

June 25, 2018

Spring Grove City Council
c/o Erin Konkell, City Clerk
Spring Grove City Hall
118 First Avenue NW
Spring Grove, Minnesota 55974

Dear Council Members:

SUBJECT: Drinking Water Summary of Detect Monitoring, Spring Grove, Houston County, PWSID 1280010

The following is a summary of results including the most recent sample(s) collected from your public water system in accordance with Minnesota Rules, Chapter 4720.

The new Air Stripper entry point is being monitored quarterly, and will continue on quarterly monitoring indefinitely to observe levels of trichloroethene in your public water system. If MCL violation criteria are exceeded, your public water system will be legally obligated to notify your customers and remedy the situation.

Sampling Site: Air Stripper (New)

Contaminant: *Trichloroethene (TCE)*
MCL: 5.4 µg/L

<u>Date Collected</u>	<u>Results</u>	<u>Units</u>	<u>Sample#</u>	<u>Annual Average</u>
03/27/2018	0.43	µg/L	18C1000-01	0.3
12/07/2017	0.48	µg/L	17L0354-01	0.2
08/14/2017	0.18	µg/L	17H1157-02	0.1
06/21/2017	Not Detected	µg/L	17F1373-02	0.0

All Volatile Organic Chemical (VOC) samples will be collected and analyzed by the Minnesota Department of Health (MDH). Results will be reported to you as soon as they are available. We will notify you if any action by your system is required.

Also enclosed are investigative VOC sample results collected from the Well #3 source on March 27, 2018. These samples were collected for informational purposes only and will not be used to determine regulatory compliance.

Spring Grove City Council
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PWSID 1280010

This report should be placed in your records and a copy maintained on or near the water supply premises and available for public inspection for not less than ten (10) years. If you have any questions, please contact Cindy Swanson at 651/201-4656 or email cindy.swanson@state.mn.us.

Sincerely,



Karla R. Peterson, P.E., Supervisor
Community Public Water Supply Unit
Environmental Health Division
P.O. Box 64975
St. Paul, Minnesota 55164-0975

KRP:CLS
Enclosure
cc: Water Superintendent
Dorene Fier-Tucker, MN Pollution Control Agency
Paul Halvorson, MDH Rochester District Office



Final Report

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

PWSID: 1280010
System Name: Spring Grove
City: Spring Grove

Program Code: HC

Type: X

Date Received: 03/28/18 10:25
Rep. Temp. (°C): 5.0

Collector Name: Paul Halvorson
Collector ID: 1301

MDH Sample Number: 18C1000-01

Location ID: S03
Sampling Point: Well #3

Collect Date: 03/27/18
Collect Time: 11:15
Matrix: Drinking Water

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Init.	Method	Qualifiers
1,1,1,2-Tetrachloroethane	<	0.20	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,1,1-Trichloroethane	<	0.20	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,1,2,2-Tetrachloroethane	<	0.20	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,1,2-Trichloroethane	<	0.20	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,1,1,2-Trichlorotrifluoroethane	<	0.20	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,1-Dichloroethane	<	0.20	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,1-Dichloroethene	<	0.50	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,1-Dichloropropene	<	0.20	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,2,3-Trichlorobenzene	<	1.0	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,2,3-Trichloropropane	<	0.50	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,2,4-Trichlorobenzene	<	0.50	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,2,4-Trimethylbenzene	<	0.50	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,2-Dibromoethane (EDB)	<	0.50	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,2-Dichlorobenzene	<	0.20	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,2-Dichloroethane	<	0.20	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,2-Dichloropropane	<	0.20	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,3,5-Trimethylbenzene	<	0.50	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,3-Dichlorobenzene	<	0.20	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,3-Dichloropropane	<	0.20	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
1,4-Dichlorobenzene	<	0.20	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
2,2-Dichloropropane	<	0.50	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
2-Chlorotoluene	<	0.50	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
4-Chlorotoluene	<	0.50	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
Acetone	<	20	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
Allyl chloride	<	0.50	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
Benzene	<	0.20	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
Bromobenzene	<	0.20	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	

FINAL REPORT

Report ID: 04022018150320

Generated: 4/2/2018 3:03:19PM

Authorized by:

*The results in this report apply only to the samples analyzed.
This report must not be reproduced, except in full, without the written approval of the laboratory.*

Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health



PWSID: 1280010

MDH Sample Number: 18C1000-01

Location ID: S03
Collect Date: 03/27/18
Collect Time: 11:15
Matrix: Drinking Water
Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Table with columns: Analyte, Reporting Limit, Result, Units, Batch, Prepared, Analyzed, Init., Method, Qualifiers. Lists various VOCs like Bromochloromethane, Bromoform, Carbon tetrachloride, Chlorobenzene, etc., with their respective concentrations and reporting limits.

Authorized by:

Signature of Paul Moyer

Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

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Final Report

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

PWSID: 1280010

MDH Sample Number: 18C1000-01

Location ID: S03
Sampling Point: Well #3

Collect Date: 03/27/18
Collect Time: 11:15
Matrix: Drinking Water

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO₄ Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Init.	Method	Qualifiers
Trichlorofluoromethane	<	0.50	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
Vinyl chloride	<	0.20	ug/L	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
Surrogate: 1,2-Dichlorobenzene-d4	97	70-130	%	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
Surrogate: 1,2-Dichloroethane-d4	99	70-130	%	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
Surrogate: 4-Bromofluorobenzene	97	70-130	%	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
Surrogate: Dibromofluoromethane	92	70-130	%	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	
Surrogate: Toluene-d8	98	70-130	%	B8C0433	03/31/18 00:40	03/31/18 00:40	KCB	EPA 524.2	

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Public Health Laboratory, Minnesota Department of Health

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Public Health Laboratory
Environmental Laboratory Section
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651-201-5300

Final Report



PWSID: 1280010

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Authorized by:

A handwritten signature in black ink, appearing to read "Paul Moyer".

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health



Final Report

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

PWSID: 1280010

MDH Sample Number: 18C1000-02

Location ID: E03
Sampling Point: Air Stripper (New)

Collect Date: 03/27/18
Collect Time: 11:30
Matrix: Drinking Water

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Table with 10 columns: Analyte, Result, Reporting Limit, Units, Batch, Prepared, Analyzed, Init., Method, Qualifiers. Lists various VOCs like 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, etc., with their respective results and limits.

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Handwritten signature of Paul Moyer

Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

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PWSID: 1280010

MDH Sample Number: 18C1000-02

Location ID: E03
Collect Date: 03/27/18
Collect Time: 11:30
Matrix: Drinking Water
Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Table with columns: Analyte, Result, Reporting Limit, Units, Batch, Prepared, Analyzed, Init., Method, and Qualifiers. Lists various VOCs like Toluene, Ethylbenzene, and Chlorobenzene with their respective results and limits.

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Public Health Laboratory, Minnesota Department of Health

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 651-201-5300

PWSID: 1280010

Results were produced by Minnesota Department of Health, except where noted.

Batch B8C0433 - EPA 524.2 Prep

Blank (B8C0433-BLK1)

Prepared: 03/30/18 22:16 Analyzed: 03/30/18 22:16

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
1,1,1,2-Tetrachloroethane	<	0.20	ug/L							KCB	
1,1,1-Trichloroethane	<	0.20	ug/L							KCB	
1,1,2,2-Tetrachloroethane	<	0.20	ug/L							KCB	
1,1,2-Trichloroethane	<	0.20	ug/L							KCB	
1,1,2-Trichlorotrifluoroethane	<	0.20	ug/L							KCB	
1,1-Dichloroethane	<	0.20	ug/L							KCB	
1,1-Dichloroethene	<	0.50	ug/L							KCB	
1,1-Dichloropropene	<	0.20	ug/L							KCB	
1,2,3-Trichlorobenzene	<	1.0	ug/L							KCB	
1,2,3-Trichloropropane	<	0.50	ug/L							KCB	
1,2,4-Trichlorobenzene	<	0.50	ug/L							KCB	
1,2,4-Trimethylbenzene	<	0.50	ug/L							KCB	
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L							KCB	
1,2-Dibromoethane (EDB)	<	0.50	ug/L							KCB	
1,2-Dichlorobenzene	<	0.20	ug/L							KCB	
1,2-Dichloroethane	<	0.20	ug/L							KCB	
1,2-Dichloropropane	<	0.20	ug/L							KCB	
1,3,5-Trimethylbenzene	<	0.50	ug/L							KCB	
1,3-Dichlorobenzene	<	0.20	ug/L							KCB	
1,3-Dichloropropane	<	0.20	ug/L							KCB	
1,4-Dichlorobenzene	<	0.20	ug/L							KCB	
2,2-Dichloropropane	<	0.50	ug/L							KCB	
2-Chlorotoluene	<	0.50	ug/L							KCB	
4-Chlorotoluene	<	0.50	ug/L							KCB	
Acetone	<	20	ug/L							KCB	
Allyl chloride	<	0.50	ug/L							KCB	
Benzene	<	0.20	ug/L							KCB	
Bromobenzene	<	0.20	ug/L							KCB	
Bromochloromethane	<	0.50	ug/L							KCB	
Bromodichloromethane	<	0.20	ug/L							KCB	
Bromoform	<	0.50	ug/L							KCB	
Bromomethane	<	1.0	ug/L							KCB	
Carbon tetrachloride	<	0.20	ug/L							KCB	
Chlorobenzene	<	0.20	ug/L							KCB	
Chlorodibromomethane	<	0.50	ug/L							KCB	
Chloroethane	<	0.50	ug/L							KCB	
Chloroform	<	0.10	ug/L							KCB	
Chloromethane	<	1.0	ug/L							KCB	
cis-1,2-Dichloroethene	<	0.20	ug/L							KCB	

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 651-201-5300

Results were produced by Minnesota Department of Health, except where noted.

Batch B8C0433 - EPA 524.2 Prep

Blank (B8C0433-BLK1)

Prepared: 03/30/18 22:16 Analyzed: 03/30/18 22:16

Analyte	Reporting Limit	Result	Units	Spike Level	Source	%REC	%REC	RPD	RPD	Infl.	Qualifiers
cis-1,3-Dichloropropene	0.20	<	ug/L								KCB
Dibromomethane	0.50	<	ug/L								KCB
Dichlorodifluoromethane	1.0	<	ug/L								KCB
Dichlorofluoromethane	0.50	<	ug/L								KCB
Ethyl ether	2.0	<	ug/L								KCB
Ethylbenzene	0.50	<	ug/L								KCB
Hexachlorobutadiene	1.0	<	ug/L								KCB
Isopropylbenzene	0.50	<	ug/L								KCB
Methyl ethyl ketone (MEK)	10	<	ug/L								KCB
Methyl isobutyl ketone (MIBK)	5.0	<	ug/L								KCB
Methyl tertiary butyl ether (MTBE)	2.0	<	ug/L								KCB
Methylene chloride	0.50	<	ug/L								KCB
Naphthalene	1.0	<	ug/L								KCB
n-Butylbenzene	0.50	<	ug/L								KCB
n-Propylbenzene	0.50	<	ug/L								KCB
o-Xylene	0.20	<	ug/L								KCB
p&m-Xylene	0.30	<	ug/L								KCB
p-Isopropyltoluene	0.50	<	ug/L								KCB
sec-Butylbenzene	0.50	<	ug/L								KCB
Styrene	0.50	<	ug/L								KCB
tert-Butylbenzene	0.50	<	ug/L								KCB
Tetrachloroethene	0.20	<	ug/L								KCB
Tetrahydrofuran (THF)	10	<	ug/L								KCB
Toluene	0.20	<	ug/L								KCB
trans-1,2-Dichloroethene	0.10	<	ug/L								KCB
trans-1,3-Dichloropropene	0.20	<	ug/L								KCB
Trichloroethene (TCE)	0.10	<	ug/L								KCB
Trichlorofluoromethane	0.50	<	ug/L								KCB
Vinyl chloride	0.20	<	ug/L								KCB
Surrogate: 1,2-Dichlorobenzene-d4	70-130	96	%								KCB
Surrogate: 1,2-Dichlorobenzene-d4	70-130	102	%								KCB
Surrogate: 4-Bromofluorobenzene	70-130	97	%								KCB
Surrogate: Dibromofluoromethane	70-130	98	%								KCB
Surrogate: Toluene-d8	70-130	99	%								KCB

Authorized by:

Paul Moyer

Paul Moyer, Environmental Laboratory Manager
 Public Health Laboratory, Minnesota Department of Health

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 Environmental Laboratory Section
 601 Robert St. N., P.O. Box 64899
 St. Paul, MN 55164-0899
 651-201-5300

PWSID: 1280010

Results were produced by Minnesota Department of Health, except where noted.

Batch B8C0433 - EPA 524.2 Prep

LCS (B8C0433-BS1)

Prepared: 03/30/18 21:19 Analyzed: 03/30/18 21:19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
1,1,1,2-Tetrachloroethane	5.1	0.20	ug/L	5		102	70-130			KCB	
1,1,1-Trichloroethane	5.3	0.20	ug/L	5		105	70-130			KCB	
1,1,2,2-Tetrachloroethane	5.2	0.20	ug/L	5		104	70-130			KCB	
1,1,2-Trichloroethane	5.2	0.20	ug/L	5		105	70-130			KCB	
1,1,2-Trichlorotrifluoroethane	4.9	0.20	ug/L	5		97	70-130			KCB	
1,1-Dichloroethane	5.2	0.20	ug/L	5		105	70-130			KCB	
1,1-Dichloroethene	5.0	0.50	ug/L	5		101	70-130			KCB	
1,1-Dichloropropane	4.9	0.20	ug/L	5		99	70-130			KCB	
1,2,3-Trichlorobenzene	5.1	1.0	ug/L	5		102	70-130			KCB	
1,2,3-Trichloropropane	5.2	0.50	ug/L	5		104	70-130			KCB	
1,2,4-Trichlorobenzene	5.1	0.50	ug/L	5		102	70-130			KCB	
1,2,4-Trimethylbenzene	5.4	0.50	ug/L	5		108	70-130			KCB	
1,2-Dibromo-3-chloropropane (DBCP)	5.0	2.0	ug/L	5		100	70-130			KCB	
1,2-Dibromoethane (EDB)	5.2	0.50	ug/L	5		105	70-130			KCB	
1,2-Dichlorobenzene	5.2	0.20	ug/L	5		105	70-130			KCB	
1,2-Dichloroethane	5.3	0.20	ug/L	5		105	70-130			KCB	
1,2-Dichloropropane	5.2	0.20	ug/L	5		104	70-130			KCB	
1,3,5-Trimethylbenzene	5.4	0.50	ug/L	5		108	70-130			KCB	
1,3-Dichlorobenzene	5.3	0.20	ug/L	5		106	70-130			KCB	
1,3-Dichloropropane	5.2	0.20	ug/L	5		104	70-130			KCB	
1,4-Dichlorobenzene	5.3	0.20	ug/L	5		106	70-130			KCB	
2,2-Dichloropropane	4.7	0.50	ug/L	5		95	70-130			KCB	
2-Chlorotoluene	5.2	0.50	ug/L	5		104	70-130			KCB	
4-Chlorotoluene	5.3	0.50	ug/L	5		106	70-130			KCB	
Acetone	51	20	ug/L	50		102	70-130			KCB	
Allyl chloride	4.7	0.50	ug/L	5		95	70-130			KCB	
Benzene	5.2	0.20	ug/L	5		103	70-130			KCB	
Bromobenzene	5.3	0.20	ug/L	5		106	70-130			KCB	
Bromochloromethane	5.2	0.50	ug/L	5		105	70-130			KCB	
Bromodichloromethane	5.0	0.20	ug/L	5		100	70-130			KCB	
Bromoform	4.9	0.50	ug/L	5		99	70-130			KCB	
Bromomethane	5.1	1.0	ug/L	5		102	70-130			KCB	
Carbon tetrachloride	4.6	0.20	ug/L	5		93	70-130			KCB	
Chlorobenzene	5.2	0.20	ug/L	5		105	70-130			KCB	
Chlorodibromomethane	5.2	0.50	ug/L	5		105	70-130			KCB	
Chloroethane	5.3	0.50	ug/L	5		106	70-130			KCB	
Chloroform	5.2	0.10	ug/L	5		104	70-130			KCB	
Chloromethane	5.0	1.0	ug/L	5		99	70-130			KCB	
cis-1,2-Dichloroethene	5.2	0.20	ug/L	5		103	70-130			KCB	
cis-1,3-Dichloropropene	5.1	0.20	ug/L	5		101	70-130			KCB	

FINAL REPORT

Report ID: 04022018150320

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Authorized by:

Paul Moyer, Environmental Laboratory Manager
 Public Health Laboratory, Minnesota Department of Health

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PWSID: 1280010

Final Report

Minnesota Department of Health
 Public Health Laboratory
 Environmental Laboratory Section
 601 Robert St. N., P.O. Box 64899
 St. Paul, MN 55164-0899
 651-201-5300

Results were produced by Minnesota Department of Health, except where noted.

Batch B8C0433 - EPA 524.2 Prep

LCS (B8C0433-BS1)

Prepared: 03/30/18 21:19 Analyzed: 03/30/18 21:19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Ink	Qualifiers
Dibromomethane	5.3	0.50	ug/L	5	105	5	70-130	105	70-130	KCB	
Dichlorodifluoromethane	5.0	1.0	ug/L	5	99	5	70-130	99	70-130	KCB	
Dichlorofluoromethane	5.3	0.50	ug/L	5	106	5	70-130	106	70-130	KCB	
Ethyl ether	5.2	2.0	ug/L	5	104	5	70-130	104	70-130	KCB	
Ethylbenzene	5.4	0.50	ug/L	5	107	5	70-130	107	70-130	KCB	
Hexachlorobutadiene	5.3	1.0	ug/L	5	105	5	70-130	105	70-130	KCB	
Isopropylbenzene	5.4	0.50	ug/L	5	108	5	70-130	108	70-130	KCB	
Methyl ethyl ketone (MEK)	26	10	ug/L	25	104	25	70-130	104	70-130	KCB	
Methyl isobutyl ketone (MIBK)	27	5.0	ug/L	25	107	25	70-130	107	70-130	KCB	
Methyl tertiary butyl ether (MTBE)	5.1	2.0	ug/L	5	102	5	70-130	102	70-130	KCB	
Methylene chloride	5.2	0.50	ug/L	5	105	5	70-130	105	70-130	KCB	
Naphthalene	4.4	1.0	ug/L	5	88	5	70-130	88	70-130	KCB	
n-Butylbenzene	4.7	0.50	ug/L	5	93	5	70-130	93	70-130	KCB	
n-Propylbenzene	5.4	0.50	ug/L	5	109	5	70-130	109	70-130	KCB	
o-Xylene	5.2	0.20	ug/L	5	105	5	70-130	105	70-130	KCB	
p&m-Xylene	5.3	0.30	ug/L	5	105	5	70-130	105	70-130	KCB	
p-Isopropyltoluene	4.7	0.50	ug/L	5	95	5	70-130	95	70-130	KCB	
sec-Butylbenzene	4.9	0.50	ug/L	5	98	5	70-130	98	70-130	KCB	
Styrene	5.2	0.50	ug/L	5	105	5	70-130	105	70-130	KCB	
tert-Butylbenzene	5.4	0.50	ug/L	5	108	5	70-130	108	70-130	KCB	
Tetrachloroethene	5.4	0.20	ug/L	5	108	5	70-130	108	70-130	KCB	
Tetrahydrofuran (THF)	50	10	ug/L	50	100	50	70-130	100	70-130	KCB	
Toluene	5.2	0.20	ug/L	5	105	5	70-130	105	70-130	KCB	
trans-1,2-Dichloroethene	5.5	0.10	ug/L	5	110	5	70-130	110	70-130	KCB	
trans-1,3-Dichloropropene	5.1	0.20	ug/L	5	102	5	70-130	102	70-130	KCB	
Trichloroethene (TCE)	5.3	0.10	ug/L	5	107	5	70-130	107	70-130	KCB	
Trichlorofluoromethane	4.9	0.50	ug/L	5	98	5	70-130	98	70-130	KCB	
Vinyl chloride	5.1	0.20	ug/L	5	102	5	70-130	102	70-130	KCB	
Surrogate: 1,2-Dichlorobenzene-d4	103	70-130	%	10	103	10	70-130	103	70-130	KCB	
Surrogate: 1,2-Dichloroethane-d4	101	70-130	%	10	101	10	70-130	101	70-130	KCB	
Surrogate: 4-Bromofluorobenzene	100	70-130	%	10	100	10	70-130	100	70-130	KCB	
Surrogate: Dibromofluoromethane	97	70-130	%	10	97	10	70-130	97	70-130	KCB	
Surrogate: Toluene-d8	101	70-130	%	10	101	10	70-130	101	70-130	KCB	

Authorized by:

Paul Moyer, Environmental Laboratory Manager
 Public Health Laboratory, Minnesota Department of Health

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Minnesota Department of Health
 Public Health Laboratory
 Environmental Laboratory Section
 601 Robert St. N., P.O. Box 64899
 St. Paul, MN 55164-0899
 651-201-5300

PWSID: 1280010

Results were produced by Minnesota Department of Health, except where noted.

Batch B8C0433 - EPA 524.2 Prep

LCS Dup (B8C0433-BSD1)

Prepared: 03/31/18 01:38 Analyzed: 03/31/18 01:38

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
1,1,1,2-Tetrachloroethane	5.2	0.20	ug/L	5		104	70-130	2	30	KCB	
1,1,1-Trichloroethane	5.5	0.20	ug/L	5		111	70-130	5	30	KCB	
1,1,2,2-Tetrachloroethane	5.3	0.20	ug/L	5		106	70-130	2	30	KCB	
1,1,2-Trichloroethane	5.2	0.20	ug/L	5		105	70-130	0.4	30	KCB	
1,1,2-Trichlorotrifluoroethane	5.0	0.20	ug/L	5		101	70-130	4	30	KCB	
1,1-Dichloroethane	5.4	0.20	ug/L	5		107	70-130	3	30	KCB	
1,1-Dichloroethene	5.2	0.50	ug/L	5		104	70-130	3	30	KCB	
1,1-Dichloropropene	5.1	0.20	ug/L	5		102	70-130	3	30	KCB	
1,2,3-Trichlorobenzene	5.1	1.0	ug/L	5		101	70-130	0.8	30	KCB	
1,2,3-Trichloropropane	5.2	0.50	ug/L	5		105	70-130	0.8	30	KCB	
1,2,4-Trichlorobenzene	5.0	0.50	ug/L	5		100	70-130	1	30	KCB	
1,2,4-Trimethylbenzene	5.5	0.50	ug/L	5		110	70-130	2	30	KCB	
1,2-Dibromo-3-chloropropane (DBCP)	5.0	2.0	ug/L	5		100	70-130	0.4	30	KCB	
1,2-Dibromoethane (EDB)	5.4	0.50	ug/L	5		107	70-130	2	30	KCB	
1,2-Dichlorobenzene	5.2	0.20	ug/L	5		104	70-130	0.6	30	KCB	
1,2-Dichloroethane	5.3	0.20	ug/L	5		106	70-130	1	30	KCB	
1,2-Dichloropropane	5.3	0.20	ug/L	5		107	70-130	3	30	KCB	
1,3,5-Trimethylbenzene	5.5	0.50	ug/L	5		110	70-130	2	30	KCB	
1,3-Dichlorobenzene	5.3	0.20	ug/L	5		107	70-130	0.9	30	KCB	
1,3-Dichloropropane	5.2	0.20	ug/L	5		105	70-130	1	30	KCB	
1,4-Dichlorobenzene	5.4	0.20	ug/L	5		107	70-130	1	30	KCB	
2,2-Dichloropropane	4.4	0.50	ug/L	5		89	70-130	7	30	KCB	
2-Chlorotoluene	5.4	0.50	ug/L	5		107	70-130	3	30	KCB	
4-Chlorotoluene	5.4	0.50	ug/L	5		108	70-130	2	30	KCB	
Acetone	52	20	ug/L	50		104	70-130	2	30	KCB	
Allyl chloride	4.7	0.50	ug/L	5		94	70-130	0.6	30	KCB	
Benzene	5.4	0.20	ug/L	5		107	70-130	4	30	KCB	
Bromobenzene	5.3	0.20	ug/L	5		106	70-130	0.2	30	KCB	
Bromochloromethane	5.5	0.50	ug/L	5		110	70-130	5	30	KCB	
Bromodichloromethane	5.1	0.20	ug/L	5		103	70-130	3	30	KCB	
Bromoform	4.9	0.50	ug/L	5		97	70-130	1	30	KCB	
Bromomethane	5.3	1.0	ug/L	5		106	70-130	4	30	KCB	
Carbon tetrachloride	4.8	0.20	ug/L	5		96	70-130	4	30	KCB	
Chlorobenzene	5.2	0.20	ug/L	5		105	70-130	0	30	KCB	
Chlorodibromomethane	5.2	0.50	ug/L	5		103	70-130	1	30	KCB	
Chloroethane	5.5	0.50	ug/L	5		110	70-130	3	30	KCB	
Chloroform	5.3	0.10	ug/L	5		106	70-130	3	30	KCB	
Chloromethane	5.4	1.0	ug/L	5		107	70-130	8	30	KCB	
cis-1,2-Dichloroethene	5.3	0.20	ug/L	5		107	70-130	3	30	KCB	
cis-1,3-Dichloropropene	5.0	0.20	ug/L	5		100	70-130	2	30	KCB	

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Authorized by:

Paul Moyer, Environmental Laboratory Manager
 Public Health Laboratory, Minnesota Department of Health

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Final Report

Minnesota Department of Health
 Public Health Laboratory
 Environmental Laboratory Section
 601 Robert St. N., P.O. Box 64899
 St. Paul, MN 55164-0899
 651-201-5300

Results were produced by Minnesota Department of Health, except where noted.

Batch B8C0433 - EPA 524.2 Prep

LCS Dup (B8C0433-BSD1)

Prepared: 03/31/18 01:38 Analyzed: 03/31/18 01:38

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Int.	Qualifiers
Dibromomethane	5.4	0.50	ug/L	5	108	70-130	108	3	30		KCB
Dichlorodifluoromethane	5.3	1.0	ug/L	5	106	70-130	106	6	30		KCB
Dichlorofluoromethane	5.5	0.50	ug/L	5	109	70-130	109	3	30		KCB
Ethyl ether	5.4	2.0	ug/L	5	108	70-130	108	4	30		KCB
Ethylbenzene	5.5	0.50	ug/L	5	110	70-130	110	2	30		KCB
Hexachlorobutadiene	5.3	1.0	ug/L	5	106	70-130	106	0.9	30		KCB
Isopropylbenzene	5.5	0.50	ug/L	5	110	70-130	110	2	30		KCB
Methyl ethyl ketone (MEK)	27	10	ug/L	25	107	70-130	107	3	30		KCB
Methyl isobutyl ketone (MIBK)	26	5.0	ug/L	25	106	70-130	106	0.9	30		KCB
Methyl tertiary butyl ether (MTBE)	5.2	2.0	ug/L	5	104	70-130	104	2	30		KCB
Methylene chloride	5.4	0.50	ug/L	5	107	70-130	107	2	30		KCB
Naphthalene	4.2	1.0	ug/L	5	85	70-130	85	4	30		KCB
n-Butylbenzene	4.7	0.50	ug/L	5	93	70-130	93	0	30		KCB
n-Propylbenzene	5.5	0.50	ug/L	5	110	70-130	110	1	30		KCB
o-Xylene	5.3	0.20	ug/L	5	106	70-130	106	1	30		KCB
p&m-Xylene	5.3	0.30	ug/L	5	106	70-130	106	0.8	30		KCB
p-Isopropyltoluene	4.7	0.50	ug/L	5	95	70-130	95	0.2	30		KCB
sec-Butylbenzene	5.0	0.50	ug/L	5	99	70-130	99	2	30		KCB
Styrene	5.2	0.50	ug/L	5	105	70-130	105	0	30		KCB
tert-Butylbenzene	5.4	0.50	ug/L	5	108	70-130	108	0	30		KCB
Tetrachloroethene	5.5	0.20	ug/L	5	110	70-130	110	2	30		KCB
Tetrahydrofuran (THF)	49	10	ug/L	50	98	70-130	98	2	30		KCB
Toluene	5.4	0.20	ug/L	5	107	70-130	107	2	30		KCB
trans-1,2-Dichloroethene	5.7	0.10	ug/L	5	114	70-130	114	4	30		KCB
trans-1,3-Dichloropropene	4.9	0.20	ug/L	5	99	70-130	99	3	30		KCB
Trichloroethene (TCE)	5.5	0.10	ug/L	5	110	70-130	110	3	30		KCB
Trichlorofluoromethane	5.2	0.50	ug/L	5	103	70-130	103	5	30		KCB
Vinyl chloride	5.4	0.20	ug/L	5	109	70-130	109	6	30		KCB
Surrogate: 1,2-Dichlorobenzene-d4	101	70-130	%	10							KCB
Surrogate: 1,2-Dichloroethane-d4	101	70-130	%	10							KCB
Surrogate: 4-Bromofluorobenzene	100	70-130	%	10							KCB
Surrogate: Dibromofluoromethane	102	70-130	%	10							KCB
Surrogate: Toluene-d8	100	70-130	%	10							KCB

Authorized by:

Paul Moyer, Environmental Laboratory Manager
 Public Health Laboratory, Minnesota Department of Health

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Final Report

Minnesota Department of Health
 Public Health Laboratory
 Environmental Laboratory Section
 601 Robert St. N., P.O. Box 64899
 St. Paul, MN 55164-0899
 651-201-5300

PWSID: 1280010

Results were produced by Minnesota Department of Health, except where noted.

Batch B8C0438 - EPA 524.2 Prep

Blank (B8C0438-BLK1)

Prepared: 03/31/18 12:54 Analyzed: 03/31/18 12:54

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
1,1,1,2-Tetrachloroethane	<	0.20	ug/L							KCB	
1,1,1-Trichloroethane	<	0.20	ug/L							KCB	
1,1,2-Tetrachloroethane	<	0.20	ug/L							KCB	
1,1,2-Trichloroethane	<	0.20	ug/L							KCB	
1,1,2-Trichlorotrifluoroethane	<	0.20	ug/L							KCB	
1,1-Dichloroethane	<	0.20	ug/L							KCB	
1,1-Dichloroethene	<	0.50	ug/L							KCB	
1,1-Dichloropropene	<	0.20	ug/L							KCB	
1,2,3-Trichlorobenzene	<	1.0	ug/L							KCB	
1,2,3-Trichloropropane	<	0.50	ug/L							KCB	
1,2,4-Trichlorobenzene	<	0.50	ug/L							KCB	
1,2,4-Trimethylbenzene	<	0.50	ug/L							KCB	
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L							KCB	
1,2-Dibromoethane (EDB)	<	0.50	ug/L							KCB	
1,2-Dichlorobenzene	<	0.20	ug/L							KCB	
1,2-Dichloroethane	<	0.20	ug/L							KCB	
1,2-Dichloropropane	<	0.20	ug/L							KCB	
1,3,5-Trimethylbenzene	<	0.50	ug/L							KCB	
1,3-Dichlorobenzene	<	0.20	ug/L							KCB	
1,3-Dichloropropane	<	0.20	ug/L							KCB	
1,4-Dichlorobenzene	<	0.20	ug/L							KCB	
2,2-Dichloropropane	<	0.50	ug/L							KCB	
2-Chlorotoluene	<	0.50	ug/L							KCB	
4-Chlorotoluene	<	0.50	ug/L							KCB	
Acetone	<	20	ug/L							KCB	
Allyl chloride	<	0.50	ug/L							KCB	
Benzene	<	0.20	ug/L							KCB	
Bromobenzene	<	0.20	ug/L							KCB	
Bromochloromethane	<	0.50	ug/L							KCB	
Bromodichloromethane	<	0.20	ug/L							KCB	
Bromoform	<	0.50	ug/L							KCB	
Bromomethane	<	1.0	ug/L							KCB	
Carbon tetrachloride	<	0.20	ug/L							KCB	
Chlorobenzene	<	0.20	ug/L							KCB	
Chlorodibromomethane	<	0.50	ug/L							KCB	
Chloroethane	<	0.50	ug/L							KCB	
Chloroform	<	0.10	ug/L							KCB	
Chloromethane	<	1.0	ug/L							KCB	
cis-1,2-Dichloroethene	<	0.20	ug/L							KCB	
cis-1,3-Dichloropropene	<	0.20	ug/L							KCB	

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Paul Moyer, Environmental Laboratory Manager
 Public Health Laboratory, Minnesota Department of Health

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Final Report

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Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

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Batch B8C0438 - EPA 524.2 Prep

Blank (B8C0438-BLK1)

Prepared: 03/31/18 12:54 Analyzed: 03/31/18 12:54

Analyte	Reporting Limit	Units	Spike Level	Source Result	%REC	REC Limits	RPD	RPD Limit	Int.	Qualifiers
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Dibromomethane	<	0.50	ug/L	<						KCB
Dichlorodifluoromethane	<	1.0	ug/L	<						KCB
Dichlorofluoromethane	<	0.50	ug/L	<						KCB
Ethyl ether	<	2.0	ug/L	<						KCB
Ethylbenzene	<	0.50	ug/L	<						KCB
Hexachlorobutadiene	<	1.0	ug/L	<						KCB
Isopropylbenzene	<	0.50	ug/L	<						KCB
Methyl ethyl ketone (MEK)	<	10	ug/L	<						KCB
Methyl isobutyl ketone (MIBK)	<	5.0	ug/L	<						KCB
Methyl tertiary butyl ether (MTBE)	<	2.0	ug/L	<						KCB
Methylene chloride	<	0.50	ug/L	<						KCB
Naphthalene	<	1.0	ug/L	<						KCB
n-Butylbenzene	<	0.50	ug/L	<						KCB
n-Propylbenzene	<	0.50	ug/L	<						KCB
o-Xylene	<	0.20	ug/L	<						KCB
p&m-Xylene	<	0.30	ug/L	<						KCB
p-Isopropyltoluene	<	0.50	ug/L	<						KCB
sec-Butylbenzene	<	0.50	ug/L	<						KCB
Styrene	<	0.50	ug/L	<						KCB
ter-Butylbenzene	<	0.50	ug/L	<						KCB
Tetrachloroethene	<	0.20	ug/L	<						KCB
Tetrahydrofuran (THF)	<	10	ug/L	<						KCB
Toluene	<	0.20	ug/L	<						KCB
trans-1,2-Dichloroethene	<	0.10	ug/L	<						KCB
trans-1,3-Dichloropropene	<	0.20	ug/L	<						KCB
Trichloroethene (TCE)	<	0.10	ug/L	<						KCB
Trichlorofluoromethane	<	0.50	ug/L	<						KCB
Vinyl chloride	<	0.20	ug/L	<						KCB
Surrogate: 1,2-Dichlorobenzene-d4	95	70-130	%	10						KCB
Surrogate: 1,2-Dichlorobenzene-d4	103	70-130	%	10						KCB
Surrogate: 4-Bromofluorobenzene	95	70-130	%	10						KCB
Surrogate: Dibromofluoromethane	99	70-130	%	10						KCB
Surrogate: Toluene-d8	100	70-130	%	10						KCB

Authorized by: Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

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Final Report

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601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

PWSID: 1280010

Results were produced by Minnesota Department of Health, except where noted.

Batch B8C0438 - EPA 524.2 Prep

LCS (B8C0438-BS1)

Prepared: 03/31/18 11:57 Analyzed: 03/31/18 11:57

Table with columns: Analyte, Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Init., Qualifiers. Lists various chemical compounds and their corresponding test results.

FINAL REPORT

Report ID: 04022018150320

Generated: 4/2/2018 3:03:19PM

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

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 651-201-5300

Results were produced by Minnesota Department of Health, except where noted.

Batch B8C0438 - EPA 524.2 Prep

LCS (B8C0438-B51)

Prepared: 03/18 11:57 Analyzed: 03/18 11:57

Analyte Reporting Limit Result Units Spike Level Source %REC %REC Limits RPD Limit Int. Qualifiers

Analyte	Reporting Limit	Result	Units	Spike Level	Source	%REC	%REC	Limits	RPD	Limit	Int.	Qualifiers
Dibromomethane	0.50	5.2	ug/L	5	104	70-130	5	104				KCB
Dichlorodifluoromethane	1.0	5.1	ug/L	5	103	70-130	5	103				KCB
Dichlorofluoromethane	0.50	5.3	ug/L	5	107	70-130	5	107				KCB
Ethyl ether	2.0	5.1	ug/L	5	102	70-130	5	102				KCB
Ethylbenzene	0.50	5.3	ug/L	5	106	70-130	5	106				KCB
Hexachlorobutadiene	1.0	5.3	ug/L	5	105	70-130	5	105				KCB
Isopropylbenzene	0.50	5.4	ug/L	5	108	70-130	5	108				KCB
Methyl ethyl ketone (MEK)	10	25	ug/L	25	102	70-130	25	102				KCB
Methyl isobutyl ketone (MIBK)	5.0	26	ug/L	25	103	70-130	25	103				KCB
Methyl tertiary butyl ether (MTBE)	2.0	5.0	ug/L	5	101	70-130	5	101				KCB
Methylene chloride	0.50	5.1	ug/L	5	101	70-130	5	101				KCB
Naphthalene	1.0	4.2	ug/L	5	83	70-130	5	83				KCB
n-Butylbenzene	0.50	4.8	ug/L	5	95	70-130	5	95				KCB
n-Propylbenzene	0.50	5.4	ug/L	5	109	70-130	5	109				KCB
o-Xylene	0.20	5.2	ug/L	5	104	70-130	5	104				KCB
p&m-Xylene	0.30	5.2	ug/L	5	104	70-130	5	104				KCB
p-Isopropyltoluene	0.50	4.7	ug/L	5	95	70-130	5	95				KCB
sec-Butylbenzene	0.50	4.9	ug/L	5	97	70-130	5	97				KCB
Styrene	0.50	5.1	ug/L	5	103	70-130	5	103				KCB
ter-Butylbenzene	0.50	5.3	ug/L	5	106	70-130	5	106				KCB
Tetrachloroethene	0.20	5.3	ug/L	5	106	70-130	5	106				KCB
Tetrahydrofuran (THF)	10	48	ug/L	50	96	70-130	50	96				KCB
Toluene	0.20	5.2	ug/L	5	105	70-130	5	105				KCB
trans-1,2-Dichloroethene	0.10	5.6	ug/L	5	113	70-130	5	113				KCB
trans-1,3-Dichloropropene	0.20	5.0	ug/L	5	100	70-130	5	100				KCB
Trichloroethene (TCE)	0.10	5.4	ug/L	5	108	70-130	5	108				KCB
Trichlorofluoromethane	0.50	5.0	ug/L	5	101	70-130	5	101				KCB
Vinyl chloride	0.20	5.3	ug/L	5	106	70-130	5	106				KCB
Surrogate: 1,2-Dichlorobenzene-d4	70-130	97	%									KCB
Surrogate: 1,2-Dichloroethane-d4	70-130	102	%									KCB
Surrogate: 4-Bromofluorobenzene	70-130	97	%									KCB
Surrogate: Dibromofluoromethane	70-130	98	%									KCB
Surrogate: Toluene-d8	70-130	100	%									KCB

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Paul Moyer, Environmental Laboratory Manager
 Public Health Laboratory, Minnesota Department of Health

Authorized by:



Final Report

Minnesota Department of Health
 Public Health Laboratory
 Environmental Laboratory Section
 601 Robert St. N., P.O. Box 64899
 St. Paul, MN 55164-0899
 651-201-5300

PWSID: 1280010

Results were produced by Minnesota Department of Health, except where noted.

Batch B8C0438 - EPA 524.2 Prep

LCS Dup (B8C0438-BSD1)

Prepared: 03/31/18 20:34 Analyzed: 03/31/18 20:34

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
1,1,1,2-Tetrachloroethane	5.2	0.20	ug/L	5	-	103	70-130	4	30	KCB	
1,1,1-Trichloroethane	5.5	0.20	ug/L	5		111	70-130	2	30	KCB	
1,1,1,2,2-Tetrachloroethane	5.3	0.20	ug/L	5		106	70-130	4	30	KCB	
1,1,2-Trichloroethane	5.3	0.20	ug/L	5		107	70-130	6	30	KCB	
1,1,2-Trichlorotrifluoroethane	5.0	0.20	ug/L	5		101	70-130	1	30	KCB	
1,1-Dichloroethane	5.4	0.20	ug/L	5		109	70-130	3	30	KCB	
1,1-Dichloroethene	5.2	0.50	ug/L	5		104	70-130	1	30	KCB	
1,1-Dichloropropene	5.0	0.20	ug/L	5		101	70-130	0.6	30	KCB	
1,2,3-Trichlorobenzene	5.0	1.0	ug/L	5		99	70-130	1	30	KCB	
1,2,3-Trichloropropane	5.2	0.50	ug/L	5		104	70-130	2	30	KCB	
1,2,4-Trichlorobenzene	4.9	0.50	ug/L	5		99	70-130	2	30	KCB	
1,2,4-Trimethylbenzene	5.5	0.50	ug/L	5		110	70-130	2	30	KCB	
1,2-Dibromo-3-chloropropane (DBCP)	4.8	2.0	ug/L	5		97	70-130	0.6	30	KCB	
1,2-Dibromoethane (EDB)	5.2	0.50	ug/L	5		104	70-130	3	30	KCB	
1,2-Dichlorobenzene	5.3	0.20	ug/L	5		106	70-130	3	30	KCB	
1,2-Dichloroethane	5.4	0.20	ug/L	5		108	70-130	4	30	KCB	
1,2-Dichloropropane	5.3	0.20	ug/L	5		106	70-130	2	30	KCB	
1,3,5-Trimethylbenzene	5.5	0.50	ug/L	5		110	70-130	2	30	KCB	
1,3-Dichlorobenzene	5.4	0.20	ug/L	5		107	70-130	4	30	KCB	
1,3-Dichloropropane	5.3	0.20	ug/L	5		105	70-130	3	30	KCB	
1,4-Dichlorobenzene	5.4	0.20	ug/L	5		107	70-130	4	30	KCB	
2,2-Dichloropropane	4.6	0.50	ug/L	5		92	70-130	14	30	KCB	
2-Chlorotoluene	5.3	0.50	ug/L	5		107	70-130	0.4	30	KCB	
4-Chlorotoluene	5.4	0.50	ug/L	5		108	70-130	1	30	KCB	
Acetone	52	20	ug/L	50		103	70-130	3	30	KCB	
Allyl chloride	4.8	0.50	ug/L	5		96	70-130	0.2	30	KCB	
Benzene	5.4	0.20	ug/L	5		108	70-130	3	30	KCB	
Bromobenzene	5.4	0.20	ug/L	5		107	70-130	4	30	KCB	
Bromochloromethane	5.4	0.50	ug/L	5		108	70-130	1	30	KCB	
Bromodichloromethane	5.1	0.20	ug/L	5		101	70-130	0.2	30	KCB	
Bromoform	4.8	0.50	ug/L	5		95	70-130	0.8	30	KCB	
Bromomethane	5.7	1.0	ug/L	5		115	70-130	9	30	KCB	
Carbon tetrachloride	4.7	0.20	ug/L	5		94	70-130	3	30	KCB	
Chlorobenzene	5.3	0.20	ug/L	5		106	70-130	4	30	KCB	
Chlorodibromomethane	5.1	0.50	ug/L	5		102	70-130	1	30	KCB	
Chloroethane	5.8	0.50	ug/L	5		116	70-130	9	30	KCB	
Chloroform	5.5	0.10	ug/L	5		110	70-130	4	30	KCB	
Chloromethane	5.5	1.0	ug/L	5		110	70-130	7	30	KCB	
cis-1,2-Dichloroethene	5.4	0.20	ug/L	5		108	70-130	1	30	KCB	
cis-1,3-Dichloropropene	4.9	0.20	ug/L	5		98	70-130	2	30	KCB	

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Paul Moyer, Environmental Laboratory Manager
 Public Health Laboratory, Minnesota Department of Health

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PWSID: 1280010

Final Report

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 Public Health Laboratory
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 601 Robert St. N., P.O. Box 64899
 St. Paul, MN 55164-0899
 651-201-5300

Results were produced by Minnesota Department of Health, except where noted.

Batch B8C0438 - EPA 524.2 Prep

LCS Dup (B8C0438-BSD1)

Prepared: 03/31/18 20:34 Analyzed: 03/31/18 20:34

Analyte	Reporting Limit	Result	Units	Spike Level	Source	%REC	REC Limits	RPD	RPD Limit	Int.	Qualifiers
Dibromomethane	0.50	5.2	ug/L	5	105	70-130	1	30			KCB
Dichlorodifluoromethane	1.0	5.3	ug/L	5	106	70-130	3	30			KCB
Dichlorofluoromethane	0.50	5.6	ug/L	5	113	70-130	6	30			KCB
Ethyl ether	2.0	5.3	ug/L	5	105	70-130	3	30			KCB
Ethylbenzene	0.50	5.5	ug/L	5	110	70-130	3	30			KCB
Hexachlorobutadiene	1.0	5.2	ug/L	5	105	70-130	0.8	30			KCB
Isopropylbenzene	0.50	5.4	ug/L	5	109	70-130	0.9	30			KCB
Methyl ethyl ketone (MEK)	10	25	ug/L	25	101	70-130	0.4	30			KCB
Methyl isobutyl ketone (MIBK)	5.0	26	ug/L	25	102	70-130	0.6	30			KCB
Methyl tertiary butyl ether (MTBE)	2.0	5.1	ug/L	5	101	70-130	0.4	30			KCB
Methylene chloride	0.50	5.6	ug/L	5	111	70-130	9	30			KCB
Naphthalene	1.0	4.1	ug/L	5	81	70-130	2	30			KCB
n-Butylbenzene	0.50	4.7	ug/L	5	94	70-130	2	30			KCB
n-Propylbenzene	0.50	5.5	ug/L	5	110	70-130	1	30			KCB
o-Xylene	0.20	5.3	ug/L	5	105	70-130	0.8	30			KCB
p&m-Xylene	0.30	5.3	ug/L	5	107	70-130	3	30			KCB
p-Isopropyltoluene	0.50	4.8	ug/L	5	96	70-130	1	30			KCB
sec-Butylbenzene	0.50	5.0	ug/L	5	100	70-130	3	30			KCB
Styrene	0.50	5.2	ug/L	5	104	70-130	2	30			KCB
tert-Butylbenzene	0.50	5.4	ug/L	5	108	70-130	2	30			KCB
Tetrachloroethene	0.20	5.6	ug/L	5	112	70-130	5	30			KCB
Tetrahydrofuran (THF)	10	48	ug/L	50	97	70-130	1	30			KCB
Toluene	0.20	5.4	ug/L	5	107	70-130	3	30			KCB
trans-1,2-Dichloroethene	0.10	5.8	ug/L	5	116	70-130	3	30			KCB
trans-1,3-Dichloropropene	0.20	4.9	ug/L	5	98	70-130	2	30			KCB
Trichloroethene (TCE)	0.10	5.4	ug/L	5	108	70-130	0	30			KCB
Trichlorofluoromethane	0.50	5.3	ug/L	5	107	70-130	6	30			KCB
Vinyl chloride	0.20	5.6	ug/L	5	113	70-130	6	30			KCB
Surrogate: 1,2-Dichlorobenzene-d4	70-130	104	%								KCB
Surrogate: 1,2-Dichloroethane-d4	70-130	98	%								KCB
Surrogate: 4-Bromofluorobenzene	70-130	99	%								KCB
Surrogate: Dibromofluoromethane	70-130	98	%								KCB
Surrogate: Toluene-d8	70-130	103	%								KCB

Authorized by:

Paul Moyer

Paul Moyer, Environmental Laboratory Manager
 Public Health Laboratory, Minnesota Department of Health

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MC Result greater than the MCL

Data Qualifiers and Definitions



Final Report

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Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

PWSID: 1280010

Work Order Comments

Samples were received in proper condition.

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