 18:57	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/12/23 18:57	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		05/12/23 18:57	142-28-9	
2,2-Dichloropropane	**<0.42**	ug/L	1.0	0.42	1		05/12/23 18:57	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		05/12/23 18:57	563-58-6	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/12/23 18:57	10061-01-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/12/23 18:57	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		05/12/23 18:57	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/12/23 18:57	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		05/12/23 18:57	87-68-3	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		05/12/23 18:57	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		05/12/23 18:57	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/12/23 18:57	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/12/23 18:57	1634-04-4	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/12/23 18:57	91-20-3	

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW2100 **Lab ID: 40261896006** Collected: 05/09/23 12:00 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		05/12/23 18:57	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/12/23 18:57	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		05/12/23 18:57	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		05/12/23 18:57	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/12/23 18:57	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/12/23 18:57	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		05/12/23 18:57	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		05/12/23 18:57	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/12/23 18:57	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/12/23 18:57	79-00-5	
Trichloroethene	**0.54J**	ug/L	1.0	0.32	1		05/12/23 18:57	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/12/23 18:57	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	1.0	0.56	1		05/12/23 18:57	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/12/23 18:57	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/12/23 18:57	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/12/23 18:57	75-01-4	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/12/23 18:57	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/12/23 18:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/12/23 18:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		05/12/23 18:57	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		05/12/23 18:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW1500 **Lab ID: 40261896007** Collected: 05/09/23 10:00 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Acetone	**<17.3**	ug/L	50.0	17.3	2		05/12/23 22:43	67-64-1	
Benzene	**0.62J**	ug/L	2.0	0.59	2		05/12/23 22:43	71-43-2	
Bromobenzene	**<0.72**	ug/L	2.0	0.72	2		05/12/23 22:43	108-86-1	
Bromochloromethane	**<0.72**	ug/L	2.0	0.72	2		05/12/23 22:43	74-97-5	
Bromodichloromethane	**<0.83**	ug/L	2.0	0.83	2		05/12/23 22:43	75-27-4	
Bromoform	**<0.86**	ug/L	2.0	0.86	2		05/12/23 22:43	75-25-2	
Bromomethane	**<2.4**	ug/L	10.0	2.4	2		05/12/23 22:43	74-83-9	
2-Butanone (MEK)	**<13.0**	ug/L	50.0	13.0	2		05/12/23 22:43	78-93-3	
n-Butylbenzene	**<1.7**	ug/L	2.0	1.7	2		05/12/23 22:43	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	2.0	0.85	2		05/12/23 22:43	135-98-8	
tert-Butylbenzene	**<1.2**	ug/L	2.0	1.2	2		05/12/23 22:43	98-06-6	
Carbon tetrachloride	**<0.74**	ug/L	2.0	0.74	2		05/12/23 22:43	56-23-5	
Chlorobenzene	**<1.7**	ug/L	2.0	1.7	2		05/12/23 22:43	108-90-7	
Chloroethane	**<2.8**	ug/L	10.0	2.8	2		05/12/23 22:43	75-00-3	
Chloroform	**<1.0**	ug/L	10.0	1.0	2		05/12/23 22:43	67-66-3	
Chloromethane	**<3.3**	ug/L	10.0	3.3	2		05/12/23 22:43	74-87-3	
2-Chlorotoluene	**<1.8**	ug/L	10.0	1.8	2		05/12/23 22:43	95-49-8	
4-Chlorotoluene	**<1.8**	ug/L	10.0	1.8	2		05/12/23 22:43	106-43-4	
1,2-Dibromo-3-chloropropane	**<4.7**	ug/L	10.0	4.7	2		05/12/23 22:43	96-12-8	
Dibromochloromethane	**<5.3**	ug/L	10.0	5.3	2		05/12/23 22:43	124-48-1	
1,2-Dibromoethane (EDB)	**<0.62**	ug/L	2.0	0.62	2		05/12/23 22:43	106-93-4	
Dibromomethane	**<2.0**	ug/L	10.0	2.0	2		05/12/23 22:43	74-95-3	
1,2-Dichlorobenzene	**<0.65**	ug/L	2.0	0.65	2		05/12/23 22:43	95-50-1	
1,3-Dichlorobenzene	**<0.70**	ug/L	2.0	0.70	2		05/12/23 22:43	541-73-1	
1,4-Dichlorobenzene	**<1.8**	ug/L	2.0	1.8	2		05/12/23 22:43	106-46-7	
Dichlorodifluoromethane	**<0.91**	ug/L	10.0	0.91	2		05/12/23 22:43	75-71-8	
1,1-Dichloroethane	**<0.59**	ug/L	2.0	0.59	2		05/12/23 22:43	75-34-3	
1,2-Dichloroethane	**<0.58**	ug/L	2.0	0.58	2		05/12/23 22:43	107-06-2	
1,1-Dichloroethene	**<1.2**	ug/L	2.0	1.2	2		05/12/23 22:43	75-35-4	
cis-1,2-Dichloroethene	**77.4**	ug/L	2.0	0.94	2		05/12/23 22:43	156-59-2	
trans-1,2-Dichloroethene	**78.9**	ug/L	2.0	1.1	2		05/12/23 22:43	156-60-5	
1,2-Dichloropropane	**<0.90**	ug/L	2.0	0.90	2		05/12/23 22:43	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	2.0	0.61	2		05/12/23 22:43	142-28-9	
2,2-Dichloropropane	**<0.84**	ug/L	2.0	0.84	2		05/12/23 22:43	594-20-7	
1,1-Dichloropropene	**<0.82**	ug/L	2.0	0.82	2		05/12/23 22:43	563-58-6	
cis-1,3-Dichloropropene	**<0.47**	ug/L	2.0	0.47	2		05/12/23 22:43	10061-01-5	
trans-1,3-Dichloropropene	**<0.53**	ug/L	2.0	0.53	2		05/12/23 22:43	10061-02-6	
Diisopropyl ether	**<2.2**	ug/L	10.0	2.2	2		05/12/23 22:43	108-20-3	
Ethylbenzene	**<0.65**	ug/L	2.0	0.65	2		05/12/23 22:43	100-41-4	
Hexachloro-1,3-butadiene	**<5.5**	ug/L	10.0	5.5	2		05/12/23 22:43	87-68-3	
Isopropylbenzene (Cumene)	**<2.0**	ug/L	10.0	2.0	2		05/12/23 22:43	98-82-8	
p-Isopropyltoluene	**<2.1**	ug/L	10.0	2.1	2		05/12/23 22:43	99-87-6	
Methylene Chloride	**<0.64**	ug/L	10.0	0.64	2		05/12/23 22:43	75-09-2	
Methyl-tert-butyl ether	**<2.3**	ug/L	10.0	2.3	2		05/12/23 22:43	1634-04-4	
Naphthalene	**<3.8**	ug/L	10.0	3.8	2		05/12/23 22:43	91-20-3	

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW1500 **Lab ID: 40261896007** Collected: 05/09/23 10:00 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
n-Propylbenzene	**<0.69**	ug/L	2.0	0.69	2		05/12/23 22:43	103-65-1	
Styrene	**<0.71**	ug/L	2.0	0.71	2		05/12/23 22:43	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.71**	ug/L	2.0	0.71	2		05/12/23 22:43	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.76**	ug/L	2.0	0.76	2		05/12/23 22:43	79-34-5	
Tetrachloroethene	**<0.82**	ug/L	2.0	0.82	2		05/12/23 22:43	127-18-4	
Toluene	**<0.58**	ug/L	2.0	0.58	2		05/12/23 22:43	108-88-3	
1,2,3-Trichlorobenzene	**<2.0**	ug/L	10.0	2.0	2		05/12/23 22:43	87-61-6	
1,2,4-Trichlorobenzene	**<1.9**	ug/L	10.0	1.9	2		05/12/23 22:43	120-82-1	
1,1,1-Trichloroethane	**<0.61**	ug/L	2.0	0.61	2		05/12/23 22:43	71-55-6	
1,1,2-Trichloroethane	**<0.69**	ug/L	2.0	0.69	2		05/12/23 22:43	79-00-5	
Trichloroethene	**<0.64**	ug/L	2.0	0.64	2		05/12/23 22:43	79-01-6	
Trichlorofluoromethane	**<0.84**	ug/L	2.0	0.84	2		05/12/23 22:43	75-69-4	
1,2,3-Trichloropropane	**<1.1**	ug/L	2.0	1.1	2		05/12/23 22:43	96-18-4	
1,2,4-Trimethylbenzene	**<0.90**	ug/L	2.0	0.90	2		05/12/23 22:43	95-63-6	
1,3,5-Trimethylbenzene	**<0.71**	ug/L	2.0	0.71	2		05/12/23 22:43	108-67-8	
Vinyl chloride	**73.5**	ug/L	2.0	0.35	2		05/12/23 22:43	75-01-4	
m&p-Xylene	**<1.4**	ug/L	4.0	1.4	2		05/12/23 22:43	179601-23-1	
o-Xylene	**<0.70**	ug/L	2.0	0.70	2		05/12/23 22:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		2		05/12/23 22:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		2		05/12/23 22:43	2199-69-1	
Toluene-d8 (S)	101	%	70-130		2		05/12/23 22:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW800 **Lab ID: 40261896008** Collected: 05/09/23 09:20 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Acetone	**<1080**	ug/L	3120	1080	125		05/12/23 21:16	67-64-1	
Benzene	**<36.9**	ug/L	125	36.9	125		05/12/23 21:16	71-43-2	
Bromobenzene	**<45.1**	ug/L	125	45.1	125		05/12/23 21:16	108-86-1	
Bromochloromethane	**<44.7**	ug/L	125	44.7	125		05/12/23 21:16	74-97-5	
Bromodichloromethane	**<51.9**	ug/L	125	51.9	125		05/12/23 21:16	75-27-4	
Bromoform	**<53.6**	ug/L	125	53.6	125		05/12/23 21:16	75-25-2	
Bromomethane	**<149**	ug/L	625	149	125		05/12/23 21:16	74-83-9	
2-Butanone (MEK)	**<815**	ug/L	3120	815	125		05/12/23 21:16	78-93-3	
n-Butylbenzene	**<107**	ug/L	125	107	125		05/12/23 21:16	104-51-8	
sec-Butylbenzene	**<53.0**	ug/L	125	53.0	125		05/12/23 21:16	135-98-8	
tert-Butylbenzene	**<73.3**	ug/L	125	73.3	125		05/12/23 21:16	98-06-6	
Carbon tetrachloride	**<46.2**	ug/L	125	46.2	125		05/12/23 21:16	56-23-5	
Chlorobenzene	**<107**	ug/L	125	107	125		05/12/23 21:16	108-90-7	
Chloroethane	**<172**	ug/L	625	172	125		05/12/23 21:16	75-00-3	
Chloroform	**<63.0**	ug/L	625	63.0	125		05/12/23 21:16	67-66-3	
Chloromethane	**<204**	ug/L	625	204	125		05/12/23 21:16	74-87-3	
2-Chlorotoluene	**<111**	ug/L	625	111	125		05/12/23 21:16	95-49-8	
4-Chlorotoluene	**<112**	ug/L	625	112	125		05/12/23 21:16	106-43-4	
1,2-Dibromo-3-chloropropane	**<296**	ug/L	625	296	125		05/12/23 21:16	96-12-8	
Dibromochloromethane	**<330**	ug/L	625	330	125		05/12/23 21:16	124-48-1	
1,2-Dibromoethane (EDB)	**<38.6**	ug/L	125	38.6	125		05/12/23 21:16	106-93-4	
Dibromomethane	**<124**	ug/L	625	124	125		05/12/23 21:16	74-95-3	
1,2-Dichlorobenzene	**<40.7**	ug/L	125	40.7	125		05/12/23 21:16	95-50-1	
1,3-Dichlorobenzene	**<43.9**	ug/L	125	43.9	125		05/12/23 21:16	541-73-1	
1,4-Dichlorobenzene	**<112**	ug/L	125	112	125		05/12/23 21:16	106-46-7	
Dichlorodifluoromethane	**<56.9**	ug/L	625	56.9	125		05/12/23 21:16	75-71-8	
1,1-Dichloroethane	**<37.0**	ug/L	125	37.0	125		05/12/23 21:16	75-34-3	
1,2-Dichloroethane	**<36.4**	ug/L	125	36.4	125		05/12/23 21:16	107-06-2	
1,1-Dichloroethene	**<72.8**	ug/L	125	72.8	125		05/12/23 21:16	75-35-4	
cis-1,2-Dichloroethene	**12900**	ug/L	125	58.9	125		05/12/23 21:16	156-59-2	
trans-1,2-Dichloroethene	**712**	ug/L	125	66.0	125		05/12/23 21:16	156-60-5	
1,2-Dichloropropane	**<56.0**	ug/L	125	56.0	125		05/12/23 21:16	78-87-5	
1,3-Dichloropropane	**<38.1**	ug/L	125	38.1	125		05/12/23 21:16	142-28-9	
2,2-Dichloropropane	**<52.3**	ug/L	125	52.3	125		05/12/23 21:16	594-20-7	
1,1-Dichloropropene	**<51.3**	ug/L	125	51.3	125		05/12/23 21:16	563-58-6	
cis-1,3-Dichloropropene	**<29.7**	ug/L	125	29.7	125		05/12/23 21:16	10061-01-5	
trans-1,3-Dichloropropene	**<33.2**	ug/L	125	33.2	125		05/12/23 21:16	10061-02-6	
Diisopropyl ether	**<138**	ug/L	625	138	125		05/12/23 21:16	108-20-3	
Ethylbenzene	**<40.6**	ug/L	125	40.6	125		05/12/23 21:16	100-41-4	
Hexachloro-1,3-butadiene	**<342**	ug/L	625	342	125		05/12/23 21:16	87-68-3	
Isopropylbenzene (Cumene)	**<125**	ug/L	625	125	125		05/12/23 21:16	98-82-8	
p-Isopropyltoluene	**<130**	ug/L	625	130	125		05/12/23 21:16	99-87-6	
Methylene Chloride	**<39.9**	ug/L	625	39.9	125		05/12/23 21:16	75-09-2	
Methyl-tert-butyl ether	**<141**	ug/L	625	141	125		05/12/23 21:16	1634-04-4	
Naphthalene	**<240**	ug/L	625	240	125		05/12/23 21:16	91-20-3	

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW800 **Lab ID: 40261896008** Collected: 05/09/23 09:20 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
n-Propylbenzene	**<43.2**	ug/L	125	43.2	125		05/12/23 21:16	103-65-1	
Styrene	**<44.5**	ug/L	125	44.5	125		05/12/23 21:16	100-42-5	
1,1,1,2-Tetrachloroethane	**<44.4**	ug/L	125	44.4	125		05/12/23 21:16	630-20-6	
1,1,2,2-Tetrachloroethane	**<47.2**	ug/L	125	47.2	125		05/12/23 21:16	79-34-5	
Tetrachloroethene	**246**	ug/L	125	51.1	125		05/12/23 21:16	127-18-4	
Toluene	**<36.0**	ug/L	125	36.0	125		05/12/23 21:16	108-88-3	
1,2,3-Trichlorobenzene	**<127**	ug/L	625	127	125		05/12/23 21:16	87-61-6	
1,2,4-Trichlorobenzene	**<119**	ug/L	625	119	125		05/12/23 21:16	120-82-1	
1,1,1-Trichloroethane	**<37.8**	ug/L	125	37.8	125		05/12/23 21:16	71-55-6	
1,1,2-Trichloroethane	**<43.1**	ug/L	125	43.1	125		05/12/23 21:16	79-00-5	
Trichloroethene	**3410**	ug/L	125	40.0	125		05/12/23 21:16	79-01-6	
Trichlorofluoromethane	**<52.3**	ug/L	125	52.3	125		05/12/23 21:16	75-69-4	
1,2,3-Trichloropropane	**<69.4**	ug/L	125	69.4	125		05/12/23 21:16	96-18-4	
1,2,4-Trimethylbenzene	**<56.1**	ug/L	125	56.1	125		05/12/23 21:16	95-63-6	
1,3,5-Trimethylbenzene	**<44.7**	ug/L	125	44.7	125		05/12/23 21:16	108-67-8	
Vinyl chloride	**84.7J**	ug/L	125	21.8	125		05/12/23 21:16	75-01-4	
m&p-Xylene	**<87.5**	ug/L	250	87.5	125		05/12/23 21:16	179601-23-1	
o-Xylene	**<43.5**	ug/L	125	43.5	125		05/12/23 21:16	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		125		05/12/23 21:16	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		125		05/12/23 21:16	2199-69-1	
Toluene-d8 (S)	99	%	70-130		125		05/12/23 21:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW100 **Lab ID: 40261896009** Collected: 05/09/23 10:30 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Acetone	**<432**	ug/L	1250	432	50		05/12/23 21:33	67-64-1	
Benzene	**<14.8**	ug/L	50.0	14.8	50		05/12/23 21:33	71-43-2	
Bromobenzene	**<18.0**	ug/L	50.0	18.0	50		05/12/23 21:33	108-86-1	
Bromochloromethane	**<17.9**	ug/L	50.0	17.9	50		05/12/23 21:33	74-97-5	
Bromodichloromethane	**<20.8**	ug/L	50.0	20.8	50		05/12/23 21:33	75-27-4	
Bromoform	**<21.4**	ug/L	50.0	21.4	50		05/12/23 21:33	75-25-2	
Bromomethane	**<59.6**	ug/L	250	59.6	50		05/12/23 21:33	74-83-9	
2-Butanone (MEK)	**<326**	ug/L	1250	326	50		05/12/23 21:33	78-93-3	
n-Butylbenzene	**<42.9**	ug/L	50.0	42.9	50		05/12/23 21:33	104-51-8	
sec-Butylbenzene	**<21.2**	ug/L	50.0	21.2	50		05/12/23 21:33	135-98-8	
tert-Butylbenzene	**<29.3**	ug/L	50.0	29.3	50		05/12/23 21:33	98-06-6	
Carbon tetrachloride	**<18.5**	ug/L	50.0	18.5	50		05/12/23 21:33	56-23-5	
Chlorobenzene	**<42.8**	ug/L	50.0	42.8	50		05/12/23 21:33	108-90-7	
Chloroethane	**<69.0**	ug/L	250	69.0	50		05/12/23 21:33	75-00-3	
Chloroform	**<25.2**	ug/L	250	25.2	50		05/12/23 21:33	67-66-3	
Chloromethane	**<81.8**	ug/L	250	81.8	50		05/12/23 21:33	74-87-3	
2-Chlorotoluene	**<44.5**	ug/L	250	44.5	50		05/12/23 21:33	95-49-8	
4-Chlorotoluene	**<44.7**	ug/L	250	44.7	50		05/12/23 21:33	106-43-4	
1,2-Dibromo-3-chloropropane	**<118**	ug/L	250	118	50		05/12/23 21:33	96-12-8	
Dibromochloromethane	**<132**	ug/L	250	132	50		05/12/23 21:33	124-48-1	
1,2-Dibromoethane (EDB)	**<15.5**	ug/L	50.0	15.5	50		05/12/23 21:33	106-93-4	
Dibromomethane	**<49.5**	ug/L	250	49.5	50		05/12/23 21:33	74-95-3	
1,2-Dichlorobenzene	**<16.3**	ug/L	50.0	16.3	50		05/12/23 21:33	95-50-1	
1,3-Dichlorobenzene	**<17.6**	ug/L	50.0	17.6	50		05/12/23 21:33	541-73-1	
1,4-Dichlorobenzene	**<44.6**	ug/L	50.0	44.6	50		05/12/23 21:33	106-46-7	
Dichlorodifluoromethane	**<22.8**	ug/L	250	22.8	50		05/12/23 21:33	75-71-8	
1,1-Dichloroethane	**<14.8**	ug/L	50.0	14.8	50		05/12/23 21:33	75-34-3	
1,2-Dichloroethane	**<14.6**	ug/L	50.0	14.6	50		05/12/23 21:33	107-06-2	
1,1-Dichloroethene	**<29.1**	ug/L	50.0	29.1	50		05/12/23 21:33	75-35-4	
cis-1,2-Dichloroethene	**2010**	ug/L	50.0	23.6	50		05/12/23 21:33	156-59-2	
trans-1,2-Dichloroethene	**396**	ug/L	50.0	26.4	50		05/12/23 21:33	156-60-5	
1,2-Dichloropropane	**<22.4**	ug/L	50.0	22.4	50		05/12/23 21:33	78-87-5	
1,3-Dichloropropane	**<15.2**	ug/L	50.0	15.2	50		05/12/23 21:33	142-28-9	
2,2-Dichloropropane	**<20.9**	ug/L	50.0	20.9	50		05/12/23 21:33	594-20-7	
1,1-Dichloropropene	**<20.5**	ug/L	50.0	20.5	50		05/12/23 21:33	563-58-6	
cis-1,3-Dichloropropene	**<11.9**	ug/L	50.0	11.9	50		05/12/23 21:33	10061-01-5	
trans-1,3-Dichloropropene	**<13.3**	ug/L	50.0	13.3	50		05/12/23 21:33	10061-02-6	
Diisopropyl ether	**<55.0**	ug/L	250	55.0	50		05/12/23 21:33	108-20-3	
Ethylbenzene	**<16.3**	ug/L	50.0	16.3	50		05/12/23 21:33	100-41-4	
Hexachloro-1,3-butadiene	**<137**	ug/L	250	137	50		05/12/23 21:33	87-68-3	
Isopropylbenzene (Cumene)	**<50.0**	ug/L	250	50.0	50		05/12/23 21:33	98-82-8	
p-Isopropyltoluene	**<52.2**	ug/L	250	52.2	50		05/12/23 21:33	99-87-6	
Methylene Chloride	**<16.0**	ug/L	250	16.0	50		05/12/23 21:33	75-09-2	
Methyl-tert-butyl ether	**<56.5**	ug/L	250	56.5	50		05/12/23 21:33	1634-04-4	
Naphthalene	**<95.9**	ug/L	250	95.9	50		05/12/23 21:33	91-20-3	

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW100 **Lab ID: 40261896009** Collected: 05/09/23 10:30 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
n-Propylbenzene	**<17.3**	ug/L	50.0	17.3	50		05/12/23 21:33	103-65-1	
Styrene	**<17.8**	ug/L	50.0	17.8	50		05/12/23 21:33	100-42-5	
1,1,1,2-Tetrachloroethane	**<17.8**	ug/L	50.0	17.8	50		05/12/23 21:33	630-20-6	
1,1,2,2-Tetrachloroethane	**<18.9**	ug/L	50.0	18.9	50		05/12/23 21:33	79-34-5	
Tetrachloroethene	**<20.4**	ug/L	50.0	20.4	50		05/12/23 21:33	127-18-4	
Toluene	**<14.4**	ug/L	50.0	14.4	50		05/12/23 21:33	108-88-3	
1,2,3-Trichlorobenzene	**<50.9**	ug/L	250	50.9	50		05/12/23 21:33	87-61-6	
1,2,4-Trichlorobenzene	**<47.5**	ug/L	250	47.5	50		05/12/23 21:33	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	50		05/12/23 21:33	71-55-6	
1,1,2-Trichloroethane	**<17.2**	ug/L	50.0	17.2	50		05/12/23 21:33	79-00-5	
Trichloroethene	**16.0J**	ug/L	50.0	16.0	50		05/12/23 21:33	79-01-6	
Trichlorofluoromethane	**<20.9**	ug/L	50.0	20.9	50		05/12/23 21:33	75-69-4	
1,2,3-Trichloropropane	**<27.8**	ug/L	50.0	27.8	50		05/12/23 21:33	96-18-4	
1,2,4-Trimethylbenzene	**<22.4**	ug/L	50.0	22.4	50		05/12/23 21:33	95-63-6	
1,3,5-Trimethylbenzene	**<17.9**	ug/L	50.0	17.9	50		05/12/23 21:33	108-67-8	
Vinyl chloride	**174**	ug/L	50.0	8.7	50		05/12/23 21:33	75-01-4	
m&p-Xylene	**<35.0**	ug/L	100	35.0	50		05/12/23 21:33	179601-23-1	
o-Xylene	**<17.4**	ug/L	50.0	17.4	50		05/12/23 21:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		50		05/12/23 21:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		50		05/12/23 21:33	2199-69-1	
Toluene-d8 (S)	100	%	70-130		50		05/12/23 21:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW300 **Lab ID: 40261896010** Collected: 05/09/23 10:00 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Acetone	**44.9J**	ug/L	125	43.2	5		05/12/23 22:25	67-64-1	
Benzene	**<1.5**	ug/L	5.0	1.5	5		05/12/23 22:25	71-43-2	
Bromobenzene	**<1.8**	ug/L	5.0	1.8	5		05/12/23 22:25	108-86-1	
Bromochloromethane	**<1.8**	ug/L	5.0	1.8	5		05/12/23 22:25	74-97-5	
Bromodichloromethane	**<2.1**	ug/L	5.0	2.1	5		05/12/23 22:25	75-27-4	
Bromoform	**<2.1**	ug/L	5.0	2.1	5		05/12/23 22:25	75-25-2	
Bromomethane	**<6.0**	ug/L	25.0	6.0	5		05/12/23 22:25	74-83-9	
2-Butanone (MEK)	**47.0J**	ug/L	125	32.6	5		05/12/23 22:25	78-93-3	
n-Butylbenzene	**<4.3**	ug/L	5.0	4.3	5		05/12/23 22:25	104-51-8	
sec-Butylbenzene	**<2.1**	ug/L	5.0	2.1	5		05/12/23 22:25	135-98-8	
tert-Butylbenzene	**<2.9**	ug/L	5.0	2.9	5		05/12/23 22:25	98-06-6	
Carbon tetrachloride	**<1.8**	ug/L	5.0	1.8	5		05/12/23 22:25	56-23-5	
Chlorobenzene	**<4.3**	ug/L	5.0	4.3	5		05/12/23 22:25	108-90-7	
Chloroethane	**<6.9**	ug/L	25.0	6.9	5		05/12/23 22:25	75-00-3	
Chloroform	**<2.5**	ug/L	25.0	2.5	5		05/12/23 22:25	67-66-3	
Chloromethane	**<8.2**	ug/L	25.0	8.2	5		05/12/23 22:25	74-87-3	
2-Chlorotoluene	**<4.4**	ug/L	25.0	4.4	5		05/12/23 22:25	95-49-8	
4-Chlorotoluene	**<4.5**	ug/L	25.0	4.5	5		05/12/23 22:25	106-43-4	
1,2-Dibromo-3-chloropropane	**<11.8**	ug/L	25.0	11.8	5		05/12/23 22:25	96-12-8	
Dibromochloromethane	**<13.2**	ug/L	25.0	13.2	5		05/12/23 22:25	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/L	5.0	1.5	5		05/12/23 22:25	106-93-4	
Dibromomethane	**<5.0**	ug/L	25.0	5.0	5		05/12/23 22:25	74-95-3	
1,2-Dichlorobenzene	**<1.6**	ug/L	5.0	1.6	5		05/12/23 22:25	95-50-1	
1,3-Dichlorobenzene	**<1.8**	ug/L	5.0	1.8	5		05/12/23 22:25	541-73-1	
1,4-Dichlorobenzene	**<4.5**	ug/L	5.0	4.5	5		05/12/23 22:25	106-46-7	
Dichlorodifluoromethane	**<2.3**	ug/L	25.0	2.3	5		05/12/23 22:25	75-71-8	
1,1-Dichloroethane	**<1.5**	ug/L	5.0	1.5	5		05/12/23 22:25	75-34-3	
1,2-Dichloroethane	**<1.5**	ug/L	5.0	1.5	5		05/12/23 22:25	107-06-2	
1,1-Dichloroethene	**<2.9**	ug/L	5.0	2.9	5		05/12/23 22:25	75-35-4	
cis-1,2-Dichloroethene	**280**	ug/L	5.0	2.4	5		05/12/23 22:25	156-59-2	
trans-1,2-Dichloroethene	**346**	ug/L	5.0	2.6	5		05/12/23 22:25	156-60-5	
1,2-Dichloropropane	**<2.2**	ug/L	5.0	2.2	5		05/12/23 22:25	78-87-5	
1,3-Dichloropropane	**<1.5**	ug/L	5.0	1.5	5		05/12/23 22:25	142-28-9	
2,2-Dichloropropane	**<2.1**	ug/L	5.0	2.1	5		05/12/23 22:25	594-20-7	
1,1-Dichloropropene	**<2.1**	ug/L	5.0	2.1	5		05/12/23 22:25	563-58-6	
cis-1,3-Dichloropropene	**<1.2**	ug/L	5.0	1.2	5		05/12/23 22:25	10061-01-5	
trans-1,3-Dichloropropene	**<1.3**	ug/L	5.0	1.3	5		05/12/23 22:25	10061-02-6	
Diisopropyl ether	**<5.5**	ug/L	25.0	5.5	5		05/12/23 22:25	108-20-3	
Ethylbenzene	**<1.6**	ug/L	5.0	1.6	5		05/12/23 22:25	100-41-4	
Hexachloro-1,3-butadiene	**<13.7**	ug/L	25.0	13.7	5		05/12/23 22:25	87-68-3	
Isopropylbenzene (Cumene)	**<5.0**	ug/L	25.0	5.0	5		05/12/23 22:25	98-82-8	
p-Isopropyltoluene	**<5.2**	ug/L	25.0	5.2	5		05/12/23 22:25	99-87-6	
Methylene Chloride	**<1.6**	ug/L	25.0	1.6	5		05/12/23 22:25	75-09-2	
Methyl-tert-butyl ether	**<5.6**	ug/L	25.0	5.6	5		05/12/23 22:25	1634-04-4	
Naphthalene	**<9.6**	ug/L	25.0	9.6	5		05/12/23 22:25	91-20-3	

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Sample: MW300 **Lab ID: 40261896010** Collected: 05/09/23 10:00 Received: 05/10/23 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
n-Propylbenzene	**<1.7**	ug/L	5.0	1.7	5		05/12/23 22:25	103-65-1	
Styrene	**<1.8**	ug/L	5.0	1.8	5		05/12/23 22:25	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.8**	ug/L	5.0	1.8	5		05/12/23 22:25	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.9**	ug/L	5.0	1.9	5		05/12/23 22:25	79-34-5	
Tetrachloroethene	**10.5**	ug/L	5.0	2.0	5		05/12/23 22:25	127-18-4	
Toluene	**<1.4**	ug/L	5.0	1.4	5		05/12/23 22:25	108-88-3	
1,2,3-Trichlorobenzene	**<5.1**	ug/L	25.0	5.1	5		05/12/23 22:25	87-61-6	
1,2,4-Trichlorobenzene	**<4.8**	ug/L	25.0	4.8	5		05/12/23 22:25	120-82-1	
1,1,1-Trichloroethane	**<1.5**	ug/L	5.0	1.5	5		05/12/23 22:25	71-55-6	
1,1,2-Trichloroethane	**<1.7**	ug/L	5.0	1.7	5		05/12/23 22:25	79-00-5	
Trichloroethene	**<1.6**	ug/L	5.0	1.6	5		05/12/23 22:25	79-01-6	
Trichlorofluoromethane	**<2.1**	ug/L	5.0	2.1	5		05/12/23 22:25	75-69-4	
1,2,3-Trichloropropane	**<2.8**	ug/L	5.0	2.8	5		05/12/23 22:25	96-18-4	
1,2,4-Trimethylbenzene	**<2.2**	ug/L	5.0	2.2	5		05/12/23 22:25	95-63-6	
1,3,5-Trimethylbenzene	**<1.8**	ug/L	5.0	1.8	5		05/12/23 22:25	108-67-8	
Vinyl chloride	**17.2**	ug/L	5.0	0.87	5		05/12/23 22:25	75-01-4	
m&p-Xylene	**<3.5**	ug/L	10.0	3.5	5		05/12/23 22:25	179601-23-1	
o-Xylene	**<1.7**	ug/L	5.0	1.7	5		05/12/23 22:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		5		05/12/23 22:25	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		5		05/12/23 22:25	2199-69-1	
Toluene-d8 (S)	102	%	70-130		5		05/12/23 22:25	2037-26-5	

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QUALITY CONTROL DATA

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

QC Batch: 444655
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261896001, 40261896002, 40261896003, 40261896004, 40261896005, 40261896006, 40261896007, 40261896008, 40261896009, 40261896010

METHOD BLANK: 2552608
Matrix: Water
Associated Lab Samples: 40261896001, 40261896002, 40261896003, 40261896004, 40261896005, 40261896006, 40261896007, 40261896008, 40261896009, 40261896010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	05/12/23 15:46	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	05/12/23 15:46	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	05/12/23 15:46	
1,1,2-Trichloroethane	ug/L	<0.34	1.0	05/12/23 15:46	
1,1-Dichloroethane	ug/L	<0.30	1.0	05/12/23 15:46	
1,1-Dichloroethene	ug/L	<0.58	1.0	05/12/23 15:46	
1,1-Dichloropropene	ug/L	<0.41	1.0	05/12/23 15:46	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	05/12/23 15:46	
1,2,3-Trichloropropane	ug/L	<0.56	1.0	05/12/23 15:46	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	05/12/23 15:46	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	05/12/23 15:46	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	05/12/23 15:46	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	05/12/23 15:46	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	05/12/23 15:46	
1,2-Dichloroethane	ug/L	<0.29	1.0	05/12/23 15:46	
1,2-Dichloropropane	ug/L	<0.45	1.0	05/12/23 15:46	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	05/12/23 15:46	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	05/12/23 15:46	
1,3-Dichloropropane	ug/L	<0.30	1.0	05/12/23 15:46	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	05/12/23 15:46	
2,2-Dichloropropane	ug/L	<0.42	1.0	05/12/23 15:46	
2-Butanone (MEK)	ug/L	<6.5	25.0	05/12/23 15:46	
2-Chlorotoluene	ug/L	<0.89	5.0	05/12/23 15:46	
4-Chlorotoluene	ug/L	<0.89	5.0	05/12/23 15:46	
Acetone	ug/L	<8.6	25.0	05/12/23 15:46	
Benzene	ug/L	<0.30	1.0	05/12/23 15:46	
Bromobenzene	ug/L	<0.36	1.0	05/12/23 15:46	
Bromochloromethane	ug/L	<0.36	1.0	05/12/23 15:46	
Bromodichloromethane	ug/L	<0.42	1.0	05/12/23 15:46	
Bromoform	ug/L	<0.43	1.0	05/12/23 15:46	
Bromomethane	ug/L	<1.2	5.0	05/12/23 15:46	
Carbon tetrachloride	ug/L	<0.37	1.0	05/12/23 15:46	
Chlorobenzene	ug/L	<0.86	1.0	05/12/23 15:46	
Chloroethane	ug/L	<1.4	5.0	05/12/23 15:46	
Chloroform	ug/L	<0.50	5.0	05/12/23 15:46	
Chloromethane	ug/L	<1.6	5.0	05/12/23 15:46	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	05/12/23 15:46	
cis-1,3-Dichloropropene	ug/L	<0.24	1.0	05/12/23 15:46	
Dibromochloromethane	ug/L	<2.6	5.0	05/12/23 15:46	

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QUALITY CONTROL DATA

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

METHOD BLANK: 2552608 Matrix: Water

Associated Lab Samples: 40261896001, 40261896002, 40261896003, 40261896004, 40261896005, 40261896006, 40261896007, 40261896008, 40261896009, 40261896010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<0.99	5.0	05/12/23 15:46	
Dichlorodifluoromethane	ug/L	<0.46	5.0	05/12/23 15:46	
Diisopropyl ether	ug/L	<1.1	5.0	05/12/23 15:46	
Ethylbenzene	ug/L	<0.33	1.0	05/12/23 15:46	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	05/12/23 15:46	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	05/12/23 15:46	
m&p-Xylene	ug/L	<0.70	2.0	05/12/23 15:46	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	05/12/23 15:46	
Methylene Chloride	ug/L	<0.32	5.0	05/12/23 15:46	
n-Butylbenzene	ug/L	<0.86	1.0	05/12/23 15:46	
n-Propylbenzene	ug/L	<0.35	1.0	05/12/23 15:46	
Naphthalene	ug/L	<1.9	5.0	05/12/23 15:46	
o-Xylene	ug/L	<0.35	1.0	05/12/23 15:46	
p-Isopropyltoluene	ug/L	<1.0	5.0	05/12/23 15:46	
sec-Butylbenzene	ug/L	<0.42	1.0	05/12/23 15:46	
Styrene	ug/L	<0.36	1.0	05/12/23 15:46	
tert-Butylbenzene	ug/L	<0.59	1.0	05/12/23 15:46	
Tetrachloroethene	ug/L	<0.41	1.0	05/12/23 15:46	
Toluene	ug/L	<0.29	1.0	05/12/23 15:46	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	05/12/23 15:46	
trans-1,3-Dichloropropene	ug/L	<0.27	1.0	05/12/23 15:46	
Trichloroethene	ug/L	<0.32	1.0	05/12/23 15:46	
Trichlorofluoromethane	ug/L	<0.42	1.0	05/12/23 15:46	
Vinyl chloride	ug/L	<0.17	1.0	05/12/23 15:46	
1,2-Dichlorobenzene-d4 (S)	%	98	70-130	05/12/23 15:46	
4-Bromofluorobenzene (S)	%	99	70-130	05/12/23 15:46	
Toluene-d8 (S)	%	101	70-130	05/12/23 15:46	

LABORATORY CONTROL SAMPLE: 2552609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.5	101	70-134	
1,1,2,2-Tetrachloroethane	ug/L	50	43.0	86	69-130	
1,1,2-Trichloroethane	ug/L	50	44.0	88	70-130	
1,1-Dichloroethane	ug/L	50	48.4	97	70-130	
1,1-Dichloroethene	ug/L	50	48.5	97	74-131	
1,2,4-Trichlorobenzene	ug/L	50	46.3	93	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	40.8	82	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	42.5	85	70-130	
1,2-Dichlorobenzene	ug/L	50	48.8	98	70-130	
1,2-Dichloroethane	ug/L	50	53.8	108	70-137	
1,2-Dichloropropane	ug/L	50	49.7	99	80-121	
1,3-Dichlorobenzene	ug/L	50	49.2	98	70-130	

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QUALITY CONTROL DATA

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

LABORATORY CONTROL SAMPLE: 2552609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	47.7	95	70-130	
Benzene	ug/L	50	48.8	98	70-130	
Bromodichloromethane	ug/L	50	49.0	98	70-130	
Bromoform	ug/L	50	39.4	79	70-130	
Bromomethane	ug/L	50	35.7	71	21-147	
Carbon tetrachloride	ug/L	50	50.3	101	80-146	
Chlorobenzene	ug/L	50	49.5	99	70-130	
Chloroethane	ug/L	50	53.3	107	52-165	
Chloroform	ug/L	50	51.4	103	80-123	
Chloromethane	ug/L	50	45.4	91	51-122	
cis-1,2-Dichloroethene	ug/L	50	48.8	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.9	100	70-130	
Dibromochloromethane	ug/L	50	43.6	87	70-130	
Dichlorodifluoromethane	ug/L	50	32.0	64	25-121	
Ethylbenzene	ug/L	50	49.4	99	80-120	
Isopropylbenzene (Cumene)	ug/L	50	47.7	95	70-130	
m&p-Xylene	ug/L	100	97.7	98	70-130	
Methyl-tert-butyl ether	ug/L	50	49.9	100	70-130	
Methylene Chloride	ug/L	50	53.8	108	70-130	
o-Xylene	ug/L	50	49.3	99	70-130	
Styrene	ug/L	50	57.0	114	70-130	
Tetrachloroethene	ug/L	50	46.1	92	70-130	
Toluene	ug/L	50	48.0	96	80-120	
trans-1,2-Dichloroethene	ug/L	50	52.3	105	70-130	
trans-1,3-Dichloropropene	ug/L	50	43.8	88	70-130	
Trichloroethene	ug/L	50	49.3	99	70-130	
Trichlorofluoromethane	ug/L	50	43.6	87	65-160	
Vinyl chloride	ug/L	50	52.0	104	63-134	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2552917 2552918

Parameter	Units	40261963013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.30	50	50	50.4	50.6	101	101	70-134	0	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	45.3	44.1	91	88	61-135	3	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	46.3	45.1	93	90	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	49.9	49.3	100	99	70-130	1	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	49.7	49.2	99	98	71-130	1	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	48.4	46.3	97	93	68-131	5	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	43.4	42.3	87	85	51-141	3	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	45.9	44.1	92	88	70-130	4	20	

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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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2552917 2552918

Parameter	Units	40261963013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichlorobenzene	ug/L	<0.33	50	50	51.1	48.3	102	97	70-130	6	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	54.8	54.4	110	109	70-137	1	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	50.2	50.4	100	101	80-121	0	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	51.1	48.2	102	96	70-130	6	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	49.8	48.0	100	96	70-130	4	20	
Benzene	ug/L	<0.30	50	50	49.8	49.4	100	99	70-130	1	20	
Bromodichloromethane	ug/L	<0.42	50	50	51.1	50.2	102	100	70-130	2	20	
Bromoform	ug/L	<0.43	50	50	41.9	40.4	84	81	70-133	4	20	
Bromomethane	ug/L	1.3J	50	50	41.0	43.9	80	85	21-149	7	22	
Carbon tetrachloride	ug/L	<0.37	50	50	51.6	51.0	103	102	80-146	1	20	
Chlorobenzene	ug/L	<0.86	50	50	51.2	49.8	102	100	70-130	3	20	
Chloroethane	ug/L	<1.4	50	50	52.6	52.3	105	105	52-165	1	20	
Chloroform	ug/L	<0.50	50	50	51.8	51.2	104	102	80-123	1	20	
Chloromethane	ug/L	<1.6	50	50	46.5	46.4	93	93	42-125	0	20	
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	49.1	48.9	98	98	70-130	0	20	
cis-1,3-Dichloropropene	ug/L	<0.24	50	50	51.8	50.7	104	101	70-130	2	20	
Dibromochloromethane	ug/L	<2.6	50	50	46.4	45.5	93	91	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	31.1	30.8	62	62	25-121	1	20	
Ethylbenzene	ug/L	<0.33	50	50	50.6	48.9	101	98	80-121	4	20	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	49.1	47.6	98	95	70-130	3	20	
m&p-Xylene	ug/L	<0.70	100	100	101	96.8	101	97	70-130	4	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	51.1	51.1	102	102	70-130	0	20	
Methylene Chloride	ug/L	<0.32	50	50	54.5	53.5	109	107	70-130	2	20	
o-Xylene	ug/L	<0.35	50	50	51.5	49.7	103	99	70-130	4	20	
Styrene	ug/L	<0.36	50	50	58.6	57.3	117	115	70-132	2	20	
Tetrachloroethene	ug/L	<0.41	50	50	46.3	44.8	93	90	70-130	3	20	
Toluene	ug/L	<0.29	50	50	49.5	47.6	99	95	80-120	4	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	53.2	53.0	106	106	70-130	0	20	
trans-1,3-Dichloropropene	ug/L	<0.27	50	50	46.9	45.3	94	91	70-130	4	20	
Trichloroethene	ug/L	<0.32	50	50	50.1	49.0	100	98	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.42	50	50	44.8	44.1	90	88	65-160	2	20	
Vinyl chloride	ug/L	<0.17	50	50	51.6	51.3	103	103	60-137	1	20	
1,2-Dichlorobenzene-d4 (S)	%						98	98	70-130			
4-Bromofluorobenzene (S)	%						100	100	70-130			
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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(920)469-2436

QUALIFIERS

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

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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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8318 V&L STRIPPING
Pace Project No.: 40261896

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40261896001	**PZ1700**	EPA 8260	444655		
40261896002	**MW1000**	EPA 8260	444655		
40261896003	**MW200**	EPA 8260	444655		
40261896004	**MW2000R**	EPA 8260	444655		
40261896005	**MW600R**	EPA 8260	444655		
40261896006	**MW2100**	EPA 8260	444655		
40261896007	**MW1500**	EPA 8260	444655		
40261896008	**MW800**	EPA 8260	444655		
40261896009	**MW100**	EPA 8260	444655		
40261896010	**MW300**	EPA 8260	444655		

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40261896

ALL SHADED AREAS are for LAB USE ONLY

Company: BEI

Billing Information:

Address: 4080 N 20th Ave

Report To: Andy Delforge

Email To: ADelforge@BEIengineering.com

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: 8318 VOC Stripping

State: WI County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Phone: 7156759784

Email:

Site/Facility ID #:

Compliance Monitoring? [✓] Yes [ ] No

Collected By (print): Paul Bushar

Purchase Order #:

Quote #:

DW PWS ID #:

DW Location Code:

Collected By (signature): [signature]

Turnaround Date Required:

Immediately Packed on Ice: [✓] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ______ [ ] Hold: ______

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis: ______

Container Preservative Type **: 3

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ______

Analyses: VOC's - method tetrachloride acetone, MEK VOC 8015D

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: ______
Sample pH Acceptable Y N NA
pH Strips: ______
Sulfide Present Y N NA
Lead Acetate Strips: ______

LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Lab Sample # / Comments
PZ1700	GW		5-9-23	9:00					001
MW1000				11:30					002
MW3200				11:00					003
MW2000r				1:00					004
MW600r				12:30					005
MW2100				12:00					006
MW1500				10:00					007
~~[crossed out]~~									—
MW800				9:20					008
MW100				10:30					009

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2829339

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ______
Cooler 1 Temp Upon Receipt: ____oC
Cooler 1 Therm Corr. Factor: ____oC
Cooler 1 Corrected Temp: ____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
BEI [signature]			
[signature]	05/10/23 0800	[signature]	05/10/23 0800

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 31 of 34
of: ______

CHAIN-OF-CUSTODY Analytical Request Document

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: REI	Billing Information:
Address:	
Report To:	Email To:
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: V+L Stripping	State: / County/City: Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print):	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses: VOC

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Lab Sample # / Comments
MW300 ①	W		5/9/23	1000					010

Customer Remarks / Special Conditions / Possible Hazards: ① In shipment Lab added to COC. 05/10/23 gw

Type of Ice Used: Wet Blue Dry None

Packing Material Used: 0

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2896416

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____ oC
Cooler 1 Therm Corr. Factor: _____ oC
Cooler 1 Corrected Temp: _____ oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Walco	05/10/23 0800	Pace	05/10/23 0800
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Client Name: REI

Sample Preservation Receipt Form

All containers needing preservation have been checked and noted below. Project # ☐Yes ☐No ☑N/A

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

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
001																	W																	2.5 / 5
002																	W																	2.5 / 5
003																	W																	2.5 / 5
004																	W																	2.5 / 5
005																	W																	2.5 / 5
006																	W																	2.5 / 5
007																	W																	2.5 / 5
008																	W																	2.5 / 5
009																	W																	2.5 / 5
010																	W																	2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																												03/10/23	8AV					2.5 / 5

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
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
BP2Z	500 mL plastic NaOH + Zn

VG9C	40 mL clear ascorbic w/ HCl
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 1	
GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Client Name: REI

Project #: WO# : 40261896

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

Tracking #: 3564268

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 - 117 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 3.5 /Corr: 4.0

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

Person examining contents: Date: 05/10/23 /Initials: SEW

Labeled By Initials: mlt

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. Billing PO#, Sample MW300 in Shipment Lab added COC 05/10/23 SW
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.
- DI 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.
Correct Type: Pace Green Bay, Pace IR, (Non-Pace)		
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):		

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 login

Page 2 of 2 05/10/23 SW

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 17, 2023

Andy Delforge
REI
4080 North 20th Avenue
Wausau, WI 54401

RE: Project: 8318 V&L STRIPS
Pace Project No.: 40261902

Dear Andy Delforge:

Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 2023. 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,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Paul Bushar, REI
Kaylin Felix, REI

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CERTIFICATIONS

Project: 8318 V&L STRIPS
Pace Project No.: 40261902

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: 8318 V&L STRIPS
Pace Project No.: 40261902

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40261902001	**R01-W**	Solid	05/09/23 12:00	05/10/23 08:00

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SAMPLE ANALYTE COUNT

Project: 8318 V&L STRIPS
Pace Project No.: 40261902

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40261902001	**R01-W**	EPA 8260	ALD	64	PASI-G
		EPA 8260	CXJ	4	PASI-G
		ASTM D2974-87	NMK	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPS
Pace Project No.: 40261902

Sample: R01-W **Lab ID: 40261902001** Collected: 05/09/23 12:00 Received: 05/10/23 08:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<12.2**	ug/kg	20.6	12.2	1	05/12/23 08:15	05/12/23 17:59	71-43-2	
Bromobenzene	**<20.1**	ug/kg	51.4	20.1	1	05/12/23 08:15	05/12/23 17:59	108-86-1	
Bromochloromethane	**<14.1**	ug/kg	51.4	14.1	1	05/12/23 08:15	05/12/23 17:59	74-97-5	
Bromodichloromethane	**<12.2**	ug/kg	51.4	12.2	1	05/12/23 08:15	05/12/23 17:59	75-27-4	
Bromoform	**<226**	ug/kg	257	226	1	05/12/23 08:15	05/12/23 17:59	75-25-2	
Bromomethane	**<72.1**	ug/kg	257	72.1	1	05/12/23 08:15	05/12/23 17:59	74-83-9	
n-Butylbenzene	**<23.6**	ug/kg	51.4	23.6	1	05/12/23 08:15	05/12/23 17:59	104-51-8	
sec-Butylbenzene	**<12.5**	ug/kg	51.4	12.5	1	05/12/23 08:15	05/12/23 17:59	135-98-8	
tert-Butylbenzene	**<16.1**	ug/kg	51.4	16.1	1	05/12/23 08:15	05/12/23 17:59	98-06-6	
Carbon tetrachloride	**<11.3**	ug/kg	51.4	11.3	1	05/12/23 08:15	05/12/23 17:59	56-23-5	
Chlorobenzene	**<6.2**	ug/kg	51.4	6.2	1	05/12/23 08:15	05/12/23 17:59	108-90-7	
Chloroethane	**<21.7**	ug/kg	257	21.7	1	05/12/23 08:15	05/12/23 17:59	75-00-3	
Chloroform	**<36.8**	ug/kg	257	36.8	1	05/12/23 08:15	05/12/23 17:59	67-66-3	
Chloromethane	**<19.5**	ug/kg	51.4	19.5	1	05/12/23 08:15	05/12/23 17:59	74-87-3	
2-Chlorotoluene	**<16.7**	ug/kg	51.4	16.7	1	05/12/23 08:15	05/12/23 17:59	95-49-8	
4-Chlorotoluene	**<19.5**	ug/kg	51.4	19.5	1	05/12/23 08:15	05/12/23 17:59	106-43-4	
1,2-Dibromo-3-chloropropane	**<39.9**	ug/kg	257	39.9	1	05/12/23 08:15	05/12/23 17:59	96-12-8	
Dibromochloromethane	**<176**	ug/kg	257	176	1	05/12/23 08:15	05/12/23 17:59	124-48-1	
1,2-Dibromoethane (EDB)	**<14.1**	ug/kg	51.4	14.1	1	05/12/23 08:15	05/12/23 17:59	106-93-4	
Dibromomethane	**<15.2**	ug/kg	51.4	15.2	1	05/12/23 08:15	05/12/23 17:59	74-95-3	
1,2-Dichlorobenzene	**<15.9**	ug/kg	51.4	15.9	1	05/12/23 08:15	05/12/23 17:59	95-50-1	
1,3-Dichlorobenzene	**<14.1**	ug/kg	51.4	14.1	1	05/12/23 08:15	05/12/23 17:59	541-73-1	
1,4-Dichlorobenzene	**<14.1**	ug/kg	51.4	14.1	1	05/12/23 08:15	05/12/23 17:59	106-46-7	
Dichlorodifluoromethane	**<22.1**	ug/kg	51.4	22.1	1	05/12/23 08:15	05/12/23 17:59	75-71-8	L1
1,1-Dichloroethane	**<13.2**	ug/kg	51.4	13.2	1	05/12/23 08:15	05/12/23 17:59	75-34-3	
1,2-Dichloroethane	**<11.8**	ug/kg	51.4	11.8	1	05/12/23 08:15	05/12/23 17:59	107-06-2	
1,1-Dichloroethene	**<17.1**	ug/kg	51.4	17.1	1	05/12/23 08:15	05/12/23 17:59	75-35-4	
cis-1,2-Dichloroethene	**<11.0**	ug/kg	51.4	11.0	1	05/12/23 08:15	05/12/23 17:59	156-59-2	
trans-1,2-Dichloroethene	**<11.1**	ug/kg	51.4	11.1	1	05/12/23 08:15	05/12/23 17:59	156-60-5	
1,2-Dichloropropane	**<12.2**	ug/kg	51.4	12.2	1	05/12/23 08:15	05/12/23 17:59	78-87-5	
1,3-Dichloropropane	**<11.2**	ug/kg	51.4	11.2	1	05/12/23 08:15	05/12/23 17:59	142-28-9	
2,2-Dichloropropane	**<13.9**	ug/kg	51.4	13.9	1	05/12/23 08:15	05/12/23 17:59	594-20-7	
1,1-Dichloropropene	**<16.7**	ug/kg	51.4	16.7	1	05/12/23 08:15	05/12/23 17:59	563-58-6	
cis-1,3-Dichloropropene	**<33.9**	ug/kg	257	33.9	1	05/12/23 08:15	05/12/23 17:59	10061-01-5	
trans-1,3-Dichloropropene	**<147**	ug/kg	257	147	1	05/12/23 08:15	05/12/23 17:59	10061-02-6	
Diisopropyl ether	**<12.8**	ug/kg	51.4	12.8	1	05/12/23 08:15	05/12/23 17:59	108-20-3	
Ethylbenzene	**<12.2**	ug/kg	51.4	12.2	1	05/12/23 08:15	05/12/23 17:59	100-41-4	
Hexachloro-1,3-butadiene	**<102**	ug/kg	257	102	1	05/12/23 08:15	05/12/23 17:59	87-68-3	
Isopropylbenzene (Cumene)	**<13.9**	ug/kg	51.4	13.9	1	05/12/23 08:15	05/12/23 17:59	98-82-8	
p-Isopropyltoluene	**<15.6**	ug/kg	51.4	15.6	1	05/12/23 08:15	05/12/23 17:59	99-87-6	
Methylene Chloride	**23.6J**	ug/kg	51.4	14.3	1	05/12/23 08:15	05/12/23 17:59	75-09-2	
Methyl-tert-butyl ether	**<15.1**	ug/kg	51.4	15.1	1	05/12/23 08:15	05/12/23 17:59	1634-04-4	
Naphthalene	**<16.0**	ug/kg	257	16.0	1	05/12/23 08:15	05/12/23 17:59	91-20-3	
n-Propylbenzene	**<12.3**	ug/kg	51.4	12.3	1	05/12/23 08:15	05/12/23 17:59	103-65-1	

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(920)469-2436

ANALYTICAL RESULTS

Project: 8318 V&L STRIPS
Pace Project No.: 40261902

Sample: R01-W **Lab ID: 40261902001** Collected: 05/09/23 12:00 Received: 05/10/23 08:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Styrene	**<13.2**	ug/kg	51.4	13.2	1	05/12/23 08:15	05/12/23 17:59	100-42-5	
1,1,1,2-Tetrachloroethane	**<12.3**	ug/kg	51.4	12.3	1	05/12/23 08:15	05/12/23 17:59	630-20-6	
1,1,2,2-Tetrachloroethane	**<18.6**	ug/kg	51.4	18.6	1	05/12/23 08:15	05/12/23 17:59	79-34-5	
Tetrachloroethene	**196**	ug/kg	51.4	20.0	1	05/12/23 08:15	05/12/23 17:59	127-18-4	
Toluene	**<13.0**	ug/kg	51.4	13.0	1	05/12/23 08:15	05/12/23 17:59	108-88-3	
1,2,3-Trichlorobenzene	**<57.3**	ug/kg	257	57.3	1	05/12/23 08:15	05/12/23 17:59	87-61-6	
1,2,4-Trichlorobenzene	**<42.4**	ug/kg	257	42.4	1	05/12/23 08:15	05/12/23 17:59	120-82-1	
1,1,1-Trichloroethane	**<13.2**	ug/kg	51.4	13.2	1	05/12/23 08:15	05/12/23 17:59	71-55-6	
1,1,2-Trichloroethane	**<18.7**	ug/kg	51.4	18.7	1	05/12/23 08:15	05/12/23 17:59	79-00-5	
Trichloroethene	**<19.2**	ug/kg	51.4	19.2	1	05/12/23 08:15	05/12/23 17:59	79-01-6	
Trichlorofluoromethane	**<14.9**	ug/kg	51.4	14.9	1	05/12/23 08:15	05/12/23 17:59	75-69-4	
1,2,3-Trichloropropane	**<25.0**	ug/kg	51.4	25.0	1	05/12/23 08:15	05/12/23 17:59	96-18-4	
1,2,4-Trimethylbenzene	**<15.3**	ug/kg	51.4	15.3	1	05/12/23 08:15	05/12/23 17:59	95-63-6	
1,3,5-Trimethylbenzene	**<16.6**	ug/kg	51.4	16.6	1	05/12/23 08:15	05/12/23 17:59	108-67-8	
Vinyl chloride	**<10.4**	ug/kg	51.4	10.4	1	05/12/23 08:15	05/12/23 17:59	75-01-4	
m&p-Xylene	**<21.7**	ug/kg	103	21.7	1	05/12/23 08:15	05/12/23 17:59	179601-23-1	
o-Xylene	**<15.4**	ug/kg	51.4	15.4	1	05/12/23 08:15	05/12/23 17:59	95-47-6	
Surrogates									
Toluene-d8 (S)	130	%	69-153		1	05/12/23 08:15	05/12/23 17:59	2037-26-5	
4-Bromofluorobenzene (S)	147	%	68-156		1	05/12/23 08:15	05/12/23 17:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	138	%	71-161		1	05/12/23 08:15	05/12/23 17:59	2199-69-1	
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 05/10/23 15:00 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<4.1**	ug/L	10.0	4.1	10		05/12/23 20:21	127-18-4	
Surrogates									
Toluene-d8 (S)	101	%	70-130		10		05/12/23 20:21	2037-26-5	
4-Bromofluorobenzene (S)	113	%	70-130		10		05/12/23 20:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		10		05/12/23 20:21	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**1.4**	%	0.10	0.10	1		05/15/23 18:04		

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QUALITY CONTROL DATA

Project: 8318 V&L STRIPS
Pace Project No.: 40261902

QC Batch: 444743
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261902001

METHOD BLANK: 2553285 Matrix: Solid
Associated Lab Samples: 40261902001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<12.0	50.0	05/12/23 13:00	
1,1,1-Trichloroethane	ug/kg	<12.8	50.0	05/12/23 13:00	
1,1,2,2-Tetrachloroethane	ug/kg	<18.1	50.0	05/12/23 13:00	
1,1,2-Trichloroethane	ug/kg	<18.2	50.0	05/12/23 13:00	
1,1-Dichloroethane	ug/kg	<12.8	50.0	05/12/23 13:00	
1,1-Dichloroethene	ug/kg	<16.6	50.0	05/12/23 13:00	
1,1-Dichloropropene	ug/kg	<16.2	50.0	05/12/23 13:00	
1,2,3-Trichlorobenzene	ug/kg	<55.7	250	05/12/23 13:00	
1,2,3-Trichloropropane	ug/kg	<24.3	50.0	05/12/23 13:00	
1,2,4-Trichlorobenzene	ug/kg	<41.2	250	05/12/23 13:00	
1,2,4-Trimethylbenzene	ug/kg	<14.9	50.0	05/12/23 13:00	
1,2-Dibromo-3-chloropropane	ug/kg	<38.8	250	05/12/23 13:00	
1,2-Dibromoethane (EDB)	ug/kg	<13.7	50.0	05/12/23 13:00	
1,2-Dichlorobenzene	ug/kg	<15.5	50.0	05/12/23 13:00	
1,2-Dichloroethane	ug/kg	<11.5	50.0	05/12/23 13:00	
1,2-Dichloropropane	ug/kg	<11.9	50.0	05/12/23 13:00	
1,3,5-Trimethylbenzene	ug/kg	<16.1	50.0	05/12/23 13:00	
1,3-Dichlorobenzene	ug/kg	<13.7	50.0	05/12/23 13:00	
1,3-Dichloropropane	ug/kg	<10.9	50.0	05/12/23 13:00	
1,4-Dichlorobenzene	ug/kg	<13.7	50.0	05/12/23 13:00	
2,2-Dichloropropane	ug/kg	<13.5	50.0	05/12/23 13:00	
2-Chlorotoluene	ug/kg	<16.2	50.0	05/12/23 13:00	
4-Chlorotoluene	ug/kg	<19.0	50.0	05/12/23 13:00	
Benzene	ug/kg	<11.9	20.0	05/12/23 13:00	
Bromobenzene	ug/kg	<19.5	50.0	05/12/23 13:00	
Bromochloromethane	ug/kg	<13.7	50.0	05/12/23 13:00	
Bromodichloromethane	ug/kg	<11.9	50.0	05/12/23 13:00	
Bromoform	ug/kg	<220	250	05/12/23 13:00	
Bromomethane	ug/kg	<70.1	250	05/12/23 13:00	
Carbon tetrachloride	ug/kg	<11.0	50.0	05/12/23 13:00	
Chlorobenzene	ug/kg	<6.0	50.0	05/12/23 13:00	
Chloroethane	ug/kg	<21.1	250	05/12/23 13:00	
Chloroform	ug/kg	<35.8	250	05/12/23 13:00	
Chloromethane	ug/kg	<19.0	50.0	05/12/23 13:00	
cis-1,2-Dichloroethene	ug/kg	<10.7	50.0	05/12/23 13:00	
cis-1,3-Dichloropropene	ug/kg	<33.0	250	05/12/23 13:00	
Dibromochloromethane	ug/kg	<171	250	05/12/23 13:00	
Dibromomethane	ug/kg	<14.8	50.0	05/12/23 13:00	
Dichlorodifluoromethane	ug/kg	<21.5	50.0	05/12/23 13:00	
Diisopropyl ether	ug/kg	<12.4	50.0	05/12/23 13:00	

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QUALITY CONTROL DATA

Project: 8318 V&L STRIPS
Pace Project No.: 40261902

METHOD BLANK: 2553285 Matrix: Solid
Associated Lab Samples: 40261902001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<11.9	50.0	05/12/23 13:00	
Hexachloro-1,3-butadiene	ug/kg	<99.4	250	05/12/23 13:00	
Isopropylbenzene (Cumene)	ug/kg	<13.5	50.0	05/12/23 13:00	
m&p-Xylene	ug/kg	<21.1	100	05/12/23 13:00	
Methyl-tert-butyl ether	ug/kg	<14.7	50.0	05/12/23 13:00	
Methylene Chloride	ug/kg	<13.9	50.0	05/12/23 13:00	
n-Butylbenzene	ug/kg	<22.9	50.0	05/12/23 13:00	
n-Propylbenzene	ug/kg	<12.0	50.0	05/12/23 13:00	
Naphthalene	ug/kg	<15.6	250	05/12/23 13:00	
o-Xylene	ug/kg	<15.0	50.0	05/12/23 13:00	
p-Isopropyltoluene	ug/kg	<15.2	50.0	05/12/23 13:00	
sec-Butylbenzene	ug/kg	<12.2	50.0	05/12/23 13:00	
Styrene	ug/kg	<12.8	50.0	05/12/23 13:00	
tert-Butylbenzene	ug/kg	<15.7	50.0	05/12/23 13:00	
Tetrachloroethene	ug/kg	<19.4	50.0	05/12/23 13:00	
Toluene	ug/kg	<12.6	50.0	05/12/23 13:00	
trans-1,2-Dichloroethene	ug/kg	<10.8	50.0	05/12/23 13:00	
trans-1,3-Dichloropropene	ug/kg	<143	250	05/12/23 13:00	
Trichloroethene	ug/kg	<18.7	50.0	05/12/23 13:00	
Trichlorofluoromethane	ug/kg	<14.5	50.0	05/12/23 13:00	
Vinyl chloride	ug/kg	<10.1	50.0	05/12/23 13:00	
1,2-Dichlorobenzene-d4 (S)	%	97	71-161	05/12/23 13:00	
4-Bromofluorobenzene (S)	%	104	68-156	05/12/23 13:00	
Toluene-d8 (S)	%	97	69-153	05/12/23 13:00	

LABORATORY CONTROL SAMPLE: 2553286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2720	109	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2170	87	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2120	85	70-130	
1,1-Dichloroethane	ug/kg	2500	2620	105	70-130	
1,1-Dichloroethene	ug/kg	2500	2850	114	77-120	
1,2,4-Trichlorobenzene	ug/kg	2500	2160	87	67-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2060	82	70-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2260	90	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2300	92	70-130	
1,2-Dichloroethane	ug/kg	2500	2630	105	70-130	
1,2-Dichloropropane	ug/kg	2500	2640	106	80-123	
1,3-Dichlorobenzene	ug/kg	2500	2260	90	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2200	88	70-130	
Benzene	ug/kg	2500	2570	103	70-130	
Bromodichloromethane	ug/kg	2500	2620	105	70-130	
Bromoform	ug/kg	2500	1980	79	60-130	

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(920)469-2436

QUALITY CONTROL DATA

Project: 8318 V&L STRIPS
Pace Project No.: 40261902

LABORATORY CONTROL SAMPLE: 2553286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/kg	2500	3000	120	45-153	
Carbon tetrachloride	ug/kg	2500	2730	109	70-130	
Chlorobenzene	ug/kg	2500	2420	97	70-130	
Chloroethane	ug/kg	2500	2650	106	55-160	
Chloroform	ug/kg	2500	2610	104	80-120	
Chloromethane	ug/kg	2500	2790	111	47-130	
cis-1,2-Dichloroethene	ug/kg	2500	2540	102	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2600	104	70-130	
Dibromochloromethane	ug/kg	2500	2090	83	70-130	
Dichlorodifluoromethane	ug/kg	2500	2510	101	16-83	L1
Ethylbenzene	ug/kg	2500	2330	93	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2360	94	70-130	
m&p-Xylene	ug/kg	5000	4720	94	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2530	101	65-130	
Methylene Chloride	ug/kg	2500	2660	106	70-130	
o-Xylene	ug/kg	2500	2320	93	70-130	
Styrene	ug/kg	2500	2720	109	70-130	
Tetrachloroethene	ug/kg	2500	2350	94	70-130	
Toluene	ug/kg	2500	2290	92	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2640	106	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2200	88	70-130	
Trichloroethene	ug/kg	2500	2580	103	70-130	
Trichlorofluoromethane	ug/kg	2500	2810	112	70-130	
Vinyl chloride	ug/kg	2500	2700	108	59-114	
1,2-Dichlorobenzene-d4 (S)	%			94	71-161	
4-Bromofluorobenzene (S)	%			102	68-156	
Toluene-d8 (S)	%			95	69-153	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2553294 2553295

Parameter	Units	40261904001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<17.0	1330	1330	1060	975	80	73	69-130	8	20	
1,1,2,2-Tetrachloroethane	ug/kg	<24.0	1330	1330	1410	1300	106	98	70-130	8	20	
1,1,2-Trichloroethane	ug/kg	<24.2	1330	1330	1180	1180	89	89	70-130	0	20	
1,1-Dichloroethane	ug/kg	<17.0	1330	1330	1230	1190	92	90	70-130	3	20	
1,1-Dichloroethene	ug/kg	<22.0	1330	1330	1070	930	81	70	55-120	14	22	
1,2,4-Trichlorobenzene	ug/kg	<54.7	1330	1330	1450	1360	109	102	67-130	7	20	
1,2-Dibromo-3-chloropropane	ug/kg	<51.5	1330	1330	1290	1310	97	98	70-130	1	22	
1,2-Dibromoethane (EDB)	ug/kg	<18.2	1330	1330	1280	1190	96	90	70-130	7	20	
1,2-Dichlorobenzene	ug/kg	<20.6	1330	1330	1470	1380	111	104	70-130	6	20	
1,2-Dichloroethane	ug/kg	<15.3	1330	1330	1300	1250	98	94	70-130	4	20	
1,2-Dichloropropane	ug/kg	<15.8	1330	1330	1240	1230	93	93	80-123	1	20	
1,3-Dichlorobenzene	ug/kg	<18.2	1330	1330	1450	1290	109	98	70-130	11	20	

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REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 8318 V&L STRIPS
Pace Project No.: 40261902

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2553294 2553295

Parameter	Units	40261904001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/kg	<18.2	1330	1330	1380	1280	104	97	70-130	7	20	
Benzene	ug/kg	<15.8	1330	1330	1210	1160	91	88	70-130	4	20	
Bromodichloromethane	ug/kg	<15.8	1330	1330	1190	1180	89	89	70-130	0	20	
Bromoform	ug/kg	<292	1330	1330	1190	1180	89	89	60-130	0	20	
Bromomethane	ug/kg	<93.0	1330	1330	1220	1190	92	90	38-153	3	20	
Carbon tetrachloride	ug/kg	<14.6	1330	1330	981	898	74	68	62-130	9	20	
Chlorobenzene	ug/kg	<8.0	1330	1330	1270	1230	96	93	70-130	3	20	
Chloroethane	ug/kg	<28.0	1330	1330	1130	1110	85	83	53-160	2	24	
Chloroform	ug/kg	<47.5	1330	1330	1200	1180	90	89	80-120	2	20	
Chloromethane	ug/kg	<25.2	1330	1330	801	814	60	61	10-130	2	20	
cis-1,2-Dichloroethene	ug/kg	<14.2	1330	1330	1190	1170	89	88	70-130	2	20	
cis-1,3-Dichloropropene	ug/kg	<43.8	1330	1330	1190	1100	90	83	70-130	8	20	
Dibromochloromethane	ug/kg	<227	1330	1330	1190	1120	89	85	70-130	5	20	
Dichlorodifluoromethane	ug/kg	<28.5	1330	1330	332	281	25	21	10-83	17	31	
Ethylbenzene	ug/kg	<15.8	1330	1330	1150	1120	87	84	80-120	2	20	
Isopropylbenzene (Cumene)	ug/kg	<17.9	1330	1330	1170	1090	88	82	70-130	6	20	
m&p-Xylene	ug/kg	<28.0	2650	2650	2410	2360	91	89	70-130	2	20	
Methyl-tert-butyl ether	ug/kg	<19.5	1330	1330	1250	1130	94	85	66-130	11	20	
Methylene Chloride	ug/kg	24.0J	1330	1330	1300	1330	96	99	70-130	3	20	
o-Xylene	ug/kg	<19.9	1330	1330	1220	1190	92	90	70-130	2	20	
Styrene	ug/kg	<17.0	1330	1330	1480	1410	111	106	70-130	5	20	
Tetrachloroethene	ug/kg	136	1330	1330	1250	1110	84	74	69-130	11	20	
Toluene	ug/kg	<16.7	1330	1330	1180	1160	89	88	79-120	2	20	
trans-1,2-Dichloroethene	ug/kg	<14.3	1330	1330	1120	1100	85	83	70-130	2	20	
trans-1,3-Dichloropropene	ug/kg	<190	1330	1330	1150	1070	87	81	69-130	8	20	
Trichloroethene	ug/kg	<24.8	1330	1330	1170	1050	88	79	70-130	10	20	
Trichlorofluoromethane	ug/kg	<19.2	1330	1330	925	776	70	58	50-130	18	22	
Vinyl chloride	ug/kg	<13.4	1330	1330	807	745	61	56	26-114	8	20	
1,2-Dichlorobenzene-d4 (S)	%						147	138	71-161			
4-Bromofluorobenzene (S)	%						155	146	68-156			
Toluene-d8 (S)	%						134	133	69-153			

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(920)469-2436

QUALITY CONTROL DATA

Project: 8318 V&L STRIPS
Pace Project No.: 40261902

QC Batch: 444726
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV TCLP
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261902001

METHOD BLANK: 2553199 Matrix: Water
Associated Lab Samples: 40261902001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	<0.41	1.0	05/12/23 15:28	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130	05/12/23 15:28	
4-Bromofluorobenzene (S)	%	111	70-130	05/12/23 15:28	
Toluene-d8 (S)	%	102	70-130	05/12/23 15:28	

METHOD BLANK: 2551676 Matrix: Solid
Associated Lab Samples: 40261902001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	<4.1	10.0	05/12/23 18:24	
1,2-Dichlorobenzene-d4 (S)	%	104	70-130	05/12/23 18:24	
4-Bromofluorobenzene (S)	%	111	70-130	05/12/23 18:24	
Toluene-d8 (S)	%	101	70-130	05/12/23 18:24	

LABORATORY CONTROL SAMPLE: 2553200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	50	42.2	84	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2553232 2553233

Parameter	Units	40261889009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Tetrachloroethene	ug/L	<4.1	500	500	450	437	90	87	70-130	3	20	
1,2-Dichlorobenzene-d4 (S)	%						99	99	70-130			
4-Bromofluorobenzene (S)	%						107	105	70-130			
Toluene-d8 (S)	%						101	100	70-130			

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QUALITY CONTROL DATA

Project: 8318 V&L STRIPS
Pace Project No.: 40261902

QC Batch: 444900
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261902001

SAMPLE DUPLICATE: 2554144

Parameter	Units	40261962003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.8	13.5	2	10	

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QUALIFIERS

Project: 8318 V&L STRIPS
Pace Project No.: 40261902

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

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8318 V&L STRIPS
Pace Project No.: 40261902

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40261902001	**R01-W**	EPA 5035/5030B	444743	EPA 8260	444747
40261902001	**R01-W**	EPA 8260	444726		
40261902001	**R01-W**	ASTM D2974-87	444900		

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CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 40261902

ALL SHADED AREAS are for LAB USE ONLY

Company: REI	Billing Information: REI
Address:	
Report To: Andy Decker	Email To:
Copy To:	Site Collection Info/Address: 864 ... St
Customer Project Name/Number: W L Stains / 8318	State: WI / County/City: Brown / Green Bay / Time Zone Collected: [ ] PT [ ] MT [✓] CT [ ] ET

Phone: 715-675-9784 Email:	Site/Facility ID #:	Compliance Monitoring? [ ] Yes [✓] No
Collected By (print): Paul Baskar	Purchase Order #: Quote #:	DW PWS ID #: DW Location Code:
Collected By (signature): [signature]	Turnaround Date Required: STD	Immediately Packed on Ice: [✓] Yes [ ] No
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: ______ [ ] Hold: ______	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)	Field Filtered (if applicable): [ ] Yes [✓] No Analysis: ______

Container Preservative Type **: 5 | 4

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ______

Lab Project Manager:

Analyses: VOC; TCLP Tetrachloroethylene

Lab Profile/Line:

```
Lab Sample Receipt Checklist:
Custody Seals Present/Intact      Y N NA
Custody Signatures Present        Y N NA
Collector Signature Present       Y N NA
Bottles Intact                    Y N NA
Correct Bottles                   Y N NA
Sufficient Volume                 Y N NA
Samples Received on Ice           Y N NA
VOA - Headspace Acceptable        Y N NA
USDA Regulated Soils              Y N NA
Samples in Holding Time           Y N NA
Residual Chlorine Present         Y N NA
Cl Strips: ____________
Sample pH Acceptable              Y N NA
pH Strips: ____________
Sulfide Present                   Y N NA
Lead Acetate Strips: ____________

LAB USE ONLY:
Lab Sample # / Comments:
```

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOC	TCLP Tetrachloroethylene	Lab Sample # / Comments
R01-W	S	G	5/9/23	12:30				2	X	X	001

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: Wet Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y N N/A	Lab Sample Temperature Info:
	Packing Material Used:	Lab Tracking #: 2829341	Temp Blank Received: Y N NA Therm ID#: ______ Cooler 1 Temp Upon Receipt: ____oC Cooler 1 Therm Corr. Factor: ____oC Cooler 1 Corrected Temp: ____oC Comments:
	Radchem sample(s) screened (<500 cpm): Y N NA	Samples received via: FEDEX UPS Client Courier Pace Courier	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
REI [signature]	5-9-2:30			Table #:
[signature]	05/10/23 0800	[signature] Pace	05/10/23 0800	Acctnum: Template: Prelogin:
				PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 1

Client Name: REI

Sample Preservation Receipt Form

Project # 402161902

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

Lab Lot# of pH paper:

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

Initial when completed.

Date/ Time:

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
001																																		2.5 / 5
002																																		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

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
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
BP2Z	500 mL plastic NaOH + Zn

VG9C	40 mL clear ascorbic w/ HCl
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 1	
GN 2	

Sample Condition Upon Receipt Form (SCUR)

Client Name: REI

Project #:

WO#: 40261902

40261902

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

Tracking #: 3564268

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 - 117 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 3.5 /Corr: 4.0

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

Person examining contents:
Date: 05/10/23 /Initials: SEW

Labeled By Initials: SG

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.
- DI 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.
Correct Type: ~~Pace Green Bay~~, Pace IR, Non-Pace		
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: S		
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (If purchased):		

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 2 of 2

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 17, 2023

Andy Delforge
REI
4080 North 20th Avenue
Wausau, WI 54401

RE: Project: 8318 V&L STRIPS
Pace Project No.: 40261904

Dear Andy Delforge:

Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 2023. 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,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Paul Bushar, REI
Kaylin Felix, REI

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CERTIFICATIONS

Project: 8318 V&L STRIPS
Pace Project No.: 40261904

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: 8318 V&L STRIPS
Pace Project No.: 40261904

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40261904001	**R02-E**	Solid	05/09/23 12:05	05/10/23 08:00

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SAMPLE ANALYTE COUNT

Project: 8318 V&L STRIPS
Pace Project No.: 40261904

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40261904001	**R02-E**	EPA 8260	ALD	64	PASI-G
		EPA 8260	CXJ	4	PASI-G
		ASTM D2974-87	NMK	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: 8318 V&L STRIPS
Pace Project No.: 40261904

Sample: R02-E **Lab ID: 40261904001** Collected: 05/09/23 12:05 Received: 05/10/23 08:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<15.8**	ug/kg	26.5	15.8	1	05/12/23 08:15	05/12/23 17:40	71-43-2	
Bromobenzene	**<25.9**	ug/kg	66.4	25.9	1	05/12/23 08:15	05/12/23 17:40	108-86-1	
Bromochloromethane	**<18.2**	ug/kg	66.4	18.2	1	05/12/23 08:15	05/12/23 17:40	74-97-5	
Bromodichloromethane	**<15.8**	ug/kg	66.4	15.8	1	05/12/23 08:15	05/12/23 17:40	75-27-4	
Bromoform	**<292**	ug/kg	332	292	1	05/12/23 08:15	05/12/23 17:40	75-25-2	
Bromomethane	**<93.0**	ug/kg	332	93.0	1	05/12/23 08:15	05/12/23 17:40	74-83-9	
n-Butylbenzene	**<30.4**	ug/kg	66.4	30.4	1	05/12/23 08:15	05/12/23 17:40	104-51-8	
sec-Butylbenzene	**<16.2**	ug/kg	66.4	16.2	1	05/12/23 08:15	05/12/23 17:40	135-98-8	
tert-Butylbenzene	**<20.8**	ug/kg	66.4	20.8	1	05/12/23 08:15	05/12/23 17:40	98-06-6	
Carbon tetrachloride	**<14.6**	ug/kg	66.4	14.6	1	05/12/23 08:15	05/12/23 17:40	56-23-5	
Chlorobenzene	**<8.0**	ug/kg	66.4	8.0	1	05/12/23 08:15	05/12/23 17:40	108-90-7	
Chloroethane	**<28.0**	ug/kg	332	28.0	1	05/12/23 08:15	05/12/23 17:40	75-00-3	
Chloroform	**<47.5**	ug/kg	332	47.5	1	05/12/23 08:15	05/12/23 17:40	67-66-3	
Chloromethane	**<25.2**	ug/kg	66.4	25.2	1	05/12/23 08:15	05/12/23 17:40	74-87-3	
2-Chlorotoluene	**<21.5**	ug/kg	66.4	21.5	1	05/12/23 08:15	05/12/23 17:40	95-49-8	
4-Chlorotoluene	**<25.2**	ug/kg	66.4	25.2	1	05/12/23 08:15	05/12/23 17:40	106-43-4	
1,2-Dibromo-3-chloropropane	**<51.5**	ug/kg	332	51.5	1	05/12/23 08:15	05/12/23 17:40	96-12-8	
Dibromochloromethane	**<227**	ug/kg	332	227	1	05/12/23 08:15	05/12/23 17:40	124-48-1	
1,2-Dibromoethane (EDB)	**<18.2**	ug/kg	66.4	18.2	1	05/12/23 08:15	05/12/23 17:40	106-93-4	
Dibromomethane	**<19.6**	ug/kg	66.4	19.6	1	05/12/23 08:15	05/12/23 17:40	74-95-3	
1,2-Dichlorobenzene	**<20.6**	ug/kg	66.4	20.6	1	05/12/23 08:15	05/12/23 17:40	95-50-1	
1,3-Dichlorobenzene	**<18.2**	ug/kg	66.4	18.2	1	05/12/23 08:15	05/12/23 17:40	541-73-1	
1,4-Dichlorobenzene	**<18.2**	ug/kg	66.4	18.2	1	05/12/23 08:15	05/12/23 17:40	106-46-7	
Dichlorodifluoromethane	**<28.5**	ug/kg	66.4	28.5	1	05/12/23 08:15	05/12/23 17:40	75-71-8	L1
1,1-Dichloroethane	**<17.0**	ug/kg	66.4	17.0	1	05/12/23 08:15	05/12/23 17:40	75-34-3	
1,2-Dichloroethane	**<15.3**	ug/kg	66.4	15.3	1	05/12/23 08:15	05/12/23 17:40	107-06-2	
1,1-Dichloroethene	**<22.0**	ug/kg	66.4	22.0	1	05/12/23 08:15	05/12/23 17:40	75-35-4	
cis-1,2-Dichloroethene	**<14.2**	ug/kg	66.4	14.2	1	05/12/23 08:15	05/12/23 17:40	156-59-2	
trans-1,2-Dichloroethene	**<14.3**	ug/kg	66.4	14.3	1	05/12/23 08:15	05/12/23 17:40	156-60-5	
1,2-Dichloropropane	**<15.8**	ug/kg	66.4	15.8	1	05/12/23 08:15	05/12/23 17:40	78-87-5	
1,3-Dichloropropane	**<14.5**	ug/kg	66.4	14.5	1	05/12/23 08:15	05/12/23 17:40	142-28-9	
2,2-Dichloropropane	**<17.9**	ug/kg	66.4	17.9	1	05/12/23 08:15	05/12/23 17:40	594-20-7	
1,1-Dichloropropene	**<21.5**	ug/kg	66.4	21.5	1	05/12/23 08:15	05/12/23 17:40	563-58-6	
cis-1,3-Dichloropropene	**<43.8**	ug/kg	332	43.8	1	05/12/23 08:15	05/12/23 17:40	10061-01-5	
trans-1,3-Dichloropropene	**<190**	ug/kg	332	190	1	05/12/23 08:15	05/12/23 17:40	10061-02-6	
Diisopropyl ether	**<16.5**	ug/kg	66.4	16.5	1	05/12/23 08:15	05/12/23 17:40	108-20-3	
Ethylbenzene	**<15.8**	ug/kg	66.4	15.8	1	05/12/23 08:15	05/12/23 17:40	100-41-4	
Hexachloro-1,3-butadiene	**<132**	ug/kg	332	132	1	05/12/23 08:15	05/12/23 17:40	87-68-3	
Isopropylbenzene (Cumene)	**<17.9**	ug/kg	66.4	17.9	1	05/12/23 08:15	05/12/23 17:40	98-82-8	
p-Isopropyltoluene	**<20.2**	ug/kg	66.4	20.2	1	05/12/23 08:15	05/12/23 17:40	99-87-6	
Methylene Chloride	**24.0J**	ug/kg	66.4	18.4	1	05/12/23 08:15	05/12/23 17:40	75-09-2	
Methyl-tert-butyl ether	**<19.5**	ug/kg	66.4	19.5	1	05/12/23 08:15	05/12/23 17:40	1634-04-4	
Naphthalene	**<20.7**	ug/kg	332	20.7	1	05/12/23 08:15	05/12/23 17:40	91-20-3	
n-Propylbenzene	**<15.9**	ug/kg	66.4	15.9	1	05/12/23 08:15	05/12/23 17:40	103-65-1	

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1241 Bellevue Street - Suite 9
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(920)469-2436

ANALYTICAL RESULTS

Project: 8318 V&L STRIPS
Pace Project No.: 40261904

Sample: R02-E **Lab ID: 40261904001** Collected: 05/09/23 12:05 Received: 05/10/23 08:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Styrene	**<17.0**	ug/kg	66.4	17.0	1	05/12/23 08:15	05/12/23 17:40	100-42-5	
1,1,1,2-Tetrachloroethane	**<15.9**	ug/kg	66.4	15.9	1	05/12/23 08:15	05/12/23 17:40	630-20-6	
1,1,2,2-Tetrachloroethane	**<24.0**	ug/kg	66.4	24.0	1	05/12/23 08:15	05/12/23 17:40	79-34-5	
Tetrachloroethene	**136**	ug/kg	66.4	25.7	1	05/12/23 08:15	05/12/23 17:40	127-18-4	
Toluene	**<16.7**	ug/kg	66.4	16.7	1	05/12/23 08:15	05/12/23 17:40	108-88-3	
1,2,3-Trichlorobenzene	**<73.9**	ug/kg	332	73.9	1	05/12/23 08:15	05/12/23 17:40	87-61-6	
1,2,4-Trichlorobenzene	**<54.7**	ug/kg	332	54.7	1	05/12/23 08:15	05/15/23 12:12	120-82-1	
1,1,1-Trichloroethane	**<17.0**	ug/kg	66.4	17.0	1	05/12/23 08:15	05/12/23 17:40	71-55-6	
1,1,2-Trichloroethane	**<24.2**	ug/kg	66.4	24.2	1	05/12/23 08:15	05/12/23 17:40	79-00-5	
Trichloroethene	**<24.8**	ug/kg	66.4	24.8	1	05/12/23 08:15	05/12/23 17:40	79-01-6	
Trichlorofluoromethane	**<19.2**	ug/kg	66.4	19.2	1	05/12/23 08:15	05/12/23 17:40	75-69-4	
1,2,3-Trichloropropane	**<32.3**	ug/kg	66.4	32.3	1	05/12/23 08:15	05/12/23 17:40	96-18-4	
1,2,4-Trimethylbenzene	**<19.8**	ug/kg	66.4	19.8	1	05/12/23 08:15	05/12/23 17:40	95-63-6	
1,3,5-Trimethylbenzene	**<21.4**	ug/kg	66.4	21.4	1	05/12/23 08:15	05/12/23 17:40	108-67-8	
Vinyl chloride	**<13.4**	ug/kg	66.4	13.4	1	05/12/23 08:15	05/12/23 17:40	75-01-4	
m&p-Xylene	**<28.0**	ug/kg	133	28.0	1	05/12/23 08:15	05/12/23 17:40	179601-23-1	
o-Xylene	**<19.9**	ug/kg	66.4	19.9	1	05/12/23 08:15	05/12/23 17:40	95-47-6	
Surrogates									
Toluene-d8 (S)	134	%	69-153		1	05/12/23 08:15	05/12/23 17:40	2037-26-5	
4-Bromofluorobenzene (S)	139	%	68-156		1	05/12/23 08:15	05/12/23 17:40	460-00-4	
1,2-Dichlorobenzene-d4 (S)	136	%	71-161		1	05/12/23 08:15	05/12/23 17:40	2199-69-1	
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 05/10/23 15:00 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<4.1**	ug/L	10.0	4.1	10		05/12/23 20:40	127-18-4	
Surrogates									
Toluene-d8 (S)	101	%	70-130		10		05/12/23 20:40	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		10		05/12/23 20:40	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		10		05/12/23 20:40	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**14.1**	%	0.10	0.10	1		05/15/23 18:42		

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QUALITY CONTROL DATA

Project: 8318 V&L STRIPS
Pace Project No.: 40261904

QC Batch: 444743
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261904001

METHOD BLANK: 2553285 Matrix: Solid
Associated Lab Samples: 40261904001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<12.0	50.0	05/12/23 13:00	
1,1,1-Trichloroethane	ug/kg	<12.8	50.0	05/12/23 13:00	
1,1,2,2-Tetrachloroethane	ug/kg	<18.1	50.0	05/12/23 13:00	
1,1,2-Trichloroethane	ug/kg	<18.2	50.0	05/12/23 13:00	
1,1-Dichloroethane	ug/kg	<12.8	50.0	05/12/23 13:00	
1,1-Dichloroethene	ug/kg	<16.6	50.0	05/12/23 13:00	
1,1-Dichloropropene	ug/kg	<16.2	50.0	05/12/23 13:00	
1,2,3-Trichlorobenzene	ug/kg	<55.7	250	05/12/23 13:00	
1,2,3-Trichloropropane	ug/kg	<24.3	50.0	05/12/23 13:00	
1,2,4-Trichlorobenzene	ug/kg	<41.2	250	05/12/23 13:00	
1,2,4-Trimethylbenzene	ug/kg	<14.9	50.0	05/12/23 13:00	
1,2-Dibromo-3-chloropropane	ug/kg	<38.8	250	05/12/23 13:00	
1,2-Dibromoethane (EDB)	ug/kg	<13.7	50.0	05/12/23 13:00	
1,2-Dichlorobenzene	ug/kg	<15.5	50.0	05/12/23 13:00	
1,2-Dichloroethane	ug/kg	<11.5	50.0	05/12/23 13:00	
1,2-Dichloropropane	ug/kg	<11.9	50.0	05/12/23 13:00	
1,3,5-Trimethylbenzene	ug/kg	<16.1	50.0	05/12/23 13:00	
1,3-Dichlorobenzene	ug/kg	<13.7	50.0	05/12/23 13:00	
1,3-Dichloropropane	ug/kg	<10.9	50.0	05/12/23 13:00	
1,4-Dichlorobenzene	ug/kg	<13.7	50.0	05/12/23 13:00	
2,2-Dichloropropane	ug/kg	<13.5	50.0	05/12/23 13:00	
2-Chlorotoluene	ug/kg	<16.2	50.0	05/12/23 13:00	
4-Chlorotoluene	ug/kg	<19.0	50.0	05/12/23 13:00	
Benzene	ug/kg	<11.9	20.0	05/12/23 13:00	
Bromobenzene	ug/kg	<19.5	50.0	05/12/23 13:00	
Bromochloromethane	ug/kg	<13.7	50.0	05/12/23 13:00	
Bromodichloromethane	ug/kg	<11.9	50.0	05/12/23 13:00	
Bromoform	ug/kg	<220	250	05/12/23 13:00	
Bromomethane	ug/kg	<70.1	250	05/12/23 13:00	
Carbon tetrachloride	ug/kg	<11.0	50.0	05/12/23 13:00	
Chlorobenzene	ug/kg	<6.0	50.0	05/12/23 13:00	
Chloroethane	ug/kg	<21.1	250	05/12/23 13:00	
Chloroform	ug/kg	<35.8	250	05/12/23 13:00	
Chloromethane	ug/kg	<19.0	50.0	05/12/23 13:00	
cis-1,2-Dichloroethene	ug/kg	<10.7	50.0	05/12/23 13:00	
cis-1,3-Dichloropropene	ug/kg	<33.0	250	05/12/23 13:00	
Dibromochloromethane	ug/kg	<171	250	05/12/23 13:00	
Dibromomethane	ug/kg	<14.8	50.0	05/12/23 13:00	
Dichlorodifluoromethane	ug/kg	<21.5	50.0	05/12/23 13:00	
Diisopropyl ether	ug/kg	<12.4	50.0	05/12/23 13:00	

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QUALITY CONTROL DATA

Project: 8318 V&L STRIPS
Pace Project No.: 40261904

METHOD BLANK: 2553285 Matrix: Solid
Associated Lab Samples: 40261904001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<11.9	50.0	05/12/23 13:00	
Hexachloro-1,3-butadiene	ug/kg	<99.4	250	05/12/23 13:00	
Isopropylbenzene (Cumene)	ug/kg	<13.5	50.0	05/12/23 13:00	
m&p-Xylene	ug/kg	<21.1	100	05/12/23 13:00	
Methyl-tert-butyl ether	ug/kg	<14.7	50.0	05/12/23 13:00	
Methylene Chloride	ug/kg	<13.9	50.0	05/12/23 13:00	
n-Butylbenzene	ug/kg	<22.9	50.0	05/12/23 13:00	
n-Propylbenzene	ug/kg	<12.0	50.0	05/12/23 13:00	
Naphthalene	ug/kg	<15.6	250	05/12/23 13:00	
o-Xylene	ug/kg	<15.0	50.0	05/12/23 13:00	
p-Isopropyltoluene	ug/kg	<15.2	50.0	05/12/23 13:00	
sec-Butylbenzene	ug/kg	<12.2	50.0	05/12/23 13:00	
Styrene	ug/kg	<12.8	50.0	05/12/23 13:00	
tert-Butylbenzene	ug/kg	<15.7	50.0	05/12/23 13:00	
Tetrachloroethene	ug/kg	<19.4	50.0	05/12/23 13:00	
Toluene	ug/kg	<12.6	50.0	05/12/23 13:00	
trans-1,2-Dichloroethene	ug/kg	<10.8	50.0	05/12/23 13:00	
trans-1,3-Dichloropropene	ug/kg	<143	250	05/12/23 13:00	
Trichloroethene	ug/kg	<18.7	50.0	05/12/23 13:00	
Trichlorofluoromethane	ug/kg	<14.5	50.0	05/12/23 13:00	
Vinyl chloride	ug/kg	<10.1	50.0	05/12/23 13:00	
1,2-Dichlorobenzene-d4 (S)	%	97	71-161	05/12/23 13:00	
4-Bromofluorobenzene (S)	%	104	68-156	05/12/23 13:00	
Toluene-d8 (S)	%	97	69-153	05/12/23 13:00	

LABORATORY CONTROL SAMPLE: 2553286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2720	109	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2170	87	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2120	85	70-130	
1,1-Dichloroethane	ug/kg	2500	2620	105	70-130	
1,1-Dichloroethene	ug/kg	2500	2850	114	77-120	
1,2,4-Trichlorobenzene	ug/kg	2500	2160	87	67-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2060	82	70-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2260	90	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2300	92	70-130	
1,2-Dichloroethane	ug/kg	2500	2630	105	70-130	
1,2-Dichloropropane	ug/kg	2500	2640	106	80-123	
1,3-Dichlorobenzene	ug/kg	2500	2260	90	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2200	88	70-130	
Benzene	ug/kg	2500	2570	103	70-130	
Bromodichloromethane	ug/kg	2500	2620	105	70-130	
Bromoform	ug/kg	2500	1980	79	60-130	

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QUALITY CONTROL DATA

Project: 8318 V&L STRIPS
Pace Project No.: 40261904

LABORATORY CONTROL SAMPLE: 2553286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/kg	2500	3000	120	45-153	
Carbon tetrachloride	ug/kg	2500	2730	109	70-130	
Chlorobenzene	ug/kg	2500	2420	97	70-130	
Chloroethane	ug/kg	2500	2650	106	55-160	
Chloroform	ug/kg	2500	2610	104	80-120	
Chloromethane	ug/kg	2500	2790	111	47-130	
cis-1,2-Dichloroethene	ug/kg	2500	2540	102	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2600	104	70-130	
Dibromochloromethane	ug/kg	2500	2090	83	70-130	
Dichlorodifluoromethane	ug/kg	2500	2510	101	16-83	L1
Ethylbenzene	ug/kg	2500	2330	93	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2360	94	70-130	
m&p-Xylene	ug/kg	5000	4720	94	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2530	101	65-130	
Methylene Chloride	ug/kg	2500	2660	106	70-130	
o-Xylene	ug/kg	2500	2320	93	70-130	
Styrene	ug/kg	2500	2720	109	70-130	
Tetrachloroethene	ug/kg	2500	2350	94	70-130	
Toluene	ug/kg	2500	2290	92	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2640	106	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2200	88	70-130	
Trichloroethene	ug/kg	2500	2580	103	70-130	
Trichlorofluoromethane	ug/kg	2500	2810	112	70-130	
Vinyl chloride	ug/kg	2500	2700	108	59-114	
1,2-Dichlorobenzene-d4 (S)	%			94	71-161	
4-Bromofluorobenzene (S)	%			102	68-156	
Toluene-d8 (S)	%			95	69-153	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2553294 2553295

Parameter	Units	40261904001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<17.0	1330	1330	1060	975	80	73	69-130	8	20	
1,1,2,2-Tetrachloroethane	ug/kg	<24.0	1330	1330	1410	1300	106	98	70-130	8	20	
1,1,2-Trichloroethane	ug/kg	<24.2	1330	1330	1180	1180	89	89	70-130	0	20	
1,1-Dichloroethane	ug/kg	<17.0	1330	1330	1230	1190	92	90	70-130	3	20	
1,1-Dichloroethene	ug/kg	<22.0	1330	1330	1070	930	81	70	55-120	14	22	
1,2,4-Trichlorobenzene	ug/kg	<54.7	1330	1330	1450	1360	109	102	67-130	7	20	
1,2-Dibromo-3-chloropropane	ug/kg	<51.5	1330	1330	1290	1310	97	98	70-130	1	22	
1,2-Dibromoethane (EDB)	ug/kg	<18.2	1330	1330	1280	1190	96	90	70-130	7	20	
1,2-Dichlorobenzene	ug/kg	<20.6	1330	1330	1470	1380	111	104	70-130	6	20	
1,2-Dichloroethane	ug/kg	<15.3	1330	1330	1300	1250	98	94	70-130	4	20	
1,2-Dichloropropane	ug/kg	<15.8	1330	1330	1240	1230	93	93	80-123	1	20	
1,3-Dichlorobenzene	ug/kg	<18.2	1330	1330	1450	1290	109	98	70-130	11	20	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 8318 V&L STRIPS
Pace Project No.: 40261904

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2553294 2553295

Parameter	Units	40261904001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/kg	<18.2	1330	1330	1380	1280	104	97	70-130	7	20	
Benzene	ug/kg	<15.8	1330	1330	1210	1160	91	88	70-130	4	20	
Bromodichloromethane	ug/kg	<15.8	1330	1330	1190	1180	89	89	70-130	0	20	
Bromoform	ug/kg	<292	1330	1330	1190	1180	89	89	60-130	0	20	
Bromomethane	ug/kg	<93.0	1330	1330	1220	1190	92	90	38-153	3	20	
Carbon tetrachloride	ug/kg	<14.6	1330	1330	981	898	74	68	62-130	9	20	
Chlorobenzene	ug/kg	<8.0	1330	1330	1270	1230	96	93	70-130	3	20	
Chloroethane	ug/kg	<28.0	1330	1330	1130	1110	85	83	53-160	2	24	
Chloroform	ug/kg	<47.5	1330	1330	1200	1180	90	89	80-120	2	20	
Chloromethane	ug/kg	<25.2	1330	1330	801	814	60	61	10-130	2	20	
cis-1,2-Dichloroethene	ug/kg	<14.2	1330	1330	1190	1170	89	88	70-130	2	20	
cis-1,3-Dichloropropene	ug/kg	<43.8	1330	1330	1190	1100	90	83	70-130	8	20	
Dibromochloromethane	ug/kg	<227	1330	1330	1190	1120	89	85	70-130	5	20	
Dichlorodifluoromethane	ug/kg	<28.5	1330	1330	332	281	25	21	10-83	17	31	
Ethylbenzene	ug/kg	<15.8	1330	1330	1150	1120	87	84	80-120	2	20	
Isopropylbenzene (Cumene)	ug/kg	<17.9	1330	1330	1170	1090	88	82	70-130	6	20	
m&p-Xylene	ug/kg	<28.0	2650	2650	2410	2360	91	89	70-130	2	20	
Methyl-tert-butyl ether	ug/kg	<19.5	1330	1330	1250	1130	94	85	66-130	11	20	
Methylene Chloride	ug/kg	24.0J	1330	1330	1300	1330	96	99	70-130	3	20	
o-Xylene	ug/kg	<19.9	1330	1330	1220	1190	92	90	70-130	2	20	
Styrene	ug/kg	<17.0	1330	1330	1480	1410	111	106	70-130	5	20	
Tetrachloroethene	ug/kg	136	1330	1330	1250	1110	84	74	69-130	11	20	
Toluene	ug/kg	<16.7	1330	1330	1180	1160	89	88	79-120	2	20	
trans-1,2-Dichloroethene	ug/kg	<14.3	1330	1330	1120	1100	85	83	70-130	2	20	
trans-1,3-Dichloropropene	ug/kg	<190	1330	1330	1150	1070	87	81	69-130	8	20	
Trichloroethene	ug/kg	<24.8	1330	1330	1170	1050	88	79	70-130	10	20	
Trichlorofluoromethane	ug/kg	<19.2	1330	1330	925	776	70	58	50-130	18	22	
Vinyl chloride	ug/kg	<13.4	1330	1330	807	745	61	56	26-114	8	20	
1,2-Dichlorobenzene-d4 (S)	%						147	138	71-161			
4-Bromofluorobenzene (S)	%						155	146	68-156			
Toluene-d8 (S)	%						134	133	69-153			

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 8318 V&L STRIPS
Pace Project No.: 40261904

QC Batch: 444726
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV TCLP
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261904001

METHOD BLANK: 2553199 Matrix: Water
Associated Lab Samples: 40261904001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	<0.41	1.0	05/12/23 15:28	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130	05/12/23 15:28	
4-Bromofluorobenzene (S)	%	111	70-130	05/12/23 15:28	
Toluene-d8 (S)	%	102	70-130	05/12/23 15:28	

METHOD BLANK: 2551676 Matrix: Solid
Associated Lab Samples: 40261904001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	<4.1	10.0	05/12/23 18:24	
1,2-Dichlorobenzene-d4 (S)	%	104	70-130	05/12/23 18:24	
4-Bromofluorobenzene (S)	%	111	70-130	05/12/23 18:24	
Toluene-d8 (S)	%	101	70-130	05/12/23 18:24	

LABORATORY CONTROL SAMPLE: 2553200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	50	42.2	84	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2553232 2553233

Parameter	Units	40261889009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Tetrachloroethene	ug/L	<4.1	500	500	450	437	90	87	70-130	3	20	
1,2-Dichlorobenzene-d4 (S)	%						99	99	70-130			
4-Bromofluorobenzene (S)	%						107	105	70-130			
Toluene-d8 (S)	%						101	100	70-130			

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 8318 V&L STRIPS
Pace Project No.: 40261904

QC Batch: 444901
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261904001

SAMPLE DUPLICATE: 2554145

Parameter	Units	40261962004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.5	11.0	5	10	

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Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 8318 V&L STRIPS
Pace Project No.: 40261904

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

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8318 V&L STRIPS
Pace Project No.: 40261904

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40261904001	**R02-E**	EPA 5035/5030B	444743	EPA 8260	444747
40261904001	**R02-E**	EPA 8260	444726		
40261904001	**R02-E**	ASTM D2974-87	444901		

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Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 40261904

ALL SHADED AREAS are for LAB USE ONLY

Company: REI	Billing Information: REI
Address:	
Report To: Andy Aecfotz	Email To:
Copy To:	Site Collection Info/Address: 864 Northco St
Customer Project Name/Number: Ud L Stiirs / 8318	State: County/City: WI / Brown / Green Bay Time Zone Collected: [ ] PT [ ] MT [x] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Paul Bysla	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): [signature]	Turnaround Date Required: STD Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [x] Dispose as appropriate [ ] Return [ ] Archive: ___ [ ] Hold: ___	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis: ___

Container Preservative Type **: 5, 6

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ___

Lab Project Manager:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analyses: VOC; TCLP Total Lead only

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	VOC	TCLP Total Lead only	Lab Sample # / Comments
RO2-E	S	G	5/9/23	12:05				2	X	X	001

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: ___
Sample pH Acceptable Y N NA
pH Strips: ___
Sulfide Present Y N NA
Lead Acetate Strips: ___
LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2829340

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ___
Cooler 1 Temp Upon Receipt: ___oC
Cooler 1 Therm Corr. Factor: ___oC
Cooler 1 Corrected Temp: ___oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
REI Paul [signature]	5-9 2:30			Table #: Acctnum:
[signature]	05/10/23 0800	Susan K [signature] Pace	05/10/23 0800	Template: Prelogin:
				PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Client Name: REI

Sample Preservation Receipt Form

Project # 40261904

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

Lab Lot# of pH paper.

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

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm) *	Initial when completed: H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	Date/ Time: pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
001																		1		1														2.5 / 5
002																																		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

05/10/23 800

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
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
BP2Z	500 mL plastic NaOH + Zn

VG9C	40 mL clear ascorbic w/ HCl
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 1	
GN 2	

Sample Condition Upon Receipt Form (SCUR)

Client Name: REI

Project #:

WO# : 40261904

40261904

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

Tracking #: 3564268

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 - 117 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 3.5 /Corr: 4.0

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

Person examining contents:
Date: 05/10/23 /Initials: SEW

Labeled By Initials: MMB

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.
- DI 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.
Correct Type: (Pace Green Bay), Pace IR, Non-Pace		
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: S		
Trip Blank Present:	☐Yes ☐No ☒N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: Date/Time:

Comments/ Resolution:

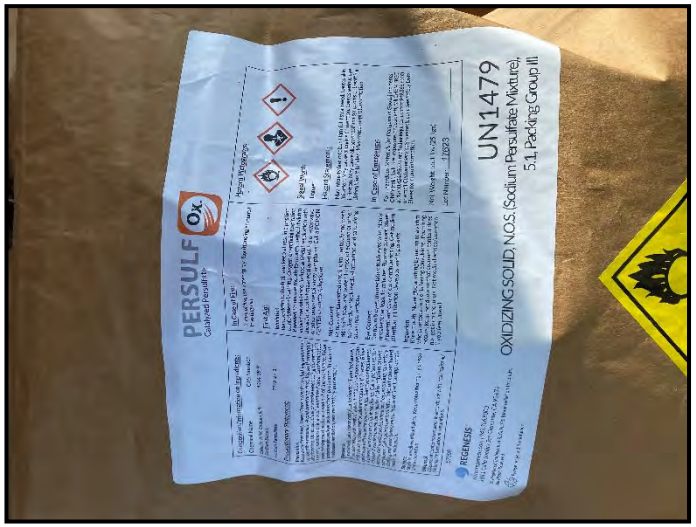
PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

ATTACHMENT B

PHOTOGRAPHS

Removing topsoil

Excavating soil - large tree to west



PersulfOx label

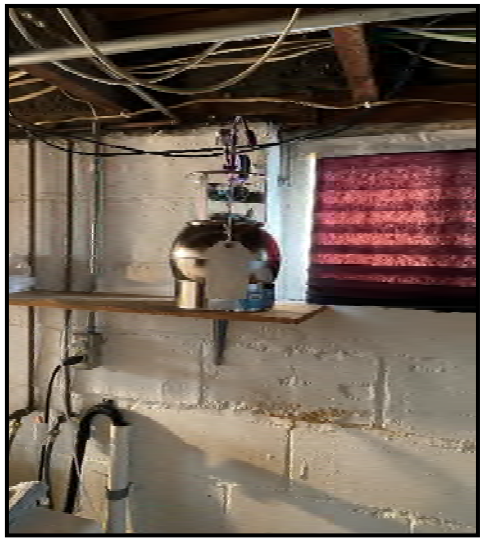
Loading roll-off boxes

Loading roll-of boxes

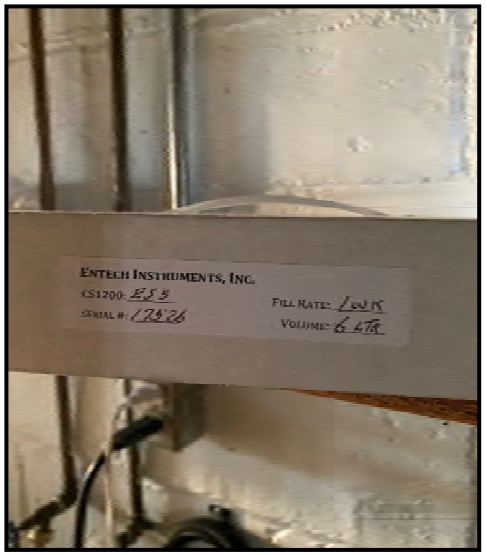
Completed excavation, view to south

Completed excavation, view to north

Backfilled excavation



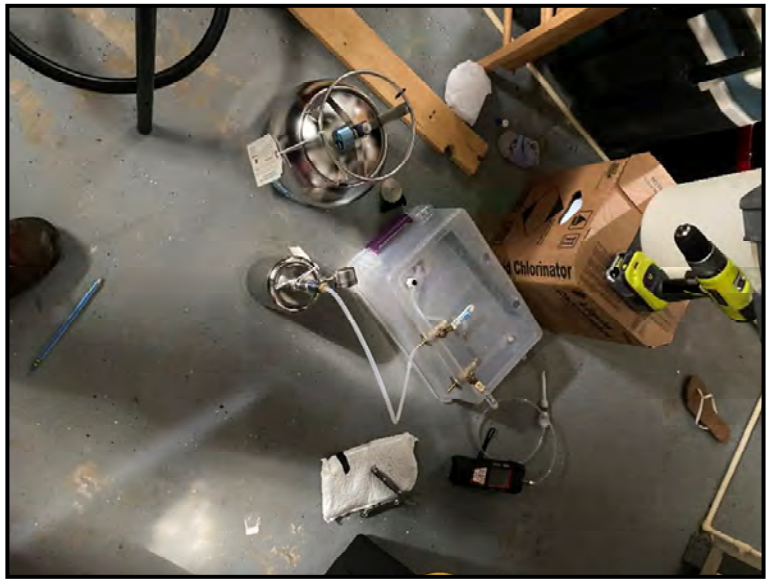
7 day ambient sampler location- 856 Mather basement



1 week flow controller

Sub-slab sample 856 Mather

Purging 856 Mather sub-slab



714 Lincoln sub-slab

7 day ambient air location - 714 Lincoln

ATTACHMENT C

DISPOSAL DOCUMENTATION

WASTE MANAGEMENT

Ridgeview RDF
6207 Hempton Lake Road
Whitelaw, WI, 54247
Ph:

Reprint
Ticket# 1222339

Customer Name	WMGRBYHLG WM GREEN BAY RO WI0	Carrier	WMGREENBAYHLG WM GREEN BAY HAULING
Ticket Date	05/22/2023	Vehicle#	414984
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000935
State Waste Code	A-24-33	Gen EPA ID	
Manifest	*		
Destination	SOUTH		
PO			
Profile	139119WI (CHLORINATED SOLVENT CONTAMINATED SOIL)		
Generator	136-VLSTRIPPING V AND L STRIPPING		

Volume

	Time	Scale	Operator	Inbound		
In	05/22/2023 11:20:44	Scale1	KN		Gross	58220 lb
Out	05/22/2023 11:43:37	Scale1	KN		Tare	36720 lb
					Net	21500 lb
					Tons	10.75

Comments

Hours of Operation: M-F 7:00-4:00 Saturday 7:00-12:00

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Dredged Sedi Soil-	100	10.75	Tons				

Total Tax
Total Ticket

DRIVER'S SIGNATURE

Ridgeview RDF
6207 Hempton Lake Road
Whitelaw, WI, 54247
Ph:

Reprint
Ticket# 1222543

Customer Name	WMGRBYHLG WM GREEN BAY RO WI0	Carrier	WMGREENBAYHLG WM GREEN BAY HAULING
Ticket Date	05/24/2023	Vehicle#	414984
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000935
State Waste Code	A-24-33	Gen EPA ID	
Manifest	*		
Destination	SOUTH		
PO			
Profile	139119WI (CHLORINATED SOLVENT CONTAMINATED SOIL)		
Generator	136-VLSTRIPPING V AND L STRIPPING		

Volume

	Time	Scale	Operator	Inbound		
In	05/24/2023 09:02:07	Scale1	ljohanek		Gross	58520 lb
Out	05/24/2023 09:17:06	Scale1	ljohanek		Tare	36400 lb
					Net	22120 lb
					Tons	11.06

Comments

Hours of Operation: M-F 7:00-4:00 Saturday 7:00-12:00

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Dredged Sedi Soil-	100	11.06	Tons				

Total Tax
Total Ticket

DRIVER'S SIGNATURE