RAMBOLL

ENVIRONMENT
& HEALTH

Ms. Melinda Dejewski
St. Francis City Hall
Engineering Department
3400 East Howard Avenue
St. Francis, WI 53235

GROUNDWATER RESULTS FOR MONITORING WELLS INSTALLED IN THE CITY RIGHT-OF-WAY AND UTILITY SOIL GAS RESULTS
SHUR-LINE/FORMER EZ PAINTR FACILITY
4051 SOUTH IOWA AVENUE, ST. FRANCIS, WISCONSIN
WDNR BRRTS NO. 02-41-183146

January 7, 2019

Ramboll
175 North Corporate Drive
Suite 160
Brookfield, WI 53045
USA

T +1 262 901 0099
F +1 262 901 0079
www.ramboll.com

Ref. 1690004991

Dear Ms. Dejewski:

Ramboll US Corporation (Ramboll), on behalf of Newell Operating Company (Newell), is providing the City of St. Francis (City) with the attached laboratory analytical results for groundwater samples collected on December 6, 2018, from monitoring wells MW-13 and MW-14 which are in the City right-of-way (ROW) along East Tesch Avenue. The wells were previously installed per the April 5, 2018 approved Petition for Special Privileges and the associated Street Opening Permits. Tabulated groundwater results are also attached for your reference. Low-level volatile organic compounds (VOCs) were only detected in the groundwater sample collected from MW-14. Monitoring well locations are illustrated on the attached figure.

Also attached are the analytical results for soil gas samples collected from two water valve locations along Tesch Avenue. Access to the water valves was obtained from the City of Milwaukee Water Works prior to performance of the sampling. Although some low-level VOCs were detected in each sample, none of the detected concentrations exceeded the most stringent Wisconsin Department of Natural Resources (WDNR) residential vapor risk screening levels. The tabulated analytical results and figure showing the sampling locations are attached for your reference.

If you have any questions or require additional information, please feel contact Susan Petrofske at the number listed below.

Yours sincerely,

Susan Petrofske
Managing Consultant

D 262 901 3501
spetrofske@ramboll.com

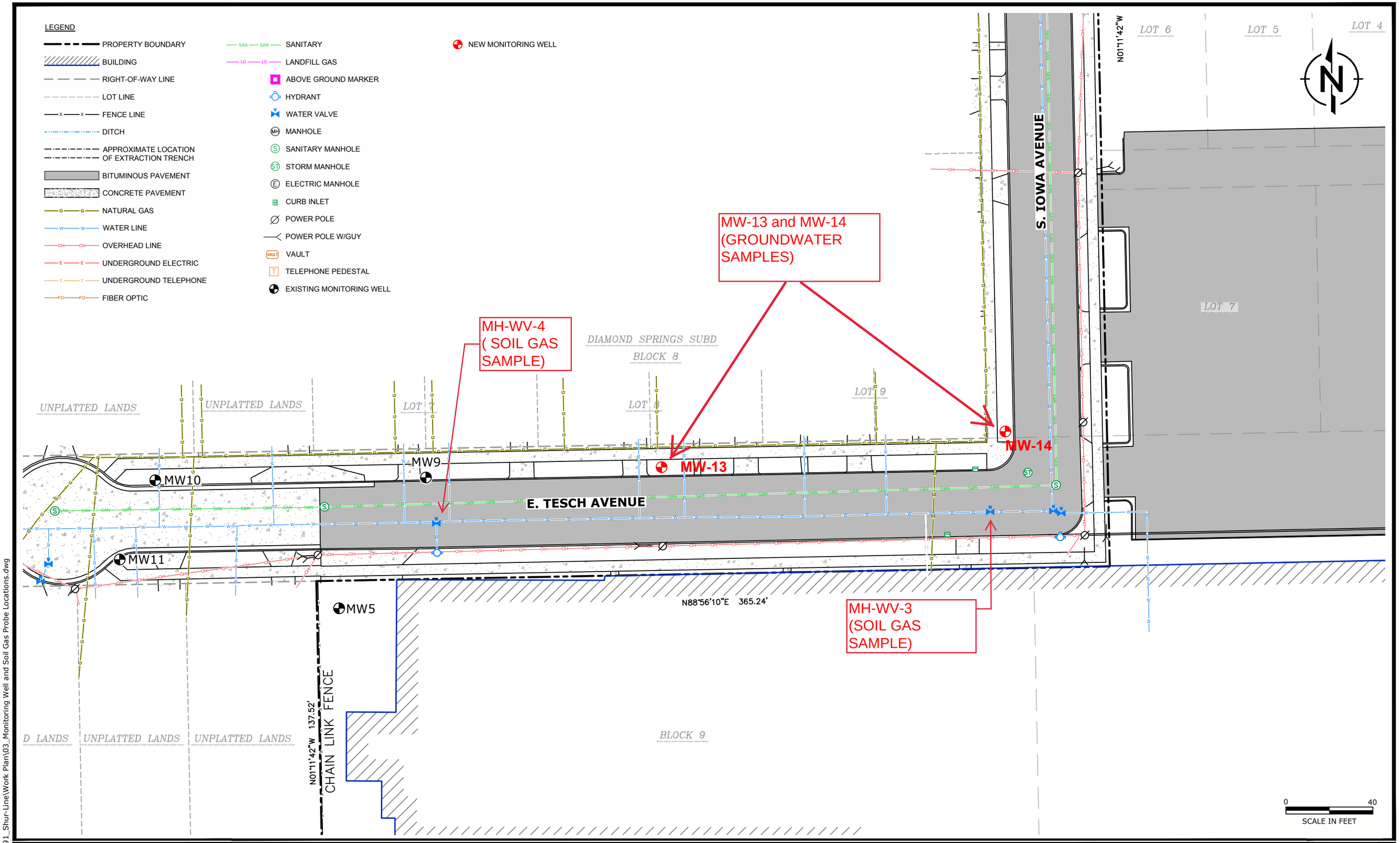
Jeanne M. Tarvin, PG, CPG
Managing Principal

D 262 901 0085
jtarvin@ramboll.com

cc: Kristin Jones, Newell (electronic copy)
Paul Grittner, WDNR (electronic copy)

ATTACHMENT 1

FIGURE 1 – DECEMBER 2018 SAMPLING LOCATIONS



K:\CAD\1690004991_Shur-Line\Work Plan\03_Monitoring Well and Soil Gas Probe Locations.dwg

RAMBOLL

DRAFTED BY: SMP

DATE: 12/27/18

DECEMBER 2018 SAMPLE LOCATIONS

SHUR-LINE
ST.FRANCIS, WISCONSIN

FIGURE
1

1690004991

ATTACHMENT 2

TABLE 1 – HISTORIC GROUNDWATER ANALYTICAL DATA (CITY ROW WELLS ONLY)

Table 1. Groundwater Analytical Data (City ROW Wells Only)
Shurline Facility
5031 South Iowa Avenue, St. Francis, WI
Ramboll Project No. 1690004991

	Parameters	Benzene	n-Butylbenzene	sec-Butylbenzene	MonoChlorobenzene	Chloroethane	Chloroform	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Methylene chloride	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	1,2,4-Trimethylbenzene[1]	1,3,5-Trimethylbenzene[1]	Vinyl chloride	Xylenes, total	Benzo[a]anthracene
CAS		71-43-2	104-51-8	135-98-8	108-90-7	75-00-3	67-66-3	95-50-1	541-73-1	106-46-7	75-71-8	75-34-3	75-35-4	156-59-2	156-60-5	100-41-4	75-09-2	91-20-3	103-65-1	127-18-4	108-88-3	71-55-6	79-01-6	95-63-6	108-67-8	75-01-4	1330-20-7	56-55-3
NR 140 ES Standard		5	--	--	100	400	6	600	600	75	1000	850	7	70	100	700	5	100	--	5	800	200	5	480	480	0.2	2000	--
NR 140 PAL Standard		0.5	--	--	20	80	0.6	60	120	15	200	85	0.7	7	20	140	0.5	10	--	0.5	160	40	0.5	96	96	0.02	400	--
MW-9	11/7/2016	<0.15	<0.39	<0.40	<0.39	<0.51	<0.37	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.41	<0.35	<0.18	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.16	<0.36	<0.25	<0.20	<0.22	N/A
	5/3/2017	<0.15	<0.39	<0.40	<0.39	<0.51	<0.37	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.41	<0.35	<0.18	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.16	<0.36	<0.25	<0.20	<0.22	N/A
	12/20/2017	<0.15	<0.39	<0.40	<0.39	<0.51	<0.37	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.41	<0.35	<0.18	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.16	<0.36	<0.25	<0.20	<0.22	N/A
	9/11/2018	<0.15	<0.39	<0.40	<0.39	<0.51	<0.37	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.41	<0.35	<0.18	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.16	<0.36	<0.25	<0.20	<0.22	N/A
MW-10	11/7/2016	<0.15	<0.39	<0.40	<0.39	<0.51	<0.37	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.41	<0.35	<0.18	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.16	<0.36	<0.25	<0.20	<0.22	N/A
	5/3/2017	<0.15	<0.39	<0.40	<0.39	<0.51	<0.37	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.41	<0.35	<0.18	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.16	<0.36	<0.25	<0.20	<0.22	N/A
	12/20/2017	<0.15	<0.39	<0.40	<0.39	<0.51	<0.37	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.41	<0.35	<0.18	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.16	<0.36	<0.25	<0.20	<0.22	N/A
	9/11/2018	<0.15	<0.39	<0.40	<0.39	<0.51	<0.37	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.41	<0.35	<0.18	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.16	<0.36	<0.25	<0.20	<0.22	N/A
MW-11	11/7/2016	<0.15	<0.39	<0.40	<0.39	<0.51	<0.37	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.41	<0.35	<0.18	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.16	<0.36	<0.25	<0.20	<0.22	N/A
	5/3/2017	<0.15	<0.39	<0.40	<0.39	<0.51	<0.37	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.41	<0.35	<0.18	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.16	<0.36	<0.25	<0.20	<0.22	N/A
	12/20/2017	<0.15	<0.39	<0.40	<0.39	<0.51	<0.37	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.41	<0.35	<0.18	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.16	<0.36	<0.25	<0.20	<0.22	N/A
	9/11/2018	<0.15	<0.39	<0.40	<0.39	<0.51	<0.37	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.41	<0.35	<0.18	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.16	<0.36	<0.25	<0.20	<0.22	N/A
MW-13	9/11/2018	<0.15	<0.39	<0.40	<0.39	<0.51	<0.37	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.41	<0.35	<0.18	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.16	<0.36	<0.25	<0.20	<0.22	N/A
	12/6/2018	<0.15	<0.39	<0.40	<0.39	<0.51	<0.37	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.41	<0.35	<0.18	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.16	<0.36	<0.25	<0.20	<0.22	N/A
MW-14	9/11/2018	<0.15	<0.39	<0.40	<0.39	<0.51	<0.37	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	**3.2**	<0.35	<0.18	<1.6	<0.34	<0.41	<0.37	<0.15	**1.1**	**26**	<0.36	<0.25	<0.20	<0.22	N/A
	12/6/2018	**0.34** J	<0.39	<0.40	**1.3**	<0.51	<0.37	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	**4.1**	<0.35	<0.18	<1.6	<0.34	<0.41	<0.37	<0.15	**0.90**	**22**	<0.36	<0.25	<0.20	<0.22	N/A

Notes:
VOCs = Volatile Organic Compounds
Groundwater concentrations are shown in micrograms per liter (ug/L).
Analytical results are displayed for detected parameters only.
Analytical results compared to the WDNR NR 140 groundwater quality standards published February 2017.
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.
N/A = Not analyzed

cn = The method blank associated with the samples did not detect methylene chloride. Since methylene chloride is a known lab contaminant and the results are just above the reporting limit, the results have been flagged for probable lab contamination.
J = Estimated concentration. Laboratory results reported between the method detection limit and limit of quantification.

ATTACHMENT 3

GROUNDWATER SAMPLE ANALYTICAL RESULTS

(EDITED FOR CITY ROW WELLS ONLY)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-155899-1
Client Project/Site: Shur-Line - 160004991

For:
Ramboll US Corporation
175 North Corporate Drive
Suite 160
Brookfield, Wisconsin 53045

Attn: Susan Petrofske

Authorized for release by:
12/24/2018 3:48:51 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Note: This lab report has been edited to only present soil sample results from collected within the City of St Francis right-of-way (MW-13, and MW-14)

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ramboll US Corporation
Project/Site: Shur-Line - 160004991

TestAmerica Job ID: 500-155899-1

Job ID: 500-155899-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-155899-1

Comments
No additional comments.

Receipt
The samples were received on 12/8/2018 12:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ramboll US Corporation
Project/Site: Shur-Line - 160004991

TestAmerica Job ID: 500-155899-1

Client Sample ID: MW-13 — Lab Sample ID: 500-155899-1

No Detections.

Client Sample ID: MW-14 — Lab Sample ID: 500-155899-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.90	J	1.0	0.38	ug/L	1		8260B	Total/NA
Benzene	0.34	J	0.50	0.15	ug/L	1		8260B	Total/NA
Chlorobenzene	1.3		1.0	0.39	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	4.1		1.0	0.41	ug/L	1		8260B	Total/NA
Trichloroethene	22		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-14 Dup — Lab Sample ID: 500-155899-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	0.33	J	1.0	0.33	ug/L	1		8260B	Total/NA
Benzene	0.53		0.50	0.15	ug/L	1		8260B	Total/NA
Chlorobenzene	2.0		1.0	0.39	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.5		1.0	0.41	ug/L	1		8260B	Total/NA
Trichloroethene	19		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-155899-5

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Ramboll US Corporation
Project/Site: Shur-Line - 160004991

TestAmerica Job ID: 500-155899-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ramboll US Corporation
Project/Site: Shur-Line - 160004991

TestAmerica Job ID: 500-155899-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-155899-1	MW-13	Water	12/06/18 10:15	12/08/18 12:10
500-155899-2	MW-14	Water	12/06/18 11:00	12/08/18 12:10
500-155899-3	MW-14 Dup	Water	12/06/18 11:00	12/08/18 12:10
500-155899-5	Trip Blank	Water	12/06/18 00:00	12/08/18 12:10

Client Sample Results

Client: Ramboll US Corporation
Project/Site: Shur-Line - 160004991

TestAmerica Job ID: 500-155899-1

Client Sample ID: MW-13

Date Collected: 12/06/18 10:15
Date Received: 12/08/18 12:10

Lab Sample ID: 500-155899-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/19/18 23:55	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/19/18 23:55	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/19/18 23:55	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/19/18 23:55	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/19/18 23:55	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/19/18 23:55	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/19/18 23:55	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/19/18 23:55	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/19/18 23:55	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/19/18 23:55	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/19/18 23:55	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/19/18 23:55	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/19/18 23:55	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/19/18 23:55	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/19/18 23:55	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/19/18 23:55	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/19/18 23:55	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/19/18 23:55	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/19/18 23:55	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/19/18 23:55	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/19/18 23:55	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/19/18 23:55	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/19/18 23:55	1
Benzene	<0.15		0.50	0.15	ug/L			12/19/18 23:55	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/19/18 23:55	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/19/18 23:55	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/19/18 23:55	1
Bromoform	<0.48		1.0	0.48	ug/L			12/19/18 23:55	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/19/18 23:55	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/19/18 23:55	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/19/18 23:55	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/19/18 23:55	1
Chloroform	<0.37		2.0	0.37	ug/L			12/19/18 23:55	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/19/18 23:55	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/19/18 23:55	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/19/18 23:55	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/19/18 23:55	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/19/18 23:55	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/19/18 23:55	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/19/18 23:55	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/19/18 23:55	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/19/18 23:55	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/19/18 23:55	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/19/18 23:55	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/19/18 23:55	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/19/18 23:55	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/19/18 23:55	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/19/18 23:55	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/19/18 23:55	1

Client Sample Results

Client: Ramboll US Corporation
Project/Site: Shur-Line - 160004991

TestAmerica Job ID: 500-155899-1

Client Sample ID: MW-13

Date Collected: 12/06/18 10:15
Date Received: 12/08/18 12:10

Lab Sample ID: 500-155899-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/19/18 23:55	1
Styrene	<0.39		1.0	0.39	ug/L			12/19/18 23:55	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/19/18 23:55	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/19/18 23:55	1
Toluene	<0.15		0.50	0.15	ug/L			12/19/18 23:55	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/19/18 23:55	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/19/18 23:55	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/19/18 23:55	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/19/18 23:55	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/19/18 23:55	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/19/18 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*12/19/18 23:55*	*1*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*12/19/18 23:55*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*12/19/18 23:55*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*12/19/18 23:55*	*1*

Client Sample Results

Client: Ramboll US Corporation
Project/Site: Shur-Line - 160004991

TestAmerica Job ID: 500-155899-1

Client Sample ID: MW-14

Date Collected: 12/06/18 11:00
Date Received: 12/08/18 12:10

Lab Sample ID: 500-155899-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/20/18 00:21	1
1,1,1-Trichloroethane	**0.90**	**J**	1.0	0.38	ug/L			12/20/18 00:21	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/20/18 00:21	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/20/18 00:21	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/20/18 00:21	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/20/18 00:21	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/20/18 00:21	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/20/18 00:21	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/20/18 00:21	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/20/18 00:21	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/20/18 00:21	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/20/18 00:21	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/20/18 00:21	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/20/18 00:21	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/20/18 00:21	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/20/18 00:21	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/20/18 00:21	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/20/18 00:21	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/20/18 00:21	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/20/18 00:21	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/20/18 00:21	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/20/18 00:21	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/20/18 00:21	1
Benzene	**0.34**	**J**	0.50	0.15	ug/L			12/20/18 00:21	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/20/18 00:21	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/20/18 00:21	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/20/18 00:21	1
Bromoform	<0.48		1.0	0.48	ug/L			12/20/18 00:21	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/20/18 00:21	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/20/18 00:21	1
Chlorobenzene	**1.3**		1.0	0.39	ug/L			12/20/18 00:21	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/20/18 00:21	1
Chloroform	<0.37		2.0	0.37	ug/L			12/20/18 00:21	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/20/18 00:21	1
cis-1,2-Dichloroethene	**4.1**		1.0	0.41	ug/L			12/20/18 00:21	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/20/18 00:21	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/20/18 00:21	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/20/18 00:21	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/20/18 00:21	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/20/18 00:21	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/20/18 00:21	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/20/18 00:21	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/20/18 00:21	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/20/18 00:21	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/20/18 00:21	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/20/18 00:21	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/20/18 00:21	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/20/18 00:21	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/20/18 00:21	1

Client Sample Results

Client: Ramboll US Corporation
Project/Site: Shur-Line - 160004991

TestAmerica Job ID: 500-155899-1

Client Sample ID: MW-14

Date Collected: 12/06/18 11:00
Date Received: 12/08/18 12:10

Lab Sample ID: 500-155899-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/20/18 00:21	1
Styrene	<0.39		1.0	0.39	ug/L			12/20/18 00:21	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/20/18 00:21	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/20/18 00:21	1
Toluene	<0.15		0.50	0.15	ug/L			12/20/18 00:21	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/20/18 00:21	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/20/18 00:21	1
Trichloroethene	**22**		0.50	0.16	ug/L			12/20/18 00:21	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/20/18 00:21	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/20/18 00:21	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/20/18 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*12/20/18 00:21*	*1*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*12/20/18 00:21*	*1*
Dibromofluoromethane	*97*		*75 - 120*		*12/20/18 00:21*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*12/20/18 00:21*	*1*

Client Sample Results

Client: Ramboll US Corporation
Project/Site: Shur-Line - 160004991

TestAmerica Job ID: 500-155899-1

Client Sample ID: MW-14 Dup

Date Collected: 12/06/18 11:00
Date Received: 12/08/18 12:10

Lab Sample ID: 500-155899-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/20/18 00:46	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/20/18 00:46	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/20/18 00:46	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/20/18 00:46	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/20/18 00:46	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/20/18 00:46	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/20/18 00:46	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/20/18 00:46	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/20/18 00:46	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/20/18 00:46	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/20/18 00:46	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/20/18 00:46	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/20/18 00:46	1
1,2-Dichlorobenzene	**0.33**	**J**	1.0	0.33	ug/L			12/20/18 00:46	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/20/18 00:46	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/20/18 00:46	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/20/18 00:46	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/20/18 00:46	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/20/18 00:46	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/20/18 00:46	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/20/18 00:46	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/20/18 00:46	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/20/18 00:46	1
Benzene	**0.53**		0.50	0.15	ug/L			12/20/18 00:46	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/20/18 00:46	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/20/18 00:46	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/20/18 00:46	1
Bromoform	<0.48		1.0	0.48	ug/L			12/20/18 00:46	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/20/18 00:46	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/20/18 00:46	1
Chlorobenzene	**2.0**		1.0	0.39	ug/L			12/20/18 00:46	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/20/18 00:46	1
Chloroform	<0.37		2.0	0.37	ug/L			12/20/18 00:46	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/20/18 00:46	1
cis-1,2-Dichloroethene	**3.5**		1.0	0.41	ug/L			12/20/18 00:46	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/20/18 00:46	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/20/18 00:46	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/20/18 00:46	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/20/18 00:46	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/20/18 00:46	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/20/18 00:46	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/20/18 00:46	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/20/18 00:46	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/20/18 00:46	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/20/18 00:46	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/20/18 00:46	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/20/18 00:46	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/20/18 00:46	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/20/18 00:46	1

Client Sample Results

Client: Ramboll US Corporation
Project/Site: Shur-Line - 160004991

TestAmerica Job ID: 500-155899-1

Client Sample ID: MW-14 Dup

Lab Sample ID: 500-155899-3

Date Collected: 12/06/18 11:00
Matrix: Water
Date Received: 12/08/18 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/20/18 00:46	1
Styrene	<0.39		1.0	0.39	ug/L			12/20/18 00:46	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/20/18 00:46	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/20/18 00:46	1
Toluene	<0.15		0.50	0.15	ug/L			12/20/18 00:46	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/20/18 00:46	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/20/18 00:46	1
Trichloroethene	**19**		0.50	0.16	ug/L			12/20/18 00:46	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/20/18 00:46	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/20/18 00:46	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/20/18 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*12/20/18 00:46*	*1*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*		*12/20/18 00:46*	*1*
Dibromofluoromethane	*97*		*75 - 120*		*12/20/18 00:46*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*12/20/18 00:46*	*1*

Client Sample Results

Client: Ramboll US Corporation
Project/Site: Shur-Line - 160004991

TestAmerica Job ID: 500-155899-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-155899-5

Date Collected: 12/06/18 00:00
Matrix: Water
Date Received: 12/08/18 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/19/18 23:30	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/19/18 23:30	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/19/18 23:30	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/19/18 23:30	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/19/18 23:30	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/19/18 23:30	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/19/18 23:30	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/19/18 23:30	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/19/18 23:30	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/19/18 23:30	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/19/18 23:30	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/19/18 23:30	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/19/18 23:30	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/19/18 23:30	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/19/18 23:30	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/19/18 23:30	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/19/18 23:30	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/19/18 23:30	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/19/18 23:30	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/19/18 23:30	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/19/18 23:30	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/19/18 23:30	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/19/18 23:30	1
Benzene	<0.15		0.50	0.15	ug/L			12/19/18 23:30	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/19/18 23:30	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/19/18 23:30	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/19/18 23:30	1
Bromoform	<0.48		1.0	0.48	ug/L			12/19/18 23:30	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/19/18 23:30	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/19/18 23:30	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/19/18 23:30	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/19/18 23:30	1
Chloroform	<0.37		2.0	0.37	ug/L			12/19/18 23:30	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/19/18 23:30	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/19/18 23:30	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/19/18 23:30	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/19/18 23:30	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/19/18 23:30	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/19/18 23:30	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/19/18 23:30	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/19/18 23:30	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/19/18 23:30	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/19/18 23:30	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/19/18 23:30	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/19/18 23:30	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/19/18 23:30	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/19/18 23:30	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/19/18 23:30	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/19/18 23:30	1

Client Sample Results

Client: Ramboll US Corporation
Project/Site: Shur-Line - 160004991

TestAmerica Job ID: 500-155899-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-155899-5

Date Collected: 12/06/18 00:00
Matrix: Water
Date Received: 12/08/18 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/19/18 23:30	1
Styrene	<0.39		1.0	0.39	ug/L			12/19/18 23:30	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/19/18 23:30	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/19/18 23:30	1
Toluene	<0.15		0.50	0.15	ug/L			12/19/18 23:30	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/19/18 23:30	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/19/18 23:30	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/19/18 23:30	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/19/18 23:30	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/19/18 23:30	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/19/18 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*12/19/18 23:30*	*1*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*12/19/18 23:30*	*1*
Dibromofluoromethane	*96*		*75 - 120*		*12/19/18 23:30*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*12/19/18 23:30*	*1*

Definitions/Glossary

Client: Ramboll US Corporation
Project/Site: Shur-Line - 160004991

TestAmerica Job ID: 500-155899-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: Ramboll US Corporation
Project/Site: Shur-Line - 160004991

TestAmerica Job ID: 500-155899-1

GC/MS VOA

Analysis Batch: 465516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-155899-1	MW-13	Total/NA	Water	8260B	
500-155899-2	MW-14	Total/NA	Water	8260B	
500-155899-3	MW-14 Dup	Total/NA	Water	8260B	
500-155899-5	Trip Blank	Total/NA	Water	8260B	
MB 500-465516/6	Method Blank	Total/NA	Water	8260B	
LCS 500-465516/4	Lab Control Sample	Total/NA	Water	8260B	
500-155899-1 MS	MW-13	Total/NA	Water	8260B	
500-155899-1 MSD	MW-13	Total/NA	Water	8260B	

Surrogate Summary

Client: Ramboll US Corporation
Project/Site: Shur-Line - 160004991

TestAmerica Job ID: 500-155899-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-155899-1	MW-13	96	94	95	99
500-155899-1 MS	MW-13	100	97	102	99
500-155899-1 MSD	MW-13	98	99	100	98
500-155899-2	MW-14	97	92	97	99
500-155899-3	MW-14 Dup	98	91	97	98
500-155899-5	Trip Blank	97	93	96	99
LCS 500-465516/4	Lab Control Sample	97	95	102	98
MB 500-465516/6	Method Blank	99	94	99	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-465516/6
Matrix: Water
Analysis Batch: 465516

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/19/18 22:39	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/19/18 22:39	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/19/18 22:39	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/19/18 22:39	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/19/18 22:39	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/19/18 22:39	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/19/18 22:39	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/19/18 22:39	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/19/18 22:39	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/19/18 22:39	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/19/18 22:39	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/19/18 22:39	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/19/18 22:39	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/19/18 22:39	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/19/18 22:39	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/19/18 22:39	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/19/18 22:39	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/19/18 22:39	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/19/18 22:39	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/19/18 22:39	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/19/18 22:39	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/19/18 22:39	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/19/18 22:39	1
Benzene	<0.15		0.50	0.15	ug/L			12/19/18 22:39	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/19/18 22:39	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/19/18 22:39	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/19/18 22:39	1
Bromoform	<0.48		1.0	0.48	ug/L			12/19/18 22:39	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/19/18 22:39	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/19/18 22:39	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/19/18 22:39	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/19/18 22:39	1
Chloroform	<0.37		2.0	0.37	ug/L			12/19/18 22:39	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/19/18 22:39	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/19/18 22:39	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/19/18 22:39	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/19/18 22:39	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/19/18 22:39	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/19/18 22:39	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/19/18 22:39	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/19/18 22:39	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/19/18 22:39	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/19/18 22:39	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/19/18 22:39	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/19/18 22:39	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/19/18 22:39	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/19/18 22:39	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/19/18 22:39	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-465516/6
Matrix: Water
Analysis Batch: 465516

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/19/18 22:39	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/19/18 22:39	1
Styrene	<0.39		1.0	0.39	ug/L			12/19/18 22:39	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/19/18 22:39	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/19/18 22:39	1
Toluene	<0.15		0.50	0.15	ug/L			12/19/18 22:39	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/19/18 22:39	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/19/18 22:39	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/19/18 22:39	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/19/18 22:39	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/19/18 22:39	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/19/18 22:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*12/19/18 22:39*	*1*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*12/19/18 22:39*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*12/19/18 22:39*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*12/19/18 22:39*	*1*

Lab Sample ID: LCS 500-465516/4
Matrix: Water
Analysis Batch: 465516

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	46.9		ug/L		94	70 - 125
1,1,1-Trichloroethane	50.0	42.6		ug/L		85	70 - 125
1,1,2,2-Tetrachloroethane	50.0	49.1		ug/L		98	62 - 140
1,1,2-Trichloroethane	50.0	50.1		ug/L		100	71 - 130
1,1-Dichloroethane	50.0	48.0		ug/L		96	70 - 125
1,1-Dichloroethene	50.0	47.4		ug/L		95	67 - 122
1,1-Dichloropropene	50.0	45.0		ug/L		90	70 - 121
1,2,3-Trichlorobenzene	50.0	46.4		ug/L		93	51 - 145
1,2,3-Trichloropropane	50.0	50.4		ug/L		101	50 - 133
1,2,4-Trichlorobenzene	50.0	44.2		ug/L		88	57 - 137
1,2,4-Trimethylbenzene	50.0	45.4		ug/L		91	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	38.0		ug/L		76	56 - 123
1,2-Dibromoethane	50.0	50.4		ug/L		101	70 - 125
1,2-Dichlorobenzene	50.0	49.6		ug/L		99	70 - 125
1,2-Dichloroethane	50.0	48.4		ug/L		97	68 - 127
1,2-Dichloropropane	50.0	51.1		ug/L		102	67 - 130
1,3,5-Trimethylbenzene	50.0	45.6		ug/L		91	70 - 123
1,3-Dichlorobenzene	50.0	47.5		ug/L		95	70 - 125
1,3-Dichloropropane	50.0	50.5		ug/L		101	62 - 136
1,4-Dichlorobenzene	50.0	47.2		ug/L		94	70 - 120
2,2-Dichloropropane	50.0	40.9		ug/L		82	58 - 139
2-Chlorotoluene	50.0	45.9		ug/L		92	70 - 125
4-Chlorotoluene	50.0	45.7		ug/L		91	68 - 124
Benzene	50.0	49.7		ug/L		99	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-465516/4
Matrix: Water
Analysis Batch: 465516

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	50.8		ug/L		102	70 - 122
Bromochloromethane	50.0	53.5		ug/L		107	65 - 122
Bromodichloromethane	50.0	45.0		ug/L		90	69 - 120
Bromoform	50.0	41.8		ug/L		84	56 - 132
Bromomethane	50.0	53.0		ug/L		106	40 - 152
Carbon tetrachloride	50.0	41.2		ug/L		82	59 - 133
Chlorobenzene	50.0	48.9		ug/L		98	70 - 120
Chloroethane	50.0	65.7		ug/L		131	48 - 136
Chloroform	50.0	47.7		ug/L		95	70 - 120
Chloromethane	50.0	54.7		ug/L		109	56 - 152
cis-1,2-Dichloroethene	50.0	50.4		ug/L		101	70 - 125
cis-1,3-Dichloropropene	50.0	45.8		ug/L		92	64 - 127
Dibromochloromethane	50.0	44.4		ug/L		89	68 - 125
Dibromomethane	50.0	50.7		ug/L		101	70 - 120
Dichlorodifluoromethane	50.0	55.9		ug/L		112	40 - 159
Ethylbenzene	50.0	44.7		ug/L		89	70 - 123
Hexachlorobutadiene	50.0	41.5		ug/L		83	51 - 150
Isopropylbenzene	50.0	45.4		ug/L		91	70 - 126
Methyl tert-butyl ether	50.0	48.4		ug/L		97	55 - 123
Methylene Chloride	50.0	50.7		ug/L		101	69 - 125
Naphthalene	50.0	47.4		ug/L		95	53 - 144
n-Butylbenzene	50.0	41.0		ug/L		82	68 - 125
N-Propylbenzene	50.0	44.6		ug/L		89	69 - 127
p-Isopropyltoluene	50.0	43.6		ug/L		87	70 - 125
sec-Butylbenzene	50.0	44.1		ug/L		88	70 - 123
Styrene	50.0	46.1		ug/L		92	70 - 120
tert-Butylbenzene	50.0	45.6		ug/L		91	70 - 121
Tetrachloroethene	50.0	45.3		ug/L		91	70 - 128
Toluene	50.0	45.3		ug/L		91	70 - 125
trans-1,2-Dichloroethene	50.0	48.7		ug/L		97	70 - 125
trans-1,3-Dichloropropene	50.0	44.4		ug/L		89	62 - 128
Trichloroethene	50.0	49.2		ug/L		98	70 - 125
Trichlorofluoromethane	50.0	44.0		ug/L		88	55 - 128
Vinyl chloride	50.0	43.8		ug/L		88	64 - 126
Xylenes, Total	100	96.3		ug/L		96	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*
Dibromofluoromethane	*102*		*75 - 120*
Toluene-d8 (Surr)	*98*		*75 - 120*

Lab Sample ID: 500-155899-1 MS
Matrix: Water
Analysis Batch: 465516

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<0.46		50.0	42.7		ug/L		85	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-155899-1 MS
Matrix: Water
Analysis Batch: 465516

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<0.38		50.0	39.1		ug/L		78	70 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	46.9		ug/L		94	62 - 140
1,1,2-Trichloroethane	<0.35		50.0	47.0		ug/L		94	71 - 130
1,1-Dichloroethane	<0.41		50.0	44.0		ug/L		88	70 - 125
1,1-Dichloroethene	<0.39		50.0	43.4		ug/L		87	67 - 122
1,1-Dichloropropene	<0.30		50.0	41.3		ug/L		83	70 - 121
1,2,3-Trichlorobenzene	<0.46		50.0	42.2		ug/L		84	51 - 145
1,2,3-Trichloropropane	<0.41		50.0	46.8		ug/L		94	50 - 133
1,2,4-Trichlorobenzene	<0.34		50.0	39.6		ug/L		79	57 - 137
1,2,4-Trimethylbenzene	<0.36		50.0	42.9		ug/L		86	70 - 123
1,2-Dibromo-3-Chloropropane	<2.0		50.0	34.0		ug/L		68	56 - 123
1,2-Dibromoethane	<0.39		50.0	46.4		ug/L		93	70 - 125
1,2-Dichlorobenzene	<0.33		50.0	46.5		ug/L		93	70 - 125
1,2-Dichloroethane	<0.39		50.0	45.5		ug/L		91	68 - 127
1,2-Dichloropropane	<0.43		50.0	46.7		ug/L		93	67 - 130
1,3,5-Trimethylbenzene	<0.25		50.0	43.1		ug/L		86	70 - 123
1,3-Dichlorobenzene	<0.40		50.0	44.3		ug/L		89	70 - 125
1,3-Dichloropropane	<0.36		50.0	46.5		ug/L		93	62 - 136
1,4-Dichlorobenzene	<0.36		50.0	44.2		ug/L		88	70 - 120
2,2-Dichloropropane	<0.44		50.0	35.5		ug/L		71	58 - 139
2-Chlorotoluene	<0.31		50.0	43.5		ug/L		87	70 - 125
4-Chlorotoluene	<0.35		50.0	43.3		ug/L		87	68 - 124
Benzene	<0.15		50.0	45.6		ug/L		91	70 - 120
Bromobenzene	<0.36		50.0	47.6		ug/L		95	70 - 122
Bromochloromethane	<0.43		50.0	48.3		ug/L		97	65 - 122
Bromodichloromethane	<0.37		50.0	41.2		ug/L		82	69 - 120
Bromoform	<0.48		50.0	36.1		ug/L		72	56 - 132
Bromomethane	<0.80		50.0	51.5		ug/L		103	40 - 152
Carbon tetrachloride	<0.38		50.0	37.9		ug/L		76	59 - 133
Chlorobenzene	<0.39		50.0	45.5		ug/L		91	70 - 120
Chloroethane	<0.51		50.0	55.3		ug/L		111	48 - 136
Chloroform	<0.37		50.0	44.1		ug/L		88	70 - 120
Chloromethane	<0.32		50.0	53.5		ug/L		107	56 - 152
cis-1,2-Dichloroethene	<0.41		50.0	46.2		ug/L		92	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	40.8		ug/L		82	64 - 127
Dibromochloromethane	<0.49		50.0	40.5		ug/L		81	68 - 125
Dibromomethane	<0.27		50.0	46.6		ug/L		93	70 - 120
Dichlorodifluoromethane	<0.67		50.0	56.0		ug/L		112	40 - 159
Ethylbenzene	<0.18		50.0	41.7		ug/L		83	70 - 123
Hexachlorobutadiene	<0.45		50.0	39.3		ug/L		79	51 - 150
Isopropylbenzene	<0.39		50.0	43.0		ug/L		86	70 - 126
Methyl tert-butyl ether	<0.39		50.0	43.1		ug/L		86	55 - 123
Methylene Chloride	<1.6		50.0	46.8		ug/L		94	69 - 125
Naphthalene	<0.34		50.0	43.5		ug/L		87	53 - 144
n-Butylbenzene	<0.39		50.0	39.1		ug/L		78	68 - 125
N-Propylbenzene	<0.41		50.0	41.8		ug/L		84	69 - 127
p-Isopropyltoluene	<0.36		50.0	41.6		ug/L		83	70 - 125
sec-Butylbenzene	<0.40		50.0	42.0		ug/L		84	70 - 123

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-155899-1 MS
Matrix: Water
Analysis Batch: 465516

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	<0.39		50.0	42.2		ug/L		84	70 - 120
tert-Butylbenzene	<0.40		50.0	43.5		ug/L		87	70 - 121
Tetrachloroethene	<0.37		50.0	41.6		ug/L		83	70 - 128
Toluene	<0.15		50.0	42.3		ug/L		85	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	44.5		ug/L		89	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	40.5		ug/L		81	62 - 128
Trichloroethene	<0.16		50.0	44.9		ug/L		90	70 - 125
Trichlorofluoromethane	<0.43		50.0	44.7		ug/L		89	55 - 128
Vinyl chloride	<0.20		50.0	41.6		ug/L		83	64 - 126
Xylenes, Total	<0.22		100	89.1		ug/L		89	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*
Dibromofluoromethane	*102*		*75 - 120*
Toluene-d8 (Surr)	*99*		*75 - 120*

Lab Sample ID: 500-155899-1 MSD
Matrix: Water
Analysis Batch: 465516

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.46		50.0	45.7		ug/L		91	70 - 125	7	20
1,1,1-Trichloroethane	<0.38		50.0	42.7		ug/L		85	70 - 125	9	20
1,1,2,2-Tetrachloroethane	<0.40		50.0	49.9		ug/L		100	62 - 140	6	20
1,1,2-Trichloroethane	<0.35		50.0	50.0		ug/L		100	71 - 130	6	20
1,1-Dichloroethane	<0.41		50.0	47.6		ug/L		95	70 - 125	8	20
1,1-Dichloroethene	<0.39		50.0	46.5		ug/L		93	67 - 122	7	20
1,1-Dichloropropene	<0.30		50.0	44.6		ug/L		89	70 - 121	8	20
1,2,3-Trichlorobenzene	<0.46		50.0	43.2		ug/L		86	51 - 145	2	20
1,2,3-Trichloropropane	<0.41		50.0	50.9		ug/L		102	50 - 133	8	20
1,2,4-Trichlorobenzene	<0.34		50.0	40.1		ug/L		80	57 - 137	1	20
1,2,4-Trimethylbenzene	<0.36		50.0	45.5		ug/L		91	70 - 123	6	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	35.4		ug/L		71	56 - 123	4	20
1,2-Dibromoethane	<0.39		50.0	50.3		ug/L		101	70 - 125	8	20
1,2-Dichlorobenzene	<0.33		50.0	49.0		ug/L		98	70 - 125	5	20
1,2-Dichloroethane	<0.39		50.0	48.5		ug/L		97	68 - 127	6	20
1,2-Dichloropropane	<0.43		50.0	52.0		ug/L		104	67 - 130	11	20
1,3,5-Trimethylbenzene	<0.25		50.0	45.7		ug/L		91	70 - 123	6	20
1,3-Dichlorobenzene	<0.40		50.0	48.0		ug/L		96	70 - 125	8	20
1,3-Dichloropropane	<0.36		50.0	50.8		ug/L		102	62 - 136	9	20
1,4-Dichlorobenzene	<0.36		50.0	47.5		ug/L		95	70 - 120	7	20
2,2-Dichloropropane	<0.44		50.0	38.5		ug/L		77	58 - 139	8	20
2-Chlorotoluene	<0.31		50.0	46.2		ug/L		92	70 - 125	6	20
4-Chlorotoluene	<0.35		50.0	46.6		ug/L		93	68 - 124	7	20
Benzene	<0.15		50.0	49.8		ug/L		100	70 - 120	9	20
Bromobenzene	<0.36		50.0	51.8		ug/L		104	70 - 122	8	20
Bromochloromethane	<0.43		50.0	51.7		ug/L		103	65 - 122	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-155899-1 MSD
Matrix: Water
Analysis Batch: 465516

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	<0.37		50.0	45.5		ug/L		91	69 - 120	10	20
Bromoform	<0.48		50.0	41.2		ug/L		82	56 - 132	13	20
Bromomethane	<0.80		50.0	51.5		ug/L		103	40 - 152	0	20
Carbon tetrachloride	<0.38		50.0	41.5		ug/L		83	59 - 133	9	20
Chlorobenzene	<0.39		50.0	49.0		ug/L		98	70 - 120	8	20
Chloroethane	<0.51		50.0	62.8		ug/L		126	48 - 136	13	20
Chloroform	<0.37		50.0	47.0		ug/L		94	70 - 120	7	20
Chloromethane	<0.32		50.0	54.9		ug/L		110	56 - 152	3	20
cis-1,2-Dichloroethene	<0.41		50.0	49.2		ug/L		98	70 - 125	6	20
cis-1,3-Dichloropropene	<0.42		50.0	44.8		ug/L		90	64 - 127	9	20
Dibromochloromethane	<0.49		50.0	44.3		ug/L		89	68 - 125	9	20
Dibromomethane	<0.27		50.0	50.5		ug/L		101	70 - 120	8	20
Dichlorodifluoromethane	<0.67		50.0	57.7		ug/L		115	40 - 159	3	20
Ethylbenzene	<0.18		50.0	45.2		ug/L		90	70 - 123	8	20
Hexachlorobutadiene	<0.45		50.0	40.5		ug/L		81	51 - 150	3	20
Isopropylbenzene	<0.39		50.0	46.2		ug/L		92	70 - 126	7	20
Methyl tert-butyl ether	<0.39		50.0	46.1		ug/L		92	55 - 123	7	20
Methylene Chloride	<1.6		50.0	49.4		ug/L		99	69 - 125	5	20
Naphthalene	<0.34		50.0	44.4		ug/L		89	53 - 144	2	20
n-Butylbenzene	<0.39		50.0	41.0		ug/L		82	68 - 125	5	20
N-Propylbenzene	<0.41		50.0	45.2		ug/L		90	69 - 127	8	20
p-Isopropyltoluene	<0.36		50.0	44.1		ug/L		88	70 - 125	6	20
sec-Butylbenzene	<0.40		50.0	44.8		ug/L		90	70 - 123	6	20
Styrene	<0.39		50.0	46.1		ug/L		92	70 - 120	9	20
tert-Butylbenzene	<0.40		50.0	46.3		ug/L		93	70 - 121	6	20
Tetrachloroethene	<0.37		50.0	44.7		ug/L		89	70 - 128	7	20
Toluene	<0.15		50.0	45.4		ug/L		91	70 - 125	7	20
trans-1,2-Dichloroethene	<0.35		50.0	47.7		ug/L		95	70 - 125	7	20
trans-1,3-Dichloropropene	<0.36		50.0	44.6		ug/L		89	62 - 128	10	20
Trichloroethene	<0.16		50.0	48.7		ug/L		97	70 - 125	8	20
Trichlorofluoromethane	<0.43		50.0	45.1		ug/L		90	55 - 128	1	20
Vinyl chloride	<0.20		50.0	43.3		ug/L		87	64 - 126	4	20
Xylenes, Total	<0.22		100	95.9		ug/L		96	70 - 125	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*98*		*75 - 120*

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Shur-Line - 160004991

TestAmerica Job ID: 500-155899-1

Client Sample ID: MW-13
Date Collected: 12/06/18 10:15
Date Received: 12/08/18 12:10

Lab Sample ID: 500-155899-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	465516	12/19/18 23:55	JJH	TAL CHI

Client Sample ID: MW-14
Date Collected: 12/06/18 11:00
Date Received: 12/08/18 12:10

Lab Sample ID: 500-155899-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	465516	12/20/18 00:21	JJH	TAL CHI

Client Sample ID: MW-14 Dup
Date Collected: 12/06/18 11:00
Date Received: 12/08/18 12:10

Lab Sample ID: 500-155899-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	465516	12/20/18 00:46	JJH	TAL CHI

Client Sample ID: Trip Blank
Date Collected: 12/06/18 00:00
Date Received: 12/08/18 12:10

Lab Sample ID: 500-155899-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	465516	12/19/18 23:30	JJH	TAL CHI

Laboratory References:
TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Ramboll US Corporation
Project/Site: Shur-Line - 160004991

TestAmerica Job ID: 500-155899-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534

500-155899 COC

(optional)
Report To
Contact: Susan Petrofske
Company: Rambull
Address: 175 N. Corporate Dr.
Address: Suite 160
Phone: 262-901-3501
Fax:
E-Mail: spetrofsk@rambull.com

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-155899
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 17-23.9

Client: Rambull
Client Project #: 1690004991
Project Name: Sinar-Line
Project Location/State: St. Francis, WI
Lab Project #:
Sampler: Tyler Burgett
Lab PM:

Preservative: HCL
Parameter: VOCs

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs	Comments
1		MW-13	12/4/18	1015	3	W	X	
2		MW-14	↓	1100	3	W	X	
3		MW-14 DUP	↓	1100	3	W	X	
5		Trip Blank	↓		1		X	
		Temp Blank			1			

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ✓ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Tyler Burgett	Rambull		1500	[signature]	TA	12-7-18	1500
[signature]	TA	12-7-18	1700	[signature]	TA-CHI	12/8/18	1210

Lab Courier
Shipped: Fed X
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-155899-1

Login Number: 155899
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT 4

TABLE 2 – WATER UTILITY VAPOR ANALYTICAL DATA

Table 2. Water Utility Vapor Analytical Results
Shur-Line Facility
4061 South Iowa Avenue, St. Francis, Wisconsin

Parameters		Residential				MH-WV-3	MH-WV-4
		Standards for Carcinogenic VOCs		Standards for Non-Carcinogenic VOCs			
Analyte (µg/m^3)(1)	**CAS No.**	Indoor Air VAL (1 E -5)	**Sub-Slab Vapor VRSL (33.3 x)(2)**	Indoor Air VAL (HI = 1)	**Sub-Slab Vapor VRSL (33.3 x)(2)**	12/6/2018	12/6/2018
Acetone	67-64-1	--	--	32000	**1100000**	4.8	13.6
Benzene	71-43-2	3.6	**120**	31	1000	0.3 J	0.29 J
Chloromethane	74-87-3	--	**--**	94	**3100**	0.44 J	0.66
Dichlorodifluoromethane	75-71-8	--	**--**	100	**3300**	1.9	1.9
Dichloroethylene, 1,2-cis-	156-59-2	--	**--**	--	**--**	<0.33	<0.32
Ethanol	64-17-5	--	**--**	--	**--**	4.4	2.5 J
Hexane, N-	110-54-3	--	**--**	730	**24000**	4.4	1.2
Isopropanol	67-63-0	--	**--**	210	**7000**	<1.1	1.1 J
Methyl Ethyl Ketone (2-Butanone)	78-93-3	--	**--**	5200	**170000**	0.86 J	6.8
Methylene Chloride	75-09-2	1000	33000	630	**21000**	3.3 J	2.4 J
Toluene	108-88-3	--	**--**	5200	**170000**	0.71 J	0.98 J
Trichloroethylene	79-01-6	4.8	160	2.1	**70**	<0.39	<0.37
Vinyl Chloride	75-01-4	1.7	**57**	100	3300	<0.19	<0.18
Xylenes, m&p	179601-23-1	--	**--**	100	**3300**	<1.1	1.2 J

Notes:

Standards based on November 2018 USEPA Regional Screening Level (RSL) Tables.

Samples analyzed using USEPA Method TO-15. Only detected compounds and site specific target analytes are listed.

µg/m^3 = Microgram per cubic meter

VAL= Indoor Air Vapor Action Level

VRSL = Vapor Risk Screening Level

(1) For parameters with both carcinogenic and non-carcinogenic indoor air VALs, results are compared to the most conservative sub-slab vapor VRSL displayed in **bold** font.

(2) The USEPA RSL Basis indicates whether the carcinogenic (c) or non-carcinogenic (nc) indoor air VAL is most stringent.

A = Exceeds Residential VRSL

B = Exceeds Small Commercial VRSL

C = Exceeds Large Commercial/Industrial VRSL

J = Estimated concentration at or above the level of detection (LOD) and below the level of quantification (LOQ).

-- No RSL established.

ATTACHMENT 5

WATER UTILITY VAPOR SAMPLE ANALYTICAL RESULTS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

December 11, 2018

Susan Petrofske
Ramboll Environ
175 North Corporate Drive
Suite 160
Brookfield, WI 53045

RE: Project: 1690004991 Shur-Line
Pace Project No.: 10457974

Dear Susan Petrofske:
Enclosed are the analytical results for sample(s) received by the laboratory on December 07, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: Jon Fuqua, Ramboll
Kelly Otis, Ramboll Environ - WI

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 1690004991 Shur-Line
Pace Project No.: 10457974

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 1690004991 Shur-Line
Pace Project No.: 10457974

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10457974001	**MH-WV-4**	Air	12/06/18 14:23	12/07/18 11:45
10457974002	**MH-WV-4 CERT 0628**	Air	12/06/18 14:23	12/07/18 11:45
10457974003	**MH-WV-3**	Air	12/06/18 14:36	12/07/18 11:45
10457974004	**MH-WV-3 CERT 0428**	Air	12/06/18 14:36	12/07/18 11:45

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Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 1690004991 Shur-Line
Pace Project No.: 10457974

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457974001	**MH-WV-4**	TO-15	CH1	61
10457974002	**MH-WV-4 CERT 0628**	TO-15	MJL	61
10457974003	**MH-WV-3**	TO-15	CH1	61
10457974004	**MH-WV-3 CERT 0428**	TO-15	CH1	61

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 1690004991 Shur-Line
Pace Project No.: 10457974

Sample: MH-WV-4 **Lab ID: 10457974001** Collected: 12/06/18 14:23 Received: 12/07/18 11:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**13.6**	ug/m3	3.5	1.7	1.44		12/10/18 17:20	67-64-1	
Benzene	**0.29J**	ug/m3	0.47	0.22	1.44		12/10/18 17:20	71-43-2	
Benzyl chloride	**<1.7**	ug/m3	3.8	1.7	1.44		12/10/18 17:20	100-44-7	
Bromodichloromethane	**<0.53**	ug/m3	2.0	0.53	1.44		12/10/18 17:20	75-27-4	
Bromoform	**<2.0**	ug/m3	7.6	2.0	1.44		12/10/18 17:20	75-25-2	
Bromomethane	**<0.33**	ug/m3	1.1	0.33	1.44		12/10/18 17:20	74-83-9	
1,3-Butadiene	**<0.18**	ug/m3	0.65	0.18	1.44		12/10/18 17:20	106-99-0	
2-Butanone (MEK)	**6.8**	ug/m3	4.3	0.53	1.44		12/10/18 17:20	78-93-3	
Carbon disulfide	**<0.32**	ug/m3	0.91	0.32	1.44		12/10/18 17:20	75-15-0	
Carbon tetrachloride	**<0.62**	ug/m3	1.8	0.62	1.44		12/10/18 17:20	56-23-5	
Chlorobenzene	**<0.40**	ug/m3	1.3	0.40	1.44		12/10/18 17:20	108-90-7	
Chloroethane	**<0.37**	ug/m3	0.77	0.37	1.44		12/10/18 17:20	75-00-3	
Chloroform	**<0.28**	ug/m3	0.71	0.28	1.44		12/10/18 17:20	67-66-3	
Chloromethane	**0.66**	ug/m3	0.60	0.22	1.44		12/10/18 17:20	74-87-3	
Cyclohexane	**<0.51**	ug/m3	2.5	0.51	1.44		12/10/18 17:20	110-82-7	
Dibromochloromethane	**<1.0**	ug/m3	2.5	1.0	1.44		12/10/18 17:20	124-48-1	
1,2-Dibromoethane (EDB)	**<0.53**	ug/m3	1.1	0.53	1.44		12/10/18 17:20	106-93-4	
1,2-Dichlorobenzene	**<0.72**	ug/m3	1.8	0.72	1.44		12/10/18 17:20	95-50-1	
1,3-Dichlorobenzene	**<0.84**	ug/m3	1.8	0.84	1.44		12/10/18 17:20	541-73-1	
1,4-Dichlorobenzene	**<1.4**	ug/m3	4.4	1.4	1.44		12/10/18 17:20	106-46-7	
Dichlorodifluoromethane	**1.9**	ug/m3	1.5	0.42	1.44		12/10/18 17:20	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/m3	1.2	0.32	1.44		12/10/18 17:20	75-34-3	
1,2-Dichloroethane	**<0.22**	ug/m3	0.59	0.22	1.44		12/10/18 17:20	107-06-2	
1,1-Dichloroethene	**<0.39**	ug/m3	1.2	0.39	1.44		12/10/18 17:20	75-35-4	
cis-1,2-Dichloroethene	**<0.32**	ug/m3	1.2	0.32	1.44		12/10/18 17:20	156-59-2	
trans-1,2-Dichloroethene	**<0.41**	ug/m3	1.2	0.41	1.44		12/10/18 17:20	156-60-5	
1,2-Dichloropropane	**<0.33**	ug/m3	1.4	0.33	1.44		12/10/18 17:20	78-87-5	
cis-1,3-Dichloropropene	**<0.44**	ug/m3	1.3	0.44	1.44		12/10/18 17:20	10061-01-5	
trans-1,3-Dichloropropene	**<0.63**	ug/m3	1.3	0.63	1.44		12/10/18 17:20	10061-02-6	
Dichlorotetrafluoroethane	**<0.63**	ug/m3	2.0	0.63	1.44		12/10/18 17:20	76-14-2	
Ethanol	**2.5J**	ug/m3	2.8	1.2	1.44		12/10/18 17:20	64-17-5	
Ethyl acetate	**<0.27**	ug/m3	1.1	0.27	1.44		12/10/18 17:20	141-78-6	
Ethylbenzene	**<0.44**	ug/m3	1.3	0.44	1.44		12/10/18 17:20	100-41-4	
4-Ethyltoluene	**<0.82**	ug/m3	3.6	0.82	1.44		12/10/18 17:20	622-96-8	
n-Heptane	**<0.55**	ug/m3	1.2	0.55	1.44		12/10/18 17:20	142-82-5	
Hexachloro-1,3-butadiene	**<2.8**	ug/m3	7.8	2.8	1.44		12/10/18 17:20	87-68-3	
n-Hexane	**1.2**	ug/m3	1.0	0.45	1.44		12/10/18 17:20	110-54-3	
2-Hexanone	**<1.1**	ug/m3	6.0	1.1	1.44		12/10/18 17:20	591-78-6	
Methylene Chloride	**2.4J**	ug/m3	5.1	1.4	1.44		12/10/18 17:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.75**	ug/m3	6.0	0.75	1.44		12/10/18 17:20	108-10-1	
Methyl-tert-butyl ether	**<0.95**	ug/m3	5.3	0.95	1.44		12/10/18 17:20	1634-04-4	
Naphthalene	**<1.9**	ug/m3	3.8	1.9	1.44		12/10/18 17:20	91-20-3	
2-Propanol	**1.1J**	ug/m3	3.6	1.0	1.44		12/10/18 17:20	67-63-0	
Propylene	**<0.21**	ug/m3	0.50	0.21	1.44		12/10/18 17:20	115-07-1	
Styrene	**<0.50**	ug/m3	1.2	0.50	1.44		12/10/18 17:20	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.42**	ug/m3	1.0	0.42	1.44		12/10/18 17:20	79-34-5	

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(612)607-1700

ANALYTICAL RESULTS

Project: 1690004991 Shur-Line
Pace Project No.: 10457974

Sample: MH-WV-4 **Lab ID: 10457974001** Collected: 12/06/18 14:23 Received: 12/07/18 11:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**<0.45**	ug/m3	0.99	0.45	1.44		12/10/18 17:20	127-18-4	
Tetrahydrofuran	**<0.38**	ug/m3	0.86	0.38	1.44		12/10/18 17:20	109-99-9	
Toluene	**0.98J**	ug/m3	1.1	0.51	1.44		12/10/18 17:20	108-88-3	
1,2,4-Trichlorobenzene	**<5.4**	ug/m3	10.9	5.4	1.44		12/10/18 17:20	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/m3	1.6	0.44	1.44		12/10/18 17:20	71-55-6	
1,1,2-Trichloroethane	**<0.36**	ug/m3	0.80	0.36	1.44		12/10/18 17:20	79-00-5	
Trichloroethene	**<0.37**	ug/m3	0.79	0.37	1.44		12/10/18 17:20	79-01-6	
Trichlorofluoromethane	**<0.53**	ug/m3	1.6	0.53	1.44		12/10/18 17:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.81**	ug/m3	2.2	0.81	1.44		12/10/18 17:20	76-13-1	
1,2,4-Trimethylbenzene	**<0.65**	ug/m3	1.4	0.65	1.44		12/10/18 17:20	95-63-6	
1,3,5-Trimethylbenzene	**<0.57**	ug/m3	1.4	0.57	1.44		12/10/18 17:20	108-67-8	
Vinyl acetate	**<0.39**	ug/m3	1.0	0.39	1.44		12/10/18 17:20	108-05-4	
Vinyl chloride	**<0.18**	ug/m3	0.37	0.18	1.44		12/10/18 17:20	75-01-4	
m&p-Xylene	**1.2J**	ug/m3	2.5	1.0	1.44		12/10/18 17:20	179601-23-1	
o-Xylene	**<0.50**	ug/m3	1.3	0.50	1.44		12/10/18 17:20	95-47-6	

Sample: MH-WV-4 CERT 0628 **Lab ID: 10457974002** Collected: 12/06/18 14:23 Received: 12/07/18 11:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	**<0.60**	ug/m3	1.2	0.60	0.5		08/25/18 15:51	67-64-1	
Benzene	**<0.076**	ug/m3	0.16	0.076	0.5		08/25/18 15:51	71-43-2	
Benzyl chloride	**<0.60**	ug/m3	1.3	0.60	0.5		08/25/18 15:51	100-44-7	
Bromodichloromethane	**<0.18**	ug/m3	0.68	0.18	0.5		08/25/18 15:51	75-27-4	
Bromoform	**<0.71**	ug/m3	2.6	0.71	0.5		08/25/18 15:51	75-25-2	
Bromomethane	**<0.11**	ug/m3	0.39	0.11	0.5		08/25/18 15:51	74-83-9	
1,3-Butadiene	**<0.064**	ug/m3	0.22	0.064	0.5		08/25/18 15:51	106-99-0	
2-Butanone (MEK)	**<0.18**	ug/m3	1.5	0.18	0.5		08/25/18 15:51	78-93-3	
Carbon disulfide	**<0.11**	ug/m3	0.32	0.11	0.5		08/25/18 15:51	75-15-0	
Carbon tetrachloride	**<0.21**	ug/m3	0.64	0.21	0.5		08/25/18 15:51	56-23-5	
Chlorobenzene	**<0.14**	ug/m3	0.47	0.14	0.5		08/25/18 15:51	108-90-7	
Chloroethane	**<0.13**	ug/m3	0.27	0.13	0.5		08/25/18 15:51	75-00-3	
Chloroform	**<0.098**	ug/m3	0.25	0.098	0.5		08/25/18 15:51	67-66-3	
Chloromethane	**<0.078**	ug/m3	0.21	0.078	0.5		08/25/18 15:51	74-87-3	
Cyclohexane	**<0.18**	ug/m3	0.88	0.18	0.5		08/25/18 15:51	110-82-7	
Dibromochloromethane	**<0.36**	ug/m3	0.86	0.36	0.5		08/25/18 15:51	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/m3	0.39	0.18	0.5		08/25/18 15:51	106-93-4	
1,2-Dichlorobenzene	**<0.25**	ug/m3	0.61	0.25	0.5		08/25/18 15:51	95-50-1	
1,3-Dichlorobenzene	**<0.29**	ug/m3	0.61	0.29	0.5		08/25/18 15:51	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/m3	1.5	0.50	0.5		08/25/18 15:51	106-46-7	
Dichlorodifluoromethane	**<0.15**	ug/m3	0.50	0.15	0.5		08/25/18 15:51	75-71-8	
1,1-Dichloroethane	**<0.11**	ug/m3	0.41	0.11	0.5		08/25/18 15:51	75-34-3	
1,2-Dichloroethane	**<0.075**	ug/m3	0.21	0.075	0.5		08/25/18 15:51	107-06-2	

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ANALYTICAL RESULTS

Project: 1690004991 Shur-Line
Pace Project No.: 10457974

Sample: MH-WV-4 CERT 0628 **Lab ID: 10457974002** Collected: 12/06/18 14:23 Received: 12/07/18 11:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.14**	ug/m3	0.40	0.14	0.5		08/25/18 15:51	75-35-4	
cis-1,2-Dichloroethene	**<0.11**	ug/m3	0.40	0.11	0.5		08/25/18 15:51	156-59-2	
trans-1,2-Dichloroethene	**<0.14**	ug/m3	0.40	0.14	0.5		08/25/18 15:51	156-60-5	
1,2-Dichloropropane	**<0.12**	ug/m3	0.47	0.12	0.5		08/25/18 15:51	78-87-5	
cis-1,3-Dichloropropene	**<0.15**	ug/m3	0.46	0.15	0.5		08/25/18 15:51	10061-01-5	
trans-1,3-Dichloropropene	**<0.22**	ug/m3	0.46	0.22	0.5		08/25/18 15:51	10061-02-6	
Dichlorotetrafluoroethane	**<0.22**	ug/m3	0.71	0.22	0.5		08/25/18 15:51	76-14-2	
Ethanol	**<0.41**	ug/m3	0.96	0.41	0.5		08/25/18 15:51	64-17-5	
Ethyl acetate	**<0.095**	ug/m3	0.37	0.095	0.5		08/25/18 15:51	141-78-6	
Ethylbenzene	**<0.15**	ug/m3	0.44	0.15	0.5		08/25/18 15:51	100-41-4	
4-Ethyltoluene	**<0.28**	ug/m3	1.2	0.28	0.5		08/25/18 15:51	622-96-8	
n-Heptane	**<0.19**	ug/m3	0.42	0.19	0.5		08/25/18 15:51	142-82-5	
Hexachloro-1,3-butadiene	**<0.98**	ug/m3	2.7	0.98	0.5		08/25/18 15:51	87-68-3	
n-Hexane	**<0.16**	ug/m3	0.36	0.16	0.5		08/25/18 15:51	110-54-3	
2-Hexanone	**<0.37**	ug/m3	2.1	0.37	0.5		08/25/18 15:51	591-78-6	
Methylene Chloride	**<0.47**	ug/m3	1.8	0.47	0.5		08/25/18 15:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.26**	ug/m3	2.1	0.26	0.5		08/25/18 15:51	108-10-1	
Methyl-tert-butyl ether	**<0.33**	ug/m3	1.8	0.33	0.5		08/25/18 15:51	1634-04-4	
Naphthalene	**<0.66**	ug/m3	1.3	0.66	0.5		08/25/18 15:51	91-20-3	
2-Propanol	**<0.35**	ug/m3	1.2	0.35	0.5		08/25/18 15:51	67-63-0	
Propylene	**<0.072**	ug/m3	0.18	0.072	0.5		08/25/18 15:51	115-07-1	
Styrene	**<0.17**	ug/m3	0.43	0.17	0.5		08/25/18 15:51	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.15**	ug/m3	0.70	0.15	0.5		08/25/18 15:51	79-34-5	
Tetrachloroethene	**<0.16**	ug/m3	0.34	0.16	0.5		08/25/18 15:51	127-18-4	
Tetrahydrofuran	**<0.13**	ug/m3	0.30	0.13	0.5		08/25/18 15:51	109-99-9	
Toluene	**<0.18**	ug/m3	0.38	0.18	0.5		08/25/18 15:51	108-88-3	
1,2,4-Trichlorobenzene	**<1.9**	ug/m3	3.8	1.9	0.5		08/25/18 15:51	120-82-1	
1,1,1-Trichloroethane	**<0.15**	ug/m3	0.56	0.15	0.5		08/25/18 15:51	71-55-6	
1,1,2-Trichloroethane	**<0.12**	ug/m3	0.28	0.12	0.5		08/25/18 15:51	79-00-5	
Trichloroethene	**<0.13**	ug/m3	0.27	0.13	0.5		08/25/18 15:51	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/m3	0.57	0.18	0.5		08/25/18 15:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.28**	ug/m3	0.78	0.28	0.5		08/25/18 15:51	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	0.50	0.23	0.5		08/25/18 15:51	95-63-6	
1,3,5-Trimethylbenzene	**<0.20**	ug/m3	0.50	0.20	0.5		08/25/18 15:51	108-67-8	
Vinyl acetate	**<0.14**	ug/m3	0.36	0.14	0.5		08/25/18 15:51	108-05-4	
Vinyl chloride	**<0.063**	ug/m3	0.13	0.063	0.5		08/25/18 15:51	75-01-4	
m&p-Xylene	**<0.35**	ug/m3	0.88	0.35	0.5		08/25/18 15:51	179601-23-1	
o-Xylene	**<0.17**	ug/m3	0.44	0.17	0.5		08/25/18 15:51	95-47-6	

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ANALYTICAL RESULTS

Project: 1690004991 Shur-Line
Pace Project No.: 10457974

Sample: MH-WV-3 **Lab ID: 10457974003** Collected: 12/06/18 14:36 Received: 12/07/18 11:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**4.8**	ug/m3	3.7	1.8	1.52		12/10/18 17:47	67-64-1	
Benzene	**0.30J**	ug/m3	0.49	0.23	1.52		12/10/18 17:47	71-43-2	
Benzyl chloride	**<1.8**	ug/m3	4.0	1.8	1.52		12/10/18 17:47	100-44-7	
Bromodichloromethane	**<0.56**	ug/m3	2.1	0.56	1.52		12/10/18 17:47	75-27-4	
Bromoform	**<2.2**	ug/m3	8.0	2.2	1.52		12/10/18 17:47	75-25-2	
Bromomethane	**<0.35**	ug/m3	1.2	0.35	1.52		12/10/18 17:47	74-83-9	
1,3-Butadiene	**<0.19**	ug/m3	0.68	0.19	1.52		12/10/18 17:47	106-99-0	
2-Butanone (MEK)	**0.86J**	ug/m3	4.6	0.56	1.52		12/10/18 17:47	78-93-3	
Carbon disulfide	**<0.33**	ug/m3	0.96	0.33	1.52		12/10/18 17:47	75-15-0	
Carbon tetrachloride	**<0.65**	ug/m3	1.9	0.65	1.52		12/10/18 17:47	56-23-5	
Chlorobenzene	**<0.42**	ug/m3	1.4	0.42	1.52		12/10/18 17:47	108-90-7	
Chloroethane	**<0.40**	ug/m3	0.81	0.40	1.52		12/10/18 17:47	75-00-3	
Chloroform	**<0.30**	ug/m3	0.75	0.30	1.52		12/10/18 17:47	67-66-3	
Chloromethane	**0.44J**	ug/m3	0.64	0.24	1.52		12/10/18 17:47	74-87-3	
Cyclohexane	**<0.54**	ug/m3	2.7	0.54	1.52		12/10/18 17:47	110-82-7	
Dibromochloromethane	**<1.1**	ug/m3	2.6	1.1	1.52		12/10/18 17:47	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/m3	1.2	0.56	1.52		12/10/18 17:47	106-93-4	
1,2-Dichlorobenzene	**<0.76**	ug/m3	1.9	0.76	1.52		12/10/18 17:47	95-50-1	
1,3-Dichlorobenzene	**<0.88**	ug/m3	1.9	0.88	1.52		12/10/18 17:47	541-73-1	
1,4-Dichlorobenzene	**<1.5**	ug/m3	4.7	1.5	1.52		12/10/18 17:47	106-46-7	
Dichlorodifluoromethane	**1.9**	ug/m3	1.5	0.45	1.52		12/10/18 17:47	75-71-8	
1,1-Dichloroethane	**<0.34**	ug/m3	1.3	0.34	1.52		12/10/18 17:47	75-34-3	
1,2-Dichloroethane	**<0.23**	ug/m3	0.62	0.23	1.52		12/10/18 17:47	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.2	0.42	1.52		12/10/18 17:47	75-35-4	
cis-1,2-Dichloroethene	**<0.33**	ug/m3	1.2	0.33	1.52		12/10/18 17:47	156-59-2	
trans-1,2-Dichloroethene	**<0.43**	ug/m3	1.2	0.43	1.52		12/10/18 17:47	156-60-5	
1,2-Dichloropropane	**<0.35**	ug/m3	1.4	0.35	1.52		12/10/18 17:47	78-87-5	
cis-1,3-Dichloropropene	**<0.46**	ug/m3	1.4	0.46	1.52		12/10/18 17:47	10061-01-5	
trans-1,3-Dichloropropene	**<0.67**	ug/m3	1.4	0.67	1.52		12/10/18 17:47	10061-02-6	
Dichlorotetrafluoroethane	**<0.66**	ug/m3	2.2	0.66	1.52		12/10/18 17:47	76-14-2	
Ethanol	**4.4**	ug/m3	2.9	1.2	1.52		12/10/18 17:47	64-17-5	
Ethyl acetate	**<0.29**	ug/m3	1.1	0.29	1.52		12/10/18 17:47	141-78-6	
Ethylbenzene	**<0.46**	ug/m3	1.3	0.46	1.52		12/10/18 17:47	100-41-4	
4-Ethyltoluene	**<0.87**	ug/m3	3.8	0.87	1.52		12/10/18 17:47	622-96-8	
n-Heptane	**<0.58**	ug/m3	1.3	0.58	1.52		12/10/18 17:47	142-82-5	
Hexachloro-1,3-butadiene	**<3.0**	ug/m3	8.2	3.0	1.52		12/10/18 17:47	87-68-3	
n-Hexane	**4.4**	ug/m3	1.1	0.47	1.52		12/10/18 17:47	110-54-3	
2-Hexanone	**<1.1**	ug/m3	6.3	1.1	1.52		12/10/18 17:47	591-78-6	
Methylene Chloride	**3.3J**	ug/m3	5.4	1.4	1.52		12/10/18 17:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.79**	ug/m3	6.3	0.79	1.52		12/10/18 17:47	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/m3	5.6	1.0	1.52		12/10/18 17:47	1634-04-4	
Naphthalene	**<2.0**	ug/m3	4.0	2.0	1.52		12/10/18 17:47	91-20-3	
2-Propanol	**<1.1**	ug/m3	3.8	1.1	1.52		12/10/18 17:47	67-63-0	
Propylene	**<0.22**	ug/m3	0.53	0.22	1.52		12/10/18 17:47	115-07-1	
Styrene	**<0.52**	ug/m3	1.3	0.52	1.52		12/10/18 17:47	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.44**	ug/m3	1.1	0.44	1.52		12/10/18 17:47	79-34-5	

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ANALYTICAL RESULTS

Project: 1690004991 Shur-Line
Pace Project No.: 10457974

Sample: MH-WV-3 **Lab ID: 10457974003** Collected: 12/06/18 14:36 Received: 12/07/18 11:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**<0.48**	ug/m3	1.0	0.48	1.52		12/10/18 17:47	127-18-4	
Tetrahydrofuran	**<0.40**	ug/m3	0.91	0.40	1.52		12/10/18 17:47	109-99-9	
Toluene	**0.71J**	ug/m3	1.2	0.53	1.52		12/10/18 17:47	108-88-3	
1,2,4-Trichlorobenzene	**<5.7**	ug/m3	11.5	5.7	1.52		12/10/18 17:47	120-82-1	
1,1,1-Trichloroethane	**<0.47**	ug/m3	1.7	0.47	1.52		12/10/18 17:47	71-55-6	
1,1,2-Trichloroethane	**<0.38**	ug/m3	0.84	0.38	1.52		12/10/18 17:47	79-00-5	
Trichloroethene	**<0.39**	ug/m3	0.83	0.39	1.52		12/10/18 17:47	79-01-6	
Trichlorofluoromethane	**<0.56**	ug/m3	1.7	0.56	1.52		12/10/18 17:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.86**	ug/m3	2.4	0.86	1.52		12/10/18 17:47	76-13-1	
1,2,4-Trimethylbenzene	**<0.69**	ug/m3	1.5	0.69	1.52		12/10/18 17:47	95-63-6	
1,3,5-Trimethylbenzene	**<0.61**	ug/m3	1.5	0.61	1.52		12/10/18 17:47	108-67-8	
Vinyl acetate	**<0.41**	ug/m3	1.1	0.41	1.52		12/10/18 17:47	108-05-4	
Vinyl chloride	**<0.19**	ug/m3	0.40	0.19	1.52		12/10/18 17:47	75-01-4	
m&p-Xylene	**<1.1**	ug/m3	2.7	1.1	1.52		12/10/18 17:47	179601-23-1	
o-Xylene	**<0.52**	ug/m3	1.3	0.52	1.52		12/10/18 17:47	95-47-6	

Sample: MH-WV-3 CERT 0428 **Lab ID: 10457974004** Collected: 12/06/18 14:36 Received: 12/07/18 11:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	**<0.60**	ug/m3	1.2	0.60	0.5		11/13/18 09:43	67-64-1	
Benzene	**<0.076**	ug/m3	0.16	0.076	0.5		11/13/18 09:43	71-43-2	
Benzyl chloride	**<0.60**	ug/m3	1.3	0.60	0.5		11/13/18 09:43	100-44-7	
Bromodichloromethane	**<0.18**	ug/m3	0.68	0.18	0.5		11/13/18 09:43	75-27-4	
Bromoform	**<0.71**	ug/m3	2.6	0.71	0.5		11/13/18 09:43	75-25-2	
Bromomethane	**<0.11**	ug/m3	0.39	0.11	0.5		11/13/18 09:43	74-83-9	
1,3-Butadiene	**<0.064**	ug/m3	0.22	0.064	0.5		11/13/18 09:43	106-99-0	
2-Butanone (MEK)	**<0.18**	ug/m3	1.5	0.18	0.5		11/13/18 09:43	78-93-3	
Carbon disulfide	**<0.11**	ug/m3	0.32	0.11	0.5		11/13/18 09:43	75-15-0	
Carbon tetrachloride	**<0.21**	ug/m3	0.64	0.21	0.5		11/13/18 09:43	56-23-5	
Chlorobenzene	**<0.14**	ug/m3	0.47	0.14	0.5		11/13/18 09:43	108-90-7	
Chloroethane	**<0.13**	ug/m3	0.27	0.13	0.5		11/13/18 09:43	75-00-3	
Chloroform	**<0.098**	ug/m3	0.25	0.098	0.5		11/13/18 09:43	67-66-3	
Chloromethane	**<0.078**	ug/m3	0.21	0.078	0.5		11/13/18 09:43	74-87-3	
Cyclohexane	**<0.18**	ug/m3	0.88	0.18	0.5		11/13/18 09:43	110-82-7	
Dibromochloromethane	**<0.36**	ug/m3	0.86	0.36	0.5		11/13/18 09:43	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/m3	0.39	0.18	0.5		11/13/18 09:43	106-93-4	
1,2-Dichlorobenzene	**<0.25**	ug/m3	0.61	0.25	0.5		11/13/18 09:43	95-50-1	
1,3-Dichlorobenzene	**<0.29**	ug/m3	0.61	0.29	0.5		11/13/18 09:43	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/m3	1.5	0.50	0.5		11/13/18 09:43	106-46-7	
Dichlorodifluoromethane	**<0.15**	ug/m3	0.50	0.15	0.5		11/13/18 09:43	75-71-8	
1,1-Dichloroethane	**<0.11**	ug/m3	0.41	0.11	0.5		11/13/18 09:43	75-34-3	
1,2-Dichloroethane	**<0.075**	ug/m3	0.21	0.075	0.5		11/13/18 09:43	107-06-2	

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ANALYTICAL RESULTS

Project: 1690004991 Shur-Line
Pace Project No.: 10457974

Sample: MH-WV-3 CERT 0428 **Lab ID: 10457974004** Collected: 12/06/18 14:36 Received: 12/07/18 11:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.14**	ug/m3	0.40	0.14	0.5		11/13/18 09:43	75-35-4	
cis-1,2-Dichloroethene	**<0.11**	ug/m3	0.40	0.11	0.5		11/13/18 09:43	156-59-2	
trans-1,2-Dichloroethene	**<0.14**	ug/m3	0.40	0.14	0.5		11/13/18 09:43	156-60-5	
1,2-Dichloropropane	**<0.12**	ug/m3	0.47	0.12	0.5		11/13/18 09:43	78-87-5	
cis-1,3-Dichloropropene	**<0.15**	ug/m3	0.46	0.15	0.5		11/13/18 09:43	10061-01-5	
trans-1,3-Dichloropropene	**<0.22**	ug/m3	0.46	0.22	0.5		11/13/18 09:43	10061-02-6	
Dichlorotetrafluoroethane	**<0.22**	ug/m3	0.71	0.22	0.5		11/13/18 09:43	76-14-2	
Ethanol	**<0.41**	ug/m3	0.96	0.41	0.5		11/13/18 09:43	64-17-5	
Ethyl acetate	**<0.095**	ug/m3	0.37	0.095	0.5		11/13/18 09:43	141-78-6	
Ethylbenzene	**<0.15**	ug/m3	0.44	0.15	0.5		11/13/18 09:43	100-41-4	
4-Ethyltoluene	**<0.28**	ug/m3	1.2	0.28	0.5		11/13/18 09:43	622-96-8	
n-Heptane	**<0.19**	ug/m3	0.42	0.19	0.5		11/13/18 09:43	142-82-5	
Hexachloro-1,3-butadiene	**<0.98**	ug/m3	2.7	0.98	0.5		11/13/18 09:43	87-68-3	
n-Hexane	**<0.16**	ug/m3	0.36	0.16	0.5		11/13/18 09:43	110-54-3	
2-Hexanone	**<0.37**	ug/m3	2.1	0.37	0.5		11/13/18 09:43	591-78-6	
Methylene Chloride	**1.7J**	ug/m3	1.8	0.47	0.5		11/13/18 09:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.26**	ug/m3	2.1	0.26	0.5		11/13/18 09:43	108-10-1	
Methyl-tert-butyl ether	**<0.33**	ug/m3	1.8	0.33	0.5		11/13/18 09:43	1634-04-4	
Naphthalene	**<0.66**	ug/m3	1.3	0.66	0.5		11/13/18 09:43	91-20-3	
2-Propanol	**<0.35**	ug/m3	1.2	0.35	0.5		11/13/18 09:43	67-63-0	
Propylene	**<0.072**	ug/m3	0.18	0.072	0.5		11/13/18 09:43	115-07-1	
Styrene	**<0.17**	ug/m3	0.43	0.17	0.5		11/13/18 09:43	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.15**	ug/m3	0.35	0.15	0.5		11/13/18 09:43	79-34-5	
Tetrachloroethene	**<0.16**	ug/m3	0.34	0.16	0.5		11/13/18 09:43	127-18-4	
Tetrahydrofuran	**<0.13**	ug/m3	0.30	0.13	0.5		11/13/18 09:43	109-99-9	
Toluene	**<0.18**	ug/m3	0.38	0.18	0.5		11/13/18 09:43	108-88-3	
1,2,4-Trichlorobenzene	**<1.9**	ug/m3	3.8	1.9	0.5		11/13/18 09:43	120-82-1	
1,1,1-Trichloroethane	**<0.15**	ug/m3	0.56	0.15	0.5		11/13/18 09:43	71-55-6	
1,1,2-Trichloroethane	**<0.12**	ug/m3	0.28	0.12	0.5		11/13/18 09:43	79-00-5	
Trichloroethene	**<0.13**	ug/m3	0.27	0.13	0.5		11/13/18 09:43	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/m3	0.57	0.18	0.5		11/13/18 09:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.28**	ug/m3	0.78	0.28	0.5		11/13/18 09:43	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	0.50	0.23	0.5		11/13/18 09:43	95-63-6	
1,3,5-Trimethylbenzene	**<0.20**	ug/m3	0.50	0.20	0.5		11/13/18 09:43	108-67-8	
Vinyl acetate	**<0.14**	ug/m3	0.36	0.14	0.5		11/13/18 09:43	108-05-4	
Vinyl chloride	**<0.063**	ug/m3	0.13	0.063	0.5		11/13/18 09:43	75-01-4	
m&p-Xylene	**<0.35**	ug/m3	0.88	0.35	0.5		11/13/18 09:43	179601-23-1	
o-Xylene	**<0.17**	ug/m3	0.44	0.17	0.5		11/13/18 09:43	95-47-6	

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QUALITY CONTROL DATA

Project: 1690004991 Shur-Line
Pace Project No.: 10457974

QC Batch: 579907 | Analysis Method: TO-15
QC Batch Method: TO-15 | Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10457974001, 10457974003

METHOD BLANK: 3145470 | Matrix: Air
Associated Lab Samples: 10457974001, 10457974003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.15	0.56	12/10/18 09:33	
1,1,2,2-Tetrachloroethane	ug/m3	<0.15	0.35	12/10/18 09:33	
1,1,2-Trichloroethane	ug/m3	<0.12	0.28	12/10/18 09:33	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.28	0.78	12/10/18 09:33	
1,1-Dichloroethane	ug/m3	<0.11	0.41	12/10/18 09:33	
1,1-Dichloroethene	ug/m3	<0.14	0.40	12/10/18 09:33	
1,2,4-Trichlorobenzene	ug/m3	<1.9	3.8	12/10/18 09:33	
1,2,4-Trimethylbenzene	ug/m3	<0.23	0.50	12/10/18 09:33	
1,2-Dibromoethane (EDB)	ug/m3	<0.18	0.39	12/10/18 09:33	
1,2-Dichlorobenzene	ug/m3	<0.25	0.61	12/10/18 09:33	
1,2-Dichloroethane	ug/m3	<0.075	0.21	12/10/18 09:33	
1,2-Dichloropropane	ug/m3	<0.12	0.47	12/10/18 09:33	
1,3,5-Trimethylbenzene	ug/m3	<0.20	0.50	12/10/18 09:33	
1,3-Butadiene	ug/m3	<0.064	0.22	12/10/18 09:33	
1,3-Dichlorobenzene	ug/m3	<0.29	0.61	12/10/18 09:33	
1,4-Dichlorobenzene	ug/m3	<0.50	1.5	12/10/18 09:33	
2-Butanone (MEK)	ug/m3	<0.18	1.5	12/10/18 09:33	
2-Hexanone	ug/m3	<0.37	2.1	12/10/18 09:33	
2-Propanol	ug/m3	<0.35	1.2	12/10/18 09:33	
4-Ethyltoluene	ug/m3	<0.28	1.2	12/10/18 09:33	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.26	2.1	12/10/18 09:33	
Acetone	ug/m3	<0.60	1.2	12/10/18 09:33	
Benzene	ug/m3	<0.076	0.16	12/10/18 09:33	
Benzyl chloride	ug/m3	<0.60	1.3	12/10/18 09:33	
Bromodichloromethane	ug/m3	<0.18	0.68	12/10/18 09:33	
Bromoform	ug/m3	<0.71	2.6	12/10/18 09:33	
Bromomethane	ug/m3	<0.11	0.39	12/10/18 09:33	
Carbon disulfide	ug/m3	<0.11	0.32	12/10/18 09:33	
Carbon tetrachloride	ug/m3	<0.21	0.64	12/10/18 09:33	
Chlorobenzene	ug/m3	<0.14	0.47	12/10/18 09:33	
Chloroethane	ug/m3	<0.13	0.27	12/10/18 09:33	
Chloroform	ug/m3	<0.098	0.25	12/10/18 09:33	
Chloromethane	ug/m3	<0.078	0.21	12/10/18 09:33	
cis-1,2-Dichloroethene	ug/m3	<0.11	0.40	12/10/18 09:33	
cis-1,3-Dichloropropene	ug/m3	<0.15	0.46	12/10/18 09:33	
Cyclohexane	ug/m3	<0.18	0.88	12/10/18 09:33	
Dibromochloromethane	ug/m3	<0.36	0.86	12/10/18 09:33	
Dichlorodifluoromethane	ug/m3	<0.15	0.50	12/10/18 09:33	
Dichlorotetrafluoroethane	ug/m3	<0.22	0.71	12/10/18 09:33	
Ethanol	ug/m3	<0.41	0.96	12/10/18 09:33	
Ethyl acetate	ug/m3	<0.095	0.37	12/10/18 09:33	

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

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QUALITY CONTROL DATA

Project: 1690004991 Shur-Line
Pace Project No.: 10457974

METHOD BLANK: 3145470 Matrix: Air
Associated Lab Samples: 10457974001, 10457974003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.15	0.44	12/10/18 09:33	
Hexachloro-1,3-butadiene	ug/m3	<0.98	2.7	12/10/18 09:33	
m&p-Xylene	ug/m3	<0.35	0.88	12/10/18 09:33	
Methyl-tert-butyl ether	ug/m3	<0.33	1.8	12/10/18 09:33	
Methylene Chloride	ug/m3	0.68J	1.8	12/10/18 09:33	
n-Heptane	ug/m3	<0.19	0.42	12/10/18 09:33	
n-Hexane	ug/m3	<0.16	0.36	12/10/18 09:33	
Naphthalene	ug/m3	<0.66	1.3	12/10/18 09:33	
o-Xylene	ug/m3	<0.17	0.44	12/10/18 09:33	
Propylene	ug/m3	<0.072	0.18	12/10/18 09:33	
Styrene	ug/m3	<0.17	0.43	12/10/18 09:33	
Tetrachloroethene	ug/m3	<0.16	0.34	12/10/18 09:33	
Tetrahydrofuran	ug/m3	<0.13	0.30	12/10/18 09:33	
Toluene	ug/m3	<0.18	0.38	12/10/18 09:33	
trans-1,2-Dichloroethene	ug/m3	<0.14	0.40	12/10/18 09:33	
trans-1,3-Dichloropropene	ug/m3	<0.22	0.46	12/10/18 09:33	
Trichloroethene	ug/m3	<0.13	0.27	12/10/18 09:33	
Trichlorofluoromethane	ug/m3	<0.18	0.57	12/10/18 09:33	
Vinyl acetate	ug/m3	<0.14	0.36	12/10/18 09:33	
Vinyl chloride	ug/m3	<0.063	0.13	12/10/18 09:33	

LABORATORY CONTROL SAMPLE: 3145471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.6	108	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	77.6	111	70-146	
1,1,2-Trichloroethane	ug/m3	55.5	57.9	104	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	80.0	103	63-139	
1,1-Dichloroethane	ug/m3	41.1	43.1	105	70-134	
1,1-Dichloroethene	ug/m3	40.3	46.8	116	70-137	
1,2,4-Trichlorobenzene	ug/m3	75.4	75.8	101	60-133	
1,2,4-Trimethylbenzene	ug/m3	50	53.1	106	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	83.4	107	70-140	
1,2-Dichlorobenzene	ug/m3	61.1	64.9	106	70-137	
1,2-Dichloroethane	ug/m3	41.1	41.8	102	70-136	
1,2-Dichloropropane	ug/m3	47	48.7	104	70-136	
1,3,5-Trimethylbenzene	ug/m3	50	52.7	105	70-133	
1,3-Butadiene	ug/m3	22.5	25.0	111	64-141	
1,3-Dichlorobenzene	ug/m3	61.1	64.3	105	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	67.1	110	70-134	
2-Butanone (MEK)	ug/m3	30	30.6	102	65-143	
2-Hexanone	ug/m3	41.6	48.2	116	60-148	
2-Propanol	ug/m3	125	136	109	65-135	
4-Ethyltoluene	ug/m3	50	55.6	111	70-132	

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1690004991 Shur-Line
Pace Project No.: 10457974

LABORATORY CONTROL SAMPLE: 3145471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	45.8	110	70-135	
Acetone	ug/m3	121	133	110	59-132	
Benzene	ug/m3	32.5	32.4	100	70-134	
Benzyl chloride	ug/m3	52.6	52.0	99	56-150	
Bromodichloromethane	ug/m3	68.1	78.7	115	70-142	
Bromoform	ug/m3	105	107	102	69-150	
Bromomethane	ug/m3	39.5	40.2	102	61-141	
Carbon disulfide	ug/m3	31.6	36.2	114	66-134	
Carbon tetrachloride	ug/m3	64	76.5	120	60-145	
Chlorobenzene	ug/m3	46.8	47.2	101	70-130	
Chloroethane	ug/m3	26.8	28.4	106	65-143	
Chloroform	ug/m3	49.6	49.6	100	70-132	
Chloromethane	ug/m3	21	22.2	106	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	39.4	98	70-136	
cis-1,3-Dichloropropene	ug/m3	46.1	55.4	120	70-136	
Cyclohexane	ug/m3	35	36.8	105	70-133	
Dibromochloromethane	ug/m3	86.6	96.9	112	68-149	
Dichlorodifluoromethane	ug/m3	50.3	52.1	104	69-130	
Dichlorotetrafluoroethane	ug/m3	71	74.5	105	68-130	
Ethanol	ug/m3	91.6	103	113	65-146	
Ethyl acetate	ug/m3	36.6	39.5	108	68-136	
Ethylbenzene	ug/m3	44.1	46.1	104	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	112	103	59-140	
m&p-Xylene	ug/m3	88.3	90.6	103	70-133	
Methyl-tert-butyl ether	ug/m3	36.6	37.3	102	70-132	
Methylene Chloride	ug/m3	177	169	96	67-132	
n-Heptane	ug/m3	41.6	42.6	102	64-136	
n-Hexane	ug/m3	35.8	36.5	102	70-130	
Naphthalene	ug/m3	53.3	54.4	102	55-136	
o-Xylene	ug/m3	44.1	44.5	101	70-132	
Propylene	ug/m3	17.5	19.0	109	37-150	
Styrene	ug/m3	43.3	49.3	114	70-139	
Tetrachloroethene	ug/m3	68.9	67.2	97	70-133	
Tetrahydrofuran	ug/m3	30	33.4	111	62-141	
Toluene	ug/m3	38.3	39.3	103	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	40.4	100	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	49.4	107	70-135	
Trichloroethene	ug/m3	54.6	53.1	97	70-135	
Trichlorofluoromethane	ug/m3	57.1	79.2	139	59-140	CH
Vinyl acetate	ug/m3	35.8	40.1	112	57-150	
Vinyl chloride	ug/m3	26	28.3	109	70-141	

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QUALITY CONTROL DATA

Project: 1690004991 Shur-Line
Pace Project No.: 10457974

SAMPLE DUPLICATE: 3146204

Parameter	Units	10457783001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.51		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.48		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.41		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<0.92		25	
1,1-Dichloroethane	ug/m3	ND	<0.37		25	
1,1-Dichloroethene	ug/m3	ND	<0.45		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<6.1		25	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0J		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.60		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.82		25	
1,2-Dichloroethane	ug/m3	ND	<0.25		25	
1,2-Dichloropropane	ug/m3	ND	<0.38		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.65		25	
1,3-Butadiene	ug/m3	ND	<0.21		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.95		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.6		25	
2-Butanone (MEK)	ug/m3	ND	2.0J		25	
2-Hexanone	ug/m3	ND	<1.2		25	
2-Propanol	ug/m3	ND	<1.1		25	
4-Ethyltoluene	ug/m3	ND	<0.93		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.85		25	
Acetone	ug/m3	5.4	5.5	1	25	
Benzene	ug/m3	1.2	1.2	3	25	
Benzyl chloride	ug/m3	ND	<2.0		25	
Bromodichloromethane	ug/m3	ND	<0.60		25	
Bromoform	ug/m3	ND	<2.3		25	
Bromomethane	ug/m3	ND	<0.37		25	
Carbon disulfide	ug/m3	ND	<0.36		25	
Carbon tetrachloride	ug/m3	ND	<0.70		25	
Chlorobenzene	ug/m3	ND	<0.45		25	
Chloroethane	ug/m3	ND	<0.43		25	
Chloroform	ug/m3	ND	<0.32		25	
Chloromethane	ug/m3	ND	0.59J		25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.36		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.50		25	
Cyclohexane	ug/m3	ND	<0.58		25	
Dibromochloromethane	ug/m3	ND	<1.2		25	
Dichlorodifluoromethane	ug/m3	1.8	1.7	8	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.72		25	
Ethanol	ug/m3	5.3	5.3	0	25	
Ethyl acetate	ug/m3	ND	<0.31		25	
Ethylbenzene	ug/m3	ND	0.54J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<3.2		25	
m&p-Xylene	ug/m3	ND	1.7J		25	
Methyl-tert-butyl ether	ug/m3	ND	<1.1		25	
Methylene Chloride	ug/m3	ND	2.9J		25	
n-Heptane	ug/m3	ND	<0.62		25	

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QUALITY CONTROL DATA

Project: 1690004991 Shur-Line
Pace Project No.: 10457974

SAMPLE DUPLICATE: 3146204

Parameter	Units	10457783001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	ND	0.98J		25	
Naphthalene	ug/m3	ND	<2.2		25	
o-Xylene	ug/m3	ND	0.75J		25	
Propylene	ug/m3	ND	<0.23		25	
Styrene	ug/m3	ND	<0.56		25	
Tetrachloroethene	ug/m3	ND	<0.51		25	
Tetrahydrofuran	ug/m3	ND	<0.43		25	
Toluene	ug/m3	2.3	2.2	7	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.47		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.72		25	
Trichloroethene	ug/m3	ND	<0.42		25	
Trichlorofluoromethane	ug/m3	ND	1.3J		25	
Vinyl acetate	ug/m3	ND	<0.44		25	
Vinyl chloride	ug/m3	ND	<0.21		25	

SAMPLE DUPLICATE: 3146205

Parameter	Units	10457783003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.31		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.29		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.25		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<0.56		25	
1,1-Dichloroethane	ug/m3	ND	<0.22		25	
1,1-Dichloroethene	ug/m3	ND	<0.27		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<3.7		25	
1,2,4-Trimethylbenzene	ug/m3	ND	<0.45		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.37		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.50		25	
1,2-Dichloroethane	ug/m3	ND	<0.15		25	
1,2-Dichloropropane	ug/m3	ND	<0.23		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.40		25	
1,3-Butadiene	ug/m3	ND	<0.13		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.58		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.0		25	
2-Butanone (MEK)	ug/m3	ND	0.73J		25	
2-Hexanone	ug/m3	ND	<0.74		25	
2-Propanol	ug/m3	ND	<0.70		25	
4-Ethyltoluene	ug/m3	ND	<0.57		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.52		25	
Acetone	ug/m3	2.5	2.7	8	25	
Benzene	ug/m3	ND	0.19J		25	
Benzyl chloride	ug/m3	ND	<1.2		25	
Bromodichloromethane	ug/m3	ND	<0.37		25	
Bromoform	ug/m3	ND	<1.4		25	
Bromomethane	ug/m3	ND	<0.23		25	

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QUALITY CONTROL DATA

Project: 1690004991 Shur-Line
Pace Project No.: 10457974

SAMPLE DUPLICATE: 3146205

Parameter	Units	10457783003 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	<0.22		25	
Carbon tetrachloride	ug/m3	ND	<0.43		25	
Chlorobenzene	ug/m3	ND	<0.28		25	
Chloroethane	ug/m3	ND	<0.26		25	
Chloroform	ug/m3	ND	<0.20		25	
Chloromethane	ug/m3	ND	<0.16		25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.22		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.30		25	
Cyclohexane	ug/m3	ND	<0.35		25	
Dibromochloromethane	ug/m3	ND	<0.72		25	
Dichlorodifluoromethane	ug/m3	ND	<0.29		25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.44		25	
Ethanol	ug/m3	ND	<0.81		25	
Ethyl acetate	ug/m3	ND	<0.19		25	
Ethylbenzene	ug/m3	ND	0.40J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<2.0		25	
m&p-Xylene	ug/m3	ND	0.70J		25	
Methyl-tert-butyl ether	ug/m3	ND	<0.66		25	
Methylene Chloride	ug/m3	ND	<0.94		25	
n-Heptane	ug/m3	1.2	1.2	2	25	
n-Hexane	ug/m3	ND	0.70J		25	
Naphthalene	ug/m3	ND	<1.3		25	
o-Xylene	ug/m3	ND	<0.34		25	
Propylene	ug/m3	ND	<0.14		25	
Styrene	ug/m3	ND	<0.34		25	
Tetrachloroethene	ug/m3	ND	<0.31		25	
Tetrahydrofuran	ug/m3	ND	<0.26		25	
Toluene	ug/m3	ND	<0.35		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.28		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.44		25	
Trichloroethene	ug/m3	ND	<0.26		25	
Trichlorofluoromethane	ug/m3	ND	<0.37		25	
Vinyl acetate	ug/m3	ND	<0.27		25	
Vinyl chloride	ug/m3	ND	<0.13		25	

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(612)607-1700

QUALIFIERS

Project: 1690004991 Shur-Line
Pace Project No.: 10457974

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

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1690004991 Shur-Line
Pace Project No.: 10457974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457974001	**MH-WV-4**	TO-15	579907		
10457974003	**MH-WV-3**	TO-15	579907		
10457974002	**MH-WV-4 CERT 0628**	TO-15	580130		
10457974004	**MH-WV-3 CERT 0428**	TO-15	580130		

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AIR: CHA WO#: 10457974

The Chain-of-Custody is a ... ocument

10457974

35219

Page: 1 of 1

Section A Required Client Information:

Company: Ramboll
Address: 175 N. Corporate Dr. Suite 100
Email To: spetrofske@ramboll.com
Phone: 262-901-3501 Fax:
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: Susan Petrofske
Copy To: Paul Lindquist, Tyler Burgett
Purchase Order No.:
Project Name: Shur-Line
Project Number: 1640004491

Section C Invoice Information:

Attention:
Company Name: RAMBOLL
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 37038

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WI

Reporting Units: ug/m³ X, mg/m³, PPBV, PPMV, Other

Report Level: II. X III. IV. Other

Valid Media Codes: MEDIA / CODE — Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	Section D Required Client Information: AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED: Composite Start DATE	Composite Start TIME	Composite - End/Grab DATE	Composite - End/Grab TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	MH-WV-4	6LC		12/6/18	1343	12/6/18	1423	30	4	628	1663					X					001, 002
2	MH-WV-3	6LC		12/6/18	1359	12/6/18	1436	28	4	428	0956					X					003, 004
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Tyler Burgett / Ramboll	12/6/18	1550	FEDEX	12/6/18	
			Pace	12/07/18	1143

SAMPLE CONDITIONS

	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
		Y/N	Y/N	Y/N
	-	Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Burgett

SIGNATURE of SAMPLER: Tyler Burgett

DATE Signed (MM / DD / YY): 12/6/18

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 11Oct2018 Page 1 of 1
	Document No.: F-MN-A-106-rev.16	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Ramboll

Project #: WO#: 10457974

PM: CT1 Due Date: 12/14/18

CLIENT: Ramboll-WI

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

Tracking Number: 4545 9907 8420

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

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** — **Thermom. Used:** ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** 12/07/18 CS

Type of ice Received ☐ Blue ☐ Wet ☑ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No		1.
Chain of Custody Filled Out?	☑ Yes	☐ No		2.
Chain of Custody Relinquished?	☑ Yes	☐ No		3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No		6.
Rush Turn Around Time Requested?	☐ Yes	☑ No		7.
Sufficient Volume?	☑ Yes	☐ No		8.
Correct Containers Used?	☑ Yes	☐ No		9.
-Pace Containers Used?	☑ Yes	☐ No		
Containers Intact?	☑ Yes	☐ No		10.
Media: Air Can Airbag Filter TDT Passive				11. Individually Certified Cans Y N (list which samples)
Is sufficient information available to reconcile samples to the COC?	☑ Yes	☐ No		12.

Samples Received: Pressure Gauge # 10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
4			-2.0	+5.0					
3			-3.5	"					

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

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Date: 12/07/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)