

23 December 2020

Work Order: 2012085

Price: \$9,931.50

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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ENVIRONMENT, GREAT LAKES, AND ENERGY

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EGLE-RRD-SE MICHIGAN

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
TB	2012085-01	Soil/Sediment	12/08/2020	12/10/2020	
GP-1 (4.5'-5')	2012085-02	Soil/Sediment	12/08/2020	12/10/2020	
GP-1 (12'-13')	2012085-03	Soil/Sediment	12/08/2020	12/10/2020	
GP-2 (4.5'-5')	2012085-04	Soil/Sediment	12/08/2020	12/10/2020	
GP-2 (11'-12')	2012085-05	Soil/Sediment	12/08/2020	12/10/2020	
GP-3 (2'-3')	2012085-06	Soil/Sediment	12/08/2020	12/10/2020	
GP-3 (11'-12')	2012085-07	Soil/Sediment	12/08/2020	12/10/2020	
GP-4 (4.5'-5')	2012085-08	Soil/Sediment	12/08/2020	12/10/2020	
DUP-02	2012085-09	Soil/Sediment	12/08/2020	12/10/2020	
DUP-03	2012085-10	Soil/Sediment	12/08/2020	12/10/2020	
GP-4 (12'-13')	2012085-11	Soil/Sediment	12/08/2020	12/10/2020	
GP-5 (4'-5')	2012085-12	Soil/Sediment	12/08/2020	12/10/2020	
GP-5 (11'-12')	2012085-13	Soil/Sediment	12/08/2020	12/10/2020	
GP-6 (2'-3')	2012085-14	Soil/Sediment	12/08/2020	12/10/2020	
GP-6 (12'-13')	2012085-15	Soil/Sediment	12/08/2020	12/10/2020	
GP-7 (7'-8')	2012085-16	Soil/Sediment	12/08/2020	12/10/2020	
GP-7 (13'-14')	2012085-17	Soil/Sediment	12/08/2020	12/10/2020	
GP-8 (6'-7')	2012085-18	Soil/Sediment	12/09/2020	12/10/2020	
GP-8 (12'-13')	2012085-19	Soil/Sediment	12/09/2020	12/10/2020	
GP-9 (4'-5')	2012085-20	Soil/Sediment	12/09/2020	12/10/2020	
GP-9 (14'-15')	2012085-21	Soil/Sediment	12/09/2020	12/10/2020	
GP-10 (4'-5')	2012085-22	Soil/Sediment	12/09/2020	12/10/2020	
GP-10 (14'-15')	2012085-23	Soil/Sediment	12/09/2020	12/10/2020	

### Notes and Definitions

V	Value not available due to dilution.
A02	Result is estimated due to high surrogate recovery.
A04	Result is estimated due to high matrix spike recovery.
A05	Result and reporting limit are estimated due to low continuing calibration standard criteria failure.
A06	Result is estimated due to high continuing calibration standard criteria failure.
A09	Result is estimated due to high recovery of batch quality control.
100	GRO (gasoline range organics) is analyzed using a GC/MS. Tetrachloroethylene can be detected in the C6-C10 GRO range. The GRO result for this sample is likely due to positive detection of tetrachloroethylene in the sample.
T	Reported value is less than the reporting limit (RL). Result is estimated.
Y30	ORO results may also include non-oil organic compounds.
X	Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200 °C. 2-Methylnaphthalene & naphthalene have boiling points above 200 °C and are better suited to analysis by methods 8270 & 625 as semivolatile organics.
Y11	Unidentified peaks present in sample.
Y16	No tare weight on vial. Results and reporting limits are estimated.
Y17	Probable petroleum product(s) present.
Y20	Reporting Limits (RL) raised due to matrix.
Y29	DRO results may also include non-diesel organic compounds.
A11	Result is estimated due to high initial verification standard criteria failure.
ND	Indicates compound analyzed for but not detected at or above the reporting limit (RL).
RL	Reporting Limit
NA	Not Applicable
dry	Sample results reported on a dry weight basis



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Client ID: TB

Lab ID: 2012085-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
71-55-6	1,1,1-Trichloroethane	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
79-00-5	1,1,2-Trichloroethane	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
75-34-3	1,1-Dichloroethane	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
75-35-4	1,1-Dichloroethylene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	250	ug/kg dry	50	12/11/20	B0L1103	8260	
96-18-4	1,2,3-Trichloropropane	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	250	ug/kg dry	50	12/11/20	B0L1103	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
106-93-4	1,2-Dibromoethane	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
95-50-1	1,2-Dichlorobenzene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
107-06-2	1,2-Dichloroethane	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
78-87-5	1,2-Dichloropropane	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
541-73-1	1,3-Dichlorobenzene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
106-46-7	1,4-Dichlorobenzene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
540-84-1	2,2,4-Trimethylpentane	ND	250	ug/kg dry	50	12/11/20	B0L1103	8260	
78-93-3	2-Butanone (MEK)	ND	250	ug/kg dry	50	12/11/20	B0L1103	8260	
91-57-6	2-Methylnaphthalene	ND	250	ug/kg dry	50	12/11/20	B0L1103	8260	X
67-64-1	2-Propanone (acetone)	ND	1000	ug/kg dry	50	12/11/20	B0L1103	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	250	ug/kg dry	50	12/11/20	B0L1103	8260	
107-13-1	Acrylonitrile	ND	250	ug/kg dry	50	12/11/20	B0L1103	8260	
71-43-2	Benzene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
74-97-5	Bromochloromethane	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
75-27-4	Bromodichloromethane	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
75-25-2	Bromoform	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
74-83-9	Bromomethane	ND	200	ug/kg dry	50	12/11/20	B0L1103	8260	
75-15-0	Carbon disulfide	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
56-23-5	Carbon tetrachloride	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
108-90-7	Chlorobenzene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
75-00-3	Chloroethane	ND	250	ug/kg dry	50	12/11/20	B0L1103	8260	
67-66-3	Chloroform	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
74-87-3	Chloromethane	ND	250	ug/kg dry	50	12/11/20	B0L1103	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
110-82-7	Cyclohexane	ND	250	ug/kg dry	50	12/11/20	B0L1103	8260	
124-48-1	Dibromochloromethane	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
74-95-3	Dibromomethane	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	



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Client ID: TB

Lab ID: 2012085-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	250	ug/kg dry	50	12/11/20	B0L1103	8260	
60-29-7	Diethyl ether	ND	200	ug/kg dry	50	12/11/20	B0L1103	8260	
108-20-3	Diisopropyl Ether	ND	250	ug/kg dry	50	12/11/20	B0L1103	8260	
100-41-4	Ethylbenzene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
637-92-3	Ethyltertiarybutylether	ND	250	ug/kg dry	50	12/11/20	B0L1103	8260	
67-72-1	Hexachloroethane	ND	250	ug/kg dry	50	12/11/20	B0L1103	8260	
110-54-3	Hexane	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
98-82-8	Isopropylbenzene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
1330-20-7	m & p - Xylene	ND	100	ug/kg dry	50	12/11/20	B0L1103	8260	
75-09-2	Methylene chloride	ND	100	ug/kg dry	50	12/11/20	B0L1103	8260	
1634-04-4	Methyltertiarybutylether	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
91-20-3	Naphthalene	ND	250	ug/kg dry	50	12/11/20	B0L1103	8260	X
104-51-8	n-Butylbenzene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
103-65-1	n-Propylbenzene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
95-47-6	o-Xylene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
135-98-8	sec-Butylbenzene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
100-42-5	Styrene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
98-06-6	tert-Butylbenzene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
75-65-0	tertiary Butyl Alcohol	ND	2500	ug/kg dry	50	12/11/20	B0L1103	8260	
994-05-8	tertiaryAmylmethylether	ND	250	ug/kg dry	50	12/11/20	B0L1103	8260	
127-18-4	Tetrachloroethylene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
109-99-9	Tetrahydrofuran	ND	250	ug/kg dry	50	12/11/20	B0L1103	8260	
108-88-3	Toluene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
79-01-6	Trichloroethylene	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
75-69-4	Trichlorofluoromethane	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
75-01-4	Vinyl chloride	ND	50	ug/kg dry	50	12/11/20	B0L1103	8260	
Surrogate: Bromofluorobenzene		97.1 %	40.3-194	12/11/20	B0L1103	8260			
Surrogate: Dibromofluoromethane		98.5 %	52.1-217	12/11/20	B0L1103	8260			
Surrogate: Toluene-d8		104 %	55.4-196	12/11/20	B0L1103	8260			

**Client ID: TB**  
**Lab ID: 2012085-01**

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	100	0.1	%	1	12/15/20	B0L1011	2540 B	



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Client ID: GP-1 (4.5'-5')

Lab ID: 2012085-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									<b>See note Y11</b>
630-20-6	1,1,1,2-Tetrachloroethane	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
71-55-6	1,1,1-Trichloroethane	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
79-00-5	1,1,2-Trichloroethane	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
75-34-3	1,1-Dichloroethane	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
75-35-4	1,1-Dichloroethylene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	430	ug/kg dry	50	12/11/20	B0L1103	8260	
96-18-4	1,2,3-Trichloropropane	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
526-73-8	<b>1,2,3-Trimethylbenzene</b>	<b>240</b>	87	ug/kg dry	50	12/11/20	B0L1103	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	430	ug/kg dry	50	12/11/20	B0L1103	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
106-93-4	1,2-Dibromoethane	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
95-50-1	1,2-Dichlorobenzene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
107-06-2	1,2-Dichloroethane	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
78-87-5	1,2-Dichloropropane	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
541-73-1	1,3-Dichlorobenzene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
106-46-7	1,4-Dichlorobenzene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
540-84-1	<b>2,2,4-Trimethylpentane</b>	<b>42000</b>	3500	ug/kg dry	400	12/14/20	B0L1103	8260	
78-93-3	2-Butanone (MEK)	ND	430	ug/kg dry	50	12/11/20	B0L1103	8260	
91-57-6	2-Methylnaphthalene	ND	430	ug/kg dry	50	12/11/20	B0L1103	8260	X
67-64-1	2-Propanone (acetone)	ND	1700	ug/kg dry	50	12/11/20	B0L1103	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	430	ug/kg dry	50	12/11/20	B0L1103	8260	
107-13-1	Acrylonitrile	ND	430	ug/kg dry	50	12/11/20	B0L1103	8260	
71-43-2	Benzene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
74-97-5	Bromochloromethane	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
75-27-4	Bromodichloromethane	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
75-25-2	Bromoform	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
74-83-9	Bromomethane	ND	350	ug/kg dry	50	12/11/20	B0L1103	8260	
75-15-0	Carbon disulfide	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
56-23-5	Carbon tetrachloride	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
108-90-7	Chlorobenzene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
75-00-3	Chloroethane	ND	430	ug/kg dry	50	12/11/20	B0L1103	8260	
67-66-3	Chloroform	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
74-87-3	Chloromethane	ND	430	ug/kg dry	50	12/11/20	B0L1103	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
110-82-7	Cyclohexane	ND	430	ug/kg dry	50	12/11/20	B0L1103	8260	
124-48-1	Dibromochloromethane	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
74-95-3	Dibromomethane	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	



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Client ID: GP-1 (4.5'-5')

Lab ID: 2012085-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									<b>See note Y11</b>
75-71-8	Dichlorodifluoromethane	ND	430	ug/kg dry	50	12/11/20	B0L1103	8260	
60-29-7	Diethyl ether	ND	350	ug/kg dry	50	12/11/20	B0L1103	8260	
108-20-3	Diisopropyl Ether	ND	430	ug/kg dry	50	12/11/20	B0L1103	8260	
100-41-4	Ethylbenzene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
637-92-3	Ethyltertiarybutylether	ND	430	ug/kg dry	50	12/11/20	B0L1103	8260	
67-72-1	Hexachloroethane	ND	430	ug/kg dry	50	12/11/20	B0L1103	8260	
110-54-3	Hexane	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
98-82-8	<b>Isopropylbenzene</b>	<b>190</b>	87	ug/kg dry	50	12/11/20	B0L1103	8260	
1330-20-7	m & p - Xylene	ND	170	ug/kg dry	50	12/11/20	B0L1103	8260	
75-09-2	Methylene chloride	ND	170	ug/kg dry	50	12/11/20	B0L1103	8260	
1634-04-4	Methyltertiarybutylether	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
91-20-3	Naphthalene	ND	430	ug/kg dry	50	12/11/20	B0L1103	8260	X
104-51-8	<b>n-Butylbenzene</b>	<b>600</b>	87	ug/kg dry	50	12/11/20	B0L1103	8260	
103-65-1	<b>n-Propylbenzene</b>	<b>1200</b>	87	ug/kg dry	50	12/11/20	B0L1103	8260	
95-47-6	o-Xylene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
135-98-8	<b>sec-Butylbenzene</b>	<b>420</b>	87	ug/kg dry	50	12/11/20	B0L1103	8260	
100-42-5	Styrene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
98-06-6	tert-Butylbenzene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
75-65-0	tertiary Butyl Alcohol	ND	4300	ug/kg dry	50	12/11/20	B0L1103	8260	
994-05-8	tertiaryAmylmethylether	ND	430	ug/kg dry	50	12/11/20	B0L1103	8260	
127-18-4	Tetrachloroethylene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
109-99-9	Tetrahydrofuran	ND	430	ug/kg dry	50	12/11/20	B0L1103	8260	
108-88-3	Toluene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
79-01-6	Trichloroethylene	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
75-69-4	Trichlorofluoromethane	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
75-01-4	Vinyl chloride	ND	87	ug/kg dry	50	12/11/20	B0L1103	8260	
Surrogate: Bromofluorobenzene			111 %	40.3-194		12/11/20	B0L1103	8260	
Surrogate: Dibromofluoromethane			112 %	52.1-217		12/11/20	B0L1103	8260	
Surrogate: Toluene-d8			114 %	55.4-196		12/11/20	B0L1103	8260	





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ENVIRONMENTAL LABORATORY

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

Client ID: GP-1 (4.5'-5')

Lab ID: 2012085-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	700000	8700	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	200000	32000	ug/kg dry	1	12/14/20	B0L1101	8015	Y29
ORO	Oil Range Organics (C20-C34)	310000	130000	ug/kg dry	1	12/14/20	B0L1101	8015	Y30

**Organics-Semivolatiles**

See note Y17

91-57-6	2-Methylnaphthalene	ND	320	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	Benz[a]anthracene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
50-32-8	Benzo[a]pyrene	ND	250	ug/kg dry	1	12/18/20	B0L1514	8270	
205-99-2	Benzo[b]fluoranthene	ND	250	ug/kg dry	1	12/18/20	B0L1514	8270	
191-24-2	Benzo[g,h,i]perylene	ND	250	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	250	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	Chrysene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
53-70-3	Dibenz[a,h]anthracene	ND	250	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	Fluoranthene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
86-73-7	Fluorene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	250	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	Naphthalene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
85-01-8	Phenanthrene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
129-00-0	Pyrene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
Surrogate: 2-Fluorobiphenyl			81.5 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			72.2 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			83.7 %	36-142		12/18/20	B0L1514	8270	

**Client ID: GP-1 (4.5'-5')**

**Lab ID: 2012085-02**

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	78.8	0.1	%	1	12/15/20	B0L1011	2540 B	



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

Client ID: GP-1 (12'-13')

Lab ID: 2012085-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
71-55-6	1,1,1-Trichloroethane	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
79-00-5	1,1,2-Trichloroethane	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
75-34-3	1,1-Dichloroethane	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
75-35-4	1,1-Dichloroethylene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	320	ug/kg dry	50	12/14/20	B0L1408	8260	
96-18-4	1,2,3-Trichloropropane	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	320	ug/kg dry	50	12/14/20	B0L1408	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
106-93-4	1,2-Dibromoethane	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
95-50-1	1,2-Dichlorobenzene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
107-06-2	1,2-Dichloroethane	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
78-87-5	1,2-Dichloropropane	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
541-73-1	1,3-Dichlorobenzene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
106-46-7	1,4-Dichlorobenzene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
540-84-1	2,2,4-Trimethylpentane	ND	320	ug/kg dry	50	12/14/20	B0L1408	8260	
78-93-3	2-Butanone (MEK)	ND	320	ug/kg dry	50	12/14/20	B0L1408	8260	
91-57-6	2-Methylnaphthalene	ND	320	ug/kg dry	50	12/14/20	B0L1408	8260	X
67-64-1	2-Propanone (acetone)	ND	1300	ug/kg dry	50	12/14/20	B0L1408	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	320	ug/kg dry	50	12/14/20	B0L1408	8260	
107-13-1	Acrylonitrile	ND	320	ug/kg dry	50	12/14/20	B0L1408	8260	
71-43-2	Benzene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
74-97-5	Bromochloromethane	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
75-27-4	Bromodichloromethane	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
75-25-2	Bromoform	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
74-83-9	Bromomethane	ND	260	ug/kg dry	50	12/14/20	B0L1408	8260	
75-15-0	Carbon disulfide	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
56-23-5	Carbon tetrachloride	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
108-90-7	Chlorobenzene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
75-00-3	Chloroethane	ND	320	ug/kg dry	50	12/14/20	B0L1408	8260	
67-66-3	Chloroform	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
74-87-3	Chloromethane	ND	320	ug/kg dry	50	12/14/20	B0L1408	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
110-82-7	Cyclohexane	ND	320	ug/kg dry	50	12/14/20	B0L1408	8260	
124-48-1	Dibromochloromethane	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
74-95-3	Dibromomethane	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	



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

Client ID: GP-1 (12'-13')

Lab ID: 2012085-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	320	ug/kg dry	50	12/14/20	B0L1408	8260	
60-29-7	Diethyl ether	ND	260	ug/kg dry	50	12/14/20	B0L1408	8260	
108-20-3	Diisopropyl Ether	ND	320	ug/kg dry	50	12/14/20	B0L1408	8260	
100-41-4	Ethylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
637-92-3	Ethyltertiarybutylether	ND	320	ug/kg dry	50	12/14/20	B0L1408	8260	
67-72-1	Hexachloroethane	ND	320	ug/kg dry	50	12/14/20	B0L1408	8260	
110-54-3	Hexane	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
98-82-8	Isopropylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
1330-20-7	m & p - Xylene	ND	130	ug/kg dry	50	12/14/20	B0L1408	8260	
75-09-2	Methylene chloride	ND	130	ug/kg dry	50	12/14/20	B0L1408	8260	
1634-04-4	Methyltertiarybutylether	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
91-20-3	Naphthalene	ND	320	ug/kg dry	50	12/14/20	B0L1408	8260	X
104-51-8	n-Butylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
103-65-1	n-Propylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
95-47-6	o-Xylene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
135-98-8	sec-Butylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
100-42-5	Styrene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
98-06-6	tert-Butylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
75-65-0	tertiary Butyl Alcohol	ND	3200	ug/kg dry	50	12/14/20	B0L1408	8260	
994-05-8	tertiaryAmylmethylether	ND	320	ug/kg dry	50	12/14/20	B0L1408	8260	
127-18-4	Tetrachloroethylene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
109-99-9	Tetrahydrofuran	ND	320	ug/kg dry	50	12/14/20	B0L1408	8260	
108-88-3	Toluene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
79-01-6	Trichloroethylene	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
75-69-4	Trichlorofluoromethane	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
75-01-4	Vinyl chloride	ND	64	ug/kg dry	50	12/14/20	B0L1408	8260	
Surrogate: Bromofluorobenzene			104 %	40.3-194		12/14/20	B0L1408	8260	
Surrogate: Dibromofluoromethane			113 %	52.1-217		12/14/20	B0L1408	8260	
Surrogate: Toluene-d8			109 %	55.4-196		12/14/20	B0L1408	8260	



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ENVIRONMENTAL LABORATORY

P.O. Box 30270  
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TEL: (517) 335-9800  
FAX: (517) 335-9600

Client ID: GP-1 (12'-13')

Lab ID: 2012085-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	ND	6400	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	53000	28000	ug/kg dry	1	12/15/20	B0L1101	8015	Y29
ORO	Oil Range Organics (C20-C34)	ND	110000	ug/kg dry	1	12/15/20	B0L1101	8015	

**Organics-Semivolatiles**

91-57-6	2-Methylnaphthalene	ND	280	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	Benz[a]anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
50-32-8	Benzo[a]pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
205-99-2	Benzo[b]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
191-24-2	Benzo[g,h,i]perylene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	Chrysene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
53-70-3	Dibenz[a,h]anthracene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	Fluoranthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
86-73-7	Fluorene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	Naphthalene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
85-01-8	Phenanthrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
129-00-0	Pyrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
Surrogate: 2-Fluorobiphenyl			84.8 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			76.7 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			84.9 %	36-142		12/18/20	B0L1514	8270	

Client ID: GP-1 (12'-13')

Lab ID: 2012085-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	88.4	0.1	%	1	12/15/20	B0L1011	2540 B	



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TEL: (517) 335-9800  
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Client ID: GP-2 (4.5'-5')

Lab ID: 2012085-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
71-55-6	1,1,1-Trichloroethane	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
79-00-5	1,1,2-Trichloroethane	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
75-34-3	1,1-Dichloroethane	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
75-35-4	1,1-Dichloroethylene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	370	ug/kg dry	50	12/11/20	B0L1103	8260	
96-18-4	1,2,3-Trichloropropane	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	370	ug/kg dry	50	12/11/20	B0L1103	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
106-93-4	1,2-Dibromoethane	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
95-50-1	1,2-Dichlorobenzene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
107-06-2	1,2-Dichloroethane	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
78-87-5	1,2-Dichloropropane	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
541-73-1	1,3-Dichlorobenzene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
106-46-7	1,4-Dichlorobenzene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
540-84-1	2,2,4-Trimethylpentane	ND	370	ug/kg dry	50	12/11/20	B0L1103	8260	
78-93-3	2-Butanone (MEK)	ND	370	ug/kg dry	50	12/11/20	B0L1103	8260	
91-57-6	2-Methylnaphthalene	ND	370	ug/kg dry	50	12/11/20	B0L1103	8260	X
67-64-1	2-Propanone (acetone)	ND	1500	ug/kg dry	50	12/11/20	B0L1103	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	370	ug/kg dry	50	12/11/20	B0L1103	8260	
107-13-1	Acrylonitrile	ND	370	ug/kg dry	50	12/11/20	B0L1103	8260	
71-43-2	Benzene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
74-97-5	Bromochloromethane	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
75-27-4	Bromodichloromethane	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
75-25-2	Bromoform	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
74-83-9	Bromomethane	ND	290	ug/kg dry	50	12/11/20	B0L1103	8260	
75-15-0	Carbon disulfide	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
56-23-5	Carbon tetrachloride	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
108-90-7	Chlorobenzene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
75-00-3	Chloroethane	ND	370	ug/kg dry	50	12/11/20	B0L1103	8260	
67-66-3	Chloroform	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
74-87-3	Chloromethane	ND	370	ug/kg dry	50	12/11/20	B0L1103	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
110-82-7	Cyclohexane	ND	370	ug/kg dry	50	12/11/20	B0L1103	8260	
124-48-1	Dibromochloromethane	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
74-95-3	Dibromomethane	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	



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TEL: (517) 335-9800  
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Client ID: GP-2 (4.5'-5')

Lab ID: 2012085-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	370	ug/kg dry	50	12/11/20	B0L1103	8260	
60-29-7	Diethyl ether	ND	290	ug/kg dry	50	12/11/20	B0L1103	8260	
108-20-3	Diisopropyl Ether	ND	370	ug/kg dry	50	12/11/20	B0L1103	8260	
100-41-4	Ethylbenzene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
637-92-3	Ethyltertiarybutylether	ND	370	ug/kg dry	50	12/11/20	B0L1103	8260	
67-72-1	Hexachloroethane	ND	370	ug/kg dry	50	12/11/20	B0L1103	8260	
110-54-3	Hexane	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
98-82-8	Isopropylbenzene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
1330-20-7	m & p - Xylene	ND	150	ug/kg dry	50	12/11/20	B0L1103	8260	
75-09-2	Methylene chloride	ND	150	ug/kg dry	50	12/11/20	B0L1103	8260	
1634-04-4	Methyltertiarybutylether	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
91-20-3	Naphthalene	ND	370	ug/kg dry	50	12/11/20	B0L1103	8260	X
104-51-8	n-Butylbenzene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
103-65-1	n-Propylbenzene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
95-47-6	o-Xylene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
135-98-8	sec-Butylbenzene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
100-42-5	Styrene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
98-06-6	tert-Butylbenzene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
75-65-0	tertiary Butyl Alcohol	ND	3700	ug/kg dry	50	12/11/20	B0L1103	8260	
994-05-8	tertiaryAmylmethylether	ND	370	ug/kg dry	50	12/11/20	B0L1103	8260	
127-18-4	Tetrachloroethylene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
109-99-9	Tetrahydrofuran	ND	370	ug/kg dry	50	12/11/20	B0L1103	8260	
108-88-3	Toluene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
79-01-6	Trichloroethylene	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
75-69-4	Trichlorofluoromethane	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
75-01-4	Vinyl chloride	ND	73	ug/kg dry	50	12/11/20	B0L1103	8260	
Surrogate: Bromofluorobenzene			117 %	40.3-194		12/11/20	B0L1103	8260	
Surrogate: Dibromofluoromethane			116 %	52.1-217		12/11/20	B0L1103	8260	
Surrogate: Toluene-d8			121 %	55.4-196		12/11/20	B0L1103	8260	





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ENVIRONMENTAL LABORATORY

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

Client ID: GP-2 (4.5'-5')

Lab ID: 2012085-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	ND	7300	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	ND	30000	ug/kg dry	1	12/14/20	B0L1101	8015	
ORO	Oil Range Organics (C20-C34)	ND	120000	ug/kg dry	1	12/14/20	B0L1101	8015	

**Organics-Semivolatiles**

91-57-6	2-Methylnaphthalene	ND	300	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	Benz[a]anthracene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
50-32-8	Benzo[a]pyrene	ND	240	ug/kg dry	1	12/18/20	B0L1514	8270	
205-99-2	Benzo[b]fluoranthene	ND	240	ug/kg dry	1	12/18/20	B0L1514	8270	
191-24-2	Benzo[g,h,i]perylene	ND	240	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	240	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	Chrysene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
53-70-3	Dibenz[a,h]anthracene	ND	240	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	Fluoranthene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
86-73-7	Fluorene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	240	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	Naphthalene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
85-01-8	Phenanthrene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
129-00-0	Pyrene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
Surrogate: 2-Fluorobiphenyl			84.1 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			77.5 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			84.4 %	36-142		12/18/20	B0L1514	8270	

Client ID: GP-2 (4.5'-5')

Lab ID: 2012085-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	83.2	0.1	%	1	12/15/20	B0L1011	2540 B	



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

Client ID: GP-2 (11'-12')

Lab ID: 2012085-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
71-55-6	1,1,1-Trichloroethane	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
79-00-5	1,1,2-Trichloroethane	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
75-34-3	1,1-Dichloroethane	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
75-35-4	1,1-Dichloroethylene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
96-18-4	1,2,3-Trichloropropane	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
106-93-4	1,2-Dibromoethane	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
95-50-1	1,2-Dichlorobenzene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
107-06-2	1,2-Dichloroethane	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
78-87-5	1,2-Dichloropropane	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
541-73-1	1,3-Dichlorobenzene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
106-46-7	1,4-Dichlorobenzene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
540-84-1	2,2,4-Trimethylpentane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
78-93-3	2-Butanone (MEK)	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
91-57-6	2-Methylnaphthalene	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	X
67-64-1	2-Propanone (acetone)	ND	1400	ug/kg dry	50	12/11/20	B0L1103	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
107-13-1	Acrylonitrile	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
71-43-2	Benzene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
74-97-5	Bromochloromethane	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
75-27-4	Bromodichloromethane	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
75-25-2	Bromoform	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
74-83-9	Bromomethane	ND	270	ug/kg dry	50	12/11/20	B0L1103	8260	
75-15-0	Carbon disulfide	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
56-23-5	Carbon tetrachloride	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
108-90-7	Chlorobenzene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
75-00-3	Chloroethane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
67-66-3	Chloroform	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
74-87-3	Chloromethane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
110-82-7	Cyclohexane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
124-48-1	Dibromochloromethane	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
74-95-3	Dibromomethane	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	



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

Client ID: GP-2 (11'-12')

Lab ID: 2012085-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
60-29-7	Diethyl ether	ND	270	ug/kg dry	50	12/11/20	B0L1103	8260	
108-20-3	Diisopropyl Ether	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
100-41-4	Ethylbenzene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
637-92-3	Ethyltertiarybutylether	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
67-72-1	Hexachloroethane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
110-54-3	Hexane	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
98-82-8	Isopropylbenzene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
1330-20-7	m & p - Xylene	ND	140	ug/kg dry	50	12/11/20	B0L1103	8260	
75-09-2	Methylene chloride	ND	140	ug/kg dry	50	12/11/20	B0L1103	8260	
1634-04-4	Methyltertiarybutylether	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
91-20-3	Naphthalene	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	X
104-51-8	n-Butylbenzene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
103-65-1	n-Propylbenzene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
95-47-6	o-Xylene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
135-98-8	sec-Butylbenzene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
100-42-5	Styrene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
98-06-6	tert-Butylbenzene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
75-65-0	tertiary Butyl Alcohol	ND	3400	ug/kg dry	50	12/11/20	B0L1103	8260	
994-05-8	tertiaryAmylmethylether	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
127-18-4	Tetrachloroethylene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
109-99-9	Tetrahydrofuran	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
108-88-3	Toluene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
79-01-6	Trichloroethylene	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
75-69-4	Trichlorofluoromethane	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
75-01-4	Vinyl chloride	ND	68	ug/kg dry	50	12/11/20	B0L1103	8260	
Surrogate: Bromofluorobenzene			105 %	40.3-194		12/11/20	B0L1103	8260	
Surrogate: Dibromofluoromethane			116 %	52.1-217		12/11/20	B0L1103	8260	
Surrogate: Toluene-d8			116 %	55.4-196		12/11/20	B0L1103	8260	



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ENVIRONMENTAL LABORATORY

P.O. Box 30270  
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TEL: (517) 335-9800  
FAX: (517) 335-9600

Client ID: GP-2 (11'-12')

Lab ID: 2012085-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	ND	6800	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	56000	28000	ug/kg dry	1	12/15/20	B0L1101	8015	Y29
ORO	Oil Range Organics (C20-C34)	ND	110000	ug/kg dry	1	12/15/20	B0L1101	8015	

**Organics-Semivolatiles**

91-57-6	2-Methylnaphthalene	ND	280	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	Benz[a]anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
50-32-8	Benzo[a]pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
205-99-2	Benzo[b]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
191-24-2	Benzo[g,h,i]perylene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	Chrysene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
53-70-3	Dibenz[a,h]anthracene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	Fluoranthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
86-73-7	Fluorene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	Naphthalene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
85-01-8	Phenanthrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
129-00-0	Pyrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
Surrogate: 2-Fluorobiphenyl			87.0 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			79.1 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			86.3 %	36-142		12/18/20	B0L1514	8270	

**Client ID: GP-2 (11'-12')**

**Lab ID: 2012085-05**

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	88.1	0.1	%	1	12/15/20	B0L1011	2540 B	



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ENVIRONMENTAL LABORATORY

P.O. Box 30270  
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TEL: (517) 335-9800  
FAX: (517) 335-9600

Client ID: GP-3 (2'-3')

Lab ID: 2012085-06

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
71-55-6	1,1,1-Trichloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
79-00-5	1,1,2-Trichloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
75-34-3	1,1-Dichloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
75-35-4	1,1-Dichloroethylene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
96-18-4	1,2,3-Trichloropropane	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
106-93-4	1,2-Dibromoethane	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
95-50-1	1,2-Dichlorobenzene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
107-06-2	1,2-Dichloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
78-87-5	1,2-Dichloropropane	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
541-73-1	1,3-Dichlorobenzene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
106-46-7	1,4-Dichlorobenzene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
540-84-1	2,2,4-Trimethylpentane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
78-93-3	2-Butanone (MEK)	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
91-57-6	2-Methylnaphthalene	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	X
67-64-1	2-Propanone (acetone)	ND	1400	ug/kg dry	50	12/11/20	B0L1103	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
107-13-1	Acrylonitrile	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
71-43-2	Benzene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
74-97-5	Bromochloromethane	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
75-27-4	Bromodichloromethane	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
75-25-2	Bromoform	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
74-83-9	Bromomethane	ND	270	ug/kg dry	50	12/11/20	B0L1103	8260	
75-15-0	Carbon disulfide	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
56-23-5	Carbon tetrachloride	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
108-90-7	Chlorobenzene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
75-00-3	Chloroethane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
67-66-3	Chloroform	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
74-87-3	Chloromethane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
110-82-7	Cyclohexane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
124-48-1	Dibromochloromethane	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
74-95-3	Dibromomethane	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	



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ENVIRONMENTAL LABORATORY

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

Client ID: GP-3 (2'-3')

Lab ID: 2012085-06

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
60-29-7	Diethyl ether	ND	270	ug/kg dry	50	12/11/20	B0L1103	8260	
108-20-3	Diisopropyl Ether	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
100-41-4	Ethylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
637-92-3	Ethyltertiarybutylether	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
67-72-1	Hexachloroethane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
110-54-3	Hexane	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
98-82-8	Isopropylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
1330-20-7	m & p - Xylene	ND	140	ug/kg dry	50	12/11/20	B0L1103	8260	
75-09-2	Methylene chloride	ND	140	ug/kg dry	50	12/11/20	B0L1103	8260	
1634-04-4	Methyltertiarybutylether	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
91-20-3	Naphthalene	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	X
104-51-8	n-Butylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
103-65-1	n-Propylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
95-47-6	o-Xylene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
135-98-8	sec-Butylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
100-42-5	Styrene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
98-06-6	tert-Butylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
75-65-0	tertiary Butyl Alcohol	ND	3400	ug/kg dry	50	12/11/20	B0L1103	8260	
994-05-8	tertiaryAmylmethylether	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
127-18-4	Tetrachloroethylene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
109-99-9	Tetrahydrofuran	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
108-88-3	Toluene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
79-01-6	Trichloroethylene	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
75-69-4	Trichlorofluoromethane	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
75-01-4	Vinyl chloride	ND	69	ug/kg dry	50	12/11/20	B0L1103	8260	
Surrogate: Bromofluorobenzene			111 %	40.3-194		12/11/20	B0L1103	8260	
Surrogate: Dibromofluoromethane			105 %	52.1-217		12/11/20	B0L1103	8260	
Surrogate: Toluene-d8			118 %	55.4-196		12/11/20	B0L1103	8260	





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Client ID: GP-3 (2'-3')

Lab ID: 2012085-06

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	ND	6900	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	ND	29000	ug/kg dry	1	12/14/20	B0L1101	8015	
ORO	Oil Range Organics (C20-C34)	ND	120000	ug/kg dry	1	12/14/20	B0L1101	8015	

**Organics-Semivolatiles**

91-57-6	2-Methylnaphthalene	ND	290	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	Benz[a]anthracene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
50-32-8	Benzo[a]pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
205-99-2	Benzo[b]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
191-24-2	Benzo[g,h,i]perylene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	Chrysene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
53-70-3	Dibenz[a,h]anthracene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	Fluoranthene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
86-73-7	Fluorene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	Naphthalene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
85-01-8	Phenanthrene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
129-00-0	Pyrene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
Surrogate: 2-Fluorobiphenyl			70.4 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			63.9 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			70.9 %	36-142		12/18/20	B0L1514	8270	

Client ID: GP-3 (2'-3')  
Lab ID: 2012085-06

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	85.6	0.1	%	1	12/15/20	B0L1011	2540 B	



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Client ID: GP-3 (11'-12')

Lab ID: 2012085-07

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
71-55-6	1,1,1-Trichloroethane	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
79-00-5	1,1,2-Trichloroethane	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
75-34-3	1,1-Dichloroethane	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
75-35-4	1,1-Dichloroethylene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
96-18-4	1,2,3-Trichloropropane	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
106-93-4	1,2-Dibromoethane	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
95-50-1	1,2-Dichlorobenzene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
107-06-2	1,2-Dichloroethane	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
78-87-5	1,2-Dichloropropane	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
541-73-1	1,3-Dichlorobenzene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
106-46-7	1,4-Dichlorobenzene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
540-84-1	2,2,4-Trimethylpentane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
78-93-3	2-Butanone (MEK)	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
91-57-6	2-Methylnaphthalene	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	X
67-64-1	2-Propanone (acetone)	ND	1300	ug/kg dry	50	12/11/20	B0L1103	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
107-13-1	Acrylonitrile	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
71-43-2	Benzene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
74-97-5	Bromochloromethane	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
75-27-4	Bromodichloromethane	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
75-25-2	Bromoform	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
74-83-9	Bromomethane	ND	270	ug/kg dry	50	12/11/20	B0L1103	8260	
75-15-0	Carbon disulfide	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
56-23-5	Carbon tetrachloride	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
108-90-7	Chlorobenzene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
75-00-3	Chloroethane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
67-66-3	Chloroform	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
74-87-3	Chloromethane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
110-82-7	Cyclohexane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
124-48-1	Dibromochloromethane	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
74-95-3	Dibromomethane	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	



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Client ID: GP-3 (11'-12')

Lab ID: 2012085-07

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
60-29-7	Diethyl ether	ND	270	ug/kg dry	50	12/11/20	B0L1103	8260	
108-20-3	Diisopropyl Ether	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
100-41-4	Ethylbenzene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
637-92-3	Ethyltertiarybutylether	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
67-72-1	Hexachloroethane	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
110-54-3	Hexane	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
98-82-8	Isopropylbenzene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
1330-20-7	m & p - Xylene	ND	130	ug/kg dry	50	12/11/20	B0L1103	8260	
75-09-2	Methylene chloride	ND	130	ug/kg dry	50	12/11/20	B0L1103	8260	
1634-04-4	Methyltertiarybutylether	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
91-20-3	Naphthalene	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	X
104-51-8	n-Butylbenzene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
103-65-1	n-Propylbenzene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
95-47-6	o-Xylene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
135-98-8	sec-Butylbenzene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
100-42-5	Styrene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
98-06-6	tert-Butylbenzene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
75-65-0	tertiary Butyl Alcohol	ND	3400	ug/kg dry	50	12/11/20	B0L1103	8260	
994-05-8	tertiaryAmylmethylether	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
127-18-4	Tetrachloroethylene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
109-99-9	Tetrahydrofuran	ND	340	ug/kg dry	50	12/11/20	B0L1103	8260	
108-88-3	Toluene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
79-01-6	Trichloroethylene	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
75-69-4	Trichlorofluoromethane	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
75-01-4	Vinyl chloride	ND	67	ug/kg dry	50	12/11/20	B0L1103	8260	
Surrogate: Bromofluorobenzene			104 %	40.3-194		12/11/20	B0L1103	8260	
Surrogate: Dibromofluoromethane			112 %	52.1-217		12/11/20	B0L1103	8260	
Surrogate: Toluene-d8			117 %	55.4-196		12/11/20	B0L1103	8260	



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Client ID: GP-3 (11'-12')

Lab ID: 2012085-07

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	ND	6700	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	55000	29000	ug/kg dry	1	12/15/20	B0L1101	8015	Y29
ORO	Oil Range Organics (C20-C34)	ND	120000	ug/kg dry	1	12/15/20	B0L1101	8015	

**Organics-Semivolatiles**

91-57-6	2-Methylnaphthalene	ND	290	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	Benz[a]anthracene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
50-32-8	Benzo[a]pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
205-99-2	Benzo[b]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
191-24-2	Benzo[g,h,i]perylene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	Chrysene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
53-70-3	Dibenz[a,h]anthracene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	Fluoranthene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
86-73-7	Fluorene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	Naphthalene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
85-01-8	Phenanthrene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
129-00-0	Pyrene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
Surrogate: 2-Fluorobiphenyl			83.6 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			76.1 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			82.9 %	36-142		12/18/20	B0L1514	8270	

Client ID: GP-3 (11'-12')

Lab ID: 2012085-07

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	86.2	0.1	%	1	12/15/20	B0L1011	2540 B	



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ENVIRONMENTAL LABORATORY

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

Client ID: GP-4 (4.5'-5')

Lab ID: 2012085-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									<b>See note Y11</b>
630-20-6	1,1,1,2-Tetrachloroethane	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
71-55-6	1,1,1-Trichloroethane	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
79-00-5	1,1,2-Trichloroethane	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
75-34-3	1,1-Dichloroethane	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
75-35-4	1,1-Dichloroethylene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	410	ug/kg dry	50	12/11/20	B0L1103	8260	
96-18-4	1,2,3-Trichloropropane	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	410	ug/kg dry	50	12/11/20	B0L1103	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
106-93-4	1,2-Dibromoethane	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
95-50-1	1,2-Dichlorobenzene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
107-06-2	1,2-Dichloroethane	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
78-87-5	1,2-Dichloropropane	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
541-73-1	1,3-Dichlorobenzene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
106-46-7	1,4-Dichlorobenzene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
540-84-1	2,2,4-Trimethylpentane	ND	410	ug/kg dry	50	12/11/20	B0L1103	8260	
78-93-3	2-Butanone (MEK)	ND	410	ug/kg dry	50	12/11/20	B0L1103	8260	
91-57-6	2-Methylnaphthalene	ND	410	ug/kg dry	50	12/11/20	B0L1103	8260	X
67-64-1	2-Propanone (acetone)	ND	1600	ug/kg dry	50	12/11/20	B0L1103	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	410	ug/kg dry	50	12/11/20	B0L1103	8260	
107-13-1	Acrylonitrile	ND	410	ug/kg dry	50	12/11/20	B0L1103	8260	
71-43-2	Benzene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
74-97-5	Bromochloromethane	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
75-27-4	Bromodichloromethane	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
75-25-2	Bromoform	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
74-83-9	Bromomethane	ND	330	ug/kg dry	50	12/11/20	B0L1103	8260	
75-15-0	Carbon disulfide	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
56-23-5	Carbon tetrachloride	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
108-90-7	Chlorobenzene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
75-00-3	Chloroethane	ND	410	ug/kg dry	50	12/11/20	B0L1103	8260	
67-66-3	Chloroform	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
74-87-3	Chloromethane	ND	410	ug/kg dry	50	12/11/20	B0L1103	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
110-82-7	Cyclohexane	ND	410	ug/kg dry	50	12/11/20	B0L1103	8260	
124-48-1	Dibromochloromethane	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
74-95-3	Dibromomethane	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	



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Client ID: GP-4 (4.5'-5')

Lab ID: 2012085-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									<b>See note Y11</b>
75-71-8	Dichlorodifluoromethane	ND	410	ug/kg dry	50	12/11/20	B0L1103	8260	
60-29-7	Diethyl ether	ND	330	ug/kg dry	50	12/11/20	B0L1103	8260	
108-20-3	Diisopropyl Ether	ND	410	ug/kg dry	50	12/11/20	B0L1103	8260	
100-41-4	Ethylbenzene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
637-92-3	Ethyltertiarybutylether	ND	410	ug/kg dry	50	12/11/20	B0L1103	8260	
67-72-1	Hexachloroethane	ND	410	ug/kg dry	50	12/11/20	B0L1103	8260	
110-54-3	Hexane	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
98-82-8	Isopropylbenzene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
1330-20-7	m & p - Xylene	ND	160	ug/kg dry	50	12/11/20	B0L1103	8260	
75-09-2	Methylene chloride	ND	160	ug/kg dry	50	12/11/20	B0L1103	8260	
1634-04-4	Methyltertiarybutylether	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
91-20-3	<b>Naphthalene</b>	<b>820</b>	410	ug/kg dry	50	12/11/20	B0L1103	8260	X
104-51-8	<b>n-Butylbenzene</b>	<b>3200</b>	82	ug/kg dry	50	12/11/20	B0L1103	8260	
103-65-1	n-Propylbenzene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
95-47-6	o-Xylene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
135-98-8	<b>sec-Butylbenzene</b>	<b>350</b>	82	ug/kg dry	50	12/11/20	B0L1103	8260	
100-42-5	Styrene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
98-06-6	tert-Butylbenzene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
75-65-0	tertiary Butyl Alcohol	ND	4100	ug/kg dry	50	12/11/20	B0L1103	8260	
994-05-8	tertiaryAmylmethylether	ND	410	ug/kg dry	50	12/11/20	B0L1103	8260	
127-18-4	<b>Tetrachloroethylene</b>	<b>150</b>	82	ug/kg dry	50	12/11/20	B0L1103	8260	
109-99-9	Tetrahydrofuran	ND	410	ug/kg dry	50	12/11/20	B0L1103	8260	
108-88-3	Toluene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
79-01-6	Trichloroethylene	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
75-69-4	Trichlorofluoromethane	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
75-01-4	Vinyl chloride	ND	82	ug/kg dry	50	12/11/20	B0L1103	8260	
Surrogate: Bromofluorobenzene			93.7 %	40.3-194		12/11/20	B0L1103	8260	
Surrogate: Dibromofluoromethane			120 %	52.1-217		12/11/20	B0L1103	8260	
Surrogate: Toluene-d8			123 %	55.4-196		12/11/20	B0L1103	8260	





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Client ID: GP-4 (4.5'-5')

Lab ID: 2012085-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	81000	8200	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	780000	32000	ug/kg dry	1	12/15/20	B0L1101	8015	Y29
ORO	Oil Range Organics (C20-C34)	600000	130000	ug/kg dry	1	12/15/20	B0L1101	8015	Y30

**Organics-Semivolatiles**

See note Y17

91-57-6	2-Methylnaphthalene	ND	320	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	<b>Benzo[a]anthracene</b>	<b>210</b>	130	ug/kg dry	1	12/18/20	B0L1514	8270	A02
50-32-8	<b>Benzo[a]pyrene</b>	<b>240</b>	250	ug/kg dry	1	12/18/20	B0L1514	8270	A02, T
205-99-2	<b>Benzo[b]fluoranthene</b>	<b>650</b>	250	ug/kg dry	1	12/18/20	B0L1514	8270	A02
191-24-2	Benzo[g,h,i]perylene	ND	250	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	250	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	<b>Chrysene</b>	<b>330</b>	130	ug/kg dry	1	12/18/20	B0L1514	8270	A02
53-70-3	Dibenz[a,h]anthracene	ND	250	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	<b>Fluoranthene</b>	<b>380</b>	130	ug/kg dry	1	12/18/20	B0L1514	8270	A02
86-73-7	Fluorene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	250	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	<b>Naphthalene</b>	<b>1100</b>	130	ug/kg dry	1	12/18/20	B0L1514	8270	A02
85-01-8	<b>Phenanthrene</b>	<b>190</b>	130	ug/kg dry	1	12/18/20	B0L1514	8270	A02
129-00-0	<b>Pyrene</b>	<b>330</b>	130	ug/kg dry	1	12/18/20	B0L1514	8270	A02
Surrogate: 2-Fluorobiphenyl			85.5 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			129 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			88.8 %	36-142		12/18/20	B0L1514	8270	



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Lab ID: 2012085-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Inorganics-General Chemistry**

TS	% Total Solids	78.6	0.1	%	1	12/15/20	B0L1011	2540 B	
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Client ID: DUP-02

Lab ID: 2012085-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
71-55-6	1,1,1-Trichloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
79-00-5	1,1,2-Trichloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
75-34-3	1,1-Dichloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
75-35-4	1,1-Dichloroethylene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	320	ug/kg dry	50	12/11/20	B0L1103	8260	
96-18-4	1,2,3-Trichloropropane	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	320	ug/kg dry	50	12/11/20	B0L1103	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
106-93-4	1,2-Dibromoethane	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
95-50-1	1,2-Dichlorobenzene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
107-06-2	1,2-Dichloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
78-87-5	1,2-Dichloropropane	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
541-73-1	1,3-Dichlorobenzene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
106-46-7	1,4-Dichlorobenzene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
540-84-1	2,2,4-Trimethylpentane	ND	320	ug/kg dry	50	12/11/20	B0L1103	8260	
78-93-3	2-Butanone (MEK)	ND	320	ug/kg dry	50	12/11/20	B0L1103	8260	
91-57-6	2-Methylnaphthalene	ND	320	ug/kg dry	50	12/11/20	B0L1103	8260	X
67-64-1	2-Propanone (acetone)	ND	1300	ug/kg dry	50	12/11/20	B0L1103	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	320	ug/kg dry	50	12/11/20	B0L1103	8260	
107-13-1	Acrylonitrile	ND	320	ug/kg dry	50	12/11/20	B0L1103	8260	
71-43-2	Benzene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
74-97-5	Bromochloromethane	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
75-27-4	Bromodichloromethane	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
75-25-2	Bromoform	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
74-83-9	Bromomethane	ND	260	ug/kg dry	50	12/11/20	B0L1103	8260	
75-15-0	Carbon disulfide	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
56-23-5	Carbon tetrachloride	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
108-90-7	Chlorobenzene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
75-00-3	Chloroethane	ND	320	ug/kg dry	50	12/11/20	B0L1103	8260	
67-66-3	Chloroform	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
74-87-3	Chloromethane	ND	320	ug/kg dry	50	12/11/20	B0L1103	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
110-82-7	Cyclohexane	ND	320	ug/kg dry	50	12/11/20	B0L1103	8260	
124-48-1	Dibromochloromethane	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
74-95-3	Dibromomethane	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	



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Client ID: DUP-02

Lab ID: 2012085-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	320	ug/kg dry	50	12/11/20	B0L1103	8260	
60-29-7	Diethyl ether	ND	260	ug/kg dry	50	12/11/20	B0L1103	8260	
108-20-3	Diisopropyl Ether	ND	320	ug/kg dry	50	12/11/20	B0L1103	8260	
100-41-4	Ethylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
637-92-3	Ethyltertiarybutylether	ND	320	ug/kg dry	50	12/11/20	B0L1103	8260	
67-72-1	Hexachloroethane	ND	320	ug/kg dry	50	12/11/20	B0L1103	8260	
110-54-3	Hexane	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
98-82-8	Isopropylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
1330-20-7	m & p - Xylene	ND	130	ug/kg dry	50	12/11/20	B0L1103	8260	
75-09-2	Methylene chloride	ND	130	ug/kg dry	50	12/11/20	B0L1103	8260	
1634-04-4	Methyltertiarybutylether	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
91-20-3	Naphthalene	ND	320	ug/kg dry	50	12/11/20	B0L1103	8260	X
104-51-8	n-Butylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
103-65-1	n-Propylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
95-47-6	o-Xylene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
135-98-8	sec-Butylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
100-42-5	Styrene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
98-06-6	tert-Butylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
75-65-0	tertiary Butyl Alcohol	ND	3200	ug/kg dry	50	12/11/20	B0L1103	8260	
994-05-8	tertiaryAmylmethylether	ND	320	ug/kg dry	50	12/11/20	B0L1103	8260	
127-18-4	Tetrachloroethylene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
109-99-9	Tetrahydrofuran	ND	320	ug/kg dry	50	12/11/20	B0L1103	8260	
108-88-3	Toluene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
79-01-6	Trichloroethylene	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
75-69-4	Trichlorofluoromethane	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
75-01-4	Vinyl chloride	ND	65	ug/kg dry	50	12/11/20	B0L1103	8260	
Surrogate: Bromofluorobenzene			98.2 %	40.3-194		12/11/20	B0L1103	8260	
Surrogate: Dibromofluoromethane			106 %	52.1-217		12/11/20	B0L1103	8260	
Surrogate: Toluene-d8			108 %	55.4-196		12/11/20	B0L1103	8260	



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ENVIRONMENTAL LABORATORY

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-9800  
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Client ID: DUP-02

Lab ID: 2012085-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	ND	6500	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	42000	28000	ug/kg dry	1	12/15/20	B0L1101	8015	Y29
ORO	Oil Range Organics (C20-C34)	ND	110000	ug/kg dry	1	12/15/20	B0L1101	8015	

**Organics-Semivolatiles**

91-57-6	2-Methylnaphthalene	ND	280	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	Benz[a]anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
50-32-8	Benzo[a]pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
205-99-2	Benzo[b]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
191-24-2	Benzo[g,h,i]perylene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	Chrysene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
53-70-3	Dibenz[a,h]anthracene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	Fluoranthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
86-73-7	Fluorene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	Naphthalene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
85-01-8	Phenanthrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
129-00-0	Pyrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
Surrogate: 2-Fluorobiphenyl			83.0 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			73.4 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			82.1 %	36-142		12/18/20	B0L1514	8270	

Client ID: DUP-02

Lab ID: 2012085-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	88.9	0.1	%	1	12/15/20	B0L1011	2540 B	



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Client ID: DUP-03

Lab ID: 2012085-10

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									<b>See note Y11</b>
630-20-6	1,1,1,2-Tetrachloroethane	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
71-55-6	1,1,1-Trichloroethane	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
79-00-5	1,1,2-Trichloroethane	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
75-34-3	1,1-Dichloroethane	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
75-35-4	1,1-Dichloroethylene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	390	ug/kg dry	50	12/11/20	B0L1113	8260	
96-18-4	1,2,3-Trichloropropane	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	390	ug/kg dry	50	12/11/20	B0L1113	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
106-93-4	1,2-Dibromoethane	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
95-50-1	1,2-Dichlorobenzene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
107-06-2	1,2-Dichloroethane	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
78-87-5	1,2-Dichloropropane	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
541-73-1	1,3-Dichlorobenzene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
106-46-7	1,4-Dichlorobenzene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
540-84-1	2,2,4-Trimethylpentane	ND	390	ug/kg dry	50	12/11/20	B0L1113	8260	
78-93-3	2-Butanone (MEK)	ND	390	ug/kg dry	50	12/11/20	B0L1113	8260	
91-57-6	2-Methylnaphthalene	ND	390	ug/kg dry	50	12/11/20	B0L1113	8260	X
67-64-1	2-Propanone (acetone)	ND	1600	ug/kg dry	50	12/11/20	B0L1113	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	390	ug/kg dry	50	12/11/20	B0L1113	8260	
107-13-1	Acrylonitrile	ND	390	ug/kg dry	50	12/11/20	B0L1113	8260	
71-43-2	Benzene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
74-97-5	Bromochloromethane	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
75-27-4	Bromodichloromethane	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
75-25-2	Bromoform	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
74-83-9	Bromomethane	ND	310	ug/kg dry	50	12/11/20	B0L1113	8260	A05
75-15-0	Carbon disulfide	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
56-23-5	Carbon tetrachloride	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
108-90-7	Chlorobenzene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
75-00-3	Chloroethane	ND	390	ug/kg dry	50	12/11/20	B0L1113	8260	
67-66-3	Chloroform	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
74-87-3	Chloromethane	ND	390	ug/kg dry	50	12/11/20	B0L1113	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
110-82-7	Cyclohexane	ND	390	ug/kg dry	50	12/11/20	B0L1113	8260	
124-48-1	Dibromochloromethane	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
74-95-3	Dibromomethane	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	



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ENVIRONMENTAL LABORATORY

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TEL: (517) 335-9800  
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Client ID: DUP-03

Lab ID: 2012085-10

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									<b>See note Y11</b>
75-71-8	Dichlorodifluoromethane	ND	390	ug/kg dry	50	12/11/20	B0L1113	8260	
60-29-7	Diethyl ether	ND	310	ug/kg dry	50	12/11/20	B0L1113	8260	
108-20-3	Diisopropyl Ether	ND	390	ug/kg dry	50	12/11/20	B0L1113	8260	
100-41-4	Ethylbenzene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
637-92-3	Ethyltertiarybutylether	ND	390	ug/kg dry	50	12/11/20	B0L1113	8260	
67-72-1	Hexachloroethane	ND	390	ug/kg dry	50	12/11/20	B0L1113	8260	
110-54-3	Hexane	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
98-82-8	Isopropylbenzene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
1330-20-7	m & p - Xylene	ND	160	ug/kg dry	50	12/11/20	B0L1113	8260	
75-09-2	Methylene chloride	ND	160	ug/kg dry	50	12/11/20	B0L1113	8260	
1634-04-4	Methyltertiarybutylether	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
91-20-3	<b>Naphthalene</b>	<b>440</b>	390	ug/kg dry	50	12/11/20	B0L1113	8260	X
104-51-8	n-Butylbenzene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
103-65-1	n-Propylbenzene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
95-47-6	o-Xylene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
135-98-8	sec-Butylbenzene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
100-42-5	Styrene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
98-06-6	tert-Butylbenzene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
75-65-0	tertiary Butyl Alcohol	ND	3900	ug/kg dry	50	12/11/20	B0L1113	8260	
994-05-8	tertiaryAmylmethylether	ND	390	ug/kg dry	50	12/11/20	B0L1113	8260	
127-18-4	<b>Tetrachloroethylene</b>	<b>85</b>	79	ug/kg dry	50	12/11/20	B0L1113	8260	
109-99-9	Tetrahydrofuran	ND	390	ug/kg dry	50	12/11/20	B0L1113	8260	
108-88-3	Toluene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
79-01-6	Trichloroethylene	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
75-69-4	Trichlorofluoromethane	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
75-01-4	Vinyl chloride	ND	79	ug/kg dry	50	12/11/20	B0L1113	8260	
Surrogate: Bromofluorobenzene			97.1 %	40.3-194		12/11/20	B0L1113	8260	
Surrogate: Dibromofluoromethane			99.7 %	52.1-217		12/11/20	B0L1113	8260	
Surrogate: Toluene-d8			102 %	55.4-196		12/11/20	B0L1113	8260	





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ENVIRONMENTAL LABORATORY

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Client ID: DUP-03

Lab ID: 2012085-10

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	29000	7900	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	820000	32000	ug/kg dry	1	12/15/20	B0L1101	8015	Y29
ORO	Oil Range Organics (C20-C34)	610000	130000	ug/kg dry	1	12/15/20	B0L1101	8015	Y30

**Organics-Semivolatiles**

See note Y17

91-57-6	2-Methylnaphthalene	ND	320	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	<b>Benzo[a]anthracene</b>	<b>510</b>	130	ug/kg dry	1	12/18/20	B0L1514	8270	A02
50-32-8	<b>Benzo[a]pyrene</b>	<b>600</b>	250	ug/kg dry	1	12/18/20	B0L1514	8270	A02
205-99-2	<b>Benzo[b]fluoranthene</b>	<b>910</b>	250	ug/kg dry	1	12/18/20	B0L1514	8270	A02
191-24-2	Benzo[g,h,i]perylene	ND	250	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	<b>Benzo[k]fluoranthene</b>	<b>300</b>	250	ug/kg dry	1	12/18/20	B0L1514	8270	A02
218-01-9	<b>Chrysene</b>	<b>550</b>	130	ug/kg dry	1	12/18/20	B0L1514	8270	A02
53-70-3	Dibenz[a,h]anthracene	ND	250	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	<b>Fluoranthene</b>	<b>1000</b>	130	ug/kg dry	1	12/18/20	B0L1514	8270	A02
86-73-7	Fluorene	ND	130	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	250	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	<b>Naphthalene</b>	<b>910</b>	130	ug/kg dry	1	12/18/20	B0L1514	8270	A02
85-01-8	<b>Phenanthrene</b>	<b>360</b>	130	ug/kg dry	1	12/18/20	B0L1514	8270	A02
129-00-0	<b>Pyrene</b>	<b>830</b>	130	ug/kg dry	1	12/18/20	B0L1514	8270	A02
Surrogate: 2-Fluorobiphenyl			82.2 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			126 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			89.3 %	36-142		12/18/20	B0L1514	8270	

**Client ID: DUP-03**

**Lab ID: 2012085-10**

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	78.5	0.1	%	1	12/15/20	B0L1011	2540 B	



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Client ID: GP-4 (12'-13')

Lab ID: 2012085-11

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
71-55-6	1,1,1-Trichloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
79-00-5	1,1,2-Trichloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-34-3	1,1-Dichloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-35-4	1,1-Dichloroethylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
96-18-4	1,2,3-Trichloropropane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
106-93-4	1,2-Dibromoethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
95-50-1	1,2-Dichlorobenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
107-06-2	1,2-Dichloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
78-87-5	1,2-Dichloropropane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
541-73-1	1,3-Dichlorobenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
106-46-7	1,4-Dichlorobenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
540-84-1	2,2,4-Trimethylpentane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
78-93-3	2-Butanone (MEK)	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
91-57-6	2-Methylnaphthalene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	X
67-64-1	2-Propanone (acetone)	ND	1300	ug/kg dry	50	12/11/20	B0L1113	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
107-13-1	Acrylonitrile	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
71-43-2	Benzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
74-97-5	Bromochloromethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-27-4	Bromodichloromethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-25-2	Bromoform	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
74-83-9	Bromomethane	ND	250	ug/kg dry	50	12/11/20	B0L1113	8260	A05
75-15-0	Carbon disulfide	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
56-23-5	Carbon tetrachloride	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
108-90-7	Chlorobenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-00-3	Chloroethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
67-66-3	Chloroform	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
74-87-3	Chloromethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
110-82-7	Cyclohexane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
124-48-1	Dibromochloromethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
74-95-3	Dibromomethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

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: GP-4 (12'-13')

Lab ID: 2012085-11

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
60-29-7	Diethyl ether	ND	250	ug/kg dry	50	12/11/20	B0L1113	8260	
108-20-3	Diisopropyl Ether	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
100-41-4	Ethylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
637-92-3	Ethyltertiarybutylether	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
67-72-1	Hexachloroethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
110-54-3	Hexane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
98-82-8	Isopropylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
1330-20-7	m & p - Xylene	ND	130	ug/kg dry	50	12/11/20	B0L1113	8260	
75-09-2	Methylene chloride	ND	130	ug/kg dry	50	12/11/20	B0L1113	8260	
1634-04-4	Methyltertiarybutylether	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
91-20-3	Naphthalene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	X
104-51-8	n-Butylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
103-65-1	n-Propylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
95-47-6	o-Xylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
135-98-8	sec-Butylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
100-42-5	Styrene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
98-06-6	tert-Butylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-65-0	tertiary Butyl Alcohol	ND	3200	ug/kg dry	50	12/11/20	B0L1113	8260	
994-05-8	tertiaryAmylmethylether	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
127-18-4	Tetrachloroethylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
109-99-9	Tetrahydrofuran	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
108-88-3	Toluene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
79-01-6	Trichloroethylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-69-4	Trichlorofluoromethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-01-4	Vinyl chloride	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
Surrogate: Bromofluorobenzene			101 %	40.3-194		12/11/20	B0L1113	8260	
Surrogate: Dibromofluoromethane			101 %	52.1-217		12/11/20	B0L1113	8260	
Surrogate: Toluene-d8			108 %	55.4-196		12/11/20	B0L1113	8260	



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ENVIRONMENTAL LABORATORY

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

Client ID: GP-4 (12'-13')

Lab ID: 2012085-11

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	ND	6400	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	54000	28000	ug/kg dry	1	12/15/20	B0L1101	8015	Y29
ORO	Oil Range Organics (C20-C34)	ND	110000	ug/kg dry	1	12/15/20	B0L1101	8015	

**Organics-Semivolatiles**

91-57-6	2-Methylnaphthalene	ND	280	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	Benz[a]anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
50-32-8	Benzo[a]pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
205-99-2	Benzo[b]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
191-24-2	Benzo[g,h,i]perylene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	Chrysene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
53-70-3	Dibenz[a,h]anthracene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	Fluoranthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
86-73-7	Fluorene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	Naphthalene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
85-01-8	Phenanthrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
129-00-0	Pyrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
Surrogate: 2-Fluorobiphenyl			84.7 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			74.6 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			85.8 %	36-142		12/18/20	B0L1514	8270	

Client ID: GP-4 (12'-13')

Lab ID: 2012085-11

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	88.4	0.1	%	1	12/15/20	B0L1011	2540 B	



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ENVIRONMENTAL LABORATORY

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

Client ID: GP-5 (4'-5')

Lab ID: 2012085-12

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
71-55-6	1,1,1-Trichloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
79-00-5	1,1,2-Trichloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
75-34-3	1,1-Dichloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
75-35-4	1,1-Dichloroethylene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	340	ug/kg dry	50	12/11/20	B0L1113	8260	
96-18-4	1,2,3-Trichloropropane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	340	ug/kg dry	50	12/11/20	B0L1113	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
106-93-4	1,2-Dibromoethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
95-50-1	1,2-Dichlorobenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
107-06-2	1,2-Dichloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
78-87-5	1,2-Dichloropropane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
541-73-1	1,3-Dichlorobenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
106-46-7	1,4-Dichlorobenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
540-84-1	2,2,4-Trimethylpentane	ND	340	ug/kg dry	50	12/11/20	B0L1113	8260	
78-93-3	2-Butanone (MEK)	ND	340	ug/kg dry	50	12/11/20	B0L1113	8260	
91-57-6	2-Methylnaphthalene	ND	340	ug/kg dry	50	12/11/20	B0L1113	8260	X
67-64-1	2-Propanone (acetone)	ND	1400	ug/kg dry	50	12/11/20	B0L1113	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	340	ug/kg dry	50	12/11/20	B0L1113	8260	
107-13-1	Acrylonitrile	ND	340	ug/kg dry	50	12/11/20	B0L1113	8260	
71-43-2	Benzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
74-97-5	Bromochloromethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
75-27-4	Bromodichloromethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
75-25-2	Bromoform	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
74-83-9	Bromomethane	ND	270	ug/kg dry	50	12/11/20	B0L1113	8260	A05
75-15-0	Carbon disulfide	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
56-23-5	Carbon tetrachloride	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
108-90-7	Chlorobenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
75-00-3	Chloroethane	ND	340	ug/kg dry	50	12/11/20	B0L1113	8260	
67-66-3	Chloroform	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
74-87-3	Chloromethane	ND	340	ug/kg dry	50	12/11/20	B0L1113	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
110-82-7	Cyclohexane	ND	340	ug/kg dry	50	12/11/20	B0L1113	8260	
124-48-1	Dibromochloromethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
74-95-3	Dibromomethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	



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ENVIRONMENT, GREAT LAKES, AND ENERGY

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ENVIRONMENTAL LABORATORY

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

Client ID: GP-5 (4'-5')

Lab ID: 2012085-12

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	340	ug/kg dry	50	12/11/20	B0L1113	8260	
60-29-7	Diethyl ether	ND	270	ug/kg dry	50	12/11/20	B0L1113	8260	
108-20-3	Diisopropyl Ether	ND	340	ug/kg dry	50	12/11/20	B0L1113	8260	
100-41-4	Ethylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
637-92-3	Ethyltertiarybutylether	ND	340	ug/kg dry	50	12/11/20	B0L1113	8260	
67-72-1	Hexachloroethane	ND	340	ug/kg dry	50	12/11/20	B0L1113	8260	
110-54-3	Hexane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
98-82-8	Isopropylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
1330-20-7	m & p - Xylene	ND	140	ug/kg dry	50	12/11/20	B0L1113	8260	
75-09-2	Methylene chloride	ND	140	ug/kg dry	50	12/11/20	B0L1113	8260	
1634-04-4	Methyltertiarybutylether	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
91-20-3	Naphthalene	ND	340	ug/kg dry	50	12/11/20	B0L1113	8260	X
104-51-8	n-Butylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
103-65-1	n-Propylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
95-47-6	o-Xylene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
135-98-8	sec-Butylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
100-42-5	Styrene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
98-06-6	tert-Butylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
75-65-0	tertiary Butyl Alcohol	ND	3400	ug/kg dry	50	12/11/20	B0L1113	8260	
994-05-8	tertiaryAmylmethylether	ND	340	ug/kg dry	50	12/11/20	B0L1113	8260	
127-18-4	Tetrachloroethylene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
109-99-9	Tetrahydrofuran	ND	340	ug/kg dry	50	12/11/20	B0L1113	8260	
108-88-3	Toluene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
79-01-6	Trichloroethylene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
75-69-4	Trichlorofluoromethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
75-01-4	Vinyl chloride	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
Surrogate: Bromofluorobenzene			100 %	40.3-194		12/11/20	B0L1113	8260	
Surrogate: Dibromofluoromethane			102 %	52.1-217		12/11/20	B0L1113	8260	
Surrogate: Toluene-d8			108 %	55.4-196		12/11/20	B0L1113	8260	





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

Client ID: GP-5 (4'-5')

Lab ID: 2012085-12

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	ND	6900	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	30000	29000	ug/kg dry	1	12/15/20	B0L1101	8015	Y29
ORO	Oil Range Organics (C20-C34)	ND	120000	ug/kg dry	1	12/15/20	B0L1101	8015	

**Organics-Semivolatiles**

91-57-6	2-Methylnaphthalene	ND	290	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	Benzo[a]anthracene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
50-32-8	Benzo[a]pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
205-99-2	Benzo[b]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
191-24-2	Benzo[g,h,i]perylene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	Chrysene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
53-70-3	Dibenz[a,h]anthracene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	Fluoranthene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
86-73-7	Fluorene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	Naphthalene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
85-01-8	Phenanthrene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
129-00-0	Pyrene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
Surrogate: 2-Fluorobiphenyl			83.2 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			73.1 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			84.2 %	36-142		12/18/20	B0L1514	8270	

Client ID: GP-5 (4'-5')

Lab ID: 2012085-12

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	86.2	0.1	%	1	12/15/20	B0L1011	2540 B	



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P.O. Box 30270  
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TEL: (517) 335-9800  
FAX: (517) 335-9600

Client ID: GP-5 (11'-12')

Lab ID: 2012085-13

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
71-55-6	1,1,1-Trichloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
79-00-5	1,1,2-Trichloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-34-3	1,1-Dichloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-35-4	1,1-Dichloroethylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
96-18-4	1,2,3-Trichloropropane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
106-93-4	1,2-Dibromoethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
95-50-1	1,2-Dichlorobenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
107-06-2	1,2-Dichloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
78-87-5	1,2-Dichloropropane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
541-73-1	1,3-Dichlorobenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
106-46-7	1,4-Dichlorobenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
540-84-1	2,2,4-Trimethylpentane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
78-93-3	2-Butanone (MEK)	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
91-57-6	2-Methylnaphthalene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	X
67-64-1	2-Propanone (acetone)	ND	1300	ug/kg dry	50	12/11/20	B0L1113	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
107-13-1	Acrylonitrile	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
71-43-2	Benzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
74-97-5	Bromochloromethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-27-4	Bromodichloromethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-25-2	Bromoform	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
74-83-9	Bromomethane	ND	260	ug/kg dry	50	12/11/20	B0L1113	8260	A05
75-15-0	Carbon disulfide	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
56-23-5	Carbon tetrachloride	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
108-90-7	Chlorobenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-00-3	Chloroethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
67-66-3	Chloroform	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
74-87-3	Chloromethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
110-82-7	Cyclohexane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
124-48-1	Dibromochloromethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
74-95-3	Dibromomethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	



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ENVIRONMENTAL LABORATORY

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

Client ID: GP-5 (11'-12')

Lab ID: 2012085-13

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
60-29-7	Diethyl ether	ND	260	ug/kg dry	50	12/11/20	B0L1113	8260	
108-20-3	Diisopropyl Ether	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
100-41-4	Ethylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
637-92-3	Ethyltertiarybutylether	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
67-72-1	Hexachloroethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
110-54-3	Hexane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
98-82-8	Isopropylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
1330-20-7	m & p - Xylene	ND	130	ug/kg dry	50	12/11/20	B0L1113	8260	
75-09-2	Methylene chloride	ND	130	ug/kg dry	50	12/11/20	B0L1113	8260	
1634-04-4	Methyltertiarybutylether	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
91-20-3	Naphthalene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	X
104-51-8	n-Butylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
103-65-1	n-Propylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
95-47-6	o-Xylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
135-98-8	sec-Butylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
100-42-5	Styrene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
98-06-6	tert-Butylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-65-0	tertiary Butyl Alcohol	ND	3200	ug/kg dry	50	12/11/20	B0L1113	8260	
994-05-8	tertiaryAmylmethylether	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
127-18-4	Tetrachloroethylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
109-99-9	Tetrahydrofuran	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
108-88-3	Toluene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
79-01-6	Trichloroethylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-69-4	Trichlorofluoromethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-01-4	Vinyl chloride	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
Surrogate: Bromofluorobenzene			106 %	40.3-194		12/11/20	B0L1113	8260	
Surrogate: Dibromofluoromethane			105 %	52.1-217		12/11/20	B0L1113	8260	
Surrogate: Toluene-d8			112 %	55.4-196		12/11/20	B0L1113	8260	



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Client ID: GP-5 (11'-12')

Lab ID: 2012085-13

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	ND	6400	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	56000	28000	ug/kg dry	1	12/14/20	B0L1101	8015	Y29
ORO	Oil Range Organics (C20-C34)	ND	110000	ug/kg dry	1	12/14/20	B0L1101	8015	

**Organics-Semivolatiles**

91-57-6	2-Methylnaphthalene	ND	280	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	Benz[a]anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
50-32-8	Benzo[a]pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
205-99-2	Benzo[b]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
191-24-2	Benzo[g,h,i]perylene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	Chrysene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
53-70-3	Dibenz[a,h]anthracene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	Fluoranthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
86-73-7	Fluorene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	Naphthalene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
85-01-8	Phenanthrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
129-00-0	Pyrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
Surrogate: 2-Fluorobiphenyl			81.4 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			72.5 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			82.0 %	36-142		12/18/20	B0L1514	8270	



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CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Inorganics-General Chemistry**

TS	% Total Solids	88.5	0.1	%	1	12/15/20	B0L1011	2540 B	
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Client ID: GP-6 (2'-3')

Lab ID: 2012085-14

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
71-55-6	1,1,1-Trichloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
79-00-5	1,1,2-Trichloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
75-34-3	1,1-Dichloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
75-35-4	1,1-Dichloroethylene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
96-18-4	1,2,3-Trichloropropane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
106-93-4	1,2-Dibromoethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
95-50-1	1,2-Dichlorobenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
107-06-2	1,2-Dichloroethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
78-87-5	1,2-Dichloropropane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
541-73-1	1,3-Dichlorobenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
106-46-7	1,4-Dichlorobenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
540-84-1	2,2,4-Trimethylpentane	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
78-93-3	2-Butanone (MEK)	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
91-57-6	2-Methylnaphthalene	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	X
67-64-1	2-Propanone (acetone)	ND	1400	ug/kg dry	50	12/11/20	B0L1113	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
107-13-1	Acrylonitrile	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
71-43-2	Benzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
74-97-5	Bromochloromethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
75-27-4	Bromodichloromethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
75-25-2	Bromoform	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
74-83-9	Bromomethane	ND	280	ug/kg dry	50	12/11/20	B0L1113	8260	A05
75-15-0	Carbon disulfide	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
56-23-5	Carbon tetrachloride	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
108-90-7	Chlorobenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
75-00-3	Chloroethane	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
67-66-3	Chloroform	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
74-87-3	Chloromethane	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
110-82-7	Cyclohexane	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
124-48-1	Dibromochloromethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
74-95-3	Dibromomethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	



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Client ID: GP-6 (2'-3')

Lab ID: 2012085-14

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
60-29-7	Diethyl ether	ND	280	ug/kg dry	50	12/11/20	B0L1113	8260	
108-20-3	Diisopropyl Ether	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
100-41-4	Ethylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
637-92-3	Ethyltertiarybutylether	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
67-72-1	Hexachloroethane	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
110-54-3	Hexane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
98-82-8	Isopropylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
1330-20-7	m & p - Xylene	ND	140	ug/kg dry	50	12/11/20	B0L1113	8260	
75-09-2	Methylene chloride	ND	140	ug/kg dry	50	12/11/20	B0L1113	8260	
1634-04-4	Methyltertiarybutylether	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
91-20-3	Naphthalene	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	X
104-51-8	n-Butylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
103-65-1	n-Propylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
95-47-6	o-Xylene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
135-98-8	sec-Butylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
100-42-5	Styrene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
98-06-6	tert-Butylbenzene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
75-65-0	tertiary Butyl Alcohol	ND	3500	ug/kg dry	50	12/11/20	B0L1113	8260	
994-05-8	tertiaryAmylmethylether	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
127-18-4	Tetrachloroethylene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
109-99-9	Tetrahydrofuran	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
108-88-3	Toluene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
79-01-6	Trichloroethylene	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
75-69-4	Trichlorofluoromethane	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
75-01-4	Vinyl chloride	ND	69	ug/kg dry	50	12/11/20	B0L1113	8260	
Surrogate: Bromofluorobenzene			107 %	40.3-194		12/11/20	B0L1113	8260	
Surrogate: Dibromofluoromethane			105 %	52.1-217		12/11/20	B0L1113	8260	
Surrogate: Toluene-d8			112 %	55.4-196		12/11/20	B0L1113	8260	





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Client ID: GP-6 (2'-3')

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CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	ND	6900	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	ND	29000	ug/kg dry	1	12/14/20	B0L1101	8015	
ORO	Oil Range Organics (C20-C34)	ND	120000	ug/kg dry	1	12/14/20	B0L1101	8015	

**Organics-Semivolatiles**

91-57-6	2-Methylnaphthalene	ND	290	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	Benz[a]anthracene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
50-32-8	Benzo[a]pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
205-99-2	Benzo[b]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
191-24-2	Benzo[g,h,i]perylene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	Chrysene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
53-70-3	Dibenz[a,h]anthracene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	Fluoranthene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
86-73-7	Fluorene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	Naphthalene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
85-01-8	Phenanthrene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
129-00-0	Pyrene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
Surrogate: 2-Fluorobiphenyl			89.8 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			80.0 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			88.9 %	36-142		12/18/20	B0L1514	8270	

Client ID: GP-6 (2'-3')  
Lab ID: 2012085-14

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	85.9	0.1	%	1	12/15/20	B0L1011	2540 B	



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ENVIRONMENTAL LABORATORY

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

Client ID: GP-6 (12'-13')

Lab ID: 2012085-15

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
71-55-6	1,1,1-Trichloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
79-00-5	1,1,2-Trichloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
75-34-3	1,1-Dichloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
75-35-4	1,1-Dichloroethylene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
96-18-4	1,2,3-Trichloropropane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
106-93-4	1,2-Dibromoethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
95-50-1	1,2-Dichlorobenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
107-06-2	1,2-Dichloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
78-87-5	1,2-Dichloropropane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
541-73-1	1,3-Dichlorobenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
106-46-7	1,4-Dichlorobenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
540-84-1	2,2,4-Trimethylpentane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
78-93-3	2-Butanone (MEK)	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
91-57-6	2-Methylnaphthalene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	X
67-64-1	2-Propanone (acetone)	ND	1300	ug/kg dry	50	12/11/20	B0L1113	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
107-13-1	Acrylonitrile	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
71-43-2	Benzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
74-97-5	Bromochloromethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
75-27-4	Bromodichloromethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
75-25-2	Bromoform	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
74-83-9	Bromomethane	ND	260	ug/kg dry	50	12/11/20	B0L1113	8260	A05
75-15-0	Carbon disulfide	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
56-23-5	Carbon tetrachloride	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
108-90-7	Chlorobenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
75-00-3	Chloroethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
67-66-3	Chloroform	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
74-87-3	Chloromethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
110-82-7	Cyclohexane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
124-48-1	Dibromochloromethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
74-95-3	Dibromomethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	



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ENVIRONMENTAL LABORATORY

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

Client ID: GP-6 (12'-13')

Lab ID: 2012085-15

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
60-29-7	Diethyl ether	ND	260	ug/kg dry	50	12/11/20	B0L1113	8260	
108-20-3	Diisopropyl Ether	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
100-41-4	Ethylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
637-92-3	Ethyltertiarybutylether	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
67-72-1	Hexachloroethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
110-54-3	Hexane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
98-82-8	Isopropylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
1330-20-7	m & p - Xylene	ND	130	ug/kg dry	50	12/11/20	B0L1113	8260	
75-09-2	Methylene chloride	ND	130	ug/kg dry	50	12/11/20	B0L1113	8260	
1634-04-4	Methyltertiarybutylether	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
91-20-3	Naphthalene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	X
104-51-8	n-Butylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
103-65-1	n-Propylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
95-47-6	o-Xylene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
135-98-8	sec-Butylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
100-42-5	Styrene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
98-06-6	tert-Butylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
75-65-0	tertiary Butyl Alcohol	ND	3200	ug/kg dry	50	12/11/20	B0L1113	8260	
994-05-8	tertiaryAmylmethylether	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
127-18-4	Tetrachloroethylene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
109-99-9	Tetrahydrofuran	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
108-88-3	Toluene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
79-01-6	Trichloroethylene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
75-69-4	Trichlorofluoromethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
75-01-4	Vinyl chloride	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
Surrogate: Bromofluorobenzene			101 %	40.3-194		12/11/20	B0L1113	8260	
Surrogate: Dibromofluoromethane			97.7 %	52.1-217		12/11/20	B0L1113	8260	
Surrogate: Toluene-d8			107 %	55.4-196		12/11/20	B0L1113	8260	



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ENVIRONMENTAL LABORATORY

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

Client ID: GP-6 (12'-13')

Lab ID: 2012085-15

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	ND	6500	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	57000	28000	ug/kg dry	1	12/14/20	B0L1101	8015	Y29
ORO	Oil Range Organics (C20-C34)	ND	110000	ug/kg dry	1	12/14/20	B0L1101	8015	

**Organics-Semivolatiles**

91-57-6	2-Methylnaphthalene	ND	280	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	Benz[a]anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
50-32-8	Benzo[a]pyrene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
205-99-2	Benzo[b]fluoranthene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
191-24-2	Benzo[g,h,i]perylene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	Chrysene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
53-70-3	Dibenz[a,h]anthracene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	Fluoranthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
86-73-7	Fluorene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	Naphthalene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
85-01-8	Phenanthrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
129-00-0	Pyrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
Surrogate: 2-Fluorobiphenyl			89.1 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			78.1 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			89.0 %	36-142		12/18/20	B0L1514	8270	

Client ID: GP-6 (12'-13')

Lab ID: 2012085-15

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	89.7	0.1	%	1	12/15/20	B0L1011	2540 B	



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P.O. Box 30270  
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Client ID: GP-7 (7'-8')

Lab ID: 2012085-16

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
71-55-6	1,1,1-Trichloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
79-00-5	1,1,2-Trichloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-34-3	1,1-Dichloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-35-4	1,1-Dichloroethylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
96-18-4	1,2,3-Trichloropropane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
106-93-4	1,2-Dibromoethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
95-50-1	1,2-Dichlorobenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
107-06-2	1,2-Dichloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
78-87-5	1,2-Dichloropropane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
541-73-1	1,3-Dichlorobenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
106-46-7	1,4-Dichlorobenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
540-84-1	2,2,4-Trimethylpentane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
78-93-3	2-Butanone (MEK)	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
91-57-6	2-Methylnaphthalene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	X
67-64-1	2-Propanone (acetone)	ND	1300	ug/kg dry	50	12/11/20	B0L1113	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
107-13-1	Acrylonitrile	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
71-43-2	Benzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
74-97-5	Bromochloromethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-27-4	Bromodichloromethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-25-2	Bromoform	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
74-83-9	Bromomethane	ND	250	ug/kg dry	50	12/11/20	B0L1113	8260	A05
75-15-0	Carbon disulfide	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
56-23-5	Carbon tetrachloride	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
108-90-7	Chlorobenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-00-3	Chloroethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
67-66-3	Chloroform	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
74-87-3	Chloromethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>120</b>	64	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
110-82-7	Cyclohexane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
124-48-1	Dibromochloromethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
74-95-3	Dibromomethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	



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ENVIRONMENTAL LABORATORY

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Lansing, MI 48909  
TEL: (517) 335-9800  
FAX: (517) 335-9600

Client ID: GP-7 (7'-8')

Lab ID: 2012085-16

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
60-29-7	Diethyl ether	ND	250	ug/kg dry	50	12/11/20	B0L1113	8260	
108-20-3	Diisopropyl Ether	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
100-41-4	Ethylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
637-92-3	Ethyltertiarybutylether	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
67-72-1	Hexachloroethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
110-54-3	Hexane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
98-82-8	Isopropylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
1330-20-7	m & p - Xylene	ND	130	ug/kg dry	50	12/11/20	B0L1113	8260	
75-09-2	Methylene chloride	ND	130	ug/kg dry	50	12/11/20	B0L1113	8260	
1634-04-4	Methyltertiarybutylether	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
91-20-3	Naphthalene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	X
104-51-8	n-Butylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
103-65-1	n-Propylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
95-47-6	o-Xylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
135-98-8	sec-Butylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
100-42-5	Styrene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
98-06-6	tert-Butylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-65-0	tertiary Butyl Alcohol	ND	3200	ug/kg dry	50	12/11/20	B0L1113	8260	
994-05-8	tertiaryAmylmethylether	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
127-18-4	<b>Tetrachloroethylene</b>	<b>59000</b>	1000	ug/kg dry	800	12/14/20	B0L1113	8260	
109-99-9	Tetrahydrofuran	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
108-88-3	Toluene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
79-01-6	<b>Trichloroethylene</b>	<b>280</b>	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-69-4	Trichlorofluoromethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-01-4	Vinyl chloride	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
Surrogate: Bromofluorobenzene			96.8 %	40.3-194		12/11/20	B0L1113	8260	
Surrogate: Dibromofluoromethane			96.0 %	52.1-217		12/11/20	B0L1113	8260	
Surrogate: Toluene-d8			102 %	55.4-196		12/11/20	B0L1113	8260	





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ENVIRONMENTAL LABORATORY

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

Client ID: GP-7 (7'-8')

Lab ID: 2012085-16

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

See note 100

GRO	Gas Range Organics(C6-C10)	92000	6400	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	34000	28000	ug/kg dry	1	12/14/20	B0L1101	8015	Y29
ORO	Oil Range Organics (C20-C34)	ND	110000	ug/kg dry	1	12/14/20	B0L1101	8015	

**Organics-Semivolatiles**

91-57-6	2-Methylnaphthalene	ND	280	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	Benz[a]anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
50-32-8	Benzo[a]pyrene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
205-99-2	Benzo[b]fluoranthene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
191-24-2	Benzo[g,h,i]perylene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	Chrysene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
53-70-3	Dibenz[a,h]anthracene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	Fluoranthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
86-73-7	Fluorene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	Naphthalene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
85-01-8	Phenanthrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
129-00-0	Pyrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
Surrogate: 2-Fluorobiphenyl			82.3 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			77.8 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			90.1 %	36-142		12/18/20	B0L1514	8270	

Client ID: GP-7 (7'-8')

Lab ID: 2012085-16

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	89.6	0.1	%	1	12/15/20	B0L1011	2540 B	



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ENVIRONMENTAL LABORATORY

P.O. Box 30270  
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TEL: (517) 335-9800  
FAX: (517) 335-9600

Client ID: GP-7 (13'-14')

Lab ID: 2012085-17

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
71-55-6	1,1,1-Trichloroethane	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
79-00-5	1,1,2-Trichloroethane	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
75-34-3	1,1-Dichloroethane	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
75-35-4	1,1-Dichloroethylene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
96-18-4	1,2,3-Trichloropropane	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
106-93-4	1,2-Dibromoethane	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
95-50-1	1,2-Dichlorobenzene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
107-06-2	1,2-Dichloroethane	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
78-87-5	1,2-Dichloropropane	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
541-73-1	1,3-Dichlorobenzene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
106-46-7	1,4-Dichlorobenzene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
540-84-1	2,2,4-Trimethylpentane	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
78-93-3	2-Butanone (MEK)	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
91-57-6	2-Methylnaphthalene	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	X
67-64-1	2-Propanone (acetone)	ND	1300	ug/kg dry	50	12/14/20	B0L1420	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
107-13-1	Acrylonitrile	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
71-43-2	Benzene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
74-97-5	Bromochloromethane	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
75-27-4	Bromodichloromethane	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
75-25-2	Bromoform	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
74-83-9	Bromomethane	ND	260	ug/kg dry	50	12/14/20	B0L1420	8260	
75-15-0	Carbon disulfide	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
56-23-5	Carbon tetrachloride	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
108-90-7	Chlorobenzene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
75-00-3	Chloroethane	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
67-66-3	Chloroform	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
74-87-3	Chloromethane	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
110-82-7	Cyclohexane	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
124-48-1	Dibromochloromethane	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
74-95-3	Dibromomethane	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	



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P.O. Box 30270  
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TEL: (517) 335-9800  
FAX: (517) 335-9600

Client ID: GP-7 (13'-14')

Lab ID: 2012085-17

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
60-29-7	Diethyl ether	ND	260	ug/kg dry	50	12/14/20	B0L1420	8260	
108-20-3	Diisopropyl Ether	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
100-41-4	Ethylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
637-92-3	Ethyltertiarybutylether	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
67-72-1	Hexachloroethane	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	A05
110-54-3	Hexane	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
98-82-8	Isopropylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
1330-20-7	m & p - Xylene	ND	130	ug/kg dry	50	12/14/20	B0L1420	8260	
75-09-2	Methylene chloride	ND	130	ug/kg dry	50	12/14/20	B0L1420	8260	
1634-04-4	Methyltertiarybutylether	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
91-20-3	Naphthalene	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	X
104-51-8	n-Butylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
103-65-1	n-Propylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
95-47-6	o-Xylene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
135-98-8	sec-Butylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
100-42-5	Styrene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
98-06-6	tert-Butylbenzene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
75-65-0	tertiary Butyl Alcohol	ND	3200	ug/kg dry	50	12/14/20	B0L1420	8260	
994-05-8	tertiaryAmylmethylether	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
127-18-4	Tetrachloroethylene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
109-99-9	Tetrahydrofuran	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
108-88-3	Toluene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
79-01-6	Trichloroethylene	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
75-69-4	Trichlorofluoromethane	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
75-01-4	Vinyl chloride	ND	64	ug/kg dry	50	12/14/20	B0L1420	8260	
Surrogate: Bromofluorobenzene			103 %	40.3-194		12/14/20	B0L1420	8260	
Surrogate: Dibromofluoromethane			104 %	52.1-217		12/14/20	B0L1420	8260	
Surrogate: Toluene-d8			109 %	55.4-196		12/14/20	B0L1420	8260	



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ENVIRONMENTAL LABORATORY

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FAX: (517) 335-9600

Client ID: GP-7 (13'-14')

Lab ID: 2012085-17

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	ND	6400	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	54000	28000	ug/kg dry	1	12/14/20	B0L1101	8015	Y29
ORO	Oil Range Organics (C20-C34)	ND	110000	ug/kg dry	1	12/14/20	B0L1101	8015	

**Organics-Semivolatiles**

91-57-6	2-Methylnaphthalene	ND	280	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	Benz[a]anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
50-32-8	Benzo[a]pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
205-99-2	Benzo[b]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
191-24-2	Benzo[g,h,i]perylene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	Chrysene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
53-70-3	Dibenz[a,h]anthracene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	Fluoranthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
86-73-7	Fluorene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	Naphthalene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
85-01-8	Phenanthrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
129-00-0	Pyrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
Surrogate: 2-Fluorobiphenyl			84.6 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			82.3 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			90.7 %	36-142		12/18/20	B0L1514	8270	



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Client ID: GP-7 (13'-14')

Lab ID: 2012085-17

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Inorganics-General Chemistry**

TS	% Total Solids	88.5	0.1	%	1	12/15/20	B0L1011	2540 B	
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TEL: (517) 335-9800  
FAX: (517) 335-9600

Client ID: GP-8 (6'-7')

Lab ID: 2012085-18

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
71-55-6	1,1,1-Trichloroethane	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
79-00-5	1,1,2-Trichloroethane	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
75-34-3	1,1-Dichloroethane	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
75-35-4	1,1-Dichloroethylene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
96-18-4	1,2,3-Trichloropropane	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
106-93-4	1,2-Dibromoethane	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
95-50-1	1,2-Dichlorobenzene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
107-06-2	1,2-Dichloroethane	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
78-87-5	1,2-Dichloropropane	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
541-73-1	1,3-Dichlorobenzene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
106-46-7	1,4-Dichlorobenzene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
540-84-1	2,2,4-Trimethylpentane	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
78-93-3	2-Butanone (MEK)	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
91-57-6	2-Methylnaphthalene	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	X
67-64-1	2-Propanone (acetone)	ND	1400	ug/kg dry	50	12/11/20	B0L1113	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
107-13-1	Acrylonitrile	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
71-43-2	Benzene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
74-97-5	Bromochloromethane	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
75-27-4	Bromodichloromethane	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
75-25-2	Bromoform	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
74-83-9	Bromomethane	ND	280	ug/kg dry	50	12/11/20	B0L1113	8260	A05
75-15-0	Carbon disulfide	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
56-23-5	Carbon tetrachloride	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
108-90-7	Chlorobenzene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
75-00-3	Chloroethane	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
67-66-3	Chloroform	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
74-87-3	Chloromethane	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>94</b>	71	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
110-82-7	Cyclohexane	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
124-48-1	Dibromochloromethane	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
74-95-3	Dibromomethane	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	



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ENVIRONMENTAL LABORATORY

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

Client ID: GP-8 (6'-7')

Lab ID: 2012085-18

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
60-29-7	Diethyl ether	ND	280	ug/kg dry	50	12/11/20	B0L1113	8260	
108-20-3	Diisopropyl Ether	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
100-41-4	Ethylbenzene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
637-92-3	Ethyltertiarybutylether	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
67-72-1	Hexachloroethane	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
110-54-3	Hexane	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
98-82-8	Isopropylbenzene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
1330-20-7	m & p - Xylene	ND	140	ug/kg dry	50	12/11/20	B0L1113	8260	
75-09-2	Methylene chloride	ND	140	ug/kg dry	50	12/11/20	B0L1113	8260	
1634-04-4	Methyltertiarybutylether	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
91-20-3	Naphthalene	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	X
104-51-8	n-Butylbenzene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
103-65-1	n-Propylbenzene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
95-47-6	o-Xylene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
135-98-8	sec-Butylbenzene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
100-42-5	Styrene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
98-06-6	tert-Butylbenzene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
75-65-0	tertiary Butyl Alcohol	ND	3500	ug/kg dry	50	12/11/20	B0L1113	8260	
994-05-8	tertiaryAmylmethylether	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
127-18-4	<b>Tetrachloroethylene</b>	<b>31000</b>	560	ug/kg dry	400	12/14/20	B0L1113	8260	
109-99-9	Tetrahydrofuran	ND	350	ug/kg dry	50	12/11/20	B0L1113	8260	
108-88-3	Toluene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
79-01-6	<b>Trichloroethylene</b>	<b>130</b>	71	ug/kg dry	50	12/11/20	B0L1113	8260	
75-69-4	Trichlorofluoromethane	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
75-01-4	Vinyl chloride	ND	71	ug/kg dry	50	12/11/20	B0L1113	8260	
Surrogate: Bromofluorobenzene			101 %	40.3-194		12/11/20	B0L1113	8260	
Surrogate: Dibromofluoromethane			101 %	52.1-217		12/11/20	B0L1113	8260	
Surrogate: Toluene-d8			106 %	55.4-196		12/11/20	B0L1113	8260	





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Client ID: GP-8 (6'-7')

Lab ID: 2012085-18

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

See note 100

GRO	Gas Range Organics(C6-C10)	55000	7100	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	42000	29000	ug/kg dry	1	12/14/20	B0L1101	8015	Y29
ORO	Oil Range Organics (C20-C34)	ND	120000	ug/kg dry	1	12/14/20	B0L1101	8015	

**Organics-Semivolatiles**

91-57-6	2-Methylnaphthalene	ND	290	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	Benz[a]anthracene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
50-32-8	Benzo[a]pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
205-99-2	Benzo[b]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
191-24-2	Benzo[g,h,i]perylene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	Chrysene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
53-70-3	Dibenz[a,h]anthracene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	Fluoranthene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
86-73-7	Fluorene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	230	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	Naphthalene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
85-01-8	Phenanthrene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
129-00-0	Pyrene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
Surrogate: 2-Fluorobiphenyl			79.5 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			75.7 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			86.8 %	36-142		12/18/20	B0L1514	8270	



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CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Inorganics-General Chemistry**

TS	% Total Solids	85.5	0.1	%	1	12/15/20	B0L1011	2540 B	
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Client ID: GP-8 (12'-13')

Lab ID: 2012085-19

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
71-55-6	1,1,1-Trichloroethane	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
79-00-5	1,1,2-Trichloroethane	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
75-34-3	1,1-Dichloroethane	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
75-35-4	1,1-Dichloroethylene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
96-18-4	1,2,3-Trichloropropane	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
106-93-4	1,2-Dibromoethane	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
95-50-1	1,2-Dichlorobenzene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
107-06-2	1,2-Dichloroethane	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
78-87-5	1,2-Dichloropropane	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
541-73-1	1,3-Dichlorobenzene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
106-46-7	1,4-Dichlorobenzene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
540-84-1	2,2,4-Trimethylpentane	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
78-93-3	2-Butanone (MEK)	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
91-57-6	2-Methylnaphthalene	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	X
67-64-1	2-Propanone (acetone)	ND	1300	ug/kg dry	50	12/14/20	B0L1420	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
107-13-1	Acrylonitrile	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
71-43-2	Benzene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
74-97-5	Bromochloromethane	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
75-27-4	Bromodichloromethane	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
75-25-2	Bromoform	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
74-83-9	Bromomethane	ND	250	ug/kg dry	50	12/14/20	B0L1420	8260	
75-15-0	Carbon disulfide	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
56-23-5	Carbon tetrachloride	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
108-90-7	Chlorobenzene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
75-00-3	Chloroethane	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
67-66-3	Chloroform	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
74-87-3	Chloromethane	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
110-82-7	Cyclohexane	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
124-48-1	Dibromochloromethane	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
74-95-3	Dibromomethane	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	



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TEL: (517) 335-9800  
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Client ID: GP-8 (12'-13')

Lab ID: 2012085-19

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
60-29-7	Diethyl ether	ND	250	ug/kg dry	50	12/14/20	B0L1420	8260	
108-20-3	Diisopropyl Ether	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
100-41-4	Ethylbenzene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
637-92-3	Ethyltertiarybutylether	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
67-72-1	Hexachloroethane	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	A05
110-54-3	Hexane	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
98-82-8	Isopropylbenzene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
1330-20-7	m & p - Xylene	ND	130	ug/kg dry	50	12/14/20	B0L1420	8260	
75-09-2	Methylene chloride	ND	130	ug/kg dry	50	12/14/20	B0L1420	8260	
1634-04-4	Methyltertiarybutylether	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
91-20-3	Naphthalene	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	X
104-51-8	n-Butylbenzene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
103-65-1	n-Propylbenzene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
95-47-6	o-Xylene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
135-98-8	sec-Butylbenzene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
100-42-5	Styrene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
98-06-6	tert-Butylbenzene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
75-65-0	tertiary Butyl Alcohol	ND	3200	ug/kg dry	50	12/14/20	B0L1420	8260	
994-05-8	tertiaryAmylmethylether	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
127-18-4	Tetrachloroethylene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
109-99-9	Tetrahydrofuran	ND	320	ug/kg dry	50	12/14/20	B0L1420	8260	
108-88-3	Toluene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
79-01-6	Trichloroethylene	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
75-69-4	Trichlorofluoromethane	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
75-01-4	Vinyl chloride	ND	63	ug/kg dry	50	12/14/20	B0L1420	8260	
Surrogate: Bromofluorobenzene			97.5 %	40.3-194		12/14/20	B0L1420	8260	
Surrogate: Dibromofluoromethane			98.3 %	52.1-217		12/14/20	B0L1420	8260	
Surrogate: Toluene-d8			104 %	55.4-196		12/14/20	B0L1420	8260	



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TEL: (517) 335-9800  
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Client ID: GP-8 (12'-13')

Lab ID: 2012085-19

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-GRO</b>									
GRO	Gas Range Organics(C6-C10)	ND	6300	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
<b>Organics-DRO/ORO</b>									
DRO	Diesel Range Org(C10-C20)	59000	28000	ug/kg dry	1	12/15/20	B0L1101	8015	Y29
ORO	Oil Range Organics (C20-C34)	ND	110000	ug/kg dry	1	12/15/20	B0L1101	8015	
<b>Organics-Semivolatiles</b>									
91-57-6	2-Methylnaphthalene	ND	280	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	Benz[a]anthracene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
50-32-8	Benzo[a]pyrene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
205-99-2	Benzo[b]fluoranthene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
191-24-2	Benzo[g,h,i]perylene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	Chrysene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
53-70-3	Dibenz[a,h]anthracene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	Fluoranthene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
86-73-7	Fluorene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	220	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	Naphthalene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
85-01-8	Phenanthrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
129-00-0	Pyrene	ND	110	ug/kg dry	1	12/18/20	B0L1514	8270	
Surrogate: 2-Fluorobiphenyl			81.7 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			78.3 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			89.3 %	36-142		12/18/20	B0L1514	8270	



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ENVIRONMENT, GREAT LAKES, AND ENERGY

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: GP-8 (12'-13')

Lab ID: 2012085-19

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Inorganics-General Chemistry**

TS	% Total Solids	89.0	0.1	%	1	12/15/20	B0L1105	2540 B	
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P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-9800  
FAX: (517) 335-9600

Client ID: GP-9 (4'-5')

Lab ID: 2012085-20

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
71-55-6	1,1,1-Trichloroethane	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
79-00-5	1,1,2-Trichloroethane	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
75-34-3	1,1-Dichloroethane	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
75-35-4	1,1-Dichloroethylene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	360	ug/kg dry	50	12/11/20	B0L1113	8260	
96-18-4	1,2,3-Trichloropropane	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	360	ug/kg dry	50	12/11/20	B0L1113	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
106-93-4	1,2-Dibromoethane	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
95-50-1	1,2-Dichlorobenzene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
107-06-2	1,2-Dichloroethane	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
78-87-5	1,2-Dichloropropane	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
541-73-1	1,3-Dichlorobenzene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
106-46-7	1,4-Dichlorobenzene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
540-84-1	2,2,4-Trimethylpentane	ND	360	ug/kg dry	50	12/11/20	B0L1113	8260	
78-93-3	2-Butanone (MEK)	ND	360	ug/kg dry	50	12/11/20	B0L1113	8260	
91-57-6	2-Methylnaphthalene	ND	360	ug/kg dry	50	12/11/20	B0L1113	8260	X
67-64-1	2-Propanone (acetone)	ND	1400	ug/kg dry	50	12/11/20	B0L1113	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	360	ug/kg dry	50	12/11/20	B0L1113	8260	
107-13-1	Acrylonitrile	ND	360	ug/kg dry	50	12/11/20	B0L1113	8260	
71-43-2	Benzene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
74-97-5	Bromochloromethane	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
75-27-4	Bromodichloromethane	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
75-25-2	Bromoform	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
74-83-9	Bromomethane	ND	290	ug/kg dry	50	12/11/20	B0L1113	8260	A05
75-15-0	Carbon disulfide	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
56-23-5	Carbon tetrachloride	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
108-90-7	Chlorobenzene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
75-00-3	Chloroethane	ND	360	ug/kg dry	50	12/11/20	B0L1113	8260	
67-66-3	Chloroform	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
74-87-3	Chloromethane	ND	360	ug/kg dry	50	12/11/20	B0L1113	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
110-82-7	Cyclohexane	ND	360	ug/kg dry	50	12/11/20	B0L1113	8260	
124-48-1	Dibromochloromethane	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
74-95-3	Dibromomethane	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	



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

Client ID: GP-9 (4'-5')

Lab ID: 2012085-20

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	360	ug/kg dry	50	12/11/20	B0L1113	8260	
60-29-7	Diethyl ether	ND	290	ug/kg dry	50	12/11/20	B0L1113	8260	
108-20-3	Diisopropyl Ether	ND	360	ug/kg dry	50	12/11/20	B0L1113	8260	
100-41-4	Ethylbenzene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
637-92-3	Ethyltertiarybutylether	ND	360	ug/kg dry	50	12/11/20	B0L1113	8260	
67-72-1	Hexachloroethane	ND	360	ug/kg dry	50	12/11/20	B0L1113	8260	
110-54-3	Hexane	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
98-82-8	Isopropylbenzene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
1330-20-7	m & p - Xylene	ND	140	ug/kg dry	50	12/11/20	B0L1113	8260	
75-09-2	Methylene chloride	ND	140	ug/kg dry	50	12/11/20	B0L1113	8260	
1634-04-4	Methyltertiarybutylether	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
91-20-3	Naphthalene	ND	360	ug/kg dry	50	12/11/20	B0L1113	8260	X
104-51-8	n-Butylbenzene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
103-65-1	n-Propylbenzene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
95-47-6	o-Xylene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
135-98-8	sec-Butylbenzene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
100-42-5	Styrene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
98-06-6	tert-Butylbenzene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
75-65-0	tertiary Butyl Alcohol	ND	3600	ug/kg dry	50	12/11/20	B0L1113	8260	
994-05-8	tertiaryAmylmethylether	ND	360	ug/kg dry	50	12/11/20	B0L1113	8260	
127-18-4	Tetrachloroethylene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
109-99-9	Tetrahydrofuran	ND	360	ug/kg dry	50	12/11/20	B0L1113	8260	
108-88-3	Toluene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
79-01-6	Trichloroethylene	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
75-69-4	Trichlorofluoromethane	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
75-01-4	Vinyl chloride	ND	72	ug/kg dry	50	12/11/20	B0L1113	8260	
Surrogate: Bromofluorobenzene			106 %	40.3-194		12/11/20	B0L1113	8260	
Surrogate: Dibromofluoromethane			102 %	52.1-217		12/11/20	B0L1113	8260	
Surrogate: Toluene-d8			110 %	55.4-196		12/11/20	B0L1113	8260	





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TEL: (517) 335-9800  
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Client ID: GP-9 (4'-5')

Lab ID: 2012085-20

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	ND	7200	ug/kg dry	50	12/14/20	B0L1515	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	ND	30000	ug/kg dry	1	12/14/20	B0L1101	8015	
ORO	Oil Range Organics (C20-C34)	ND	120000	ug/kg dry	1	12/14/20	B0L1101	8015	

**Organics-Semivolatiles**

91-57-6	2-Methylnaphthalene	ND	300	ug/kg dry	1	12/18/20	B0L1514	8270	
83-32-9	Acenaphthene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
208-96-8	Acenaphthylene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
120-12-7	Anthracene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
56-55-3	Benz[a]anthracene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
50-32-8	Benzo[a]pyrene	ND	240	ug/kg dry	1	12/18/20	B0L1514	8270	
205-99-2	Benzo[b]fluoranthene	ND	240	ug/kg dry	1	12/18/20	B0L1514	8270	
191-24-2	Benzo[g,h,i]perylene	ND	240	ug/kg dry	1	12/18/20	B0L1514	8270	
207-08-9	Benzo[k]fluoranthene	ND	240	ug/kg dry	1	12/18/20	B0L1514	8270	
218-01-9	Chrysene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
53-70-3	Dibenz[a,h]anthracene	ND	240	ug/kg dry	1	12/18/20	B0L1514	8270	
206-44-0	Fluoranthene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
86-73-7	Fluorene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	240	ug/kg dry	1	12/18/20	B0L1514	8270	
91-20-3	Naphthalene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
85-01-8	Phenanthrene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
129-00-0	Pyrene	ND	120	ug/kg dry	1	12/18/20	B0L1514	8270	
Surrogate: 2-Fluorobiphenyl			78.4 %	36-133		12/18/20	B0L1514	8270	
Surrogate: Nitrobenzene-d5			68.9 %	26-123		12/18/20	B0L1514	8270	
Surrogate: p-Terphenyl-d14			83.3 %	36-142		12/18/20	B0L1514	8270	

Client ID: GP-9 (4'-5')

Lab ID: 2012085-20

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	82.7	0.1	%	1	12/15/20	B0L1105	2540 B	



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P.O. Box 30270  
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TEL: (517) 335-9800  
FAX: (517) 335-9600

Client ID: GP-9 (14'-15')

Lab ID: 2012085-21

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
71-55-6	1,1,1-Trichloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
79-00-5	1,1,2-Trichloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
75-34-3	1,1-Dichloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
75-35-4	1,1-Dichloroethylene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	330	ug/kg dry	50	12/11/20	B0L1113	8260	
96-18-4	1,2,3-Trichloropropane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	330	ug/kg dry	50	12/11/20	B0L1113	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
106-93-4	1,2-Dibromoethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
95-50-1	1,2-Dichlorobenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
107-06-2	1,2-Dichloroethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
78-87-5	1,2-Dichloropropane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
541-73-1	1,3-Dichlorobenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
106-46-7	1,4-Dichlorobenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
540-84-1	2,2,4-Trimethylpentane	ND	330	ug/kg dry	50	12/11/20	B0L1113	8260	
78-93-3	2-Butanone (MEK)	ND	330	ug/kg dry	50	12/11/20	B0L1113	8260	
91-57-6	2-Methylnaphthalene	ND	330	ug/kg dry	50	12/11/20	B0L1113	8260	X
67-64-1	2-Propanone (acetone)	ND	1300	ug/kg dry	50	12/11/20	B0L1113	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	330	ug/kg dry	50	12/11/20	B0L1113	8260	
107-13-1	Acrylonitrile	ND	330	ug/kg dry	50	12/11/20	B0L1113	8260	
71-43-2	Benzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
74-97-5	Bromochloromethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
75-27-4	Bromodichloromethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
75-25-2	Bromoform	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
74-83-9	Bromomethane	ND	260	ug/kg dry	50	12/11/20	B0L1113	8260	A05
75-15-0	Carbon disulfide	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
56-23-5	Carbon tetrachloride	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
108-90-7	Chlorobenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
75-00-3	Chloroethane	ND	330	ug/kg dry	50	12/11/20	B0L1113	8260	
67-66-3	Chloroform	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
74-87-3	Chloromethane	ND	330	ug/kg dry	50	12/11/20	B0L1113	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
110-82-7	Cyclohexane	ND	330	ug/kg dry	50	12/11/20	B0L1113	8260	
124-48-1	Dibromochloromethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
74-95-3	Dibromomethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	



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TEL: (517) 335-9800  
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Client ID: GP-9 (14'-15')

Lab ID: 2012085-21

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	330	ug/kg dry	50	12/11/20	B0L1113	8260	
60-29-7	Diethyl ether	ND	260	ug/kg dry	50	12/11/20	B0L1113	8260	
108-20-3	Diisopropyl Ether	ND	330	ug/kg dry	50	12/11/20	B0L1113	8260	
100-41-4	Ethylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
637-92-3	Ethyltertiarybutylether	ND	330	ug/kg dry	50	12/11/20	B0L1113	8260	
67-72-1	Hexachloroethane	ND	330	ug/kg dry	50	12/11/20	B0L1113	8260	
110-54-3	Hexane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
98-82-8	Isopropylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
1330-20-7	m & p - Xylene	ND	130	ug/kg dry	50	12/11/20	B0L1113	8260	
75-09-2	Methylene chloride	ND	130	ug/kg dry	50	12/11/20	B0L1113	8260	
1634-04-4	Methyltertiarybutylether	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
91-20-3	Naphthalene	ND	330	ug/kg dry	50	12/11/20	B0L1113	8260	X
104-51-8	n-Butylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
103-65-1	n-Propylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
95-47-6	o-Xylene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
135-98-8	sec-Butylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
100-42-5	Styrene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
98-06-6	tert-Butylbenzene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
75-65-0	tertiary Butyl Alcohol	ND	3300	ug/kg dry	50	12/11/20	B0L1113	8260	
994-05-8	tertiaryAmylmethylether	ND	330	ug/kg dry	50	12/11/20	B0L1113	8260	
127-18-4	Tetrachloroethylene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
109-99-9	Tetrahydrofuran	ND	330	ug/kg dry	50	12/11/20	B0L1113	8260	
108-88-3	Toluene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
79-01-6	Trichloroethylene	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
75-69-4	Trichlorofluoromethane	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
75-01-4	Vinyl chloride	ND	65	ug/kg dry	50	12/11/20	B0L1113	8260	
Surrogate: Bromofluorobenzene			105 %	40.3-194		12/11/20	B0L1113	8260	
Surrogate: Dibromofluoromethane			102 %	52.1-217		12/11/20	B0L1113	8260	
Surrogate: Toluene-d8			112 %	55.4-196		12/11/20	B0L1113	8260	



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ENVIRONMENTAL LABORATORY

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

Client ID: GP-9 (14'-15')

Lab ID: 2012085-21

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	ND	6500	ug/kg dry	50	12/17/20	B0L1807	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	62000	28000	ug/kg dry	1	12/17/20	B0L1609	8015	Y29
ORO	Oil Range Organics (C20-C34)	ND	110000	ug/kg dry	1	12/17/20	B0L1609	8015	

**Organics-Semivolatiles**

91-57-6	2-Methylnaphthalene	ND	280	ug/kg dry	1	12/21/20	B0L1608	8270	
83-32-9	Acenaphthene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
208-96-8	Acenaphthylene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
120-12-7	Anthracene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
56-55-3	Benz[a]anthracene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
50-32-8	Benzo[a]pyrene	ND	230	ug/kg dry	1	12/21/20	B0L1608	8270	
205-99-2	Benzo[b]fluoranthene	ND	230	ug/kg dry	1	12/21/20	B0L1608	8270	
191-24-2	Benzo[g,h,i]perylene	ND	230	ug/kg dry	1	12/21/20	B0L1608	8270	
207-08-9	Benzo[k]fluoranthene	ND	230	ug/kg dry	1	12/21/20	B0L1608	8270	
218-01-9	Chrysene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
53-70-3	Dibenz[a,h]anthracene	ND	230	ug/kg dry	1	12/21/20	B0L1608	8270	
206-44-0	Fluoranthene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
86-73-7	Fluorene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	230	ug/kg dry	1	12/21/20	B0L1608	8270	
91-20-3	Naphthalene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
85-01-8	Phenanthrene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
129-00-0	Pyrene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
Surrogate: 2-Fluorobiphenyl			79.7 %	36-133		12/21/20	B0L1608	8270	
Surrogate: Nitrobenzene-d5			74.9 %	26-123		12/21/20	B0L1608	8270	
Surrogate: p-Terphenyl-d14			86.4 %	36-142		12/21/20	B0L1608	8270	



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Client ID: GP-9 (14'-15')

Lab ID: 2012085-21

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Inorganics-General Chemistry**

TS	% Total Solids	88.7	0.1	%	1	12/15/20	B0L1105	2540 B	
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P.O. Box 30270  
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TEL: (517) 335-9800  
FAX: (517) 335-9600

Client ID: GP-10 (4'-5')

Lab ID: 2012085-22

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									<b>See note Y11, Y20</b>
630-20-6	1,1,1,2-Tetrachloroethane	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
71-55-6	1,1,1-Trichloroethane	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
79-00-5	1,1,2-Trichloroethane	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
75-34-3	1,1-Dichloroethane	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
75-35-4	1,1-Dichloroethylene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	3000	ug/kg dry	400	12/11/20	B0L1113	8260	
96-18-4	1,2,3-Trichloropropane	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	3000	ug/kg dry	400	12/11/20	B0L1113	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
106-93-4	1,2-Dibromoethane	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
95-50-1	1,2-Dichlorobenzene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
107-06-2	1,2-Dichloroethane	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
78-87-5	1,2-Dichloropropane	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
541-73-1	1,3-Dichlorobenzene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
106-46-7	1,4-Dichlorobenzene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
540-84-1	2,2,4-Trimethylpentane	ND	3000	ug/kg dry	400	12/11/20	B0L1113	8260	
78-93-3	2-Butanone (MEK)	ND	3000	ug/kg dry	400	12/11/20	B0L1113	8260	
91-57-6	2-Methylnaphthalene	ND	3000	ug/kg dry	400	12/11/20	B0L1113	8260	X
67-64-1	2-Propanone (acetone)	ND	12000	ug/kg dry	400	12/11/20	B0L1113	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	3000	ug/kg dry	400	12/11/20	B0L1113	8260	
107-13-1	Acrylonitrile	ND	3000	ug/kg dry	400	12/11/20	B0L1113	8260	
71-43-2	Benzene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
74-97-5	Bromochloromethane	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
75-27-4	Bromodichloromethane	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
75-25-2	Bromoform	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
74-83-9	Bromomethane	ND	2400	ug/kg dry	400	12/11/20	B0L1113	8260	A05
75-15-0	Carbon disulfide	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
56-23-5	Carbon tetrachloride	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
108-90-7	Chlorobenzene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
75-00-3	Chloroethane	ND	3000	ug/kg dry	400	12/11/20	B0L1113	8260	
67-66-3	Chloroform	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
74-87-3	Chloromethane	ND	3000	ug/kg dry	400	12/11/20	B0L1113	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
110-82-7	Cyclohexane	ND	3000	ug/kg dry	400	12/11/20	B0L1113	8260	
124-48-1	Dibromochloromethane	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
74-95-3	Dibromomethane	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	



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FAX: (517) 335-9600

Client ID: GP-10 (4'-5')

Lab ID: 2012085-22

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									<b>See note Y11, Y20</b>
75-71-8	Dichlorodifluoromethane	ND	3000	ug/kg dry	400	12/11/20	B0L1113	8260	
60-29-7	Diethyl ether	ND	2400	ug/kg dry	400	12/11/20	B0L1113	8260	
108-20-3	Diisopropyl Ether	ND	3000	ug/kg dry	400	12/11/20	B0L1113	8260	
100-41-4	Ethylbenzene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
637-92-3	Ethyltertiarybutylether	ND	3000	ug/kg dry	400	12/11/20	B0L1113	8260	
67-72-1	Hexachloroethane	ND	3000	ug/kg dry	400	12/11/20	B0L1113	8260	
110-54-3	Hexane	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
98-82-8	Isopropylbenzene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
1330-20-7	m & p - Xylene	ND	1200	ug/kg dry	400	12/11/20	B0L1113	8260	
75-09-2	Methylene chloride	ND	1200	ug/kg dry	400	12/11/20	B0L1113	8260	
1634-04-4	Methyltertiarybutylether	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
91-20-3	Naphthalene	ND	3000	ug/kg dry	400	12/11/20	B0L1113	8260	X
104-51-8	n-Butylbenzene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
103-65-1	n-Propylbenzene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
95-47-6	o-Xylene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
135-98-8	sec-Butylbenzene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
100-42-5	Styrene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
98-06-6	tert-Butylbenzene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
75-65-0	tertiary Butyl Alcohol	ND	30000	ug/kg dry	400	12/11/20	B0L1113	8260	
994-05-8	tertiaryAmylmethylether	ND	3000	ug/kg dry	400	12/11/20	B0L1113	8260	
127-18-4	<b>Tetrachloroethylene</b>	<b>840</b>	610	ug/kg dry	400	12/11/20	B0L1113	8260	
109-99-9	Tetrahydrofuran	ND	3000	ug/kg dry	400	12/11/20	B0L1113	8260	
108-88-3	Toluene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
79-01-6	Trichloroethylene	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
75-69-4	Trichlorofluoromethane	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
75-01-4	Vinyl chloride	ND	610	ug/kg dry	400	12/11/20	B0L1113	8260	
Surrogate: Bromofluorobenzene		Not Applicable		40.3-194		12/11/20	B0L1113	8260	V
Surrogate: Dibromofluoromethane		Not Applicable		52.1-217		12/11/20	B0L1113	8260	V
Surrogate: Toluene-d8		Not Applicable		55.4-196		12/11/20	B0L1113	8260	V





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ENVIRONMENTAL LABORATORY

P.O. Box 30270  
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TEL: (517) 335-9800  
FAX: (517) 335-9600

Client ID: GP-10 (4'-5')

Lab ID: 2012085-22

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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**Organics-GRO**

GRO	Gas Range Organics(C6-C10)	220000	7600	ug/kg dry	50	12/17/20	B0L1807	8260 Modified	
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**Organics-DRO/ORO**

DRO	Diesel Range Org(C10-C20)	3100000	61000	ug/kg dry	2	12/18/20	B0L1609	8015	Y29
ORO	Oil Range Organics (C20-C34)	300000	120000	ug/kg dry	1	12/17/20	B0L1609	8015	Y30

**Organics-Semivolatiles**

See note Y17

91-57-6	2-Methylnaphthalene	ND	310	ug/kg dry	1	12/21/20	B0L1608	8270	
83-32-9	Acenaphthene	ND	120	ug/kg dry	1	12/21/20	B0L1608	8270	
208-96-8	Acenaphthylene	ND	120	ug/kg dry	1	12/21/20	B0L1608	8270	
120-12-7	Anthracene	ND	120	ug/kg dry	1	12/21/20	B0L1608	8270	
56-55-3	Benz[a]anthracene	ND	120	ug/kg dry	1	12/21/20	B0L1608	8270	
50-32-8	Benzo[a]pyrene	ND	240	ug/kg dry	1	12/21/20	B0L1608	8270	
205-99-2	Benzo[b]fluoranthene	ND	240	ug/kg dry	1	12/21/20	B0L1608	8270	
191-24-2	Benzo[g,h,i]perylene	ND	240	ug/kg dry	1	12/21/20	B0L1608	8270	
207-08-9	Benzo[k]fluoranthene	ND	240	ug/kg dry	1	12/21/20	B0L1608	8270	
218-01-9	Chrysene	ND	120	ug/kg dry	1	12/21/20	B0L1608	8270	
53-70-3	Dibenz[a,h]anthracene	ND	240	ug/kg dry	1	12/21/20	B0L1608	8270	
206-44-0	Fluoranthene	ND	120	ug/kg dry	1	12/21/20	B0L1608	8270	
86-73-7	Fluorene	ND	120	ug/kg dry	1	12/21/20	B0L1608	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	240	ug/kg dry	1	12/21/20	B0L1608	8270	
91-20-3	Naphthalene	210	120	ug/kg dry	1	12/21/20	B0L1608	8270	A02
85-01-8	Phenanthrene	ND	120	ug/kg dry	1	12/21/20	B0L1608	8270	
129-00-0	Pyrene	ND	120	ug/kg dry	1	12/21/20	B0L1608	8270	
Surrogate: 2-Fluorobiphenyl			64.3 %	36-133		12/21/20	B0L1608	8270	
Surrogate: Nitrobenzene-d5			215 %	26-123		12/21/20	B0L1608	8270	
Surrogate: p-Terphenyl-d14			84.6 %	36-142		12/21/20	B0L1608	8270	

**Client ID: GP-10 (4'-5')**  
**Lab ID: 2012085-22**

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	81.9	0.1	%	1	12/15/20	B0L1105	2540 B	



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Client ID: GP-10 (14'-15')

Lab ID: 2012085-23

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
630-20-6	1,1,1,2-Tetrachloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
71-55-6	1,1,1-Trichloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
79-00-5	1,1,2-Trichloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-34-3	1,1-Dichloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-35-4	1,1-Dichloroethylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
96-18-4	1,2,3-Trichloropropane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
106-93-4	1,2-Dibromoethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
95-50-1	1,2-Dichlorobenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
107-06-2	1,2-Dichloroethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
78-87-5	1,2-Dichloropropane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
541-73-1	1,3-Dichlorobenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
106-46-7	1,4-Dichlorobenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
540-84-1	2,2,4-Trimethylpentane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
78-93-3	2-Butanone (MEK)	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
91-57-6	2-Methylnaphthalene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	X
67-64-1	2-Propanone (acetone)	ND	1300	ug/kg dry	50	12/11/20	B0L1113	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
107-13-1	Acrylonitrile	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
71-43-2	Benzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
74-97-5	Bromochloromethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-27-4	Bromodichloromethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-25-2	Bromoform	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
74-83-9	Bromomethane	ND	260	ug/kg dry	50	12/11/20	B0L1113	8260	A05
75-15-0	Carbon disulfide	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
56-23-5	Carbon tetrachloride	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
108-90-7	Chlorobenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-00-3	Chloroethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
67-66-3	Chloroform	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
74-87-3	Chloromethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
110-82-7	Cyclohexane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
124-48-1	Dibromochloromethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
74-95-3	Dibromomethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

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: GP-10 (14'-15')

Lab ID: 2012085-23

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Volatiles</b>									
75-71-8	Dichlorodifluoromethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
60-29-7	Diethyl ether	ND	260	ug/kg dry	50	12/11/20	B0L1113	8260	
108-20-3	Diisopropyl Ether	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
100-41-4	Ethylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
637-92-3	Ethyltertiarybutylether	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
67-72-1	Hexachloroethane	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
110-54-3	Hexane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
98-82-8	Isopropylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
1330-20-7	m & p - Xylene	ND	130	ug/kg dry	50	12/11/20	B0L1113	8260	
75-09-2	Methylene chloride	ND	130	ug/kg dry	50	12/11/20	B0L1113	8260	
1634-04-4	Methyltertiarybutylether	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
91-20-3	Naphthalene	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	X
104-51-8	n-Butylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
103-65-1	n-Propylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
95-47-6	o-Xylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
135-98-8	sec-Butylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
100-42-5	Styrene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
98-06-6	tert-Butylbenzene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-65-0	tertiary Butyl Alcohol	ND	3200	ug/kg dry	50	12/11/20	B0L1113	8260	
994-05-8	tertiaryAmylmethylether	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
127-18-4	Tetrachloroethylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
109-99-9	Tetrahydrofuran	ND	320	ug/kg dry	50	12/11/20	B0L1113	8260	
108-88-3	Toluene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
79-01-6	Trichloroethylene	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-69-4	Trichlorofluoromethane	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
75-01-4	Vinyl chloride	ND	64	ug/kg dry	50	12/11/20	B0L1113	8260	
Surrogate: Bromofluorobenzene			102 %	40.3-194		12/11/20	B0L1113	8260	
Surrogate: Dibromofluoromethane			98.5 %	52.1-217		12/11/20	B0L1113	8260	
Surrogate: Toluene-d8			109 %	55.4-196		12/11/20	B0L1113	8260	



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

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ENVIRONMENTAL LABORATORY

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

Client ID: GP-10 (14'-15')

Lab ID: 2012085-23

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-GRO</b>									
GRO	Gas Range Organics(C6-C10)	ND	6400	ug/kg dry	50	12/17/20	B0L1807	8260 Modified	
<b>Organics-DRO/ORO</b>									
DRO	<b>Diesel Range Org(C10-C20)</b>	<b>57000</b>	28000	ug/kg dry	1	12/17/20	B0L1609	8015	Y29
ORO	Oil Range Organics (C20-C34)	ND	110000	ug/kg dry	1	12/17/20	B0L1609	8015	
<b>Organics-Semivolatiles</b>									
91-57-6	2-Methylnaphthalene	ND	280	ug/kg dry	1	12/21/20	B0L1608	8270	
83-32-9	Acenaphthene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
208-96-8	Acenaphthylene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
120-12-7	Anthracene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
56-55-3	Benz[a]anthracene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
50-32-8	Benzo[a]pyrene	ND	230	ug/kg dry	1	12/21/20	B0L1608	8270	
205-99-2	Benzo[b]fluoranthene	ND	230	ug/kg dry	1	12/21/20	B0L1608	8270	
191-24-2	Benzo[g,h,i]perylene	ND	230	ug/kg dry	1	12/21/20	B0L1608	8270	
207-08-9	Benzo[k]fluoranthene	ND	230	ug/kg dry	1	12/21/20	B0L1608	8270	
218-01-9	Chrysene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
53-70-3	Dibenz[a,h]anthracene	ND	230	ug/kg dry	1	12/21/20	B0L1608	8270	
206-44-0	Fluoranthene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
86-73-7	Fluorene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	230	ug/kg dry	1	12/21/20	B0L1608	8270	
91-20-3	Naphthalene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
85-01-8	Phenanthrene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
129-00-0	Pyrene	ND	110	ug/kg dry	1	12/21/20	B0L1608	8270	
Surrogate: 2-Fluorobiphenyl			75.0 %	36-133		12/21/20	B0L1608	8270	
Surrogate: Nitrobenzene-d5			69.2 %	26-123		12/21/20	B0L1608	8270	
Surrogate: p-Terphenyl-d14			82.3 %	36-142		12/21/20	B0L1608	8270	

Client ID: GP-10 (14'-15')

Lab ID: 2012085-23

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	88.4	0.1	%	1	12/15/20	B0L1105	2540 B	



## Analysis Request Sheet

Lab Work Order Number

Project Name

Matrix

2012085

11545 Van Dyke St. Detroit

SOIL/SEDIMENT

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

Accept Analysis  
hold time codes

Contract Firm

AMEC

State Project Manager Email

Vensb@mlchigan.gov

Location Code

7G71

Overflow Lab Choice 1

State Project Manager Phone

586-753-3825

SUD Location Code

Overflow Lab Choice 2

Contract Firm Primary Contact

Doug Saigh

Primary Contact Phone

586-382-0850

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Bottle Count	Comments
1	81 TB	12/8/20	—	1	
2	82 GP-1 (45'-5')		1000	2	
3	83 GP-1 (12'-13')		1000	2	
4	84 GP-2 (45'-5')		1100	2	
5	85 GP-2 (11'-12')		1110	2	
6	86 GP-3 (2'-3')		1135	2	
7	87 GP-3 (11'-12')		1140	2	
8	88 GP-4 (45'-5')		1205	2	
9	89 Dup-02		—	2	
10	90 Dup-03		—	2	

ORGANIC CHEMISTRY	METALS CHEMISTRY PACKAGES	MS - TOTAL METALS	GENERAL CHEMISTRY
<b>VOA - Volatile Organic Acids</b> 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	OpMemo2 - Total 1 2 3 4 5 6 7 8 9 10 (Sb,As,Ba,Bc,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 (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	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 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	<b>GS - General Chemistry</b> Total Cyanide - CN 1 2 3 4 5 6 7 8 9 10 Available Cyanide - CN 1 2 3 4 5 6 7 8 9 10
<b>OS - Pesticides, PCBs</b> 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			
<b>BNA - Base Neutral Acids</b> BNAs 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			
<b>Organic Specialty Requests</b> 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 ORO 1 2 3 4 5 6 7 8 9 10			

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	12/10/20 920
	Signature:		
	Print Name & Org.		
	Signature:		



# Analysis Request Sheet

Lab Work Order Number

Project Name

Matrix

2012085

11545 Van Dyke St. Detroit

SOIL/SEDIMENT

Location ID

10000356

Dept-Division-District

RRD- Southeast

State Project Manager

Beth Vens

State Project Manager Email

Vensb@michigan.gov

State Project Manager Phone

586-753-3825

Program

Activity

Funding Source

Location Code

7G71

SUD Location Code

CC Email 1

Doug.saigh@woodplc.com

CC Email 2

dan.wilde@woodplc.com

CC Email 3

Overflow Lab Choice 1

Overflow Lab Choice 2

Project TAT Days

14

Project Due Date

Accept Analysis  
hold time codes

Sample Collector

Dan Wilde

Sample Collector Phone

947-777-9892

Contract Firm

AMEC

Contract Firm Primary Contact

Doug Saigh

Primary Contact Phone

586-382-0850

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Bottle Count	Comments
1	11 GP-4 (12'-13')	12/8/20	1220	2	
2	12 GP-5 (4'-5')		1310		
3	13 GP-5 (11'-12')		1325		
4	14 GP-6 (2'-3')		1400		
5	15 GP-6 (12'-13')		1405		
6	16 GP-7 (7'-8')		1440		
7	17 GP-7 (13'-14')		1450		Vial ID GP-7 (7'-8')
8	18 GP-8 (6'-7')	12/9/20	0840		
9	19 GP-8 (12'-13')		0845		
10	20 GP-9 (4'-5')		0910		

ORGANIC CHEMISTRY	METALS CHEMISTRY PACKAGES	MS - TOTAL METALS	GENERAL CHEMISTRY
<b>VOA - Volatile Organic Acidic</b> 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  <b>OS - Pesticides, PCBs</b> 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  <b>BNA - Base Neutral Acids</b> BNAs 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  <b>Organic Specialty Requests</b> 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 ORO / ORO 1 2 3 4 5 6 7 8 9 10	<b>OpMemo2 - Total</b> 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) <b>Michigan10 - Total</b> 1 2 3 4 5 6 7 8 9 10 (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	<b>Silver - Ag</b> 1 2 3 4 5 6 7 8 9 10 <b>Aluminum - Al</b> 1 2 3 4 5 6 7 8 9 10 <b>Arsenic - As</b> 1 2 3 4 5 6 7 8 9 10 <b>Barium - Ba</b> 1 2 3 4 5 6 7 8 9 10 <b>Beryllium - Be</b> 1 2 3 4 5 6 7 8 9 10 <b>Cadmium - Cd</b> 1 2 3 4 5 6 7 8 9 10 <b>Cobalt - Co</b> 1 2 3 4 5 6 7 8 9 10 <b>Chromium - Cr</b> 1 2 3 4 5 6 7 8 9 10 <b>Copper - Cu</b> 1 2 3 4 5 6 7 8 9 10 <b>Iron - Fe</b> 1 2 3 4 5 6 7 8 9 10 <b>Mercury - Hg</b> 1 2 3 4 5 6 7 8 9 10 <b>Lithium - Li</b> 1 2 3 4 5 6 7 8 9 10 <b>Manganese - Mn</b> 1 2 3 4 5 6 7 8 9 10 <b>Molybdenum - Mo</b> 1 2 3 4 5 6 7 8 9 10 <b>Nickel - Ni</b> 1 2 3 4 5 6 7 8 9 10 <b>Lead - Pb</b> 1 2 3 4 5 6 7 8 9 10 <b>Antimony - Sb</b> 1 2 3 4 5 6 7 8 9 10 <b>Selenium - Se</b> 1 2 3 4 5 6 7 8 9 10 <b>Strontium - Sr</b> 1 2 3 4 5 6 7 8 9 10 <b>Titanium - Ti</b> 1 2 3 4 5 6 7 8 9 10 <b>Thallium - Tl</b> 1 2 3 4 5 6 7 8 9 10 <b>Uranium - U</b> 1 2 3 4 5 6 7 8 9 10 <b>Vanadium - V</b> 1 2 3 4 5 6 7 8 9 10 <b>Zinc - Zn</b> 1 2 3 4 5 6 7 8 9 10 <b>Calcium - Ca</b> 1 2 3 4 5 6 7 8 9 10 <b>Potassium - K</b> 1 2 3 4 5 6 7 8 9 10 <b>Magnesium - Mg</b> 1 2 3 4 5 6 7 8 9 10 <b>Sodium - Na</b> 1 2 3 4 5 6 7 8 9 10	<b>GS - General Chemistry</b> <b>Total Cyanide - CN</b> 1 2 3 4 5 6 7 8 9 10 <b>Available Cyanide - CN</b> 1 2 3 4 5 6 7 8 9 10

Chain of Custody	Relinquished by	Received By	Date / Time
	Print Name & Org. Dan Wilde wood/amec	Lobby	12/9/20 1524
	Signature:		
	Print Name & Org. Lobby	Melissa Smith	12/10/20 920
	Signature:		
	Print Name & Org.		
	Signature:		





## Analysis Request Sheet

Lab Work Order Number

Project Name

Matrix

2012085

11545 Van Dyke St. Detroit

SOIL/SEDIMENT

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

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Bottle Count	Comments
1	21 GP-9 (14'-15')	12/9/20	0915	2	
2	22 GP-10 (4'-5')		1110		
3	23 GP-10 (14'-15')		1115		
4					
5					
6					
7					
8					
9					
10					

ORGANIC CHEMISTRY	METALS CHEMISTRY PACKAGES	MS - TOTAL METALS	GENERAL 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	OpMemo2 - Total 1 2 3 4 5 6 7 8 9 10 (Sb,As,Ba,Bc,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Ti,V,Zn) Michigan10 - Total 1 2 3 4 5 6 7 8 9 10 (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	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 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	GS - General Chemistry Total Cyanide - CN 1 2 3 4 5 6 7 8 9 10 Available Cyanide - CN 1 2 3 4 5 6 7 8 9 10
OS - 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			
BNA - Base Neutral Acids BNAs 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			
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 / PRO 1 2 3 4 5 6 7 8 9 10			

Chain of Custody	Relinquished by Print Name & Org. <b>Dan Wilde (Amec)</b> Signature:	Received By <b>Lobby</b>	Date / Time <b>12/9/20 1524</b>
	Print Name & Org. <b>Lobby</b> Signature:	<b>Melissa Smith</b>	<b>12/10/20 920</b>
	Print Name & Org. Signature:		