UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region III Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Final Analytical Report

Site Name.....	SHILOH CHURCH RD REMOVAL ACTION
Sample Collection Date(s).....	3/18/2020 - 3/18/2020
Contact.....	Chris Wagner
Report Date.....	04/16/2020 15:50
Project #.....	DAS R35774
Work Order.....	2003012

Analyses included in this report:

VOCs by CLP Equivalent (trace)

Approved for Release

Region III Laboratory Representative

Site Name: **SHILOH CHURCH RD REMOVAL ACTION** **Project #: DAS R35774**

Report Narrative

VOC Analysis Note:

There was insufficient sample material to prepare matrix spikes.

The Relative Standard Deviations in the initial calibration are outside acceptance limits for bromoform, both cis- and trans-1,3-dichloropropene, naphthalene, and styrene. These compounds are not detected in the samples or blanks and the quantitation limits are qualified as estimated (UJ).

The quantitation limits are raised for 1,2-dibromo-3-chloropropane (5 ppb) and methyl acetate (1 ug/L).

The blank spike recovery is outside the acceptance limit of 80-120% for acetone (127%), dichlorodifluoromethane (126%), and trichlorofluoromethane (169%). With the exception of acetone the samples are non-detect for these compounds. There should be no impact on dichlorodifluoromethane and trichlorofluoromethane results. High acetone recovery may be due to the presence of acetone in the system. Acetone was detected in the method blank. All sample results are qualified (B) for acetone.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region III Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: **SHILOH CHURCH RD REMOVAL ACTION** **Project #: DAS R35774**

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Matrix	Date Sampled	Date Received
SCR-031820-RW-024	2003012-01	Drinking Water	03/18/2020 10:45	03/19/2020 10:30
SRC-031820-RW-024-D	2003012-02	Drinking Water	03/18/2020 10:50	03/19/2020 10:30
SRC-031820-RW-025	2003012-03	Drinking Water	03/18/2020 11:10	03/19/2020 10:30
SRC-031820-TB-01	2003012-04	Water	03/18/2020 10:10	03/19/2020 10:30

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Fort Meade, Maryland 20755-5350

Site Name: SHILOH CHURCH RD REMOVAL ACTION **Project #:** DAS R35774

Station ID: SCR-031820-RW-024 **Lab ID:** 2003012-01

Sample Matrix: Drinking Water **Date Collected:** 03/18/2020

Volatile Organic Compounds
Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Acetone	**8.9**	B	5.0	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Benzene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Bromobenzene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Bromochloromethane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Bromodichloromethane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Bromoform	U	UJ	0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Bromomethane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
2-Butanone	U		5.0	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
sec-Butylbenzene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
tert-Butylbenzene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
n-Butylbenzene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Carbon disulfide	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Carbon Tetrachloride	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Chlorobenzene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Chlorodibromomethane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Chloroethane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Chloroform	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Chloromethane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
2-Chlorotoluene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
4-Chlorotoluene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Cyclohexane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,2-Dibromo-3-chloropropane	U		5.0	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,2-Dibromoethane (EDB)	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Dibromomethane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,2-Dichlorobenzene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,3-Dichlorobenzene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,4-Dichlorobenzene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Dichlorodifluoromethane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,1-Dichloroethane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,2-Dichloroethane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,1-Dichloroethene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
cis-1,2-Dichloroethene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
trans-1,2-Dichloroethene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,2-Dichloropropane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,3-Dichloropropane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
2,2-Dichloropropane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,1-Dichloropropene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
cis-1,3-Dichloropropene	U	UJ	0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
trans-1,3-Dichloropropene	U	UJ	0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Ethylbenzene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Freon 113	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210

Site Name: SHILOH CHURCH RD REMOVAL ACTION **Project #:** DAS R35774

Station ID: SCR-031820-RW-024 **Lab ID:** 2003012-01

Sample Matrix: Drinking Water **Date Collected:** 03/18/2020

Volatile Organic Compounds
Targets (Continued)

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Hexachlorobutadiene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
2-Hexanone	U		5.0	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Isopropylbenzene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
p-Isopropyltoluene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Methyl Acetate	U		1.0	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Methylcyclohexane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Methyl-tert-butyl ether	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Methylene Chloride	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
4-Methyl-2-pentanone	U		5.0	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Naphthalene	U	UJ	0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
n-Propylbenzene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Styrene	U	UJ	1.0	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,1,2,2-Tetrachloroethane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,1,1,2-Tetrachloroethane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Tetrachloroethene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Toluene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,2,3-Trichlorobenzene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,2,4-Trichlorobenzene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,1,1-Trichloroethane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,1,2-Trichloroethane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Trichloroethene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Trichlorofluoromethane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,2,3-Trichloropropane	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,2,4-Trimethylbenzene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
1,3,5-Trimethylbenzene	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
Vinyl chloride	U		0.5	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
m-Xylene/p-Xylene	U		1.0	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210
o-Xylene	U		1.0	1	03/24/2020 15:17	03/24/2020 15:17	CLP trace/R3QA210

Surrogates

Analyte	Result ug/L	Flags Qualifiers	**%Recovery**	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 4-Bromofluorobenzene	3.610		**90 %**	*86-115*	03/24/2020 15:17	03/24/2020 15:17	*CLP trace/R3QA210*
Surrogate: 1,2-Dichloroethane-d4	3.970		**99 %**	*76-114*	03/24/2020 15:17	03/24/2020 15:17	*CLP trace/R3QA210*
Surrogate: Toluene-d8	3.950		**99 %**	*88-110*	03/24/2020 15:17	03/24/2020 15:17	*CLP trace/R3QA210*

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Site Name: SHILOH CHURCH RD REMOVAL ACTION **Project #:** DAS R35774

Station ID: SRC-031820-RW-024-D **Lab ID:** 2003012-02

Sample Matrix: Drinking Water **Date Collected:** 03/18/2020

Volatile Organic Compounds
Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Acetone	**7.0**	B	5.0	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Benzene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Bromobenzene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Bromochloromethane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Bromodichloromethane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Bromoform	U	UJ	0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Bromomethane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
2-Butanone	U		5.0	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
sec-Butylbenzene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
tert-Butylbenzene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
n-Butylbenzene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Carbon disulfide	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Carbon Tetrachloride	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Chlorobenzene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Chlorodibromomethane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Chloroethane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Chloroform	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Chloromethane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
2-Chlorotoluene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
4-Chlorotoluene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Cyclohexane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,2-Dibromo-3-chloropropane	U		5.0	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,2-Dibromoethane (EDB)	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Dibromomethane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,2-Dichlorobenzene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,3-Dichlorobenzene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,4-Dichlorobenzene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Dichlorodifluoromethane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,1-Dichloroethane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,2-Dichloroethane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,1-Dichloroethene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
cis-1,2-Dichloroethene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
trans-1,2-Dichloroethene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,2-Dichloropropane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,3-Dichloropropane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
2,2-Dichloropropane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,1-Dichloropropene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
cis-1,3-Dichloropropene	U	UJ	0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
trans-1,3-Dichloropropene	U	UJ	0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Ethylbenzene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Freon 113	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210

Site Name: SHILOH CHURCH RD REMOVAL ACTION **Project #:** DAS R35774

Station ID: SRC-031820-RW-024-D **Lab ID:** 2003012-02

Sample Matrix: Drinking Water **Date Collected:** 03/18/2020

Volatile Organic Compounds
Targets (Continued)

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Hexachlorobutadiene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
2-Hexanone	U		5.0	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Isopropylbenzene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
p-Isopropyltoluene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Methyl Acetate	U		1.0	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Methylcyclohexane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Methyl-tert-butyl ether	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Methylene Chloride	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
4-Methyl-2-pentanone	U		5.0	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Naphthalene	U	UJ	0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
n-Propylbenzene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Styrene	U	UJ	1.0	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,1,2,2-Tetrachloroethane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,1,1,2-Tetrachloroethane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Tetrachloroethene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Toluene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,2,3-Trichlorobenzene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,2,4-Trichlorobenzene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,1,1-Trichloroethane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,1,2-Trichloroethane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Trichloroethene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Trichlorofluoromethane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,2,3-Trichloropropane	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,2,4-Trimethylbenzene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
1,3,5-Trimethylbenzene	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
Vinyl chloride	U		0.5	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
m-Xylene/p-Xylene	U		1.0	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210
o-Xylene	U		1.0	1	03/24/2020 15:46	03/24/2020 15:46	CLP trace/R3QA210

Surrogates

Analyte	Result ug/L	Flags Qualifiers	**%Recovery**	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 4-Bromofluorobenzene	3.570		**89 %**	*86-115*	03/24/2020 15:46	03/24/2020 15:46	*CLP trace/R3QA210*
Surrogate: 1,2-Dichloroethane-d4	3.970		**99 %**	*76-114*	03/24/2020 15:46	03/24/2020 15:46	*CLP trace/R3QA210*
Surrogate: Toluene-d8	3.970		**99 %**	*88-110*	03/24/2020 15:46	03/24/2020 15:46	*CLP trace/R3QA210*

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701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: SHILOH CHURCH RD REMOVAL ACTION **Project #:** DAS R35774

Station ID: SRC-031820-RW-025 **Lab ID:** 2003012-03

Sample Matrix: Drinking Water **Date Collected:** 03/18/2020

Volatile Organic Compounds
Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Acetone	**7.0**	B	5.0	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Benzene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Bromobenzene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Bromochloromethane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Bromodichloromethane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Bromoform	U	UJ	0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Bromomethane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
2-Butanone	U		5.0	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
sec-Butylbenzene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
tert-Butylbenzene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
n-Butylbenzene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Carbon disulfide	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Carbon Tetrachloride	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Chlorobenzene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Chlorodibromomethane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Chloroethane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Chloroform	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Chloromethane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
2-Chlorotoluene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
4-Chlorotoluene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Cyclohexane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,2-Dibromo-3-chloropropane	U		5.0	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,2-Dibromoethane (EDB)	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Dibromomethane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,2-Dichlorobenzene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,3-Dichlorobenzene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,4-Dichlorobenzene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Dichlorodifluoromethane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,1-Dichloroethane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,2-Dichloroethane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,1-Dichloroethene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
cis-1,2-Dichloroethene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
trans-1,2-Dichloroethene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,2-Dichloropropane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,3-Dichloropropane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
2,2-Dichloropropane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,1-Dichloropropene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
cis-1,3-Dichloropropene	U	UJ	0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
trans-1,3-Dichloropropene	U	UJ	0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Ethylbenzene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Freon 113	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210

Site Name: SHILOH CHURCH RD REMOVAL ACTION **Project #:** DAS R35774

Station ID: SRC-031820-RW-025 **Lab ID:** 2003012-03

Sample Matrix: Drinking Water **Date Collected:** 03/18/2020

Volatile Organic Compounds
Targets (Continued)

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Hexachlorobutadiene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
2-Hexanone	U		5.0	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Isopropylbenzene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
p-Isopropyltoluene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Methyl Acetate	U		1.0	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Methylcyclohexane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Methyl-tert-butyl ether	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Methylene Chloride	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
4-Methyl-2-pentanone	U		5.0	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Naphthalene	U	UJ	0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
n-Propylbenzene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Styrene	U	UJ	1.0	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,1,2,2-Tetrachloroethane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,1,1,2-Tetrachloroethane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Tetrachloroethene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Toluene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,2,3-Trichlorobenzene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,2,4-Trichlorobenzene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,1,1-Trichloroethane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,1,2-Trichloroethane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Trichloroethene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Trichlorofluoromethane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,2,3-Trichloropropane	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,2,4-Trimethylbenzene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
1,3,5-Trimethylbenzene	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
Vinyl chloride	U		0.5	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
m-Xylene/p-Xylene	U		1.0	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210
o-Xylene	U		1.0	1	03/24/2020 16:13	03/24/2020 16:13	CLP trace/R3QA210

Surrogates

Analyte	Result ug/L	Flags Qualifiers	**%Recovery**	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 4-Bromofluorobenzene	3.560		**89 %**	*86-115*	03/24/2020 16:13	03/24/2020 16:13	*CLP trace/R3QA210*
Surrogate: 1,2-Dichloroethane-d4	4.300		**108 %**	*76-114*	03/24/2020 16:13	03/24/2020 16:13	*CLP trace/R3QA210*
Surrogate: Toluene-d8	4.140		**104 %**	*88-110*	03/24/2020 16:13	03/24/2020 16:13	*CLP trace/R3QA210*

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region III Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: SHILOH CHURCH RD REMOVAL ACTION **Project #:** DAS R35774

Station ID: SRC-031820-TB-01 **Lab ID:** 2003012-04

Sample Matrix: Water **Date Collected:** 03/18/2020

Volatile Organic Compounds
Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Acetone	**12.9**	B	5.0	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Benzene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Bromobenzene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Bromochloromethane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Bromodichloromethane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Bromoform	U	UJ	0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Bromomethane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
2-Butanone	U		5.0	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
sec-Butylbenzene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
tert-Butylbenzene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
n-Butylbenzene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Carbon disulfide	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Carbon Tetrachloride	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Chlorobenzene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Chlorodibromomethane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Chloroethane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Chloroform	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Chloromethane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
2-Chlorotoluene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
4-Chlorotoluene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Cyclohexane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,2-Dibromo-3-chloropropane	U		5.0	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,2-Dibromoethane (EDB)	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Dibromomethane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,2-Dichlorobenzene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,3-Dichlorobenzene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,4-Dichlorobenzene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Dichlorodifluoromethane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,1-Dichloroethane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,2-Dichloroethane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,1-Dichloroethene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
cis-1,2-Dichloroethene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
trans-1,2-Dichloroethene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,2-Dichloropropane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,3-Dichloropropane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
2,2-Dichloropropane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,1-Dichloropropene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
cis-1,3-Dichloropropene	U	UJ	0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
trans-1,3-Dichloropropene	U	UJ	0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Ethylbenzene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Freon 113	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210

Site Name: SHILOH CHURCH RD REMOVAL ACTION **Project #:** DAS R35774

Station ID: SRC-031820-TB-01 **Lab ID:** 2003012-04

Sample Matrix: Water **Date Collected:** 03/18/2020

Volatile Organic Compounds
Targets (Continued)

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Hexachlorobutadiene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
2-Hexanone	U		5.0	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Isopropylbenzene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
p-Isopropyltoluene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Methyl Acetate	U		1.0	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Methylcyclohexane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Methyl-tert-butyl ether	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Methylene Chloride	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
4-Methyl-2-pentanone	U		5.0	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Naphthalene	U	UJ	0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
n-Propylbenzene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Styrene	U	UJ	1.0	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,1,2,2-Tetrachloroethane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,1,1,2-Tetrachloroethane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Tetrachloroethene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Toluene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,2,3-Trichlorobenzene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,2,4-Trichlorobenzene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,1,1-Trichloroethane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,1,2-Trichloroethane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Trichloroethene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Trichlorofluoromethane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,2,3-Trichloropropane	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,2,4-Trimethylbenzene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
1,3,5-Trimethylbenzene	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
Vinyl chloride	U		0.5	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
m-Xylene/p-Xylene	U		1.0	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210
o-Xylene	U		1.0	1	03/24/2020 14:50	03/24/2020 14:50	CLP trace/R3QA210

Surrogates

Analyte	Result ug/L	Flags Qualifiers	**%Recovery**	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 4-Bromofluorobenzene	3.520		**88 %**	*86-115*	03/24/2020 14:50	03/24/2020 14:50	*CLP trace/R3QA210*
Surrogate: 1,2-Dichloroethane-d4	3.960		**99 %**	*76-114*	03/24/2020 14:50	03/24/2020 14:50	*CLP trace/R3QA210*
Surrogate: Toluene-d8	4.040		**101 %**	*88-110*	03/24/2020 14:50	03/24/2020 14:50	*CLP trace/R3QA210*

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region III Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: **SHILOH CHURCH RD REMOVAL ACTION** **Project #: DAS R35774**

Tentatively Identified Compound (TIC) Report

Volatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	2003012-01					
Station ID:	SCR-031820-RW-024					
Sample Matrix:	Drinking Water					
Collected:	03/18/2020					
NA	None Detected	0.0			03/24/2020 15:17	CLP trace/R3QA210

Volatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	2003012-02					
Station ID:	SRC-031820-RW-024-D					
Sample Matrix:	Drinking Water					
Collected:	03/18/2020					
NA	None Detected	0.0			03/24/2020 15:46	CLP trace/R3QA210

Volatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	2003012-03					
Station ID:	SRC-031820-RW-025					
Sample Matrix:	Drinking Water					
Collected:	03/18/2020					
NA	None Detected	0.0			03/24/2020 16:13	CLP trace/R3QA210

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region III Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: **SHILOH CHURCH RD REMOVAL ACTION** **Project #: DAS R35774**

Tentatively Identified Compound (TIC) Report

Volatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	2003012-04					
Station ID:	SRC-031820-TB-01					
Sample Matrix:	Water					
Collected:	03/18/2020					
NA	None Detected	0.0			03/24/2020 14:50	CLP trace/R3QA210

Site Name: **SHILOH CHURCH RD REMOVAL ACTION** **Project #: DAS R35774**

QC Data
Volatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BC02302 - VOC Purge and Trap										
Blank (BC02302-BLK1)				Prepared & Analyzed: 03/24/2020 14:23						
Acetone	3.4	5.0	ug/L							J
Benzene	U	0.5	"							
Bromobenzene	U	0.5	"							
Bromochloromethane	U	0.5	"							
Bromodichloromethane	U	0.5	"							
Bromoform	U	0.5	"							UJ
Bromomethane	U	0.5	"							
2-Butanone	U	5.0	"							
sec-Butylbenzene	U	0.5	"							
tert-Butylbenzene	U	0.5	"							
n-Butylbenzene	U	0.5	"							
Carbon disulfide	U	0.5	"							
Carbon Tetrachloride	U	0.5	"							
Chlorobenzene	U	0.5	"							
Chlorodibromomethane	U	0.5	"							
Chloroethane	U	0.5	"							
Chloroform	U	0.5	"							
Chloromethane	U	0.5	"							
2-Chlorotoluene	U	0.5	"							
4-Chlorotoluene	U	0.5	"							
Cyclohexane	U	0.5	"							
1,2-Dibromo-3-chloropropane	U	5.0	"							
1,2-Dibromoethane (EDB)	U	0.5	"							
Dibromomethane	U	0.5	"							
1,2-Dichlorobenzene	U	0.5	"							
1,3-Dichlorobenzene	U	0.5	"							
1,4-Dichlorobenzene	U	0.5	"							
Dichlorodifluoromethane	U	0.5	"							
1,1-Dichloroethane	U	0.5	"							
1,2-Dichloroethane	U	0.5	"							
1,1-Dichloroethene	U	0.5	"							
cis-1,2-Dichloroethene	U	0.5	"							
trans-1,2-Dichloroethene	U	0.5	"							
1,2-Dichloropropane	U	0.5	"							
1,3-Dichloropropane	U	0.5	"							
2,2-Dichloropropane	U	0.5	"							
1,1-Dichloropropene	U	0.5	"							
cis-1,3-Dichloropropene	U	0.5	"							UJ
trans-1,3-Dichloropropene	U	0.5	"							UJ
Ethylbenzene	U	0.5	"							
Freon 113	U	0.5	"							
Hexachlorobutadiene	U	0.5	"							
2-Hexanone	U	5.0	"							
Isopropylbenzene	U	0.5	"							

Site Name: **SHILOH CHURCH RD REMOVAL ACTION** **Project #: DAS R35774**

QC Data
Volatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BC02302 - VOC Purge and Trap										
Blank (BC02302-BLK1)				Prepared & Analyzed: 03/24/2020 14:23						
p-Isopropyltoluene	U	0.5	ug/L							
Methyl Acetate	U	1.0	"							
Methylcyclohexane	U	0.5	"							
Methyl-tert-butyl ether	U	0.5	"							
Methylene Chloride	U	0.5	"							
4-Methyl-2-pentanone	U	5.0	"							
Naphthalene	U	0.5	"							UJ
n-Propylbenzene	U	0.5	"							
Styrene	U	1.0	"							UJ
1,1,2,2-Tetrachloroethane	U	0.5	"							
1,1,1,2-Tetrachloroethane	U	0.5	"							
Tetrachloroethene	U	0.5	"							
Toluene	U	0.5	"							
1,2,3-Trichlorobenzene	U	0.5	"							
1,2,4-Trichlorobenzene	U	0.5	"							
1,1,1-Trichloroethane	U	0.5	"							
1,1,2-Trichloroethane	U	0.5	"							
Trichloroethene	U	0.5	"							
Trichlorofluoromethane	U	0.5	"							
1,2,3-Trichloropropane	U	0.5	"							
1,2,4-Trimethylbenzene	U	0.5	"							
1,3,5-Trimethylbenzene	U	0.5	"							
Vinyl chloride	U	0.5	"							
m-Xylene/p-Xylene	U	1.0	"							
o-Xylene	U	1.0	"							
Propene	0.5		"							T
Surrogate: 4-Bromofluorobenzene	*3.560*		*"*	*4.0000*		*89*	*86-115*			
Surrogate: 1,2-Dichloroethane-d4	*4.160*		*"*	*4.0000*		*104*	*76-114*			
Surrogate: Toluene-d8	*3.990*		*"*	*4.0000*		*100*	*88-110*			

Site Name: **SHILOH CHURCH RD REMOVAL ACTION** **Project #: DAS R35774**

QC Data
Volatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BC02302 - VOC Purge and Trap										
LCS (BC02302-BS1)				Prepared & Analyzed: 03/24/2020 13:28						
Acetone	12.73	5.0	ug/L	10.000		127	80-120			A
Benzene	9.06	0.5	"	10.000		91	80-120			
Bromobenzene	8.88	0.5	"	10.000		89	80-120			
Bromochloromethane	9.64	0.5	"	10.000		96	80-120			
Bromodichloromethane	9.95	0.5	"	10.000		100	80-120			
Bromoform	9.26	0.5	"	10.000		93	80-120			
Bromomethane	10.64	0.5	"	10.000		106	80-120			
2-Butanone	8.44	5.0	"	10.000		84	80-120			
sec-Butylbenzene	8.53	0.5	"	10.000		85	80-120			
tert-Butylbenzene	8.53	0.5	"	10.000		85	80-120			
n-Butylbenzene	8.88	0.5	"	10.000		89	80-120			
Carbon disulfide	10.27	0.5	"	10.000		103	80-120			
Carbon Tetrachloride	9.97	0.5	"	10.000		100	80-120			
Chlorobenzene	8.37	0.5	"	10.000		84	80-120			
Chlorodibromomethane	9.72	0.5	"	10.000		97	80-120			
Chloroethane	9.92	0.5	"	10.000		99	80-120			
Chloroform	9.48	0.5	"	10.000		95	80-120			
Chloromethane	10.14	0.5	"	10.000		101	80-120			
2-Chlorotoluene	8.33	0.5	"	10.000		83	80-120			
4-Chlorotoluene	8.44	0.5	"	10.000		84	80-120			
Cyclohexane	9.92	0.5	"	10.000		99	80-120			
1,2-Dibromo-3-chloropropane	9.51	5.0	"	10.000		95	80-120			
1,2-Dibromoethane (EDB)	9.50	0.5	"	10.000		95	80-120			
Dibromomethane	10.07	0.5	"	10.000		101	80-120			
1,2-Dichlorobenzene	8.60	0.5	"	10.000		86	80-120			
1,3-Dichlorobenzene	8.24	0.5	"	10.000		82	80-120			
1,4-Dichlorobenzene	8.47	0.5	"	10.000		85	80-120			
Dichlorodifluoromethane	12.65	0.5	"	10.000		126	80-120			A
1,1-Dichloroethane	9.51	0.5	"	10.000		95	80-120			
1,2-Dichloroethane	9.77	0.5	"	10.000		98	80-120			
1,1-Dichloroethene	9.72	0.5	"	10.000		97	80-120			
cis-1,2-Dichloroethene	9.51	0.5	"	10.000		95	80-120			
trans-1,2-Dichloroethene	9.58	0.5	"	10.000		96	80-120			
1,2-Dichloropropane	9.52	0.5	"	10.000		95	80-120			
1,3-Dichloropropane	9.40	0.5	"	10.000		94	80-120			
2,2-Dichloropropane	10.02	0.5	"	10.000		100	80-120			
1,1-Dichloropropene	9.95	0.5	"	10.000		100	80-120			
cis-1,3-Dichloropropene	10.14	0.5	"	10.000		101	80-120			
trans-1,3-Dichloropropene	10.32	0.5	"	10.000		103	80-120			
Ethylbenzene	8.66	0.5	"	10.000		87	80-120			
Freon 113	9.28	0.5	"	10.000		93	80-120			
Hexachlorobutadiene	8.83	0.5	"	10.000		88	80-120			
2-Hexanone	8.92	5.0	"	10.000		89	80-120			
Isopropylbenzene	8.21	0.5	"	10.000		82	80-120			

Site Name: **SHILOH CHURCH RD REMOVAL ACTION** **Project #: DAS R35774**

QC Data
Volatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BC02302 - VOC Purge and Trap										
LCS (BC02302-BS1)				Prepared & Analyzed: 03/24/2020 13:28						
p-Isopropyltoluene	9.04	0.5	ug/L	10.000		90	80-120			
Methyl Acetate	11.01	1.0	"	10.000		110	80-120			
Methylcyclohexane	9.82	0.5	"	10.000		98	80-120			
Methyl-tert-butyl ether	10.86	0.5	"	10.000		109	80-120			
Methylene Chloride	9.79	0.5	"	10.000		98	80-120			
4-Methyl-2-pentanone	9.71	5.0	"	10.000		97	80-120			
Naphthalene	9.26	0.5	"	10.000		93	80-120			
n-Propylbenzene	8.44	0.5	"	10.000		84	80-120			
Styrene	8.18	1.0	"	10.000		82	80-120			
1,1,2,2-Tetrachloroethane	9.27	0.5	"	10.000		93	80-120			
1,1,1,2-Tetrachloroethane	9.84	0.5	"	10.000		98	80-120			
Tetrachloroethene	9.42	0.5	"	10.000		94	80-120			
Toluene	8.81	0.5	"	10.000		88	80-120			
1,2,3-Trichlorobenzene	8.89	0.5	"	10.000		89	80-120			
1,2,4-Trichlorobenzene	8.92	0.5	"	10.000		89	80-120			
1,1,1-Trichloroethane	10.04	0.5	"	10.000		100	80-120			
1,1,2-Trichloroethane	9.52	0.5	"	10.000		95	80-120			
Trichloroethene	9.68	0.5	"	10.000		97	80-120			
Trichlorofluoromethane	16.90	0.5	"	10.000		169	80-120			A
1,2,3-Trichloropropane	9.63	0.5	"	10.000		96	80-120			
1,2,4-Trimethylbenzene	8.80	0.5	"	10.000		88	80-120			
1,3,5-Trimethylbenzene	8.87	0.5	"	10.000		89	80-120			
Vinyl chloride	11.04	0.5	"	10.000		110	80-120			
m-Xylene/p-Xylene	16.82	1.0	"	20.000		84	80-120			
o-Xylene	8.00	1.0	"	10.000		80	80-120			
Surrogate: 4-Bromofluorobenzene	*3.890*		*"*	*4.0000*		*97*	*86-115*			
Surrogate: 1,2-Dichloroethane-d4	*4.100*		*"*	*4.0000*		*102*	*76-114*			
Surrogate: Toluene-d8	*4.000*		*"*	*4.0000*		*100*	*88-110*			

Site Name: **SHILOH CHURCH RD REMOVAL ACTION** **Project #: DAS R35774**

Notes and Definitions

UJ	The analyte was not detected at or above the quantitation limit. The quantitation limit is an estimate.
T	Tentatively Identified Compound. Identified as a result of a library search using the EPA/NIST Mass Spectral Library. Standards were not used to verify the identity and quantity of the compound. The reported value is an estimate.
J	The identification of the analyte is acceptable; the reported value is an estimate.
B	Not detected substantially above (10 times) the level reported in the laboratory or field blanks (including field, trip, rinsate, and equipment blanks).
A	Quality control value is outside acceptance limits.
%REC	Percent Recovery
RPD	Relative Percent Difference
U	Analyte included in the analysis, but not detected at or above the quantitation limit.
NR	Not Reported

QUANTITATION LIMIT: The lowest concentration of an analyte that can be reliably measured within specified limits of precision and accuracy for a specific laboratory analytical method and that takes into account analytical adjustments made during sample preparation and analysis.

SOLID SAMPLE RESULTS - REPORTING PROTOCOL: Percent Solids (percent dry wt at 105 degrees C) determinations are routinely performed for most organic and inorganic analyses. Consequently, these samples are analyzed wet and converted to a dry weight result for reporting purposes. If metals and mercury analyses are requested, they are routinely prepared for analyses by an initial drying at 60 degrees C, homogenized prior to digestion, and are analyzed and reported on a dry weight basis. Oil-type samples are analyzed and reported on a wet weight basis for all analyses because of the nature of the sample matrix. Any exceptions to this protocol will be noted in the narrative.

ON-DEMAND: The term 'on-demand' analysis, if noted in the report narrative, refers to Section 13.1.4 in the Region III OASQA Laboratory Quality Manual, which provides procedures for non-routine analyses or analytes.