



YEAR 1 RESULTS 2020-2021

**Hatcheries/Nurseries
Volatile Organic Compounds
(VOC)**



Midwest Laboratories
13611 B Street
Omaha, NE 68144
P 402-334-7770
F 402-334-9121
www.midwestlabs.com

17 May 2021

Work Order: 1570517

Natalie Simon
UF/IFAS Shellfish Extension Pr - 59065
11350 SW 153rd Court,
Cedar Key, FL 32625
RE: VOC on Water for Shellfish

Enclosed are the results of analyses for samples received by the laboratory on 2021-04-30 09:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerri Stanek". The signature is written in a cursive, flowing style.

Kerri Stanek
Project Manager
kstanek@midwestlabs.com



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 13611 B Street
 Omaha, NE 68144
 P 402-334-7770
 F 402-334-9121
 www.midwestlabs.com

UF/IFAS Shellfish Extension Pr - 59065
 11350 SW 153rd Court,
 Cedar Key, FL 32625

Project: VOC on Water for Shellfish

Project Manager: Natalie Simon

Reported:
 2021-05-17 10:51

Sample ID: C578 ITW-Incoming Tank Water
Laboratory ID: 1570517-02
Sampled Date/Time: 2021-04-27 09:00

Analyte	Result	Reporting Limit	Units	Method	Prepared	Analyzed	Analyst	(Container) / Notes
Volatile Organic Compounds								
Dichlorodifluoromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Chloromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Vinyl chloride	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)/ CAL
Bromomethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Trichlorofluoromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Chloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Acetone	<	30.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Ethyl Ether	<	30.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,1-Dichloroethene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Iodomethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Acrylonitrile	<	20.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Methylene Chloride	<	3.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,1,2-Trichloro-1,1,2-trifluoroethane	<	10.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Allyl Chloride	<	10.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Carbon disulfide	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
trans-1,2-Dichloroethene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Methyl tert-Butyl Ether	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,1-Dichloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Vinyl acetate	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Chloroprene	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
2-Butanone	<	10.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
cis-1,2-Dichloroethene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Bromochloromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Chloroform	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
2,2-Dichloropropane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Methyl Acrylate	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Tetrahydrofuran	<	20.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,2-Dichloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,1,1-Trichloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,1-Dichloropropene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Carbon Tetrachloride	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Benzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Dibromomethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,2-Dichloropropane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Trichloroethene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Bromodichloromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Methyl Methacrylate	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
cis-1,3-Dichloropropene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
4-Methyl-2-pentanone	<	10.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
trans-1,3-Dichloropropene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,1,2-Trichloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Toluene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,3-Dichloropropane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Ethyl Methacrylate	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)

Work Order: 1570517

The result(s) issued on this report only reflect the analysis of the sample(s) submitted. For applicable test parameters, Midwest Laboratories is in compliance with NELAC requirements. Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.



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 Cedar Key, FL 32625

Project: VOC on Water for Shellfish

Project Manager: Natalie Simon

Reported:
 2021-05-17 10:51

Sample ID: C578 ITW-Incoming Tank Water
Laboratory ID: 1570517-02
Sampled Date/Time: 2021-04-27 09:00

Analyte	Result	Reporting Limit	Units	Method	Prepared	Analyzed	Analyst	(Container) / Notes
Volatile Organic Compounds								
Dibromochloromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
2-Hexanone	<	10.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,2-Dibromoethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Tetrachloroethene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,1,1,2-Tetrachloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Chlorobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Ethylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
m,p-Xylenes	<	2.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Bromoform	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
cis-1,4-Dichloro-2-butene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Styrene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,1,2,2-Tetrachloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
o-Xylene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,2,3-Trichloropropane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
trans-1,4-Dichloro-2-butene	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Isopropylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Bromobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
n-Propyl Benzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
2-Chlorotoluene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
4-Chlorotoluene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,3,5-Trimethylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
tert-Butylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,2,4-Trimethylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
sec-Butylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,3-Dichlorobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,4-Dichlorobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
p-Isopropyltoluene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,2-Dichlorobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
n-Butyl Benzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,2-Dibromo-3-Chloropropane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,2,4-Trichlorobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Naphthalene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Hexachlorobutadiene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
1,2,3-Trichlorobenzene	<	2.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Total Xylenes	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Total Trihalomethanes	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(A)
Surrogate: Toluene-d8	96 %	80-120		EPA 8260	2021-05-05	2021-05-05		(A)
Surrogate: Bromofluorobenzene	97 %	73-120		EPA 8260	2021-05-05	2021-05-05		(A)
Surrogate: 1,2-Dichlorobenzene-d4	101 %	80-120		EPA 8260	2021-05-05	2021-05-05		(A)



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17 May 2021

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Natalie Simon
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Cedar Key, FL 32625
RE: VOC on Water for Shellfish

Enclosed are the results of analyses for samples received by the laboratory on 2021-04-30 09:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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Kerri Stanek
Project Manager
kstanek@midwestlabs.com



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UF/IFAS Shellfish Extension Pr - 59065
 11350 SW 153rd Court,
 Cedar Key, FL 32625

Project: VOC on Water for Shellfish

Project Manager: Natalie Simon

Reported:
 2021-05-17 10:51

Sample ID: J737
Laboratory ID: 1570517-01
Sampled Date/Time: 2021-04-27 09:20

Analyte	Result	Reporting			Method	Prepared	Analyzed	Analyst	(Container) /
		Limit	Units	Notes					
Volatile Organic Compounds									
Dichlorodifluoromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Chloromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Vinyl chloride	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)/ CAL	
Bromomethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Trichlorofluoromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Chloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Acetone	<	30.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Ethyl Ether	<	30.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
1,1-Dichloroethene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Iodomethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Acrylonitrile	<	20.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Methylene Chloride	<	3.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
1,1,2-Trichloro-1,1,2-trifluoroethane	<	10.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Allyl Chloride	<	10.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Carbon disulfide	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
trans-1,2-Dichloroethene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Methyl tert-Butyl Ether	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
1,1-Dichloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Vinyl acetate	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Chloroprene	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
2-Butanone	<	10.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
cis-1,2-Dichloroethene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Bromochloromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Chloroform	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
2,2-Dichloropropane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Methyl Acrylate	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Tetrahydrofuran	<	20.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
1,2-Dichloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
1,1,1-Trichloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
1,1-Dichloropropene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Carbon Tetrachloride	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Benzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Dibromomethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
1,2-Dichloropropane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Trichloroethene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Bromodichloromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Methyl Methacrylate	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
cis-1,3-Dichloropropene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
4-Methyl-2-pentanone	<	10.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
trans-1,3-Dichloropropene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
1,1,2-Trichloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Toluene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
1,3-Dichloropropane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	
Ethyl Methacrylate	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)	

Work Order: 1570517

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 Cedar Key, FL 32625

Project: VOC on Water for Shellfish

Project Manager: Natalie Simon

Reported:
 2021-05-17 10:51

Sample ID: J737
Laboratory ID: 1570517-01
Sampled Date/Time: 2021-04-27 09:20

Analyte	Result	Reporting Limit	Units	Method	Prepared	Analyzed	Analyst	(Container) / Notes
Volatile Organic Compounds								
Dibromochloromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
2-Hexanone	<	10.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
1,2-Dibromoethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
Tetrachloroethene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
1,1,1,2-Tetrachloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
Chlorobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
Ethylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
m,p-Xylenes	<	2.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
Bromoform	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
cis-1,4-Dichloro-2-butene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
Styrene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
1,1,2,2-Tetrachloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
o-Xylene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
1,2,3-Trichloropropane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
trans-1,4-Dichloro-2-butene	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
Isopropylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
Bromobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
n-Propyl Benzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
2-Chlorotoluene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
4-Chlorotoluene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
1,3,5-Trimethylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
tert-Butylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
1,2,4-Trimethylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
sec-Butylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
1,3-Dichlorobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
1,4-Dichlorobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
p-Isopropyltoluene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
1,2-Dichlorobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
n-Butyl Benzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
1,2-Dibromo-3-Chloropropane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
1,2,4-Trichlorobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
Naphthalene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
Hexachlorobutadiene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
1,2,3-Trichlorobenzene	<	2.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
Total Xylenes	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
Total Trihalomethanes	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(B)
Surrogate: Toluene-d8	96 %	80-120		EPA 8260	2021-05-05	2021-05-05		(B)
Surrogate: Bromofluorobenzene	98 %	73-120		EPA 8260	2021-05-05	2021-05-05		(B)
Surrogate: 1,2-Dichlorobenzene-d4	105 %	80-120		EPA 8260	2021-05-05	2021-05-05		(B)



Midwest Laboratories
13611 B Street
Omaha, NE 68144
P 402-334-7770
F 402-334-9121
www.midwestlabs.com

17 May 2021

Work Order: 1570340

Natalie Simon
UF/IFAS Shellfish Extension Pr - 59065
11350 SW 153rd Court,
Cedar Key, FL 32625
RE: VOC on Water for Shellfish

Enclosed are the results of analyses for samples received by the laboratory on 2021-05-03 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerri Stanek". The signature is written in a cursive, flowing style.

Kerri Stanek
Project Manager
kstanek@midwestlabs.com



Midwest Laboratories
 13611 B Street
 Omaha, NE 68144
 P 402-334-7770
 F 402-334-9121
 www.midwestlabs.com

UF/IFAS Shellfish Extension Pr - 59065
 11350 SW 153rd Court,
 Cedar Key, FL 32625

Project: VOC on Water for Shellfish

Project Manager: Natalie Simon

Reported:
 2021-05-17 10:51

Sample ID: t383
Laboratory ID: 1570340-01
Sampled Date/Time: 2021-04-27 09:00

Analyte	Result	Reporting Limit	Units	Method	Prepared	Analyzed	Analyst	(Container) / Notes
Volatile Organic Compounds								
Dichlorodifluoromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Chloromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Vinyl chloride	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)/ CAL
Bromomethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Trichlorofluoromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Chloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Acetone	<	30.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Ethyl Ether	<	30.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,1-Dichloroethene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Iodomethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Acrylonitrile	<	20.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Methylene Chloride	<	3.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,1,2-Trichloro-1,1,2-trifluoroethane	<	10.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Allyl Chloride	<	10.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Carbon disulfide	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
trans-1,2-Dichloroethene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Methyl tert-Butyl Ether	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,1-Dichloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Vinyl acetate	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Chloroprene	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
2-Butanone	<	10.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
cis-1,2-Dichloroethene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Bromochloromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Chloroform	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
2,2-Dichloropropane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Methyl Acrylate	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Tetrahydrofuran	<	20.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,2-Dichloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,1,1-Trichloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,1-Dichloropropene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Carbon Tetrachloride	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Benzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Dibromomethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,2-Dichloropropane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Trichloroethene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Bromodichloromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Methyl Methacrylate	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
cis-1,3-Dichloropropene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
4-Methyl-2-pentanone	<	10.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
trans-1,3-Dichloropropene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,1,2-Trichloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Toluene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,3-Dichloropropane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Ethyl Methacrylate	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)

Work Order: 1570340

The result(s) issued on this report only reflect the analysis of the sample(s) submitted. For applicable test parameters, Midwest Laboratories is in compliance with NELAC requirements. Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.



Midwest Laboratories
 13611 B Street
 Omaha, NE 68144
 P 402-334-7770
 F 402-334-9121
 www.midwestlabs.com

UF/IFAS Shellfish Extension Pr - 59065
 11350 SW 153rd Court,
 Cedar Key, FL 32625

Project: VOC on Water for Shellfish

Project Manager: Natalie Simon

Reported:
 2021-05-17 10:51

Sample ID: t383

Laboratory ID: 1570340-01

Sampled Date/Time: 2021-04-27 09:00

Analyte	Result	Reporting Limit	Units	Method	Prepared	Analyzed	Analyst	(Container) / Notes
Volatile Organic Compounds								
Dibromochloromethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
2-Hexanone	<	10.0	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,2-Dibromoethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Tetrachloroethene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,1,1,2-Tetrachloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Chlorobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Ethylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
m,p-Xylenes	<	2.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Bromoform	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
cis-1,4-Dichloro-2-butene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Styrene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,1,2,2-Tetrachloroethane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
o-Xylene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,2,3-Trichloropropane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
trans-1,4-Dichloro-2-butene	<	5.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Isopropylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Bromobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
n-Propyl Benzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
2-Chlorotoluene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
4-Chlorotoluene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,3,5-Trimethylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
tert-Butylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,2,4-Trimethylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
sec-Butylbenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,3-Dichlorobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,4-Dichlorobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
p-Isopropyltoluene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,2-Dichlorobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
n-Butyl Benzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,2-Dibromo-3-Chloropropane	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,2,4-Trichlorobenzene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Naphthalene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Hexachlorobutadiene	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
1,2,3-Trichlorobenzene	<	2.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Total Xylenes	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Total Trihalomethanes	<	1.00	ug/L	EPA 8260	2021-05-05	2021-05-05	nto7	(C)
Surrogate: Toluene-d8	96 %	80-120		EPA 8260	2021-05-05	2021-05-05		(C)
Surrogate: Bromofluorobenzene	100 %	73-120		EPA 8260	2021-05-05	2021-05-05		(C)
Surrogate: 1,2-Dichlorobenzene-d4	111 %	80-120		EPA 8260	2021-05-05	2021-05-05		(C)



Midwest Laboratories
13611 B Street
Omaha, NE 68144
P 402-334-7770
F 402-334-9121
www.midwestlabs.com

17 May 2021

Work Order: 1570338

Natalie Simon
UF/IFAS Shellfish Extension Pr - 59065
11350 SW 153rd Court,
Cedar Key, FL 32625
RE: VOC on Water for Shellfish

Enclosed are the results of analyses for samples received by the laboratory on 2021-05-03 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerri Stanek". The signature is written in a cursive, flowing style.

Kerri Stanek
Project Manager
kstanek@midwestlabs.com



Midwest Laboratories
 13611 B Street
 Omaha, NE 68144
 P 402-334-7770
 F 402-334-9121
 www.midwestlabs.com

UF/IFAS Shellfish Extension Pr - 59065
 11350 SW 153rd Court,
 Cedar Key, FL 32625

Project: VOC on Water for Shellfish

Project Manager: Natalie Simon

Reported:
 2021-05-28 17:05

Certified Analyses included in this Report

Method	Analyte	Certifications
<i>EPA 8260 in Aqueous</i>	Dichlorodifluoromethane	FL,KS
	Chloromethane	FL,KS
	Vinyl chloride	FL,KS,TX
	Bromomethane	FL,KS,TX
	Chloroethane	FL,KS,TX
	Trichlorofluoromethane	FL,KS,TX
	Acetone	FL
	1,1-Dichloroethene	FL,KS,TX
	Acrylonitrile	FL
	Methylene Chloride	FL
	1,1,2-Trichloro-1,1,2-trifluoroethane	FL
	Carbon disulfide	FL,KS,TX
	trans-1,2-Dichloroethene	FL,KS,TX
	Methyl tert-Butyl Ether	FL,KS,TX
	1,1-Dichloroethane	FL,KS,TX
	Vinyl acetate	FL,KS,TX
	2-Butanone	FL,TX
	cis-1,2-Dichloroethene	FL,KS,TX
	Bromochloromethane	FL,KS
	Chloroform	FL,KS,TX
	2,2-Dichloropropane	FL,KS
	1,2-Dichloroethane	FL,KS,TX
	1,1,1-Trichloroethane	FL,KS,TX
	1,1-Dichloropropene	FL,KS
	Carbon Tetrachloride	FL,KS,TX
	Benzene	FL,KS,TX,IA
	Dibromomethane	FL,KS,TX
	1,2-Dichloropropane	FL,KS,TX
	Trichloroethene	FL,KS,TX
	Bromodichloromethane	FL,KS,TX
	cis-1,3-Dichloropropene	FL,KS,TX
	4-Methyl-2-pentanone	FL,KS
	trans-1,3-Dichloropropene	FL,KS,TX
	1,1,2-Trichloroethane	FL,KS,TX
	Toluene	FL,KS,TX,IA
	1,3-Dichloropropane	FL,KS
	Dibromochloromethane	FL,KS,TX
	2-Hexanone	FL,KS,TX
	1,2-Dibromoethane	FL,TX
	Tetrachloroethene	FL,KS,TX
	1,1,1,2-Tetrachloroethane	FL,KS,TX
	Chlorobenzene	FL,KS,TX
Ethylbenzene	FL,KS,TX,IA	
m,p-Xylenes	FL	
Bromoform	FL,KS,TX	
Styrene	FL,KS,TX	
1,1,2,2-Tetrachloroethane	FL,KS,TX	

UF/IFAS Shellfish Extension Pr - 59065
 11350 SW 153rd Court,
 Cedar Key, FL 32625

Project: VOC on Water for Shellfish

Project Manager: Natalie Simon

Reported:
 2021-05-28 17:05

EPA 8260 in Aqueous

o-Xylene	FL,KS
1,2,3-Trichloropropane	FL,KS
Isopropylbenzene	FL
Bromobenzene	FL,KS
n-Propyl Benzene	FL,KS,TX
2-Chlorotoluene	FL,KS
4-Chlorotoluene	FL,KS
1,3,5-Trimethylbenzene	FL,KS,TX
tert-Butylbenzene	FL,TX
1,2,4-Trimethylbenzene	FL,KS
sec-Butylbenzene	FL,KS,TX
1,3-Dichlorobenzene	FL,KS,TX
1,4-Dichlorobenzene	FL,TX
p-Isopropyltoluene	FL
1,2-Dichlorobenzene	FL,KS,TX
n-Butyl Benzene	FL,KS
1,2-Dibromo-3-Chloropropane	FL,KS,TX
1,2,4-Trichlorobenzene	FL,KS
Naphthalene	FL,TX
Hexachlorobutadiene	FL
1,2,3-Trichlorobenzene	FL,KS
Total Xylenes	FL,TX,IA
Total Trihalomethanes	FL

Non-Certified Analyses included in this Report

Method	Analyte
EPA 8260 in Aqueous	Ethyl Ether
	Iodomethane
	Allyl Chloride
	Chloroprene
	Methyl Acrylate
	Tetrahydrofuran
	Methyl Methacrylate
	Ethyl Methacrylate
	cis-1,4-Dichloro-2-butene
	trans-1,4-Dichloro-2-butene

Code	Description	Number	Expires
FL	Florida Department of Health	E87918	06/30/2021
IA	Iowa Department of Natural Resources	064	05/01/2021
KS	Kansas Department of Health and Environment	E-10402	04/30/2022
NE	State of Nebraska Dept of Health & Human Services	NE-04-05	06/30/2021
OK	Oklahoma Department of Environmental Quality	2020-061	08/31/2021
TX	Texas Commission on Environmental Quality	T104704416-20-14	07/31/2021
UT	State of Utah Department of Health	NE000012020-10	07/31/2021
WA	State of Washington Department of Ecology	C912	06/07/2021



Midwest Laboratories
13611 B Street
Omaha, NE 68144
P 402-334-7770
F 402-334-9121
www.midwestlabs.com

UF/IFAS Shellfish Extension Pr - 59065
11350 SW 153rd Court,
Cedar Key, FL 32625

Project: VOC on Water for Shellfish

Project Manager: Natalie Simon

Reported:
2021-05-28 17:05

Notes and Definitions

- CAL The analyte exceeds the required 20% RSD for the initial calibration. Due to the large amount of analytes being tested, up to 10% can have a %RSD of greater than 20% but less than 35%.
- < Less than reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

EPA 524.2, EPA 624, EPA 8260, OA-1, TCLP VOC, GRO, and all microbiological analyses are conducted in the facility located at 13606 B Street, Omaha, NE 68144. All other analyses are conducted in the main facility located at 13611 B Street, Omaha, NE 68144.