LETTER OF TRANSMITTAL

Ramboll US Consulting, Inc.

234 West Florida Street, 5th Floor, Milwaukee, WI 53204

To: Mr. John Feeney
WDNR – Plymouth Service Center
1155 Pilgrim Road
Plymouth, WI 53073

Date: April 28, 2022 **Proj. No:** 1690004812

RE: BRRTS No. 02-46-248387
Former HVC, Inc. – Fredonia, Wisconsin

WE ARE SENDING YOU:

☒ Enclosed ☐ Under separate cover via _____the following items:

☒ Data ☐ Technical Paper ☐ Prints ☐ Plans
☐ Copy of Letter ☐ Samples ☐ Specifications ☐ Reports

COPIES	TYPE	DESCRIPTION
1	Electronic	Sample results from the groundwater hydropunch boring sampling activities completed at the site on March 29-30, 2022.

THESE ARE TRANSMITTED AS CHECKED BELOW:

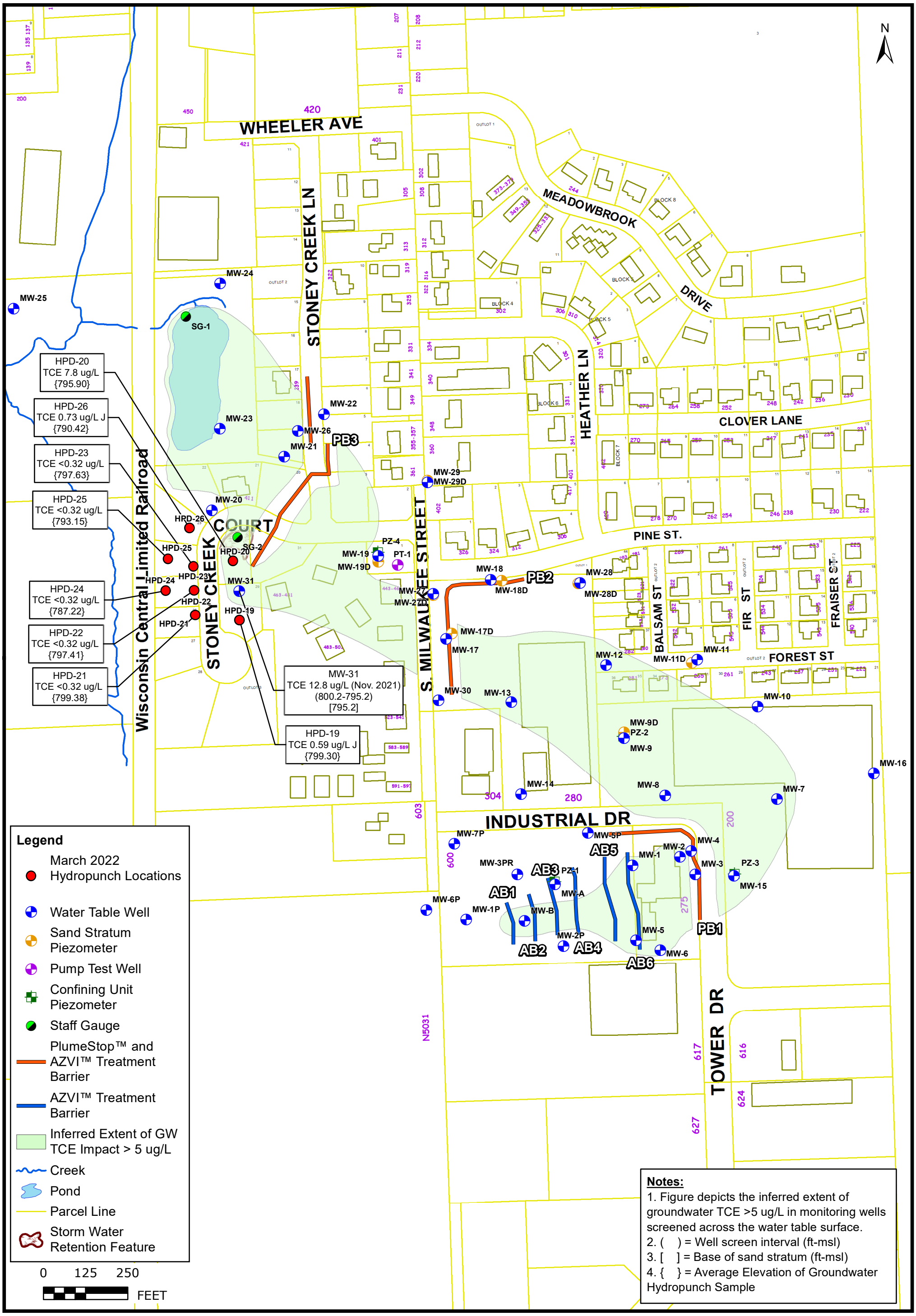
☐ For approval ☐ Approved as submitted ☐ Resubmit____copies for approval
☒ For your use ☐ Approved as noted ☐ Submit____copies for distribution
☐ As requested ☐ Returned for corrections ☐ Return____corrected prints
☐ For Review and Comment

REMARKS:

COPY TO:

FROM: Scott Tarmann, PE

If enclosures are not as noted, please notify us immediately.



Notes:

1. Figure depicts the inferred extent of groundwater TCE >5 ug/L in monitoring wells screened across the water table surface.
2. ( ) = Well screen interval (ft-msl)
3. [ ] = Base of sand stratum (ft-msl)
4. { } = Average Elevation of Groundwater Hydropunch Sample

RAMBOLL

DRAFTED BY: MJL | DATE: 4/15/2022

EXTENT OF TCE IMPACTS AND HYDROPUNCH LOCATIONS

FORMER HVC, INC.

FREDONIA, WISCONSIN

FIGURE **1**

1690004812

C:\Users\mlevenhagen\OneDrive - Ramboll\Desktop\GIS\Phillips\MXD\2022.02 Work Plan\Figure 1_Extent of TCE Impacts and Hydropunch Locations_Results_20220415.mxd

Table 1
Hydropunch Investigation
Groundwater Analytical Results
Phillips Medisize
Fredonia, Wisconsin
BRRTS No. 02-46-248387

Parameters	NR 140 Standards		HPD-19	HPD-20	HPD-21	HPD-22	HPD-23	HPD-24	HPD-25	HPD-26
	Sample Interval (ft bgs)		5 to 7	6 to 8	2 to 5	4 to 6	4 to 6	11 to 13	4 to 6	11 to 13
	ES	*PAL*	3/29/2022	3/30/2022	3/29/2022	3/29/2022	3/30/2022	3/30/2022	3/29/2022	3/30/2022
VOCs (µg/L)										
1,1-Dichloroethane	**850**	*85*	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,2-Dichloroethane	**5**	*0.5*	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29
1,1-Dichloroethene	**7**	*0.7*	<0.58	<0.58	<0.58	<0.58	<0.58	<0.58	<0.58	<0.58
cis-1,2-Dichloroethene	**70**	*7*	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47
trans-1,2-Dichloroethene	**100**	*20*	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53
Tetrachloroethene	**5**	*0.5*	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
1,1,1-Trichloroethane	**200**	*40*	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,1,2-Trichloroethane	**5**	*0.5*	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
Trichloroethene	**5**	*0.5*	*0.59* J	***7.8***	<0.32	<0.32	<0.32	<0.32	<0.32	*0.73* J
Vinyl chloride	**0.2**	*0.02*	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17

Notes:
VOCs = Volatile Organic Compounds
µg/L = micrograms per Liter
ES = Enforcement Standard
PAL = Preventive Action Limit
Bold value = NR 140 ES Exceedance
Italic value = NR 140 PAL Exceedance
-- No NR 140 ES or PAL established.
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

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

April 06, 2022

Scott Tarmann
Ramboll US Consulting, Inc.
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204

RE: Project: 1690004872.009 PHILLIPS
Pace Project No.: 40242653

Dear Scott Tarmann:

Enclosed are the analytical results for sample(s) received by the laboratory on March 31, 2022. 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,

Steven Mleczko
steve.mleczko@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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CERTIFICATIONS

Project: 1690004872.009 PHILLIPS
Pace Project No.: 40242653

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

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SAMPLE SUMMARY

Project: 1690004872.009 PHILLIPS
Pace Project No.: 40242653

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40242653001	**HPD-19 (5-7)**	Water	03/29/22 10:05	03/31/22 08:30
40242653002	**HPD-21 (2-5)**	Water	03/29/22 11:45	03/31/22 08:30
40242653003	**HPD-22 (4-6)**	Water	03/29/22 12:05	03/31/22 08:30
40242653004	**HPD-25 (4-6)**	Water	03/29/22 14:47	03/31/22 08:30
40242653005	**HPD-23 (4-6)**	Water	03/30/22 09:30	03/31/22 08:30
40242653006	**HPD-26 (11-13)**	Water	03/30/22 11:30	03/31/22 08:30
40242653007	**HPD-24 (11-13)**	Water	03/30/22 11:50	03/31/22 08:30
40242653008	**HPD-20 (6-8)**	Water	03/30/22 13:00	03/31/22 08:30
40242653009	**TRIP BLANK**	Water	03/30/22 00:00	03/31/22 08:30

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SAMPLE ANALYTE COUNT

Project: 1690004872.009 PHILLIPS
Pace Project No.: 40242653

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40242653001	**HPD-19 (5-7)**	EPA 8260	SMT	13
40242653002	**HPD-21 (2-5)**	EPA 8260	SMT	13
40242653003	**HPD-22 (4-6)**	EPA 8260	SMT	13
40242653004	**HPD-25 (4-6)**	EPA 8260	SMT	13
40242653005	**HPD-23 (4-6)**	EPA 8260	SMT	13
40242653006	**HPD-26 (11-13)**	EPA 8260	SMT	13
40242653007	**HPD-24 (11-13)**	EPA 8260	SMT	13
40242653008	**HPD-20 (6-8)**	EPA 8260	SMT	13
40242653009	**TRIP BLANK**	EPA 8260	SMT	13

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: 1690004872.009 PHILLIPS
Pace Project No.: 40242653

Sample: HPD-19 (5-7) **Lab ID: 40242653001** Collected: 03/29/22 10:05 Received: 03/31/22 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 13:02	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		04/04/22 13:02	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		04/04/22 13:02	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/04/22 13:02	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/04/22 13:02	156-60-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		04/04/22 13:02	127-18-4	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 13:02	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		04/04/22 13:02	79-00-5	
Trichloroethene	**0.59J**	ug/L	1.0	0.32	1		04/04/22 13:02	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/04/22 13:02	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		04/04/22 13:02	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		04/04/22 13:02	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		04/04/22 13:02	2037-26-5	

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ANALYTICAL RESULTS

Project: 1690004872.009 PHILLIPS
Pace Project No.: 40242653

Sample: HPD-21 (2-5) **Lab ID: 40242653002** Collected: 03/29/22 11:45 Received: 03/31/22 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 13:22	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		04/04/22 13:22	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		04/04/22 13:22	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/04/22 13:22	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/04/22 13:22	156-60-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		04/04/22 13:22	127-18-4	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 13:22	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		04/04/22 13:22	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/04/22 13:22	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/04/22 13:22	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		04/04/22 13:22	460-00-4	pH
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		04/04/22 13:22	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		04/04/22 13:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 1690004872.009 PHILLIPS
Pace Project No.: 40242653

Sample: HPD-22 (4-6) **Lab ID: 40242653003** Collected: 03/29/22 12:05 Received: 03/31/22 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 13:42	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		04/04/22 13:42	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		04/04/22 13:42	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/04/22 13:42	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/04/22 13:42	156-60-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		04/04/22 13:42	127-18-4	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 13:42	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		04/04/22 13:42	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/04/22 13:42	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/04/22 13:42	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		04/04/22 13:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		04/04/22 13:42	2199-69-1	
Toluene-d8 (S)	107	%	70-130		1		04/04/22 13:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 1690004872.009 PHILLIPS
Pace Project No.: 40242653

Sample: HPD-25 (4-6) **Lab ID: 40242653004** Collected: 03/29/22 14:47 Received: 03/31/22 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 14:01	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		04/04/22 14:01	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		04/04/22 14:01	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/04/22 14:01	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/04/22 14:01	156-60-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		04/04/22 14:01	127-18-4	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 14:01	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		04/04/22 14:01	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/04/22 14:01	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/04/22 14:01	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		04/04/22 14:01	460-00-4	pH
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		04/04/22 14:01	2199-69-1	
Toluene-d8 (S)	108	%	70-130		1		04/04/22 14:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 1690004872.009 PHILLIPS
Pace Project No.: 40242653

Sample: HPD-23 (4-6) **Lab ID: 40242653005** Collected: 03/30/22 09:30 Received: 03/31/22 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 14:21	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		04/04/22 14:21	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		04/04/22 14:21	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/04/22 14:21	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/04/22 14:21	156-60-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		04/04/22 14:21	127-18-4	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 14:21	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		04/04/22 14:21	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/04/22 14:21	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/04/22 14:21	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		04/04/22 14:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		04/04/22 14:21	2199-69-1	
Toluene-d8 (S)	104	%	70-130		1		04/04/22 14:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 1690004872.009 PHILLIPS
Pace Project No.: 40242653

Sample: HPD-26 (11-13) **Lab ID: 40242653006** Collected: 03/30/22 11:30 Received: 03/31/22 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 14:41	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		04/04/22 14:41	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		04/04/22 14:41	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/04/22 14:41	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/04/22 14:41	156-60-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		04/04/22 14:41	127-18-4	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 14:41	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		04/04/22 14:41	79-00-5	
Trichloroethene	**0.73J**	ug/L	1.0	0.32	1		04/04/22 14:41	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/04/22 14:41	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		04/04/22 14:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		04/04/22 14:41	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		04/04/22 14:41	2037-26-5	

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ANALYTICAL RESULTS

Project: 1690004872.009 PHILLIPS
Pace Project No.: 40242653

Sample: HPD-24 (11-13) **Lab ID: 40242653007** Collected: 03/30/22 11:50 Received: 03/31/22 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 15:00	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		04/04/22 15:00	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		04/04/22 15:00	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/04/22 15:00	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/04/22 15:00	156-60-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		04/04/22 15:00	127-18-4	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 15:00	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		04/04/22 15:00	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/04/22 15:00	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/04/22 15:00	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		04/04/22 15:00	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		04/04/22 15:00	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		04/04/22 15:00	2037-26-5	

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1690004872.009 PHILLIPS
Pace Project No.: 40242653

Sample: HPD-20 (6-8) **Lab ID: 40242653008** Collected: 03/30/22 13:00 Received: 03/31/22 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 15:27	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		04/04/22 15:27	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		04/04/22 15:27	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/04/22 15:27	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/04/22 15:27	156-60-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		04/04/22 15:27	127-18-4	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 15:27	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		04/04/22 15:27	79-00-5	
Trichloroethene	**7.8**	ug/L	1.0	0.32	1		04/04/22 15:27	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/04/22 15:27	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		04/04/22 15:27	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/04/22 15:27	2199-69-1	
Toluene-d8 (S)	105	%	70-130		1		04/04/22 15:27	2037-26-5	

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ANALYTICAL RESULTS

Project: 1690004872.009 PHILLIPS
Pace Project No.: 40242653

Sample: TRIP BLANK **Lab ID: 40242653009** Collected: 03/30/22 00:00 Received: 03/31/22 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 12:23	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		04/04/22 12:23	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		04/04/22 12:23	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/04/22 12:23	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/04/22 12:23	156-60-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		04/04/22 12:23	127-18-4	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		04/04/22 12:23	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		04/04/22 12:23	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/04/22 12:23	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/04/22 12:23	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		04/04/22 12:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		04/04/22 12:23	2199-69-1	
Toluene-d8 (S)	108	%	70-130		1		04/04/22 12:23	2037-26-5	

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QUALITY CONTROL DATA

Project: 1690004872.009 PHILLIPS
Pace Project No.: 40242653

QC Batch: 411950
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40242653001, 40242653002, 40242653003, 40242653004, 40242653005, 40242653006, 40242653007, 40242653008, 40242653009

METHOD BLANK: 2372362
Matrix: Water
Associated Lab Samples: 40242653001, 40242653002, 40242653003, 40242653004, 40242653005, 40242653006, 40242653007, 40242653008, 40242653009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	04/04/22 09:08	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	04/04/22 09:08	
1,1-Dichloroethane	ug/L	<0.30	1.0	04/04/22 09:08	
1,1-Dichloroethene	ug/L	<0.58	1.0	04/04/22 09:08	
1,2-Dichloroethane	ug/L	<0.29	1.0	04/04/22 09:08	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	04/04/22 09:08	
Tetrachloroethene	ug/L	<0.41	1.0	04/04/22 09:08	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	04/04/22 09:08	
Trichloroethene	ug/L	<0.32	1.0	04/04/22 09:08	
Vinyl chloride	ug/L	<0.17	1.0	04/04/22 09:08	
1,2-Dichlorobenzene-d4 (S)	%	99	70-130	04/04/22 09:08	
4-Bromofluorobenzene (S)	%	104	70-130	04/04/22 09:08	
Toluene-d8 (S)	%	105	70-130	04/04/22 09:08	

LABORATORY CONTROL SAMPLE: 2372363

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.6	103	70-130	
1,1,2-Trichloroethane	ug/L	50	49.6	99	70-130	
1,1-Dichloroethane	ug/L	50	50.4	101	68-132	
1,1-Dichloroethene	ug/L	50	48.3	97	85-126	
1,2-Dichloroethane	ug/L	50	48.7	97	70-130	
cis-1,2-Dichloroethene	ug/L	50	48.8	98	70-130	
Tetrachloroethene	ug/L	50	47.0	94	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.1	96	70-130	
Trichloroethene	ug/L	50	49.8	100	70-130	
Vinyl chloride	ug/L	50	52.8	106	63-142	
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2373422 2373423

Parameter	Units	40242607001 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	51.1	50.8	102	102	70-130	0	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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QUALITY CONTROL DATA

Project: 1690004872.009 PHILLIPS
Pace Project No.: 40242653

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2373422 2373423

Parameter	Units	40242607001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,2-Trichloroethane	ug/L	<0.34	50	50	48.6	48.9	97	98	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	49.9	50.3	100	101	68-132	1	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	48.6	47.6	97	95	76-132	2	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	46.8	49.4	94	99	70-130	5	20	
cis-1,2-Dichloroethene	ug/L	0.82J	50	50	50.5	49.3	99	97	70-130	2	20	
Tetrachloroethene	ug/L	<0.41	50	50	46.4	47.8	93	96	70-130	3	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	47.5	47.8	95	96	70-134	1	20	
Trichloroethene	ug/L	2.2	50	50	50.3	51.0	96	98	70-130	1	20	
Vinyl chloride	ug/L	<0.17	50	50	52.6	53.5	105	107	61-143	2	20	
1,2-Dichlorobenzene-d4 (S)	%						100	99	70-130			
4-Bromofluorobenzene (S)	%						106	106	70-130			
Toluene-d8 (S)	%						103	103	70-130			

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

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(920)469-2436

QUALIFIERS

Project: 1690004872.009 PHILLIPS
Pace Project No.: 40242653

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

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1690004872.009 PHILLIPS
Pace Project No.: 40242653

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40242653001	**HPD-19 (5-7)**	EPA 8260	411950		
40242653002	**HPD-21 (2-5)**	EPA 8260	411950		
40242653003	**HPD-22 (4-6)**	EPA 8260	411950		
40242653004	**HPD-25 (4-6)**	EPA 8260	411950		
40242653005	**HPD-23 (4-6)**	EPA 8260	411950		
40242653006	**HPD-26 (11-13)**	EPA 8260	411950		
40242653007	**HPD-24 (11-13)**	EPA 8260	411950		
40242653008	**HPD-20 (6-8)**	EPA 8260	411950		
40242653009	**TRIP BLANK**	EPA 8260	411950		

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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: 40242653

ALL SHADED AREAS are for LAB USE ONLY

Company: RAMBOLL

Billing Information: RAMBOLL, MICHELLE PETERS 234 W. FLORIDA ST. 5TH FLOO MILWAUKEE WI 53204

Address: 234 W. FLORIDA ST. 5TH FLOOR MILWAUKEE WI 53204

Report To: MICHELLE PETERS

Email To: MPETERS@RAMBOLL.COM

Copy To: KYLE HEIMSTEAD

Site Collection Info/Address:

Customer Project Name/Number: PHILLIPS / 1690004812-009

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

Phone: 262-901-0129

Email: KHEIMSTEAD@RAMBOLL.COM

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): KYLE HEIMSTEAD

Purchase Order #:

Quote #:

DW PWS ID #:

DW Location Code:

Collected By (signature):

Turnaround Date Required: 10 DAY

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: ____

* 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 **: 3

** 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: 8260B VOCs VTN

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	8260B VOCs VTN	Lab Sample # / Comments
HPD-19 (5-7)	GW	G	3/29/22	1005				3	X	001
HPD-21 (2-5)	GW	G	↓	1145				3	X	002
HPD-22 (4-6)	GW	G		1205				3	X	003
HPD-25 (4-6)	GW	G	↓	1447				3	X	004
HPD-23 (4-6)	GW	G	3/30/22	0930				3	X	005
HPD-26 (11-13)	GW	G	↓	1130				3	X	006
HPD-24 (4-6)	GW	G		1150				3	X	007
HPD-20 (6-8)	GW	G	↓	1300				3	X	008
TRIP BLANK	-	-	-	-				2	X	009

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: ____			

3/31/22

LAB USE ONLY: Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards: REPORT TARGET ANALYTES: TCE; PCE CIS-1,2-DCE; TRANS-1,2-DCE; VINYL CHLORIDE; 1,1-DCE; 1,1,1-TCA; 1,2-TCA; 1,1-DCA; 1,2-DCA

Type of Ice Used: Wet Blue Dry None

Packing Material Used: SEE SLIP 3/31/22

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

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

Lab Tracking #: 2763483

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: 22 SOLAR
Therm ID#: 3/31/22
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:
KYLE HEIMSTEAD / RAMBOLL	03/30/2022 1600		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
CS logistics	3/31/22 830	Mary [illegible]	3/31/22 830
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

Sample Preservation Receipt Form

Client Name: Rumbell

Project # 40247653

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	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN							
001																																	2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

3/31/22 4p

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

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

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

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

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

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Client Name: Ramboll

Project #:

WO# : 40242653

40242653

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

Cooler Temperature Uncorr: 5° /Corr: 5°

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

Person examining contents: Date: 3/31/22 /Initials: MP

Labeled By Initials: CM

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. +CC 3/31/22 MP
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No	5.
- VOA Samples frozen upon receipt	☐ Yes ☐ No	Date/Time:
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume: For Analysis: ☒ Yes ☐ No	MS/MSD: ☐ Yes ☒ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
-Pace IR Containers Used:	☐ Yes ☐ No ☒ N/A	
Containers Intact:	☒ Yes ☐ No	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☒ Yes ☐ No ☐ N/A	12.
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	13.
Trip Blank Custody Seals Present	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank Lot # (if purchased): 477		

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

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