MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERG

**MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY**

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

23 December 2020

Work Order: 2012084

Price: $1,617.00

Beth Vens
EGLE-RRD-SE MICHIGAN
27700 Donald Court
Warren, MI 48092

RE: 11545 VAN DYKE ST. DETROIT

This is the official environmental laboratory report for testing conducted by the Michigan Department of Environment, Great Lakes, and Energy. Analyses performed by the laboratory were conducted using methods published by the U.S. Environmental Protection Agency, Standard Methods for the Examination of Water and Wastewater, ASTM, or other published or approved reference methods.

Kirby Shane
Laboratory Director

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27700 Donald Court
Warren MI, 48092

Project: 11545 VAN DYKE ST. DETROIT
Site Code: 10000356
Project Manager: Beth Vens

Reported:
12/23/2020

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
GP-1-TMW	2012084-01	Water	12/08/2020	12/10/2020	
DUP-01	2012084-02	Water	12/08/2020	12/10/2020	
TB	2012084-03	Water	11/25/2020	12/10/2020	
UST-West	2012084-04	Water	12/09/2020	12/10/2020	
UST-East	2012084-05	Water	12/09/2020	12/10/2020	

Notes and Definitions

Y30	ORO results may also include non-oil organic compounds.
Y29	DRO results may also include non-diesel organic compounds.
Y27	Sample is a matrix spike. Due to interferences or large target analyte concentrations sample was diluted. No results are available.
Y17	Probable petroleum product(s) present.
Y11	Unidentified peaks present in sample.
Y09	Sample was received and extracted/analyzed past USEPA maximum allowable holding time. Data is estimated.
X	Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200 ºC. 2-Methylnaphthalene & naphthalene have boiling points above 200 ºC and are better suited to analysis by methods 8270 & 625 as semivolatile organics.
A11	Result is estimated due to high initial verification standard criteria failure.
A09	Result is estimated due to high recovery of batch quality control.
A08	Result(s) and reporting limits(s) are estimated due to low recovery of batch QC.
A06	Result is estimated due to high continuing calibration standard criteria failure.
A05	Result and reporting limit are estimated due to low continuing calibration standard criteria failure.
A04	Result is estimated due to high matrix spike recovery.
A03	Result(s) and reporting limit(s) are estimated due to low matrix spike recovery.
ND	Indicates compound analyzed for but not detected at or above the reporting limit (RL).
RL	Reporting Limit
NA	Not Applicable

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Client ID: GP-1-TMW

Lab ID: 2012084-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
540-84-1	**2,2,4-Trimethylpentane**	**11**	5.0	ug/L	1	12/16/20	B0L1601	8260	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	X
67-64-1	2-Propanone (acetone)	ND	20	ug/L	1	12/16/20	B0L1601	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
107-13-1	Acrylonitrile	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
71-43-2	Benzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
74-97-5	Bromochloromethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
75-27-4	Bromodichloromethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
75-25-2	Bromoform	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
74-83-9	Bromomethane	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	A05
75-15-0	Carbon disulfide	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
56-23-5	Carbon tetrachloride	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
108-90-7	Chlorobenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
75-00-3	Chloroethane	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
67-66-3	Chloroform	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
74-87-3	Chloromethane	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
110-82-7	Cyclohexane	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
124-48-1	Dibromochloromethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
74-95-3	Dibromomethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	

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Organics-Volatiles									
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
60-29-7	Diethyl ether	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
108-20-3	Diisopropyl Ether	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
100-41-4	Ethylbenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
637-92-3	Ethyltertiarybutylether	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
67-72-1	Hexachloroethane	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
110-54-3	Hexane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
98-82-8	Isopropylbenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
1330-20-7	m & p - Xylene	ND	2.0	ug/L	1	12/16/20	B0L1601	8260	
75-09-2	Methylene chloride	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
1634-04-4	Methyltertiarybutylether	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
91-20-3	Naphthalene	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	X
104-51-8	n-Butylbenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
103-65-1	**n-Propylbenzene**	**1.9**	1.0	ug/L	1	12/16/20	B0L1601	8260	
95-47-6	o-Xylene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
135-98-8	sec-Butylbenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
100-42-5	Styrene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
98-06-6	tert-Butylbenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
75-65-0	tertiary Butyl Alcohol	ND	50	ug/L	1	12/16/20	B0L1601	8260	
994-05-8	tertiaryAmylmethylether	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
127-18-4	Tetrachloroethylene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
109-99-9	Tetrahydrofuran	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
108-88-3	Toluene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
79-01-6	Trichloroethylene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
75-01-4	Vinyl chloride	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
Surrogate: Bromofluorobenzene			*99.1 %*	*85-115*		*12/16/20*	B0L1601	*8260*	
Surrogate: Dibromofluoromethane			*97.3 %*	*82.7-115*		*12/16/20*	B0L1601	*8260*	
Surrogate: Toluene-d8			*103 %*	*85-115*		*12/16/20*	B0L1601	*8260*	

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Organics-GRO									
GRO	**Gas Range Organics(C6-C10)**	**100**	100	ug/L	1	12/10/20	B0L1116	8260 Modified	
Organics-DRO/ORO									
DRO	**Diesel Range Org(C10-C20)**	**270**	120	ug/L	1	12/17/20	B0L1401	8015	Y29
ORO	**Oil Range Organics (C20-C34)**	**840**	590	ug/L	1	12/17/20	B0L1401	8015	Y30
Organics-Semivolatiles									
91-57-6	2-Methylnaphthalene	ND	5.3	ug/L	1	12/15/20	B0L1501	8270	
83-32-9	Acenaphthene	ND	1.1	ug/L	1	12/15/20	B0L1501	8270	
208-96-8	Acenaphthylene	ND	1.1	ug/L	1	12/15/20	B0L1501	8270	
120-12-7	Anthracene	ND	1.1	ug/L	1	12/15/20	B0L1501	8270	
56-55-3	Benz[a]anthracene	ND	1.1	ug/L	1	12/15/20	B0L1501	8270	
50-32-8	Benzo[a]pyrene	ND	1.1	ug/L	1	12/15/20	B0L1501	8270	
205-99-2	Benzo[b]fluoranthene	ND	1.1	ug/L	1	12/15/20	B0L1501	8270	
191-24-2	Benzo[g,h,i]perylene	ND	1.1	ug/L	1	12/15/20	B0L1501	8270	
207-08-9	Benzo[k]fluoranthene	ND	1.1	ug/L	1	12/15/20	B0L1501	8270	
218-01-9	Chrysene	ND	1.1	ug/L	1	12/15/20	B0L1501	8270	
53-70-3	Dibenz[a,h]anthracene	ND	2.1	ug/L	1	12/15/20	B0L1501	8270	
206-44-0	Fluoranthene	ND	1.1	ug/L	1	12/15/20	B0L1501	8270	
86-73-7	Fluorene	ND	1.1	ug/L	1	12/15/20	B0L1501	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	2.1	ug/L	1	12/15/20	B0L1501	8270	
91-20-3	Naphthalene	ND	1.1	ug/L	1	12/15/20	B0L1501	8270	
85-01-8	Phenanthrene	ND	1.1	ug/L	1	12/15/20	B0L1501	8270	
129-00-0	Pyrene	ND	1.1	ug/L	1	12/15/20	B0L1501	8270	
Surrogate: 2-Fluorobiphenyl			*60.0 %*	*20-101*		*12/15/20*	B0L1501	*8270*	
Surrogate: Nitrobenzene-d5			*53.2 %*	*13-100*		*12/15/20*	B0L1501	*8270*	
Surrogate: p-Terphenyl-d14			*68.8 %*	*18-150*		*12/15/20*	B0L1501	*8270*	

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Client ID: DUP-01

Lab ID: 2012084-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
540-84-1	**2,2,4-Trimethylpentane**	**8.5**	5.0	ug/L	1	12/16/20	B0L1601	8260	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	X
67-64-1	2-Propanone (acetone)	ND	20	ug/L	1	12/16/20	B0L1601	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
107-13-1	Acrylonitrile	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
71-43-2	Benzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
74-97-5	Bromochloromethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
75-27-4	Bromodichloromethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
75-25-2	Bromoform	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
74-83-9	Bromomethane	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	A05
75-15-0	Carbon disulfide	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
56-23-5	Carbon tetrachloride	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
108-90-7	Chlorobenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
75-00-3	Chloroethane	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
67-66-3	Chloroform	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
74-87-3	Chloromethane	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
110-82-7	Cyclohexane	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
124-48-1	Dibromochloromethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
74-95-3	Dibromomethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	

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CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
60-29-7	Diethyl ether	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
108-20-3	Diisopropyl Ether	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
100-41-4	Ethylbenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
637-92-3	Ethyltertiarybutylether	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
67-72-1	Hexachloroethane	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
110-54-3	Hexane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
98-82-8	Isopropylbenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
1330-20-7	m & p - Xylene	ND	2.0	ug/L	1	12/16/20	B0L1601	8260	
75-09-2	Methylene chloride	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
1634-04-4	Methyltertiarybutylether	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
91-20-3	Naphthalene	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	X
104-51-8	n-Butylbenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
103-65-1	**n-Propylbenzene**	**1.9**	1.0	ug/L	1	12/16/20	B0L1601	8260	
95-47-6	o-Xylene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
135-98-8	sec-Butylbenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
100-42-5	Styrene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
98-06-6	tert-Butylbenzene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
75-65-0	tertiary Butyl Alcohol	ND	50	ug/L	1	12/16/20	B0L1601	8260	
994-05-8	tertiaryAmylmethylether	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
127-18-4	Tetrachloroethylene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
109-99-9	Tetrahydrofuran	ND	5.0	ug/L	1	12/16/20	B0L1601	8260	
108-88-3	Toluene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
79-01-6	Trichloroethylene	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
75-01-4	Vinyl chloride	ND	1.0	ug/L	1	12/16/20	B0L1601	8260	
Surrogate: Bromofluorobenzene			*97.9 %*	*85-115*		*12/16/20*	B0L1601	*8260*	
Surrogate: Dibromofluoromethane			*97.0 %*	*82.7-115*		*12/16/20*	B0L1601	*8260*	
Surrogate: Toluene-d8			*103 %*	*85-115*		*12/16/20*	B0L1601	*8260*	

MICHIGAN DEPARTMENT OF
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ENVIRONMENTAL LABORATORY

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Client ID: DUP-01

Lab ID: 2012084-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-GRO									
GRO	Gas Range Organics(C6-C10)	ND	100	ug/L	1	12/10/20	B0L1116	8260 Modified	
Organics-DRO/ORO									
DRO	**Diesel Range Org(C10-C20)**	**370**	110	ug/L	1	12/17/20	B0L1401	8015	Y29
ORO	**Oil Range Organics (C20-C34)**	**580**	570	ug/L	1	12/17/20	B0L1401	8015	Y30
Organics-Semivolatiles									
91-57-6	2-Methylnaphthalene	ND	6.4	ug/L	1	12/15/20	B0L1501	8270	
83-32-9	Acenaphthene	ND	1.3	ug/L	1	12/15/20	B0L1501	8270	
208-96-8	Acenaphthylene	ND	1.3	ug/L	1	12/15/20	B0L1501	8270	
120-12-7	Anthracene	ND	1.3	ug/L	1	12/15/20	B0L1501	8270	
56-55-3	Benz[a]anthracene	ND	1.3	ug/L	1	12/15/20	B0L1501	8270	
50-32-8	Benzo[a]pyrene	ND	1.3	ug/L	1	12/15/20	B0L1501	8270	
205-99-2	Benzo[b]fluoranthene	ND	1.3	ug/L	1	12/15/20	B0L1501	8270	
191-24-2	Benzo[g,h,i]perylene	ND	1.3	ug/L	1	12/15/20	B0L1501	8270	
207-08-9	Benzo[k]fluoranthene	ND	1.3	ug/L	1	12/15/20	B0L1501	8270	
218-01-9	Chrysene	ND	1.3	ug/L	1	12/15/20	B0L1501	8270	
53-70-3	Dibenz[a,h]anthracene	ND	2.6	ug/L	1	12/15/20	B0L1501	8270	
206-44-0	Fluoranthene	ND	1.3	ug/L	1	12/15/20	B0L1501	8270	
86-73-7	Fluorene	ND	1.3	ug/L	1	12/15/20	B0L1501	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	2.6	ug/L	1	12/15/20	B0L1501	8270	
91-20-3	**Naphthalene**	**3.2**	1.3	ug/L	1	12/15/20	B0L1501	8270	
85-01-8	Phenanthrene	ND	1.3	ug/L	1	12/15/20	B0L1501	8270	
129-00-0	Pyrene	ND	1.3	ug/L	1	12/15/20	B0L1501	8270	
Surrogate: 2-Fluorobiphenyl			*71.3 %*	*20-101*		*12/15/20*	B0L1501	*8270*	
Surrogate: Nitrobenzene-d5			*65.4 %*	*13-100*		*12/15/20*	B0L1501	*8270*	
Surrogate: p-Terphenyl-d14			*90.9 %*	*18-150*		*12/15/20*	B0L1501	*8270*	

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Client ID: TB

Lab ID: 2012084-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									**See note Y09**
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
540-84-1	2,2,4-Trimethylpentane	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	X
67-64-1	2-Propanone (acetone)	ND	20	ug/L	1	12/15/20	B0L1502	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	
107-13-1	Acrylonitrile	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	
71-43-2	Benzene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
74-97-5	Bromochloromethane	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
75-27-4	Bromodichloromethane	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
75-25-2	Bromoform	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
74-83-9	Bromomethane	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	A08
75-15-0	Carbon disulfide	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
56-23-5	Carbon tetrachloride	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
108-90-7	Chlorobenzene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
75-00-3	Chloroethane	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	
67-66-3	Chloroform	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
74-87-3	Chloromethane	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
110-82-7	Cyclohexane	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	
124-48-1	Dibromochloromethane	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
74-95-3	Dibromomethane	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	

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Client ID: TB

Lab ID: 2012084-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									**See note Y09**
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	
60-29-7	Diethyl ether	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	
108-20-3	Diisopropyl Ether	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	
100-41-4	Ethylbenzene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
637-92-3	Ethyltertiarybutylether	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	
67-72-1	Hexachloroethane	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	
110-54-3	Hexane	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
98-82-8	Isopropylbenzene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
1330-20-7	m & p - Xylene	ND	2.0	ug/L	1	12/15/20	B0L1502	8260	
75-09-2	Methylene chloride	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	
1634-04-4	Methyltertiarybutylether	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
91-20-3	Naphthalene	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	X
104-51-8	n-Butylbenzene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
103-65-1	n-Propylbenzene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
95-47-6	o-Xylene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
135-98-8	sec-Butylbenzene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
100-42-5	Styrene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
98-06-6	tert-Butylbenzene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
75-65-0	tertiary Butyl Alcohol	ND	50	ug/L	1	12/15/20	B0L1502	8260	
994-05-8	tertiaryAmylmethylether	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	
127-18-4	Tetrachloroethylene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
109-99-9	Tetrahydrofuran	ND	5.0	ug/L	1	12/15/20	B0L1502	8260	
108-88-3	Toluene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
79-01-6	Trichloroethylene	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
75-01-4	Vinyl chloride	ND	1.0	ug/L	1	12/15/20	B0L1502	8260	
Surrogate: Bromofluorobenzene			*94.9 %*	*85-115*		*12/15/20*	B0L1502	*8260*	
Surrogate: Dibromofluoromethane			*97.4 %*	*82.7-115*		*12/15/20*	B0L1502	*8260*	
Surrogate: Toluene-d8			*103 %*	*85-115*		*12/15/20*	B0L1502	*8260*	

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Client ID: UST-West

Lab ID: 2012084-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									**See note Y11**
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
75-34-3	1,1-Dichloroethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
75-35-4	1,1-Dichloroethylene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
96-18-4	1,2,3-Trichloropropane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
526-73-8	**1,2,3-Trimethylbenzene**	**71**	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
95-63-6	**1,2,4-Trimethylbenzene**	**75**	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
106-93-4	1,2-Dibromoethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
95-50-1	1,2-Dichlorobenzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
107-06-2	1,2-Dichloroethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
78-87-5	1,2-Dichloropropane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
108-67-8	**1,3,5-Trimethylbenzene**	**15**	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
541-73-1	1,3-Dichlorobenzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
106-46-7	1,4-Dichlorobenzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
540-84-1	2,2,4-Trimethylpentane	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
78-93-3	2-Butanone (MEK)	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
91-57-6	2-Methylnaphthalene	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	X
67-64-1	**2-Propanone (acetone)**	**110**	100	ug/L	5.25	12/16/20	B0L1601	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
107-13-1	Acrylonitrile	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
71-43-2	Benzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
74-97-5	Bromochloromethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
75-27-4	Bromodichloromethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
75-25-2	Bromoform	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
74-83-9	Bromomethane	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	A05
75-15-0	Carbon disulfide	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
56-23-5	Carbon tetrachloride	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
108-90-7	Chlorobenzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
75-00-3	Chloroethane	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
67-66-3	Chloroform	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
74-87-3	Chloromethane	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
156-59-2	**cis-1,2-Dichloroethylene**	**13**	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
110-82-7	Cyclohexane	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
124-48-1	Dibromochloromethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
74-95-3	Dibromomethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	

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Client ID: UST-West

Lab ID: 2012084-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									**See note Y11**
75-71-8	Dichlorodifluoromethane	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
60-29-7	Diethyl ether	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
108-20-3	Diisopropyl Ether	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
100-41-4	**Ethylbenzene**	**5.6**	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
637-92-3	Ethyltertiarybutylether	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
67-72-1	Hexachloroethane	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
110-54-3	Hexane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
98-82-8	Isopropylbenzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
1330-20-7	**m & p - Xylene**	**17**	10	ug/L	5.25	12/16/20	B0L1601	8260	
75-09-2	Methylene chloride	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
1634-04-4	Methyltertiarybutylether	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
91-20-3	**Naphthalene**	**320**	26	ug/L	5.25	12/16/20	B0L1601	8260	X
104-51-8	**n-Butylbenzene**	**34**	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
103-65-1	n-Propylbenzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
95-47-6	**o-Xylene**	**14**	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
135-98-8	**sec-Butylbenzene**	**6.6**	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
100-42-5	Styrene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
98-06-6	tert-Butylbenzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
75-65-0	tertiary Butyl Alcohol	ND	260	ug/L	5.25	12/16/20	B0L1601	8260	
994-05-8	tertiaryAmylmethylether	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
127-18-4	Tetrachloroethylene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
109-99-9	Tetrahydrofuran	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
108-88-3	**Toluene**	**9.4**	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
79-01-6	**Trichloroethylene**	**19**	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
75-69-4	Trichlorofluoromethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
75-01-4	Vinyl chloride	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
Surrogate: Bromofluorobenzene			*98.1 %*	*85-115*		*12/16/20*	B0L1601	*8260*	
Surrogate: Dibromofluoromethane			*94.5 %*	*82.7-115*		*12/16/20*	B0L1601	*8260*	
Surrogate: Toluene-d8			*103 %*	*85-115*		*12/16/20*	B0L1601	*8260*	

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERG

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: UST-West

Lab ID: 2012084-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Semivolatiles									**See note Y17**
91-57-6	**2-Methylnaphthalene**	**8.2**	5.2	ug/L	1	12/15/20	B0L1501	8270	
83-32-9	Acenaphthene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
208-96-8	Acenaphthylene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
120-12-7	Anthracene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
56-55-3	Benz[a]anthracene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
50-32-8	Benzo[a]pyrene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
205-99-2	Benzo[b]fluoranthene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
191-24-2	Benzo[g,h,i]perylene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
207-08-9	Benzo[k]fluoranthene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
218-01-9	Chrysene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
53-70-3	Dibenz[a,h]anthracene	ND	2.1	ug/L	1	12/15/20	B0L1501	8270	
206-44-0	Fluoranthene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
86-73-7	Fluorene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	2.1	ug/L	1	12/15/20	B0L1501	8270	
91-20-3	**Naphthalene**	**250**	10	ug/L	10	12/16/20	B0L1501	8270	
85-01-8	**Phenanthrene**	**2.5**	1.0	ug/L	1	12/15/20	B0L1501	8270	
129-00-0	Pyrene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
Surrogate: 2-Fluorobiphenyl			*78.0 %*	*20-101*		*12/15/20*	B0L1501	*8270*	
Surrogate: Nitrobenzene-d5			*73.0 %*	*13-100*		*12/15/20*	B0L1501	*8270*	
Surrogate: p-Terphenyl-d14			*81.5 %*	*18-150*		*12/15/20*	B0L1501	*8270*	
Inorganics-Metals									
7440-38-2	**Arsenic**	**3.1**	1.0	ug/L	1	12/17/20	B0L1404	200.8	
7440-39-3	**Barium**	**76**	5.0	ug/L	1	12/17/20	B0L1404	200.8	
7440-43-9	**Cadmium**	**2.3**	0.2	ug/L	1	12/17/20	B0L1404	200.8	
7440-47-3	**Chromium**	**3.3**	1.0	ug/L	1	12/17/20	B0L1404	200.8	
7439-92-1	**Lead**	**10**	1.0	ug/L	1	12/17/20	B0L1404	200.8	
7439-97-6	Mercury	ND	0.2	ug/L	1	12/15/20	B0L1406	245.1	
7782-49-2	Selenium	ND	1.0	ug/L	1	12/17/20	B0L1404	200.8	
7440-22-4	Silver	ND	0.2	ug/L	1	12/17/20	B0L1404	200.8	

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FAX: (517) 335-9600

Client ID: UST-East

Lab ID: 2012084-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									**See note Y11**
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
75-34-3	1,1-Dichloroethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
75-35-4	1,1-Dichloroethylene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
96-18-4	1,2,3-Trichloropropane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
526-73-8	**1,2,3-Trimethylbenzene**	**69**	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
95-63-6	**1,2,4-Trimethylbenzene**	**67**	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
106-93-4	1,2-Dibromoethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
95-50-1	1,2-Dichlorobenzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
107-06-2	1,2-Dichloroethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
78-87-5	1,2-Dichloropropane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
108-67-8	**1,3,5-Trimethylbenzene**	**14**	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
541-73-1	1,3-Dichlorobenzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
106-46-7	1,4-Dichlorobenzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
540-84-1	2,2,4-Trimethylpentane	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
78-93-3	2-Butanone (MEK)	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
91-57-6	2-Methylnaphthalene	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	X
67-64-1	2-Propanone (acetone)	ND	100	ug/L	5.25	12/16/20	B0L1601	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
107-13-1	Acrylonitrile	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
71-43-2	Benzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
74-97-5	Bromochloromethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
75-27-4	Bromodichloromethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
75-25-2	Bromoform	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
74-83-9	Bromomethane	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	A05
75-15-0	Carbon disulfide	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
56-23-5	Carbon tetrachloride	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
108-90-7	Chlorobenzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
75-00-3	Chloroethane	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
67-66-3	Chloroform	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
74-87-3	Chloromethane	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
110-82-7	Cyclohexane	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
124-48-1	Dibromochloromethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
74-95-3	Dibromomethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	

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P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: UST-East

Lab ID: 2012084-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									**See note Y11**
75-71-8	Dichlorodifluoromethane	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
60-29-7	Diethyl ether	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
108-20-3	Diisopropyl Ether	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
100-41-4	Ethylbenzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
637-92-3	Ethyltertiarybutylether	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
67-72-1	Hexachloroethane	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
110-54-3	Hexane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
98-82-8	Isopropylbenzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
1330-20-7	m & p - Xylene	ND	10	ug/L	5.25	12/16/20	B0L1601	8260	
75-09-2	Methylene chloride	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
1634-04-4	Methyltertiarybutylether	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
91-20-3	**Naphthalene**	**230**	26	ug/L	5.25	12/16/20	B0L1601	8260	X
104-51-8	n-Butylbenzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
103-65-1	n-Propylbenzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
95-47-6	**o-Xylene**	**12**	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
135-98-8	sec-Butylbenzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
100-42-5	Styrene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
98-06-6	tert-Butylbenzene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
75-65-0	tertiary Butyl Alcohol	ND	260	ug/L	5.25	12/16/20	B0L1601	8260	
994-05-8	tertiaryAmylmethylether	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
127-18-4	Tetrachloroethylene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
109-99-9	Tetrahydrofuran	ND	26	ug/L	5.25	12/16/20	B0L1601	8260	
108-88-3	Toluene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
79-01-6	Trichloroethylene	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
75-69-4	Trichlorofluoromethane	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
75-01-4	Vinyl chloride	ND	5.2	ug/L	5.25	12/16/20	B0L1601	8260	
Surrogate: Bromofluorobenzene			*99.1 %*	*85-115*		*12/16/20*	B0L1601	*8260*	
Surrogate: Dibromofluoromethane			*95.5 %*	*82.7-115*		*12/16/20*	B0L1601	*8260*	
Surrogate: Toluene-d8			*103 %*	*85-115*		*12/16/20*	B0L1601	*8260*	

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Client ID: UST-East

Lab ID: 2012084-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Semivolatiles									**See note Y17**
91-57-6	2-Methylnaphthalene	ND	5.2	ug/L	1	12/15/20	B0L1501	8270	
83-32-9	Acenaphthene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
208-96-8	Acenaphthylene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
120-12-7	Anthracene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
56-55-3	Benz[a]anthracene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
50-32-8	Benzo[a]pyrene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
205-99-2	Benzo[b]fluoranthene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
191-24-2	Benzo[g,h,i]perylene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
207-08-9	Benzo[k]fluoranthene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
218-01-9	Chrysene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
53-70-3	Dibenz[a,h]anthracene	ND	2.1	ug/L	1	12/15/20	B0L1501	8270	
206-44-0	**Fluoranthene**	**1.1**	1.0	ug/L	1	12/15/20	B0L1501	8270	
86-73-7	**Fluorene**	**1.4**	1.0	ug/L	1	12/15/20	B0L1501	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	2.1	ug/L	1	12/15/20	B0L1501	8270	
91-20-3	**Naphthalene**	**120**	10	ug/L	10	12/16/20	B0L1501	8270	
85-01-8	**Phenanthrene**	**5.5**	1.0	ug/L	1	12/15/20	B0L1501	8270	
129-00-0	Pyrene	ND	1.0	ug/L	1	12/15/20	B0L1501	8270	
Surrogate: 2-Fluorobiphenyl			*67.6 %*	*20-101*		*12/15/20*	B0L1501	*8270*	
Surrogate: Nitrobenzene-d5			*63.0 %*	*13-100*		*12/15/20*	B0L1501	*8270*	
Surrogate: p-Terphenyl-d14			*94.2 %*	*18-150*		*12/15/20*	B0L1501	*8270*	
Inorganics-Metals									
7440-38-2	Arsenic	ND	1.0	ug/L	1	12/17/20	B0L1404	200.8	
7440-39-3	**Barium**	**60**	5.0	ug/L	1	12/17/20	B0L1404	200.8	
7440-43-9	Cadmium	ND	0.2	ug/L	1	12/17/20	B0L1404	200.8	
7440-47-3	Chromium	ND	1.0	ug/L	1	12/17/20	B0L1404	200.8	
7439-92-1	Lead	ND	1.0	ug/L	1	12/17/20	B0L1404	200.8	
7439-97-6	Mercury	ND	0.2	ug/L	1	12/15/20	B0L1406	245.1	
7782-49-2	Selenium	ND	1.0	ug/L	1	12/17/20	B0L1404	200.8	
7440-22-4	Silver	ND	0.2	ug/L	1	12/17/20	B0L1404	200.8	

Department of Environment, Great Lakes, and Energy
Laboratory Services Section

Analysis Request Sheet

Lab Work Order Number	Project Name	Matrix
201284	11545 Van Dyke St. Detroit	Water

Location ID: 10000356	Program:	CC Email 1: Doug.saigh@woodplc.com	Project TAT Days: 14	Sample Collector: Dan Wilde
Dept-Division-District: RRD- Southeast	Activity:	CC Email 2: dan.wilde@woodplc.com	Project Due Date:	Sample Collector Phone: 947-777-9892
State Project Manager: Beth Vens	Funding Source:	CC Email 3:		Contract Firm: AMEC
State Project Manager Email: Vensb@michigan.gov	Location Code: 7G71	Overflow Lab Choice 1:	Accept Analysis hold time codes:	Contract Firm Primary Contact: Doug Saigh
State Project Manager Phone: 586-753-3825	SUD Location Code:	Overflow Lab Choice 2:		Primary Contact Phone: 586-382-0850

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Bottle Count	Comments
1	01	GP-1-TMW	12/8/20	0950	5	
2	02	Dup-01	12/8/20	—	5	
3	03	TB	11/25/20	—	1	
4	04	UST-West	12/9/20	0930	6	RCRA 8 metals, PNAs, VOCs
5	~~05~~	UST-East	12/9/20	0940	6	Hold
6						Added by Dan W. 12-11-20
7						
8						
9						
10						

ORGANIC CHEMISTRY

- VOA - Volatile Organic Acidic
  - Volatiles - Full List: 1 2 3 4 5 6 7 8 9 10
  - BTEX/MTBE/TMB only: 1 2 3 4 5 6 7 8 9 10
  - Chlorinated only: 1 2 3 4 5 6 7 8 9 10
  - GRO: 1 2 3 4 5 6 7 8 9 10
  - 1,4 Dioxane: 1 2 3 4 5 6 7 8 9 10
- METH - Methane, Ethane, Ethene
  - Methane, Ethane, Ethene: 1 2 3 4 5 6 7 8 9 10
- ON - Pesticides, PCBs
  - Pesticides & PCBs: 1 2 3 4 5 6 7 8 9 10
  - Pesticides only: 1 2 3 4 5 6 7 8 9 10
  - PCBs only: 1 2 3 4 5 6 7 8 9 10
  - Toxaphene: 1 2 3 4 5 6 7 8 9 10
  - Chlordane: 1 2 3 4 5 6 7 8 9 10
- BNA - Base Neutral Acids
  - BNAs: 1 2 3 4 5 6 7 8 9 10
  - Benzidines: 1 2 3 4 5 6 7 8 9 10
  - PNAs only: 1 2 3 4 5 6 7 8 9 10
  - BNs only: 1 2 3 4 5 6 7 8 9 10
  - Acids only: 1 2 3 4 5 6 7 8 9 10
- Organic Specialty Requests
  - Library search - Volatiles: 1 2 3 4 5 6 7 8 9 10
  - Library search - SemiVols: 1 2 3 4 5 6 7 8 9 10
  - Finger Print: 1 2 3 4 5 6 7 8 9 10
  - DRO / ORO: 1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

- OpMemo2 - Total: 1 2 3 4 5 6 7 8 9 10
- OpMemo2 - Dissolved: 1 2 3 4 5 6 7 8 9 10
  (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)
- Michigan10 - Total: 1 2 3 4 5 6 7 8 9 10
- Michigan10 - Dissolved: 1 2 3 4 5 6 7 8 9 10
  (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)

MAD - DISSOLVED METALS

- Diss - Silver - Ag: 1 2 3 4 5 6 7 8 9 10
- Diss - Aluminum - Al: 1 2 3 4 5 6 7 8 9 10
- Diss - Arsenic - As: 1 2 3 4 5 6 7 8 9 10
- Diss - Boron - B: 1 2 3 4 5 6 7 8 9 10
- Diss - Barium - Ba: 1 2 3 4 5 6 7 8 9 10
- Diss - Beryllium - Be: 1 2 3 4 5 6 7 8 9 10
- Diss - Cadmium - Cd: 1 2 3 4 5 6 7 8 9 10
- Diss - Cobalt - Co: 1 2 3 4 5 6 7 8 9 10
- Diss - Chromium - Cr: 1 2 3 4 5 6 7 8 9 10
- Diss - Copper - Cu: 1 2 3 4 5 6 7 8 9 10
- Diss - Iron - Fe: 1 2 3 4 5 6 7 8 9 10
- Diss - Mercury - Hg: 1 2 3 4 5 6 7 8 9 10
- Diss - Lithium - Li: 1 2 3 4 5 6 7 8 9 10
- Diss - Manganese - Mn: 1 2 3 4 5 6 7 8 9 10
- Diss - Molybdenum - Mo: 1 2 3 4 5 6 7 8 9 10
- Diss - Nickel - Ni: 1 2 3 4 5 6 7 8 9 10
- Diss - Lead - Pb: 1 2 3 4 5 6 7 8 9 10
- Diss - Antimony - Sb: 1 2 3 4 5 6 7 8 9 10
- Diss - Selenium - Se: 1 2 3 4 5 6 7 8 9 10
- Diss - Strontium - Sr: 1 2 3 4 5 6 7 8 9 10
- Diss - Titanium - Ti: 1 2 3 4 5 6 7 8 9 10
- Diss - Thallium - Tl: 1 2 3 4 5 6 7 8 9 10
- Diss - Uranium - U: 1 2 3 4 5 6 7 8 9 10
- Diss - Vanadium - V: 1 2 3 4 5 6 7 8 9 10
- Diss - Zinc - Zn: 1 2 3 4 5 6 7 8 9 10
- Diss - Calcium - Ca: 1 2 3 4 5 6 7 8 9 10
- Diss - Potassium - K: 1 2 3 4 5 6 7 8 9 10
- Diss - Magnesium - Mg: 1 2 3 4 5 6 7 8 9 10
- Diss - Sodium - Na: 1 2 3 4 5 6 7 8 9 10
- Diss - Hardness - Ca, Mg: 1 2 3 4 5 6 7 8 9 10

MD - Metals Dissolved
- Lab Filtration: 1 2 3 4 5 6 7 8 9 10

MA - TOTAL METALS

- Silver - Ag: 1 2 3 4 5 6 7 8 9 10
- Aluminum - Al: 1 2 3 4 5 6 7 8 9 10
- Arsenic - As: 1 2 3 4 5 6 7 8 9 10
- Boron - B: 1 2 3 4 5 6 7 8 9 10
- Barium - Ba: 1 2 3 4 5 6 7 8 9 10
- Beryllium - Be: 1 2 3 4 5 6 7 8 9 10
- Cadmium - Cd: 1 2 3 4 5 6 7 8 9 10
- Cobalt - Co: 1 2 3 4 5 6 7 8 9 10
- Chromium - Cr: 1 2 3 4 5 6 7 8 9 10
- Copper - Cu: 1 2 3 4 5 6 7 8 9 10
- Iron - Fe: 1 2 3 4 5 6 7 8 9 10
- Mercury - Hg: 1 2 3 4 5 6 7 8 9 10
- Lithium - Li: 1 2 3 4 5 6 7 8 9 10
- Manganese - Mn: 1 2 3 4 5 6 7 8 9 10
- Molybdenum - Mo: 1 2 3 4 5 6 7 8 9 10
- Nickel - Ni: 1 2 3 4 5 6 7 8 9 10
- Lead - Pb: 1 2 3 4 5 6 7 8 9 10
- Antimony - Sb: 1 2 3 4 5 6 7 8 9 10
- Selenium - Se: 1 2 3 4 5 6 7 8 9 10
- Strontium - Sr: 1 2 3 4 5 6 7 8 9 10
- Titanium - Ti: 1 2 3 4 5 6 7 8 9 10
- Thallium - Tl: 1 2 3 4 5 6 7 8 9 10
- Uranium - U: 1 2 3 4 5 6 7 8 9 10
- Vanadium - V: 1 2 3 4 5 6 7 8 9 10
- Zinc - Zn: 1 2 3 4 5 6 7 8 9 10
- Calcium - Ca: 1 2 3 4 5 6 7 8 9 10
- Potassium - K: 1 2 3 4 5 6 7 8 9 10
- Magnesium - Mg: 1 2 3 4 5 6 7 8 9 10
- Sodium - Na: 1 2 3 4 5 6 7 8 9 10
- Hardness - Ca, Mg: 1 2 3 4 5 6 7 8 9 10

LHG - Low Level Mercury
- Mercury Low Level - Hg: 1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

- GB Total Cyanide - CN: 1 2 3 4 5 6 7 8 9 10
- GCN Available Cyanide - CN (Amenable / Weak Acid Dissociable): 1 2 3 4 5 6 7 8 9 10
- CA Chlorophyll: 1 2 3 4 5 6 7 8 9 10
- GN Ortho Phosphate - OP: 1 2 3 4 5 6 7 8 9 10
- GN Diss Ortho Phosphate -*FF: 1 2 3 4 5 6 7 8 9 10
- GN Nitrite - NO_2: 1 2 3 4 5 6 7 8 9 10
- GN Nitrate - NO_3 (Calc.): 1 2 3 4 5 6 7 8 9 10
- GN Suspended Solids - SS: 1 2 3 4 5 6 7 8 9 10
- GN Dissolved Solids - TDS: 1 2 3 4 5 6 7 8 9 10
- MN Diss Solids - TDS (Calc.): 1 2 3 4 5 6 7 8 9 10
- GN Turbidity: 1 2 3 4 5 6 7 8 9 10
- MN Total Alkalinity: 1 2 3 4 5 6 7 8 9 10
- MN Bicarb/Carb Alkalinity (includes Total Alkalinity): 1 2 3 4 5 6 7 8 9 10
- MN Chloride - Cl: 1 2 3 4 5 6 7 8 9 10
- MN Fluoride - F: 1 2 3 4 5 6 7 8 9 10
- MN Sulfate - SO4: 1 2 3 4 5 6 7 8 9 10
- MN Diss Chromium 6 -*FF: 1 2 3 4 5 6 7 8 9 10
- MN Conductivity: 1 2 3 4 5 6 7 8 9 10
- MN pH: 1 2 3 4 5 6 7 8 9 10
- GA Chem Oxyg Dem - COD: 1 2 3 4 5 6 7 8 9 10
- GA Diss Org Carbon - DOC-*FF: 1 2 3 4 5 6 7 8 9 10
- GN Diss Org Carbon - DOC (LF) (Lab - Filtered & Preserved): 1 2 3 4 5 6 7 8 9 10
- GA Total Org Carbon - TOC: 1 2 3 4 5 6 7 8 9 10
- GA Ammonia - NH3: 1 2 3 4 5 6 7 8 9 10
- GA Nitrate+Nitrite - NO3+NO2: 1 2 3 4 5 6 7 8 9 10
- GA Kjeldahl Nitrogen - KN: 1 2 3 4 5 6 7 8 9 10
- GA Total Phosphorus - TP: 1 2 3 4 5 6 7 8 9 10

* (FF)-Field Filtered

Chain of Custody

Relinquished by	Received By	Date / Time
Print Name & Org.: Dan Wilde (Amec)	Lobby 12-9-20	12/9/20 1524
Signature:		
Print Name & Org.: Lobby	Melissa Smith	12/10/20 9:19
Signature:		
Print Name & Org.:		
Signature:		