

Collection Location	Collector and Phone nellesen 515/669-5494	Client Reference mw-5i	Accession # 2331436
	Collected 2023-09-05 07:30	Received 2023-09-05 09:59	Project wmsf
Report To	SHELLY NELLESEN IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH ST DES MOINES, IA 50319-0034		Sample Description mw-5i
			Sample Type Non-Drinking Water
			Sample Source
			Sample Note(s) 1

RESULTS OF ANALYSIS - FINAL REPORT

TEST	RESULT (ug/L)	QUANT LIMIT	ANALYSIS NOTE(S)
<i>GCMS Volatiles, EPA 8260</i>			
Chloromethane	<250	250	
Bromomethane	<250	250	
Vinyl chloride	<250	250	
Chloroethane	<250	250	
Methylene chloride	<250	250	
Methyl-t-butyl ether (MtBE)	<250	250	
Acetone	<250	250	
Carbon disulfide	<250	250	
1,1-Dichloroethene	<250	250	
1,1-Dichloroethane	<250	250	
Total 1,2-Dichloroethenes	<250	250	
Chloroform	<250	250	
1,2-Dichloroethane	<250	250	
2-Butanone	<250	250	
1,1,1-Trichloroethane	<250	250	
Carbon tetrachloride	<250	250	
Bromodichloromethane	<250	250	
1,2-Dichloropropane	<250	250	
cis-1,3-Dichloropropene	<250	250	
Trichloroethene	<250	250	
Dibromochloromethane	<250	250	
1,1,2-Trichloroethane	<250	250	
Benzene	<250	250	
trans-1,3-Dichloropropene	<250	250	
Bromoform	<250	250	
4-Methyl-2-pentanone	<250	250	
2-Hexanone	<250	250	
1,1,2,2-Tetrachloroethane	<250	250	
Toluene	<250	250	
Chlorobenzene	<250	250	
Ethylbenzene	<250	250	
Styrene	<250	250	
Total Xylenes	<250	250	
<i>GCMS Volatiles, EPA 8260</i>			
Tetrachloroethene	13000	500	



Collection Location	Collector nellesen	Client Reference mw-5i	Accession # 2331436
---------------------	-----------------------	---------------------------	------------------------

SAMPLE AND ANALYSIS NOTES

1. Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

ANALYSIS INFORMATION

<u>TEST</u>	<u>ANALYZED</u>	<u>SITE</u>	<u>RELEASED</u>	<u>ANALYSIS PREP</u>
1. GCMS Volatiles, EPA 8260	2023-09-06 10:57 LJL	3200	2023-09-08 09:48 TGC	
2. GCMS Volatiles, EPA 8260	2023-09-06 14:49 LJL	3200	2023-09-08 09:48 TGC	

DESCRIPTION OF UNITS

ug/L = Micrograms per Liter

SITE(S) PERFORMING TESTING

3200 STATE HYGIENIC LABORATORY CORALVILLE, UNIVERSITY OF IOWA RESEARCH PK, 2490 CROSSPARK RD, CORALVILLE, IA 52241; Phone 319/335-4500; Fax 319/335-4555; Michael D. Schueller, M.S., Associate Director; Wade K. Aldous, Ph.D. (D)ABMM, Associate Director; IOWA ENVIRONMENTAL LAB ID #027

The result(s) of this report relate only to the items analyzed. Where the laboratory has not been responsible for the sampling stage the results apply only to the sample as received. This report shall not be reproduced except in full without the written approval of the laboratory. If you have any questions, please call Client Services at 800/421-IOWA (4692) or 319/335-4500.

Report To	Collection Location	Collector and Phone nellesen 515/669-5494	Client Reference mw-5d	Accession # 2331437
		Collected 2023-09-05 07:43	Received 2023-09-05 09:59	Project wmsf
	SHELLY NELLESEN IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH ST DES MOINES, IA 50319-0034			Sample Description mw-5d
				Sample Type Non-Drinking Water
				Sample Source
				Sample Note(s) 1

RESULTS OF ANALYSIS - FINAL REPORT

TEST	RESULT (ug/L)	QUANT LIMIT	ANALYSIS NOTE(S)
<i>GCMS Volatiles, EPA 8260</i>			
Chloromethane	<250	250	
Bromomethane	<250	250	
Vinyl chloride	<250	250	
Chloroethane	<250	250	
Methylene chloride	<250	250	
Methyl-t-butyl ether (MtBE)	<250	250	
Acetone	<250	250	
Carbon disulfide	<250	250	
1,1-Dichloroethene	<250	250	
1,1-Dichloroethane	<250	250	
Total 1,2-Dichloroethenes	<250	250	
Chloroform	<250	250	
1,2-Dichloroethane	<250	250	
2-Butanone	<250	250	
1,1,1-Trichloroethane	<250	250	
Carbon tetrachloride	<250	250	
Bromodichloromethane	<250	250	
1,2-Dichloropropane	<250	250	
cis-1,3-Dichloropropene	<250	250	
Trichloroethene	570	250	
Dibromochloromethane	<250	250	
1,1,2-Trichloroethane	<250	250	
Benzene	<250	250	
trans-1,3-Dichloropropene	<250	250	
Bromoform	<250	250	
4-Methyl-2-pentanone	<250	250	
2-Hexanone	<250	250	
1,1,2,2-Tetrachloroethane	<250	250	
Toluene	<250	250	
Chlorobenzene	<250	250	
Ethylbenzene	<250	250	
Styrene	<250	250	
Total Xylenes	<250	250	
<i>GCMS Volatiles, EPA 8260</i>			
Tetrachloroethene	39000	2500	



Collection Location	Collector nellesen	Client Reference mw-5d	Accession # 2331437
---------------------	-----------------------	---------------------------	------------------------

SAMPLE AND ANALYSIS NOTES

1. Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

ANALYSIS INFORMATION

<u>TEST</u>	<u>ANALYZED</u>	<u>SITE</u>	<u>RELEASED</u>	<u>ANALYSIS PREP</u>
1. GCMS Volatiles, EPA 8260	2023-09-06 11:26 LJL	3200	2023-09-08 09:48 TGC	
2. GCMS Volatiles, EPA 8260	2023-09-06 15:18 LJL	3200	2023-09-08 09:48 TGC	

DESCRIPTION OF UNITS

ug/L = Micrograms per Liter

SITE(S) PERFORMING TESTING

3200 STATE HYGIENIC LABORATORY CORALVILLE, UNIVERSITY OF IOWA RESEARCH PK, 2490 CROSSPARK RD, CORALVILLE, IA 52241; Phone 319/335-4500; Fax 319/335-4555; Michael D. Schueller, M.S., Associate Director; Wade K. Aldous, Ph.D. (D)ABMM, Associate Director; IOWA ENVIRONMENTAL LAB ID #027

The result(s) of this report relate only to the items analyzed. Where the laboratory has not been responsible for the sampling stage the results apply only to the sample as received. This report shall not be reproduced except in full without the written approval of the laboratory. If you have any questions, please call Client Services at 800/421-IOWA (4692) or 319/335-4500.

Collection Location	Collector and Phone nellesen 515/669-5494	Client Reference mw-2s	Accession # 2331438
	Collected 2023-09-05 08:15	Received 2023-09-05 09:59	Project wmsf
Report To	SHELLY NELLESEN IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH ST DES MOINES, IA 50319-0034		Sample Description mw-2s
			Sample Type Non-Drinking Water
			Sample Source
			Sample Note(s) 1

RESULTS OF ANALYSIS - FINAL REPORT

TEST	RESULT (ug/L)	QUANT LIMIT	ANALYSIS NOTE(S)
<i>GCMS Volatiles, EPA 8260</i>			
Chloromethane	<250	250	
Bromomethane	<250	250	
Vinyl chloride	<250	250	
Chloroethane	<250	250	
Methylene chloride	<250	250	
Methyl-t-butyl ether (MtBE)	<250	250	
Acetone	<250	250	
Carbon disulfide	<250	250	
1,1-Dichloroethene	<250	250	
1,1-Dichloroethane	<250	250	
Total 1,2-Dichloroethenes	<250	250	
Chloroform	<250	250	
1,2-Dichloroethane	<250	250	
2-Butanone	<250	250	
1,1,1-Trichloroethane	<250	250	
Carbon tetrachloride	<250	250	
Bromodichloromethane	<250	250	
1,2-Dichloropropane	<250	250	
cis-1,3-Dichloropropene	<250	250	
Trichloroethene	<250	250	
Dibromochloromethane	<250	250	
1,1,2-Trichloroethane	<250	250	
Benzene	<250	250	
trans-1,3-Dichloropropene	<250	250	
Bromoform	<250	250	
4-Methyl-2-pentanone	<250	250	
2-Hexanone	<250	250	
Tetrachloroethene	1300	250	
1,1,2,2-Tetrachloroethane	<250	250	
Toluene	<250	250	
Chlorobenzene	<250	250	
Ethylbenzene	<250	250	
Styrene	<250	250	
Total Xylenes	<250	250	



Collection Location	Collector nellesen	Client Reference mw-2s	Accession # 2331438
---------------------	-----------------------	---------------------------	------------------------

SAMPLE AND ANALYSIS NOTES

1. Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

ANALYSIS INFORMATION

TEST

1. GCMS Volatiles, EPA 8260

ANALYZED

2023-09-06 11:55 LJL

SITE

3200

RELEASED

2023-09-08 09:48 TGC

ANALYSIS PREP

DESCRIPTION OF UNITS

ug/L = Micrograms per Liter

SITE(S) PERFORMING TESTING

3200 STATE HYGIENIC LABORATORY CORALVILLE, UNIVERSITY OF IOWA RESEARCH PK, 2490 CROSSPARK RD, CORALVILLE, IA 52241; Phone 319/335-4500; Fax 319/335-4555; Michael D. Schueller, M.S., Associate Director; Wade K. Aldous, Ph.D. (D)ABMM, Associate Director; IOWA ENVIRONMENTAL LAB ID #027

The result(s) of this report relate only to the items analyzed. Where the laboratory has not been responsible for the sampling stage the results apply only to the sample as received. This report shall not be reproduced except in full without the written approval of the laboratory. If you have any questions, please call Client Services at 800/421-IOWA (4692) or 319/335-4500.

Collection Location	Collector and Phone nellesen 515/669-5494	Client Reference mw-2i	Accession # 2331439
	Collected 2023-09-05 08:25	Received 2023-09-05 09:59	Project wmsf
Report To	SHELLY NELLESEN IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH ST DES MOINES, IA 50319-0034		Sample Description mw-2i
			Sample Type Non-Drinking Water
			Sample Source
			Sample Note(s) 1

RESULTS OF ANALYSIS - FINAL REPORT

TEST	RESULT (ug/L)	QUANT LIMIT	ANALYSIS NOTE(S)
<i>GCMS Volatiles, EPA 8260</i>			
Chloromethane	<250	250	
Bromomethane	<250	250	
Vinyl chloride	<250	250	
Chloroethane	<250	250	
Methylene chloride	<250	250	
Methyl-t-butyl ether (MtBE)	<250	250	
Acetone	<250	250	
Carbon disulfide	<250	250	
1,1-Dichloroethene	<250	250	
1,1-Dichloroethane	<250	250	
Total 1,2-Dichloroethenes	1300	250	
Chloroform	<250	250	
1,2-Dichloroethane	<250	250	
2-Butanone	<250	250	
1,1,1-Trichloroethane	<250	250	
Carbon tetrachloride	<250	250	
Bromodichloromethane	<250	250	
1,2-Dichloropropane	<250	250	
cis-1,3-Dichloropropene	<250	250	
Trichloroethene	2300	250	
Dibromochloromethane	<250	250	
1,1,2-Trichloroethane	<250	250	
Benzene	<250	250	
trans-1,3-Dichloropropene	<250	250	
Bromoform	<250	250	
4-Methyl-2-pentanone	<250	250	
2-Hexanone	<250	250	
1,1,2,2-Tetrachloroethane	<250	250	
Toluene	<250	250	
Chlorobenzene	<250	250	
Ethylbenzene	<250	250	
Styrene	<250	250	
Total Xylenes	<250	250	
<i>GCMS Volatiles, EPA 8260</i>			
Tetrachloroethene	23000	1200	



Collection Location	Collector nellesen	Client Reference mw-2i	Accession # 2331439
---------------------	-----------------------	---------------------------	------------------------

SAMPLE AND ANALYSIS NOTES

1. Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

ANALYSIS INFORMATION

<u>TEST</u>	<u>ANALYZED</u>	<u>SITE</u>	<u>RELEASED</u>	<u>ANALYSIS PREP</u>
1. GCMS Volatiles, EPA 8260	2023-09-06 12:24 LJL	3200	2023-09-08 09:48 TGC	
2. GCMS Volatiles, EPA 8260	2023-09-06 15:47 LJL	3200	2023-09-08 09:48 TGC	

DESCRIPTION OF UNITS

ug/L = Micrograms per Liter

SITE(S) PERFORMING TESTING

3200 STATE HYGIENIC LABORATORY CORALVILLE, UNIVERSITY OF IOWA RESEARCH PK, 2490 CROSSPARK RD, CORALVILLE, IA 52241; Phone 319/335-4500; Fax 319/335-4555; Michael D. Schueller, M.S., Associate Director; Wade K. Aldous, Ph.D. (D)ABMM, Associate Director; IOWA ENVIRONMENTAL LAB ID #027

The result(s) of this report relate only to the items analyzed. Where the laboratory has not been responsible for the sampling stage the results apply only to the sample as received. This report shall not be reproduced except in full without the written approval of the laboratory. If you have any questions, please call Client Services at 800/421-IOWA (4692) or 319/335-4500.

Report To	Collection Location	Collector and Phone nellesen 515/669-5494	Client Reference mw-2d	Accession # 2331440
		Collected 2023-09-05 08:45	Received 2023-09-05 09:59	Project wmsf
	SHELLY NELLESEN IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH ST DES MOINES, IA 50319-0034			Sample Description mw-2d
				Sample Type Non-Drinking Water
				Sample Source
				Sample Note(s) 1

RESULTS OF ANALYSIS - FINAL REPORT

TEST	RESULT (ug/L)	QUANT LIMIT	ANALYSIS NOTE(S)
<i>GCMS Volatiles, EPA 8260</i>			
Chloromethane	<250	250	
Bromomethane	<250	250	
Vinyl chloride	<250	250	
Chloroethane	<250	250	
Methylene chloride	<250	250	
Methyl-t-butyl ether (MtBE)	<250	250	
Acetone	<250	250	
Carbon disulfide	<250	250	
1,1-Dichloroethene	<250	250	
1,1-Dichloroethane	<250	250	
Total 1,2-Dichloroethenes	500	250	
Chloroform	<250	250	
1,2-Dichloroethane	<250	250	
2-Butanone	<250	250	
1,1,1-Trichloroethane	<250	250	
Carbon tetrachloride	<250	250	
Bromodichloromethane	<250	250	
1,2-Dichloropropane	<250	250	
cis-1,3-Dichloropropene	<250	250	
Trichloroethene	2900	250	
Dibromochloromethane	<250	250	
1,1,2-Trichloroethane	<250	250	
Benzene	<250	250	
trans-1,3-Dichloropropene	<250	250	
Bromoform	<250	250	
4-Methyl-2-pentanone	<250	250	
2-Hexanone	<250	250	
1,1,2,2-Tetrachloroethane	<250	250	
Toluene	<250	250	
Chlorobenzene	<250	250	
Ethylbenzene	<250	250	
Styrene	<250	250	
Total Xylenes	<250	250	
<i>GCMS Volatiles, EPA 8260</i>			
Tetrachloroethene	42000	2500	



Collection Location	Collector nellesen	Client Reference mw-2d	Accession # 2331440
---------------------	-----------------------	---------------------------	------------------------

SAMPLE AND ANALYSIS NOTES

1. Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

ANALYSIS INFORMATION

<u>TEST</u>	<u>ANALYZED</u>	<u>SITE</u>	<u>RELEASED</u>	<u>ANALYSIS PREP</u>
1. GCMS Volatiles, EPA 8260	2023-09-06 12:53 LJL	3200	2023-09-08 09:48 TGC	
2. GCMS Volatiles, EPA 8260	2023-09-06 16:16 LJL	3200	2023-09-08 09:48 TGC	

DESCRIPTION OF UNITS

ug/L = Micrograms per Liter

SITE(S) PERFORMING TESTING

3200 STATE HYGIENIC LABORATORY CORALVILLE, UNIVERSITY OF IOWA RESEARCH PK, 2490 CROSSPARK RD, CORALVILLE, IA 52241; Phone 319/335-4500; Fax 319/335-4555; Michael D. Schueller, M.S., Associate Director; Wade K. Aldous, Ph.D. (D)ABMM, Associate Director; IOWA ENVIRONMENTAL LAB ID #027

The result(s) of this report relate only to the items analyzed. Where the laboratory has not been responsible for the sampling stage the results apply only to the sample as received. This report shall not be reproduced except in full without the written approval of the laboratory. If you have any questions, please call Client Services at 800/421-IOWA (4692) or 319/335-4500.

Collection Location	Collector and Phone nellesen 515/669-5494	Client Reference mw-3s	Accession # 2331441
	Collected 2023-09-05 09:06	Received 2023-09-05 09:59	Project wmsf
Report To	SHELLY NELLESEN IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH ST DES MOINES, IA 50319-0034		Sample Description mw-3s
			Sample Type Non-Drinking Water
			Sample Source
			Sample Note(s) 1

RESULTS OF ANALYSIS - FINAL REPORT

TEST	RESULT (ug/L)	QUANT LIMIT	ANALYSIS NOTE(S)
<i>GCMS Volatiles, EPA 8260</i>			
Chloromethane	<250	250	
Bromomethane	<250	250	
Vinyl chloride	<250	250	
Chloroethane	<250	250	
Methylene chloride	<250	250	
Methyl-t-butyl ether (MtBE)	<250	250	
Acetone	<250	250	
Carbon disulfide	<250	250	
1,1-Dichloroethene	<250	250	
1,1-Dichloroethane	<250	250	
Total 1,2-Dichloroethenes	<250	250	
Chloroform	<250	250	
1,2-Dichloroethane	<250	250	
2-Butanone	<250	250	
1,1,1-Trichloroethane	<250	250	
Carbon tetrachloride	<250	250	
Bromodichloromethane	<250	250	
1,2-Dichloropropane	<250	250	
cis-1,3-Dichloropropene	<250	250	
Trichloroethene	410	250	
Dibromochloromethane	<250	250	
1,1,2-Trichloroethane	<250	250	
Benzene	<250	250	
trans-1,3-Dichloropropene	<250	250	
Bromoform	<250	250	
4-Methyl-2-pentanone	<250	250	
2-Hexanone	<250	250	
Tetrachloroethene	2100	250	
1,1,2,2-Tetrachloroethane	<250	250	
Toluene	<250	250	
Chlorobenzene	<250	250	
Ethylbenzene	<250	250	
Styrene	<250	250	
Total Xylenes	<250	250	



Collection Location	Collector nellesen	Client Reference mw-3s	Accession # 2331441
---------------------	-----------------------	---------------------------	------------------------

SAMPLE AND ANALYSIS NOTES

1. Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

ANALYSIS INFORMATION

TEST

1. GCMS Volatiles, EPA 8260

ANALYZED

2023-09-06 13:21 LJL

SITE

3200

RELEASED

2023-09-08 09:48 TGC

ANALYSIS PREP

DESCRIPTION OF UNITS

ug/L = Micrograms per Liter

SITE(S) PERFORMING TESTING

3200 STATE HYGIENIC LABORATORY CORALVILLE, UNIVERSITY OF IOWA RESEARCH PK, 2490 CROSSPARK RD, CORALVILLE, IA 52241; Phone 319/335-4500; Fax 319/335-4555; Michael D. Schueller, M.S., Associate Director; Wade K. Aldous, Ph.D. (D)ABMM, Associate Director; IOWA ENVIRONMENTAL LAB ID #027

The result(s) of this report relate only to the items analyzed. Where the laboratory has not been responsible for the sampling stage the results apply only to the sample as received. This report shall not be reproduced except in full without the written approval of the laboratory. If you have any questions, please call Client Services at 800/421-IOWA (4692) or 319/335-4500.

Collection Location	Collector and Phone nellesen 515/669-5494	Client Reference trip blank	Accession # 2332077
	Collected 2023-09-05 07:00	Received 2023-09-05 09:59	Project wmsf
Report To	SHELLY NELLESEN IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH ST DES MOINES, IA 50319-0034		Sample Description mw-3s
			Sample Type Non-Drinking Water
			Sample Source
			Sample Note(s) 1

RESULTS OF ANALYSIS - FINAL REPORT

<u>TEST</u>	<u>RESULT (ug/L)</u>	<u>QUANT LIMIT</u>	<u>ANALYSIS NOTE(S)</u>
<i>GCMS Volatiles, EPA 8260</i>			
Chloromethane	<5	5	
Bromomethane	<5	5	
Vinyl chloride	<5	5	
Chloroethane	<5	5	
Methylene chloride	<5	5	
Methyl-t-butyl ether (MtBE)	<5	5	
Acetone	<5	5	
Carbon disulfide	<5	5	
1,1-Dichloroethene	<5	5	
1,1-Dichloroethane	<5	5	
Total 1,2-Dichloroethenes	<5	5	
Chloroform	<5	5	
1,2-Dichloroethane	<5	5	
2-Butanone	<5	5	
1,1,1-Trichloroethane	<5	5	
Carbon tetrachloride	<5	5	
Bromodichloromethane	<5	5	
1,2-Dichloropropane	<5	5	
cis-1,3-Dichloropropene	<5	5	
Trichloroethene	<5	5	
Dibromochloromethane	<5	5	
1,1,2-Trichloroethane	<5	5	
Benzene	<5	5	
trans-1,3-Dichloropropene	<5	5	
Bromoform	<5	5	
4-Methyl-2-pentanone	<5	5	
2-Hexanone	<5	5	
Tetrachloroethene	<5	5	
1,1,2,2-Tetrachloroethane	<5	5	
Toluene	<5	5	
Chlorobenzene	<5	5	
Ethylbenzene	<5	5	
Styrene	<5	5	
Total Xylenes	<5	5	



Collection Location	Collector nellesen	Client Reference trip blank	Accession # 2332077
---------------------	-----------------------	--------------------------------	------------------------

SAMPLE AND ANALYSIS NOTES

1. Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

ANALYSIS INFORMATION

TEST

1. GCMS Volatiles, EPA 8260

ANALYZED

2023-09-06 14:20 LJL

SITE

3200

RELEASED

2023-09-08 09:48 TGC

ANALYSIS PREP

DESCRIPTION OF UNITS

ug/L = Micrograms per Liter

SITE(S) PERFORMING TESTING

3200 STATE HYGIENIC LABORATORY CORALVILLE, UNIVERSITY OF IOWA RESEARCH PK, 2490 CROSSPARK RD, CORALVILLE, IA 52241; Phone 319/335-4500; Fax 319/335-4555; Michael D. Schueller, M.S., Associate Director; Wade K. Aldous, Ph.D. (D)ABMM, Associate Director; IOWA ENVIRONMENTAL LAB ID #027

The result(s) of this report relate only to the items analyzed. Where the laboratory has not been responsible for the sampling stage the results apply only to the sample as received. This report shall not be reproduced except in full without the written approval of the laboratory. If you have any questions, please call Client Services at 800/421-IOWA (4692) or 319/335-4500.