



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

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

15 September 2015

Work Order: 1508212

Price: \$7,765.00

Amy Keranen
MDEQ-RRD-UP
1504 W. Washington St.
Marquette, MI 49855

RE: ABANDONED MINING WASTES-TAMARACK CITY

I certify that the analyses performed by the MDEQ Environmental Laboratory were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies .

Sincerely,

George Krisztian
Laboratory Director



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MDEQ-RRD-UP
1504 W. Washington St.
Marquette MI, 49855

Project: ABANDONED MINING WASTES-TAMARACK CITY Ops
Site Code: 31000098
Project Manager: Amy Keranen

Reported:
09/15/2015

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
CHTC - SB - 42 - 1'-7'	1508212-01	Soil/Sediment	08/21/2015	08/25/2015	
CHTC - SB - 40 - 6"-12"	1508212-02	Soil/Sediment	08/22/2015	08/25/2015	
CHTC - SB - 40 - 1'-13'	1508212-03	Soil/Sediment	08/22/2015	08/25/2015	
CHTC - SB - 41 - 6"-12"	1508212-04	Soil/Sediment	08/22/2015	08/25/2015	
CHTC - SB - 41 - 1'-17'	1508212-05	Soil/Sediment	08/22/2015	08/25/2015	
CHTC - SB - 41 - 1'-17' DUP	1508212-06	Soil/Sediment	08/22/2015	08/25/2015	
CHTC - SB - 38 - 6"-12"	1508212-07	Soil/Sediment	08/22/2015	08/25/2015	
CHTC - SB - 38 - 1'-17'	1508212-08	Soil/Sediment	08/22/2015	08/25/2015	
CHTC - SB - 36 - 12"-18"	1508212-09	Soil/Sediment	08/22/2015	08/25/2015	
CHTC - SB - 36 - 18"-4'	1508212-10	Soil/Sediment	08/22/2015	08/25/2015	
CHTC - SB - 39 - 6"-12"	1508212-11	Soil/Sediment	08/22/2015	08/25/2015	
CHTC - SB - 37 - 6"-12"	1508212-12	Soil/Sediment	08/22/2015	08/25/2015	
CHTC - SB - 45 - 15"-21"	1508212-13	Soil/Sediment	08/22/2015	08/25/2015	
CHTC - SB - 45 - 21"-8'	1508212-14	Soil/Sediment	08/22/2015	08/25/2015	
CHTC - SB - 35 - 0-6"	1508212-15	Soil/Sediment	08/22/2015	08/25/2015	
CHTC - SB - 47 - 0-6"	1508212-16	Soil/Sediment	08/22/2015	08/25/2015	
CHTC - SB - 47 - 6"-5'	1508212-17	Soil/Sediment	08/22/2015	08/25/2015	
CHTC - SS - 11 - 0-6"	1508212-18	Soil/Sediment	08/22/2015	08/25/2015	

Notes and Definitions

- Y25 Sample extract would not concentrate to the normal volume causing raised reporting limits.
- Y20 Reporting Limits (RL) raised due to matrix.
- X3 Spike recovery is not applicable due to large target analyte concentration in the source sample.
- 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.
- N Result is estimated due to Non-homogeneous sample.
- A11 Result is estimated due to high initial verification standard criteria failure.
- A09 Result is estimated due to high recovery of batch quality control.
- A06 Result is estimated due to high continuing calibration standard criteria failure.
- A04 Result is estimated due to high matrix spike recovery.
- A03 Result(s) and reporting limit(s) are estimated due to low matrix spike recovery.
- ND Indicates compound analyzed for but not detected
- RL Reporting Limit
- NA Not Applicable
- dry Sample results reported on a dry weight basis



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Client ID: CHTC - SB - 42 - 1'-7'

Lab ID: 1508212-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			106 %	30-150		08/30/15	B5H2511	8081/8082	A06
<i>Surrogate: Tetrachloro-m-xylene</i>			77.2 %	30-150		08/30/15	B5H2511	8081/8082	
Inorganics-General Chemistry									
TS	% Total Solids	93.7	0.1	%	1	08/26/15	B5H2607	2540 B	



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Client ID: CHTC - SB - 40 - 6"-12"

Lab ID: 1508212-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	08/30/15	B5H2511	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			99.8 %	30-150		08/30/15	B5H2511	8081/8082	A06
<i>Surrogate: Tetrachloro-m-xylene</i>			81.0 %	30-150		08/30/15	B5H2511	8081/8082	
Inorganics-General Chemistry									
TS	% Total Solids	92.5	0.1	%	1	08/26/15	B5H2607	2540 B	



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Client ID: CHTC - SB - 40 - 1'-13'

Lab ID: 1508212-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			75.0 %	30-150		09/09/15	B5I0110	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			78.7 %	30-150		09/09/15	B5I0110	8081/8082	
Inorganics-General Chemistry									
TS	% Total Solids	92.6	0.1	%	1	08/26/15	B5H2607	2540 B	



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Client ID: CHTC - SB - 41 - 6"-12"

Lab ID: 1508212-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11104-28-2	Aroclor 1221	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11141-16-5	Aroclor 1232	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
53469-21-9	Aroclor 1242	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
12672-29-6	Aroclor 1248	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11097-69-1	Aroclor 1254	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11096-82-5	Aroclor 1260	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
37324-23-5	Aroclor 1262	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11100-14-4	Aroclor 1268	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			87.8 %	30-150		09/09/15	B5I0110	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			72.9 %	30-150		09/09/15	B5I0110	8081/8082	
Inorganics-General Chemistry									
TS	% Total Solids	95.8	0.1	%	1	08/26/15	B5H2607	2540 B	
57-12-5	Total Cyanide	ND	0.10	mg/kg dry	1	08/27/15	B5H2406	ASTM D7284	
Inorganics-Metals									
7429-90-5	Aluminium	14000	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	09/02/15	B5H2702	6020/200.8	
7440-38-2	Arsenic	2.0	0.5	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-39-3	Barium	11	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	A09
7440-41-7	Beryllium	0.3	0.2	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-47-3	Chromium	32	2.0	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-48-4	Cobalt	20	0.5	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-50-8	Copper	950	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-89-6	Iron	22000	5.0	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	A09
7439-92-1	Lead	ND	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-93-2	Lithium	4.8	0.2	mg/kg dry	1	09/11/15	B5H2801	6010/200.7	
7439-95-4	Magnesium	14000	50	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	
7439-96-5	Manganese	310	1.0	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7439-97-6	Mercury	ND	0.05	mg/kg dry	1	09/03/15	B5I0202	7471/245.5	
7440-02-0	Nickel	32	1.0	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7782-49-2	Selenium	ND	0.2	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-22-4	Silver	0.7	0.1	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-28-0	Thallium	ND	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-66-6	Zinc	71	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	



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Client ID: CHTC - SB - 41 - 1'-17'

Lab ID: 1508212-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			92.5 %	30-150		09/09/15	B5I0110	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			78.2 %	30-150		09/09/15	B5I0110	8081/8082	
Inorganics-General Chemistry									
TS	% Total Solids	92.9	0.1	%	1	08/26/15	B5H2607	2540 B	
57-12-5	Total Cyanide	ND	0.11	mg/kg dry	1	08/27/15	B5H2406	ASTM D7284	
Inorganics-Metals									
7429-90-5	Aluminium	13000	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	09/02/15	B5H2702	6020/200.8	
7440-38-2	Arsenic	2.4	0.5	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-39-3	Barium	ND	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	A09
7440-41-7	Beryllium	0.3	0.2	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-47-3	Chromium	30	2.0	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-48-4	Cobalt	19	0.5	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-50-8	Copper	860	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-89-6	Iron	21000	5.0	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	A09
7439-92-1	Lead	ND	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-93-2	Lithium	4.6	0.2	mg/kg dry	1	09/11/15	B5H2801	6010/200.7	
7439-95-4	Magnesium	13000	50	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	
7439-96-5	Manganese	290	1.0	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7439-97-6	Mercury	ND	0.05	mg/kg dry	1	09/03/15	B5I0202	7471/245.5	
7440-02-0	Nickel	30	1.0	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7782-49-2	Selenium	ND	0.2	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-22-4	Silver	0.7	0.1	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-28-0	Thallium	ND	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-66-6	Zinc	69	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	



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Client ID: CHTC - SB - 41 - 1'-17' DUP

Lab ID: 1508212-06

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			86.9 %	30-150		09/09/15	B5I0110	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			69.7 %	30-150		09/09/15	B5I0110	8081/8082	
Inorganics-General Chemistry									
TS	% Total Solids	91.8	0.1	%	1	08/26/15	B5H2607	2540 B	
57-12-5	Total Cyanide	ND	0.11	mg/kg dry	1	08/27/15	B5H2406	ASTM D7284	
Inorganics-Metals									
7429-90-5	Aluminium	14000	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	09/02/15	B5H2702	6020/200.8	
7440-38-2	Arsenic	ND	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-39-3	Barium	11	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	A09
7440-41-7	Beryllium	ND	2.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-47-3	Chromium	35	20	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-48-4	Cobalt	21	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-50-8	Copper	800	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-89-6	Iron	21000	5.0	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	A09
7439-92-1	Lead	ND	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-93-2	Lithium	4.6	0.2	mg/kg dry	1	09/11/15	B5H2801	6010/200.7	
7439-95-4	Magnesium	13000	50	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	
7439-96-5	Manganese	320	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-97-6	Mercury	ND	0.05	mg/kg dry	1	09/03/15	B5I0202	7471/245.5	
7440-02-0	Nickel	34	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7782-49-2	Selenium	ND	2.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-22-4	Silver	0.6	0.1	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-28-0	Thallium	ND	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-66-6	Zinc	69	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	



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 ENVIRONMENTAL LABORATORY

P.O. Box 30270
 Lansing, MI 48909
 TEL: (517) 335-9800
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Client ID: CHTC - SB - 38 - 6"-12"

Lab ID: 1508212-07

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
71-55-6	1,1,1-Trichloroethane	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
79-00-5	1,1,2-Trichloroethane	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
75-34-3	1,1-Dichloroethane	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
75-35-4	1,1-Dichloroethylene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
96-18-4	1,2,3-Trichloropropane	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
96-12-8	1,2-Dibromo-3-chloropropane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
106-93-4	1,2-Dibromoethane	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
95-50-1	1,2-Dichlorobenzene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
107-06-2	1,2-Dichloroethane	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
78-87-5	1,2-Dichloropropane	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
541-73-1	1,3-Dichlorobenzene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
106-46-7	1,4-Dichlorobenzene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
78-93-3	2-Butanone (MEK)	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
591-78-6	2-Hexanone	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
91-57-6	2-Methylnaphthalene	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	X
67-64-1	2-Propanone (acetone)	ND	1200	ug/kg dry	50	08/26/15	B5H2613	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
107-13-1	Acrylonitrile	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
71-43-2	Benzene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
108-86-1	Bromobenzene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
74-97-5	Bromochloromethane	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
75-27-4	Bromodichloromethane	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
75-25-2	Bromoform	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
74-83-9	Bromomethane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
75-15-0	Carbon disulfide	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
56-23-5	Carbon tetrachloride	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
108-90-7	Chlorobenzene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
75-00-3	Chloroethane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
67-66-3	Chloroform	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
74-87-3	Chloromethane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
110-82-7	Cyclohexane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
124-48-1	Dibromochloromethane	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	



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Client ID: CHTC - SB - 38 - 6"-12"

Lab ID: 1508212-07

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
74-95-3	Dibromomethane	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
75-71-8	Dichlorodifluoromethane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
60-29-7	Diethyl ether	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
108-20-3	Diisopropyl Ether	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
100-41-4	Ethylbenzene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
637-92-3	Ethyltertiarybutylether	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
67-72-1	Hexachloroethane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
98-82-8	Isopropylbenzene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
1330-20-7	m & p - Xylene	ND	120	ug/kg dry	50	08/26/15	B5H2613	8260	
74-88-4	Methyl iodide	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
75-09-2	Methylene chloride	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
1634-04-4	Methyltertiarybutylether	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
91-20-3	Naphthalene	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	X
104-51-8	n-Butylbenzene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
103-65-1	n-Propylbenzene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
95-47-6	o-Xylene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
99-87-6	p-Isopropyl toluene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
135-98-8	sec-Butylbenzene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
100-42-5	Styrene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
98-06-6	tert-Butylbenzene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
75-65-0	tertiary Butyl Alcohol	ND	2900	ug/kg dry	50	08/26/15	B5H2613	8260	
994-05-8	tertiaryAmylmethylether	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
127-18-4	Tetrachloroethylene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
109-99-9	Tetrahydrofuran	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
108-88-3	Toluene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
110-57-6	trans-1,4-Dichloro-2-butene	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
79-01-6	Trichloroethylene	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
75-69-4	Trichlorofluoromethane	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
75-01-4	Vinyl chloride	ND	59	ug/kg dry	50	08/26/15	B5H2613	8260	
Surrogate: Bromofluorobenzene			106 %	40.3-194		08/26/15	B5H2613	8260	
Surrogate: Dibromofluoromethane			113 %	52.1-217		08/26/15	B5H2613	8260	
Surrogate: Toluene-d8			109 %	55.4-196		08/26/15	B5H2613	8260	



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Client ID: CHTC - SB - 38 - 6"-12"

Lab ID: 1508212-07

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Semivolatiles									
									See note Y20
91-57-6	2-Methylnaphthalene	ND	530	ug/kg dry	1	09/04/15	B5H2706	8270	
83-32-9	Acenaphthene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
208-96-8	Acenaphthylene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
120-12-7	Anthracene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
56-55-3	Benz[a]anthracene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
50-32-8	Benzo[a]pyrene	ND	420	ug/kg dry	1	09/04/15	B5H2706	8270	
205-99-2	Benzo[b]fluoranthene	ND	420	ug/kg dry	1	09/04/15	B5H2706	8270	
191-24-2	Benzo[g,h,i]perylene	ND	420	ug/kg dry	1	09/04/15	B5H2706	8270	
207-08-9	Benzo[k]fluoranthene	ND	420	ug/kg dry	1	09/04/15	B5H2706	8270	
218-01-9	Chrysene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
53-70-3	Dibenz[a,h]anthracene	ND	420	ug/kg dry	1	09/04/15	B5H2706	8270	
206-44-0	Fluoranthene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
86-73-7	Fluorene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	420	ug/kg dry	1	09/04/15	B5H2706	8270	
91-20-3	Naphthalene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
85-01-8	Phenanthrene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
129-00-0	Pyrene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
<i>Surrogate: 2-Fluorobiphenyl</i>			64.9 %	32.9-115		09/04/15	B5H2706	8270	
<i>Surrogate: Nitrobenzene-d5</i>			65.8 %	31.8-115		09/04/15	B5H2706	8270	
<i>Surrogate: p-Terphenyl-d14</i>			88.8 %	38.5-115		09/04/15	B5H2706	8270	
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			102 %	30-150		09/09/15	B5I0110	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			81.7 %	30-150		09/09/15	B5I0110	8081/8082	



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Client ID: CHTC - SB - 38 - 6"-12"

Lab ID: 1508212-07

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Inorganics-General Chemistry									
TS	% Total Solids	94.7	0.1	%	1	08/26/15	B5H2607	2540 B	
57-12-5	Total Cyanide	ND	0.11	mg/kg dry	1	08/27/15	B5H2406	ASTM D7284	
Inorganics-Metals									
7429-90-5	Aluminium	11000	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	09/02/15	B5H2702	6020/200.8	
7440-38-2	Arsenic	1.4	0.5	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-39-3	Barium	ND	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	A09
7440-41-7	Beryllium	0.6	0.2	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-47-3	Chromium	26	2.0	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-48-4	Cobalt	15	0.5	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-50-8	Copper	830	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-89-6	Iron	18000	5.0	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	A09
7439-92-1	Lead	ND	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-93-2	Lithium	4.7	0.2	mg/kg dry	1	09/11/15	B5H2801	6010/200.7	
7439-95-4	Magnesium	11000	50	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	
7439-96-5	Manganese	270	1.0	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7439-97-6	Mercury	ND	0.05	mg/kg dry	1	09/03/15	B5I0202	7471/245.5	
7440-02-0	Nickel	29	1.0	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7782-49-2	Selenium	ND	0.2	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-22-4	Silver	0.7	0.1	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-28-0	Thallium	ND	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-66-6	Zinc	45	1.0	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	



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Client ID: CHTC - SB - 38 - 1'-17'

Lab ID: 1508212-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
71-55-6	1,1,1-Trichloroethane	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
79-00-5	1,1,2-Trichloroethane	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
75-34-3	1,1-Dichloroethane	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
75-35-4	1,1-Dichloroethylene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
96-18-4	1,2,3-Trichloropropane	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
96-12-8	1,2-Dibromo-3-chloropropane	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
106-93-4	1,2-Dibromoethane	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
95-50-1	1,2-Dichlorobenzene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
107-06-2	1,2-Dichloroethane	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
78-87-5	1,2-Dichloropropane	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
541-73-1	1,3-Dichlorobenzene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
106-46-7	1,4-Dichlorobenzene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
78-93-3	2-Butanone (MEK)	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
591-78-6	2-Hexanone	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
91-57-6	2-Methylnaphthalene	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	X
67-64-1	2-Propanone (acetone)	ND	1200	ug/kg dry	50	08/26/15	B5H2613	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
107-13-1	Acrylonitrile	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
71-43-2	Benzene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
108-86-1	Bromobenzene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
74-97-5	Bromochloromethane	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
75-27-4	Bromodichloromethane	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
75-25-2	Bromoform	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
74-83-9	Bromomethane	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
75-15-0	Carbon disulfide	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
56-23-5	Carbon tetrachloride	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
108-90-7	Chlorobenzene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
75-00-3	Chloroethane	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
67-66-3	Chloroform	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
74-87-3	Chloromethane	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
110-82-7	Cyclohexane	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
124-48-1	Dibromochloromethane	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	



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 ENVIRONMENTAL LABORATORY

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Client ID: CHTC - SB - 38 - 1'-17'

Lab ID: 1508212-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
74-95-3	Dibromomethane	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
75-71-8	Dichlorodifluoromethane	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
60-29-7	Diethyl ether	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
108-20-3	Diisopropyl Ether	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
100-41-4	Ethylbenzene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
637-92-3	Ethyltertiarybutylether	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
67-72-1	Hexachloroethane	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
98-82-8	Isopropylbenzene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
1330-20-7	m & p - Xylene	ND	120	ug/kg dry	50	08/26/15	B5H2613	8260	
74-88-4	Methyl iodide	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
75-09-2	Methylene chloride	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
1634-04-4	Methyltertiarybutylether	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
91-20-3	Naphthalene	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	X
104-51-8	n-Butylbenzene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
103-65-1	n-Propylbenzene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
95-47-6	o-Xylene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
99-87-6	p-Isopropyl toluene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
135-98-8	sec-Butylbenzene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
100-42-5	Styrene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
98-06-6	tert-Butylbenzene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
75-65-0	tertiary Butyl Alcohol	ND	3100	ug/kg dry	50	08/26/15	B5H2613	8260	
994-05-8	tertiaryAmylmethylether	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
127-18-4	Tetrachloroethylene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
109-99-9	Tetrahydrofuran	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
108-88-3	Toluene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
110-57-6	trans-1,4-Dichloro-2-butene	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
79-01-6	Trichloroethylene	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
75-69-4	Trichlorofluoromethane	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
75-01-4	Vinyl chloride	ND	61	ug/kg dry	50	08/26/15	B5H2613	8260	
<i>Surrogate: Bromofluorobenzene</i>			<i>110 %</i>	<i>40.3-194</i>		<i>08/26/15</i>	<i>B5H2613</i>	<i>8260</i>	
<i>Surrogate: Dibromofluoromethane</i>			<i>117 %</i>	<i>52.1-217</i>		<i>08/26/15</i>	<i>B5H2613</i>	<i>8260</i>	
<i>Surrogate: Toluene-d8</i>			<i>112 %</i>	<i>55.4-196</i>		<i>08/26/15</i>	<i>B5H2613</i>	<i>8260</i>	



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Client ID: CHTC - SB - 38 - 1'-17'

Lab ID: 1508212-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Semivolatiles									
									See note Y20
91-57-6	2-Methylnaphthalene	ND	540	ug/kg dry	1	09/04/15	B5H2706	8270	
83-32-9	Acenaphthene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
208-96-8	Acenaphthylene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
120-12-7	Anthracene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
56-55-3	Benz[a]anthracene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
50-32-8	Benzo[a]pyrene	ND	430	ug/kg dry	1	09/04/15	B5H2706	8270	
205-99-2	Benzo[b]fluoranthene	ND	430	ug/kg dry	1	09/04/15	B5H2706	8270	
191-24-2	Benzo[g,h,i]perylene	ND	430	ug/kg dry	1	09/04/15	B5H2706	8270	
207-08-9	Benzo[k]fluoranthene	ND	430	ug/kg dry	1	09/04/15	B5H2706	8270	
218-01-9	Chrysene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
53-70-3	Dibenz[a,h]anthracene	ND	430	ug/kg dry	1	09/04/15	B5H2706	8270	
206-44-0	Fluoranthene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
86-73-7	Fluorene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	430	ug/kg dry	1	09/04/15	B5H2706	8270	
91-20-3	Naphthalene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
85-01-8	Phenanthrene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
129-00-0	Pyrene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
<i>Surrogate: 2-Fluorobiphenyl</i>			70.0 %	32.9-115		09/04/15	B5H2706	8270	
<i>Surrogate: Nitrobenzene-d5</i>			68.0 %	31.8-115		09/04/15	B5H2706	8270	
<i>Surrogate: p-Terphenyl-d14</i>			104 %	38.5-115		09/04/15	B5H2706	8270	
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			84.3 %	30-150		09/09/15	B5I0110	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			68.9 %	30-150		09/09/15	B5I0110	8081/8082	



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Client ID: CHTC - SB - 38 - 1'-17'

Lab ID: 1508212-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Inorganics-General Chemistry									
TS	% Total Solids	92.2	0.1	%	1	08/26/15	B5H2607	2540 B	
57-12-5	Total Cyanide	ND	0.11	mg/kg dry	1	08/27/15	B5H2406	ASTM D7284	
Inorganics-Metals									
7429-90-5	Aluminium	14000	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	09/02/15	B5H2702	6020/200.8	
7440-38-2	Arsenic	ND	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-39-3	Barium	24	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	A09
7440-41-7	Beryllium	ND	2.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-47-3	Chromium	33	20	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-48-4	Cobalt	21	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-50-8	Copper	830	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-89-6	Iron	21000	5.0	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	A09
7439-92-1	Lead	ND	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-93-2	Lithium	4.7	0.2	mg/kg dry	1	09/11/15	B5H2801	6010/200.7	
7439-95-4	Magnesium	13000	50	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	
7439-96-5	Manganese	330	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-97-6	Mercury	ND	0.05	mg/kg dry	1	09/03/15	B5I0202	7471/245.5	
7440-02-0	Nickel	31	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7782-49-2	Selenium	ND	2.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-22-4	Silver	0.7	0.1	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-28-0	Thallium	ND	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-66-6	Zinc	63	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	



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Client ID: CHTC - SB - 36 - 12"-18"
 Lab ID: 1508212-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			90.6 %	30-150		09/09/15	B5I0110	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			75.3 %	30-150		09/09/15	B5I0110	8081/8082	
Inorganics-General Chemistry									
TS	% Total Solids	89.9	0.1	%	1	08/26/15	B5H2607	2540 B	



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Client ID: CHTC - SB - 36 - 18"-4'

Lab ID: 1508212-10

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Semivolatiles									
									See note Y20
91-57-6	2-Methylnaphthalene	ND	560	ug/kg dry	1	09/04/15	B5H2706	8270	
83-32-9	Acenaphthene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
208-96-8	Acenaphthylene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
120-12-7	Anthracene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
56-55-3	Benz[a]anthracene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
50-32-8	Benzo[a]pyrene	ND	450	ug/kg dry	1	09/04/15	B5H2706	8270	
205-99-2	Benzo[b]fluoranthene	ND	450	ug/kg dry	1	09/04/15	B5H2706	8270	
191-24-2	Benzo[g,h,i]perylene	ND	450	ug/kg dry	1	09/04/15	B5H2706	8270	
207-08-9	Benzo[k]fluoranthene	ND	450	ug/kg dry	1	09/04/15	B5H2706	8270	
218-01-9	Chrysene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
53-70-3	Dibenz[a,h]anthracene	ND	450	ug/kg dry	1	09/04/15	B5H2706	8270	
206-44-0	Fluoranthene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
86-73-7	Fluorene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	450	ug/kg dry	1	09/04/15	B5H2706	8270	
91-20-3	Naphthalene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
85-01-8	Phenanthrene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
129-00-0	Pyrene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
<i>Surrogate: 2-Fluorobiphenyl</i>			68.5 %	32.9-115		09/04/15	B5H2706	8270	
<i>Surrogate: Nitrobenzene-d5</i>			68.3 %	31.8-115		09/04/15	B5H2706	8270	
<i>Surrogate: p-Terphenyl-d14</i>			101 %	38.5-115		09/04/15	B5H2706	8270	
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			91.1 %	30-150		09/09/15	B5I0110	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			78.3 %	30-150		09/09/15	B5I0110	8081/8082	



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Client ID: CHTC - SB - 36 - 18''-4'

Lab ID: 1508212-10

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Inorganics-General Chemistry									
TS	% Total Solids	89.5	0.1	%	1	08/26/15	B5H2607	2540 B	



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Client ID: CHTC - SB - 39 - 6"-12"

Lab ID: 1508212-11

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11104-28-2	Aroclor 1221	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11141-16-5	Aroclor 1232	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
53469-21-9	Aroclor 1242	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
12672-29-6	Aroclor 1248	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11097-69-1	Aroclor 1254	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11096-82-5	Aroclor 1260	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
37324-23-5	Aroclor 1262	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11100-14-4	Aroclor 1268	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			86.5 %	30-150		09/09/15	B5I0110	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			72.9 %	30-150		09/09/15	B5I0110	8081/8082	
Inorganics-General Chemistry									
TS	% Total Solids	83.6	0.1	%	1	08/26/15	B5H2607	2540 B	



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Client ID: CHTC - SB - 37 - 6"-12"

Lab ID: 1508212-12

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11104-28-2	Aroclor 1221	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11141-16-5	Aroclor 1232	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
53469-21-9	Aroclor 1242	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
12672-29-6	Aroclor 1248	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11097-69-1	Aroclor 1254	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11096-82-5	Aroclor 1260	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
37324-23-5	Aroclor 1262	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11100-14-4	Aroclor 1268	ND	120	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			88.1 %	30-150		09/09/15	B5I0110	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			77.1 %	30-150		09/09/15	B5I0110	8081/8082	
Inorganics-General Chemistry									
TS	% Total Solids	85.6	0.1	%	1	08/26/15	B5H2607	2540 B	



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
 ENVIRONMENTAL LABORATORY

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

Client ID: CHTC - SB - 45 - 15"-21"
 Lab ID: 1508212-13

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
71-55-6	1,1,1-Trichloroethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
79-00-5	1,1,2-Trichloroethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-34-3	1,1-Dichloroethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-35-4	1,1-Dichloroethylene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
96-18-4	1,2,3-Trichloropropane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
96-12-8	1,2-Dibromo-3-chloropropane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
106-93-4	1,2-Dibromoethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
95-50-1	1,2-Dichlorobenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
107-06-2	1,2-Dichloroethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
78-87-5	1,2-Dichloropropane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
541-73-1	1,3-Dichlorobenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
106-46-7	1,4-Dichlorobenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
78-93-3	2-Butanone (MEK)	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
591-78-6	2-Hexanone	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
91-57-6	2-Methylnaphthalene	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	X
67-64-1	2-Propanone (acetone)	ND	1100	ug/kg dry	50	08/26/15	B5H2613	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
107-13-1	Acrylonitrile	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
71-43-2	Benzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
108-86-1	Bromobenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
74-97-5	Bromochloromethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-27-4	Bromodichloromethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-25-2	Bromoform	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
74-83-9	Bromomethane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
75-15-0	Carbon disulfide	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
56-23-5	Carbon tetrachloride	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
108-90-7	Chlorobenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-00-3	Chloroethane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
67-66-3	Chloroform	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
74-87-3	Chloromethane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
110-82-7	Cyclohexane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
124-48-1	Dibromochloromethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	



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Client ID: CHTC - SB - 45 - 15"-21"

Lab ID: 1508212-13

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
74-95-3	Dibromomethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-71-8	Dichlorodifluoromethane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
60-29-7	Diethyl ether	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
108-20-3	Diisopropyl Ether	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
100-41-4	Ethylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
637-92-3	Ethyltertiarybutylether	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
67-72-1	Hexachloroethane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
98-82-8	Isopropylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
1330-20-7	m & p - Xylene	ND	110	ug/kg dry	50	08/26/15	B5H2613	8260	
74-88-4	Methyl iodide	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-09-2	Methylene chloride	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
1634-04-4	Methyltertiarybutylether	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
91-20-3	Naphthalene	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	X
104-51-8	n-Butylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
103-65-1	n-Propylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
95-47-6	o-Xylene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
99-87-6	p-Isopropyl toluene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
135-98-8	sec-Butylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
100-42-5	Styrene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
98-06-6	tert-Butylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-65-0	tertiary Butyl Alcohol	ND	2900	ug/kg dry	50	08/26/15	B5H2613	8260	
994-05-8	tertiaryAmylmethylether	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
127-18-4	Tetrachloroethylene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
109-99-9	Tetrahydrofuran	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
108-88-3	Toluene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
110-57-6	trans-1,4-Dichloro-2-butene	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
79-01-6	Trichloroethylene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-69-4	Trichlorofluoromethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-01-4	Vinyl chloride	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
<i>Surrogate: Bromofluorobenzene</i>			101 %	40.3-194		08/26/15	B5H2613	8260	
<i>Surrogate: Dibromofluoromethane</i>			109 %	52.1-217		08/26/15	B5H2613	8260	
<i>Surrogate: Toluene-d8</i>			104 %	55.4-196		08/26/15	B5H2613	8260	



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CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Semivolatiles									
									See note Y20
91-57-6	2-Methylnaphthalene	ND	520	ug/kg dry	1	09/04/15	B5H2706	8270	
83-32-9	Acenaphthene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
208-96-8	Acenaphthylene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
120-12-7	Anthracene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
56-55-3	Benz[a]anthracene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
50-32-8	Benzo[a]pyrene	ND	410	ug/kg dry	1	09/04/15	B5H2706	8270	
205-99-2	Benzo[b]fluoranthene	ND	410	ug/kg dry	1	09/04/15	B5H2706	8270	
191-24-2	Benzo[g,h,i]perylene	ND	410	ug/kg dry	1	09/04/15	B5H2706	8270	
207-08-9	Benzo[k]fluoranthene	ND	410	ug/kg dry	1	09/04/15	B5H2706	8270	
218-01-9	Chrysene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
53-70-3	Dibenz[a,h]anthracene	ND	410	ug/kg dry	1	09/04/15	B5H2706	8270	
206-44-0	Fluoranthene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
86-73-7	Fluorene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	410	ug/kg dry	1	09/04/15	B5H2706	8270	
91-20-3	Naphthalene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
85-01-8	Phenanthrene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
129-00-0	Pyrene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
<i>Surrogate: 2-Fluorobiphenyl</i>			64.9 %	32.9-115		09/04/15	B5H2706	8270	
<i>Surrogate: Nitrobenzene-d5</i>			63.9 %	31.8-115		09/04/15	B5H2706	8270	
<i>Surrogate: p-Terphenyl-d14</i>			90.8 %	38.5-115		09/04/15	B5H2706	8270	
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11104-28-2	Aroclor 1221	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11141-16-5	Aroclor 1232	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
53469-21-9	Aroclor 1242	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
12672-29-6	Aroclor 1248	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11097-69-1	Aroclor 1254	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11096-82-5	Aroclor 1260	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
37324-23-5	Aroclor 1262	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
11100-14-4	Aroclor 1268	ND	100	ug/kg dry	1	09/09/15	B5I0110	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			81.5 %	30-150		09/09/15	B5I0110	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			69.5 %	30-150		09/09/15	B5I0110	8081/8082	



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 Lab ID: 1508212-13

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Inorganics-General Chemistry									
TS	% Total Solids	96.6	0.1	%	1	08/26/15	B5H2607	2540 B	
57-12-5	Total Cyanide	ND	0.10	mg/kg dry	1	08/27/15	B5H2406	ASTM D7284	
Inorganics-Metals									
7429-90-5	Aluminium	13000	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	09/02/15	B5H2702	6020/200.8	
7440-38-2	Arsenic	ND	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-39-3	Barium	12	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	A09
7440-41-7	Beryllium	ND	2.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-47-3	Chromium	31	20	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-48-4	Cobalt	21	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-50-8	Copper	1200	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-89-6	Iron	18000	5.0	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	A09
7439-92-1	Lead	ND	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-93-2	Lithium	4.2	0.2	mg/kg dry	1	09/11/15	B5H2801	6010/200.7	
7439-95-4	Magnesium	13000	50	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	
7439-96-5	Manganese	320	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-97-6	Mercury	ND	0.05	mg/kg dry	1	09/03/15	B5I0202	7471/245.5	
7440-02-0	Nickel	43	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7782-49-2	Selenium	ND	2.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-22-4	Silver	0.7	0.1	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-28-0	Thallium	ND	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-66-6	Zinc	57	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	



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Client ID: CHTC - SB - 45 - 21''-8'

Lab ID: 1508212-14

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
71-55-6	1,1,1-Trichloroethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
79-00-5	1,1,2-Trichloroethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-34-3	1,1-Dichloroethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-35-4	1,1-Dichloroethylene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
96-18-4	1,2,3-Trichloropropane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
96-12-8	1,2-Dibromo-3-chloropropane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
106-93-4	1,2-Dibromoethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
95-50-1	1,2-Dichlorobenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
107-06-2	1,2-Dichloroethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
78-87-5	1,2-Dichloropropane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
541-73-1	1,3-Dichlorobenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
106-46-7	1,4-Dichlorobenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
78-93-3	2-Butanone (MEK)	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
591-78-6	2-Hexanone	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
91-57-6	2-Methylnaphthalene	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	X
67-64-1	2-Propanone (acetone)	ND	1100	ug/kg dry	50	08/26/15	B5H2613	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
107-13-1	Acrylonitrile	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
71-43-2	Benzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
108-86-1	Bromobenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
74-97-5	Bromochloromethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-27-4	Bromodichloromethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-25-2	Bromoform	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
74-83-9	Bromomethane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
75-15-0	Carbon disulfide	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
56-23-5	Carbon tetrachloride	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
108-90-7	Chlorobenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-00-3	Chloroethane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
67-66-3	Chloroform	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
74-87-3	Chloromethane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
110-82-7	Cyclohexane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
124-48-1	Dibromochloromethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	



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Organics-Volatiles									
74-95-3	Dibromomethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-71-8	Dichlorodifluoromethane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
60-29-7	Diethyl ether	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
108-20-3	Diisopropyl Ether	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
100-41-4	Ethylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
637-92-3	Ethyltertiarybutylether	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
67-72-1	Hexachloroethane	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
98-82-8	Isopropylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
1330-20-7	m & p - Xylene	ND	110	ug/kg dry	50	08/26/15	B5H2613	8260	
74-88-4	Methyl iodide	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-09-2	Methylene chloride	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
1634-04-4	Methyltertiarybutylether	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
91-20-3	Naphthalene	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	X
104-51-8	n-Butylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
103-65-1	n-Propylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
95-47-6	o-Xylene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
99-87-6	p-Isopropyl toluene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
135-98-8	sec-Butylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
100-42-5	Styrene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
98-06-6	tert-Butylbenzene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-65-0	tertiary Butyl Alcohol	ND	2900	ug/kg dry	50	08/26/15	B5H2613	8260	
994-05-8	tertiaryAmylmethylether	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
127-18-4	Tetrachloroethylene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
109-99-9	Tetrahydrofuran	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
108-88-3	Toluene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
110-57-6	trans-1,4-Dichloro-2-butene	ND	290	ug/kg dry	50	08/26/15	B5H2613	8260	
79-01-6	Trichloroethylene	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-69-4	Trichlorofluoromethane	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
75-01-4	Vinyl chloride	ND	57	ug/kg dry	50	08/26/15	B5H2613	8260	
Surrogate: Bromofluorobenzene			97.1 %	40.3-194		08/26/15	B5H2613	8260	
Surrogate: Dibromofluoromethane			106 %	52.1-217		08/26/15	B5H2613	8260	
Surrogate: Toluene-d8			103 %	55.4-196		08/26/15	B5H2613	8260	



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 ENVIRONMENTAL LABORATORY

P.O. Box 30270
 Lansing, MI 48909
 TEL: (517) 335-9800
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Client ID: CHTC - SB - 45 - 21''-8'

Lab ID: 1508212-14

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Semivolatiles									
									See note Y20
91-57-6	2-Methylnaphthalene	ND	530	ug/kg dry	1	09/04/15	B5H2706	8270	
83-32-9	Acenaphthene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
208-96-8	Acenaphthylene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
120-12-7	Anthracene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
56-55-3	Benz[a]anthracene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
50-32-8	Benzo[a]pyrene	ND	420	ug/kg dry	1	09/04/15	B5H2706	8270	
205-99-2	Benzo[b]fluoranthene	ND	420	ug/kg dry	1	09/04/15	B5H2706	8270	
191-24-2	Benzo[g,h,i]perylene	ND	420	ug/kg dry	1	09/04/15	B5H2706	8270	
207-08-9	Benzo[k]fluoranthene	ND	420	ug/kg dry	1	09/04/15	B5H2706	8270	
218-01-9	Chrysene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
53-70-3	Dibenz[a,h]anthracene	ND	420	ug/kg dry	1	09/04/15	B5H2706	8270	
206-44-0	Fluoranthene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
86-73-7	Fluorene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	420	ug/kg dry	1	09/04/15	B5H2706	8270	
91-20-3	Naphthalene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
85-01-8	Phenanthrene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
129-00-0	Pyrene	ND	210	ug/kg dry	1	09/04/15	B5H2706	8270	
<i>Surrogate: 2-Fluorobiphenyl</i>			62.1 %	32.9-115		09/04/15	B5H2706	8270	
<i>Surrogate: Nitrobenzene-d5</i>			61.5 %	31.8-115		09/04/15	B5H2706	8270	
<i>Surrogate: p-Terphenyl-d14</i>			87.4 %	38.5-115		09/04/15	B5H2706	8270	
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			82.7 %	30-150		09/11/15	B5I0209	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			70.3 %	30-150		09/11/15	B5I0209	8081/8082	



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Client ID: CHTC - SB - 45 - 21''-8'

Lab ID: 1508212-14

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Inorganics-General Chemistry									
TS	% Total Solids	94.6	0.1	%	1	08/26/15	B5H2607	2540 B	
Inorganics-Metals									
7429-90-5	Aluminium	8600	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	09/02/15	B5H2702	6020/200.8	
7440-38-2	Arsenic	ND	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-39-3	Barium	14	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	A09
7440-41-7	Beryllium	ND	2.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-47-3	Chromium	24	20	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-48-4	Cobalt	16	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-50-8	Copper	3700	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-89-6	Iron	16000	5.0	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	A09
7439-92-1	Lead	ND	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-93-2	Lithium	4.6	0.2	mg/kg dry	1	09/11/15	B5H2801	6010/200.7	
7439-95-4	Magnesium	11000	50	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	
7439-96-5	Manganese	270	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-97-6	Mercury	ND	0.05	mg/kg dry	1	09/03/15	B5I0202	7471/245.5	
7440-02-0	Nickel	29	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7782-49-2	Selenium	ND	2.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-22-4	Silver	1.1	0.1	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-28-0	Thallium	ND	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-66-6	Zinc	64	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	



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Client ID: CHTC - SB - 35 - 0-6"

Lab ID: 1508212-15

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	120	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
11104-28-2	Aroclor 1221	ND	120	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
11141-16-5	Aroclor 1232	ND	120	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
53469-21-9	Aroclor 1242	ND	120	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
12672-29-6	Aroclor 1248	ND	120	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
11097-69-1	Aroclor 1254	ND	120	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
11096-82-5	Aroclor 1260	ND	120	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
37324-23-5	Aroclor 1262	ND	120	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
11100-14-4	Aroclor 1268	ND	120	ug/kg dry	1	09/11/15	B5I0209	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			79.2 %	30-150		09/11/15	B5I0209	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			65.8 %	30-150		09/11/15	B5I0209	8081/8082	
Inorganics-General Chemistry									
TS	% Total Solids	82.6	0.1	%	1	08/26/15	B5H2607	2540 B	N



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Client ID: CHTC - SB - 47 - 0-6"

Lab ID: 1508212-16

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
71-55-6	1,1,1-Trichloroethane	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
79-00-5	1,1,2-Trichloroethane	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
75-34-3	1,1-Dichloroethane	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
75-35-4	1,1-Dichloroethylene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
96-18-4	1,2,3-Trichloropropane	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
95-63-6	1,2,4-Trimethylbenzene	110	62	ug/kg dry	50	08/26/15	B5H2613	8260	
96-12-8	1,2-Dibromo-3-chloropropane	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
106-93-4	1,2-Dibromoethane	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
95-50-1	1,2-Dichlorobenzene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
107-06-2	1,2-Dichloroethane	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
78-87-5	1,2-Dichloropropane	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
541-73-1	1,3-Dichlorobenzene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
106-46-7	1,4-Dichlorobenzene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
78-93-3	2-Butanone (MEK)	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
591-78-6	2-Hexanone	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
91-57-6	2-Methylnaphthalene	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	X
67-64-1	2-Propanone (acetone)	ND	1200	ug/kg dry	50	08/26/15	B5H2613	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
107-13-1	Acrylonitrile	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
71-43-2	Benzene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
108-86-1	Bromobenzene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
74-97-5	Bromochloromethane	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
75-27-4	Bromodichloromethane	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
75-25-2	Bromoform	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
74-83-9	Bromomethane	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
75-15-0	Carbon disulfide	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
56-23-5	Carbon tetrachloride	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
108-90-7	Chlorobenzene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
75-00-3	Chloroethane	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
67-66-3	Chloroform	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
74-87-3	Chloromethane	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
110-82-7	Cyclohexane	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
124-48-1	Dibromochloromethane	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	



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Client ID: CHTC - SB - 47 - 0-6"

Lab ID: 1508212-16

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
74-95-3	Dibromomethane	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
75-71-8	Dichlorodifluoromethane	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
60-29-7	Diethyl ether	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
108-20-3	Diisopropyl Ether	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
100-41-4	Ethylbenzene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
637-92-3	Ethyltertiarybutylether	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
67-72-1	Hexachloroethane	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
98-82-8	Isopropylbenzene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
1330-20-7	m & p - Xylene	ND	120	ug/kg dry	50	08/26/15	B5H2613	8260	
74-88-4	Methyl iodide	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
75-09-2	Methylene chloride	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
1634-04-4	Methyltertiarybutylether	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
91-20-3	Naphthalene	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	X
104-51-8	n-Butylbenzene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
103-65-1	n-Propylbenzene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
95-47-6	o-Xylene	130	62	ug/kg dry	50	08/26/15	B5H2613	8260	
99-87-6	p-Isopropyl toluene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
135-98-8	sec-Butylbenzene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
100-42-5	Styrene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
98-06-6	tert-Butylbenzene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
75-65-0	tertiary Butyl Alcohol	ND	3100	ug/kg dry	50	08/26/15	B5H2613	8260	
994-05-8	tertiaryAmylmethylether	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
127-18-4	Tetrachloroethylene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
109-99-9	Tetrahydrofuran	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
108-88-3	Toluene	84	62	ug/kg dry	50	08/26/15	B5H2613	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
110-57-6	trans-1,4-Dichloro-2-butene	ND	310	ug/kg dry	50	08/26/15	B5H2613	8260	
79-01-6	Trichloroethylene	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
75-69-4	Trichlorofluoromethane	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
75-01-4	Vinyl chloride	ND	62	ug/kg dry	50	08/26/15	B5H2613	8260	
Surrogate: Bromofluorobenzene			111 %	40.3-194		08/26/15	B5H2613	8260	
Surrogate: Dibromofluoromethane			117 %	52.1-217		08/26/15	B5H2613	8260	
Surrogate: Toluene-d8			112 %	55.4-196		08/26/15	B5H2613	8260	



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Client ID: CHTC - SB - 47 - 0-6"

Lab ID: 1508212-16

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Semivolatiles									
									See note Y20
91-57-6	2-Methylnaphthalene	ND	560	ug/kg dry	1	09/04/15	B5H2706	8270	
83-32-9	Acenaphthene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
208-96-8	Acenaphthylene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
120-12-7	Anthracene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
56-55-3	Benz[a]anthracene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
50-32-8	Benzo[a]pyrene	ND	450	ug/kg dry	1	09/04/15	B5H2706	8270	
205-99-2	Benzo[b]fluoranthene	ND	450	ug/kg dry	1	09/04/15	B5H2706	8270	
191-24-2	Benzo[g,h,i]perylene	ND	450	ug/kg dry	1	09/04/15	B5H2706	8270	
207-08-9	Benzo[k]fluoranthene	ND	450	ug/kg dry	1	09/04/15	B5H2706	8270	
218-01-9	Chrysene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
53-70-3	Dibenz[a,h]anthracene	ND	450	ug/kg dry	1	09/04/15	B5H2706	8270	
206-44-0	Fluoranthene	220	220	ug/kg dry	1	09/04/15	B5H2706	8270	
86-73-7	Fluorene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	450	ug/kg dry	1	09/04/15	B5H2706	8270	
91-20-3	Naphthalene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
85-01-8	Phenanthrene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
129-00-0	Pyrene	ND	220	ug/kg dry	1	09/04/15	B5H2706	8270	
<i>Surrogate: 2-Fluorobiphenyl</i>			68.0 %	32.9-115		09/04/15	B5H2706	8270	
<i>Surrogate: Nitrobenzene-d5</i>			63.1 %	31.8-115		09/04/15	B5H2706	8270	
<i>Surrogate: p-Terphenyl-d14</i>			73.8 %	38.5-115		09/04/15	B5H2706	8270	
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			83.0 %	30-150		09/12/15	B5I0209	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			70.6 %	30-150		09/12/15	B5I0209	8081/8082	



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY**

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
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Client ID: CHTC - SB - 47 - 0-6"

Lab ID: 1508212-16

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Inorganics-General Chemistry									
TS	% Total Solids	89.4	0.1	%	1	08/26/15	B5H2607	2540 B	
57-12-5	Total Cyanide	ND	0.11	mg/kg dry	1	08/27/15	B5H2406	ASTM D7284	
Inorganics-Metals									
7429-90-5	Aluminium	11000	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	09/02/15	B5H2702	6020/200.8	
7440-38-2	Arsenic	ND	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-39-3	Barium	24	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	A09
7440-41-7	Beryllium	ND	2.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-43-9	Cadmium	0.2	0.2	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-47-3	Chromium	30	20	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-48-4	Cobalt	19	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-50-8	Copper	1500	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-89-6	Iron	18000	5.0	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	A09
7439-92-1	Lead	17	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-93-2	Lithium	5.2	0.2	mg/kg dry	1	09/11/15	B5H2801	6010/200.7	
7439-95-4	Magnesium	12000	50	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	
7439-96-5	Manganese	290	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-97-6	Mercury	ND	0.06	mg/kg dry	1	09/03/15	B5I0202	7471/245.5	
7440-02-0	Nickel	31	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7782-49-2	Selenium	ND	2.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-22-4	Silver	2.2	0.1	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-28-0	Thallium	ND	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-66-6	Zinc	170	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	



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Client ID: CHTC - SB - 47 - 6''-5'

Lab ID: 1508212-17

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
71-55-6	1,1,1-Trichloroethane	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
79-00-5	1,1,2-Trichloroethane	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
75-34-3	1,1-Dichloroethane	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
75-35-4	1,1-Dichloroethylene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
96-18-4	1,2,3-Trichloropropane	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
96-12-8	1,2-Dibromo-3-chloropropane	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
106-93-4	1,2-Dibromoethane	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
95-50-1	1,2-Dichlorobenzene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
107-06-2	1,2-Dichloroethane	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
78-87-5	1,2-Dichloropropane	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
541-73-1	1,3-Dichlorobenzene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
106-46-7	1,4-Dichlorobenzene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
78-93-3	2-Butanone (MEK)	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
591-78-6	2-Hexanone	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
91-57-6	2-Methylnaphthalene	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	X
67-64-1	2-Propanone (acetone)	ND	1500	ug/kg dry	50	08/26/15	B5H2613	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
107-13-1	Acrylonitrile	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
71-43-2	Benzene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
108-86-1	Bromobenzene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
74-97-5	Bromochloromethane	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
75-27-4	Bromodichloromethane	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
75-25-2	Bromoform	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
74-83-9	Bromomethane	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
75-15-0	Carbon disulfide	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
56-23-5	Carbon tetrachloride	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
108-90-7	Chlorobenzene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
75-00-3	Chloroethane	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
67-66-3	Chloroform	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
74-87-3	Chloromethane	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
110-82-7	Cyclohexane	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
124-48-1	Dibromochloromethane	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	



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Client ID: CHTC - SB - 47 - 6''-5'
 Lab ID: 1508212-17

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
74-95-3	Dibromomethane	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
75-71-8	Dichlorodifluoromethane	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
60-29-7	Diethyl ether	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
108-20-3	Diisopropyl Ether	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
100-41-4	Ethylbenzene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
637-92-3	Ethyltertiarybutylether	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
67-72-1	Hexachloroethane	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
98-82-8	Isopropylbenzene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
1330-20-7	m & p - Xylene	ND	150	ug/kg dry	50	08/26/15	B5H2613	8260	
74-88-4	Methyl iodide	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
75-09-2	Methylene chloride	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
1634-04-4	Methyltertiarybutylether	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
91-20-3	Naphthalene	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	X
104-51-8	n-Butylbenzene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
103-65-1	n-Propylbenzene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
95-47-6	o-Xylene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
99-87-6	p-Isopropyl toluene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
135-98-8	sec-Butylbenzene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
100-42-5	Styrene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
98-06-6	tert-Butylbenzene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
75-65-0	tertiary Butyl Alcohol	ND	3800	ug/kg dry	50	08/26/15	B5H2613	8260	
994-05-8	tertiaryAmylmethylether	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
127-18-4	Tetrachloroethylene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
109-99-9	Tetrahydrofuran	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
108-88-3	Toluene	370	76	ug/kg dry	50	08/26/15	B5H2613	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
110-57-6	trans-1,4-Dichloro-2-butene	ND	380	ug/kg dry	50	08/26/15	B5H2613	8260	
79-01-6	Trichloroethylene	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
75-69-4	Trichlorofluoromethane	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
75-01-4	Vinyl chloride	ND	76	ug/kg dry	50	08/26/15	B5H2613	8260	
Surrogate: Bromofluorobenzene			108 %	40.3-194		08/26/15	B5H2613	8260	
Surrogate: Dibromofluoromethane			117 %	52.1-217		08/26/15	B5H2613	8260	
Surrogate: Toluene-d8			111 %	55.4-196		08/26/15	B5H2613	8260	



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Client ID: CHTC - SB - 47 - 6''-5'

Lab ID: 1508212-17

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Semivolatiles									See note Y20
91-57-6	2-Methylnaphthalene	ND	620	ug/kg dry	1	09/04/15	B5H2706	8270	
83-32-9	Acenaphthene	ND	250	ug/kg dry	1	09/04/15	B5H2706	8270	
208-96-8	Acenaphthylene	ND	250	ug/kg dry	1	09/04/15	B5H2706	8270	
120-12-7	Anthracene	ND	250	ug/kg dry	1	09/04/15	B5H2706	8270	
56-55-3	Benz[a]anthracene	ND	250	ug/kg dry	1	09/04/15	B5H2706	8270	
50-32-8	Benzo[a]pyrene	ND	490	ug/kg dry	1	09/04/15	B5H2706	8270	
205-99-2	Benzo[b]fluoranthene	ND	490	ug/kg dry	1	09/04/15	B5H2706	8270	
191-24-2	Benzo[g,h,i]perylene	ND	490	ug/kg dry	1	09/04/15	B5H2706	8270	
207-08-9	Benzo[k]fluoranthene	ND	490	ug/kg dry	1	09/04/15	B5H2706	8270	
218-01-9	Chrysene	ND	250	ug/kg dry	1	09/04/15	B5H2706	8270	
53-70-3	Dibenz[a,h]anthracene	ND	490	ug/kg dry	1	09/04/15	B5H2706	8270	
206-44-0	Fluoranthene	260	250	ug/kg dry	1	09/04/15	B5H2706	8270	
86-73-7	Fluorene	ND	250	ug/kg dry	1	09/04/15	B5H2706	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	490	ug/kg dry	1	09/04/15	B5H2706	8270	
91-20-3	Naphthalene	ND	250	ug/kg dry	1	09/04/15	B5H2706	8270	
85-01-8	Phenanthrene	ND	250	ug/kg dry	1	09/04/15	B5H2706	8270	
129-00-0	Pyrene	ND	250	ug/kg dry	1	09/04/15	B5H2706	8270	
<i>Surrogate: 2-Fluorobiphenyl</i>			71.4 %	32.9-115		09/04/15	B5H2706	8270	
<i>Surrogate: Nitrobenzene-d5</i>			68.6 %	31.8-115		09/04/15	B5H2706	8270	
<i>Surrogate: p-Terphenyl-d14</i>			82.7 %	38.5-115		09/04/15	B5H2706	8270	
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
11104-28-2	Aroclor 1221	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
11141-16-5	Aroclor 1232	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
53469-21-9	Aroclor 1242	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
12672-29-6	Aroclor 1248	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
11097-69-1	Aroclor 1254	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
11096-82-5	Aroclor 1260	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
37324-23-5	Aroclor 1262	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
11100-14-4	Aroclor 1268	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			71.9 %	30-150		09/12/15	B5I0209	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			69.3 %	30-150		09/12/15	B5I0209	8081/8082	



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Client ID: CHTC - SB - 47 - 6''-5'

Lab ID: 1508212-17

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Inorganics-General Chemistry									
TS	% Total Solids	81.3	0.1	%	1	08/26/15	B5H2607	2540 B	
57-12-5	Total Cyanide	ND	0.12	mg/kg dry	1	08/27/15	B5H2406	ASTM D7284	
Inorganics-Metals									
7429-90-5	Aluminium	5100	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	09/02/15	B5H2702	6020/200.8	
7440-38-2	Arsenic	ND	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-39-3	Barium	29	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	A09
7440-41-7	Beryllium	ND	2.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-47-3	Chromium	ND	20	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-48-4	Cobalt	7.1	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-50-8	Copper	1300	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-89-6	Iron	11000	5.0	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	A09
7439-92-1	Lead	18	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-93-2	Lithium	4.1	0.2	mg/kg dry	1	09/11/15	B5H2801	6010/200.7	
7439-95-4	Magnesium	4300	5.0	mg/kg dry	1	09/11/15	B5H2801	6010/200.7	
7439-96-5	Manganese	160	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-97-6	Mercury	ND	0.06	mg/kg dry	1	09/03/15	B5I0202	7471/245.5	
7440-02-0	Nickel	14	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7782-49-2	Selenium	ND	2.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-22-4	Silver	0.5	0.1	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-28-0	Thallium	ND	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-66-6	Zinc	73	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
 ENVIRONMENTAL LABORATORY

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

Client ID: CHTC - SS - 11 - 0-6"

Lab ID: 1508212-18

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Semivolatiles									
See note Y20, Y25									
91-57-6	2-Methylnaphthalene	ND	5900	ug/kg dry	1	09/04/15	B5H2706	8270	
83-32-9	Acenaphthene	ND	2400	ug/kg dry	1	09/04/15	B5H2706	8270	
208-96-8	Acenaphthylene	ND	2400	ug/kg dry	1	09/04/15	B5H2706	8270	
120-12-7	Anthracene	ND	2400	ug/kg dry	1	09/04/15	B5H2706	8270	
56-55-3	Benz[a]anthracene	ND	2400	ug/kg dry	1	09/04/15	B5H2706	8270	
50-32-8	Benzo[a]pyrene	ND	4700	ug/kg dry	1	09/04/15	B5H2706	8270	
205-99-2	Benzo[b]fluoranthene	ND	4700	ug/kg dry	1	09/04/15	B5H2706	8270	
191-24-2	Benzo[g,h,i]perylene	ND	4700	ug/kg dry	1	09/04/15	B5H2706	8270	
207-08-9	Benzo[k]fluoranthene	ND	4700	ug/kg dry	1	09/04/15	B5H2706	8270	
218-01-9	Chrysene	ND	2400	ug/kg dry	1	09/04/15	B5H2706	8270	
53-70-3	Dibenz[a,h]anthracene	ND	4700	ug/kg dry	1	09/04/15	B5H2706	8270	
206-44-0	Fluoranthene	ND	2400	ug/kg dry	1	09/04/15	B5H2706	8270	
86-73-7	Fluorene	ND	2400	ug/kg dry	1	09/04/15	B5H2706	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	4700	ug/kg dry	1	09/04/15	B5H2706	8270	
91-20-3	Naphthalene	ND	2400	ug/kg dry	1	09/04/15	B5H2706	8270	
85-01-8	Phenanthrene	ND	2400	ug/kg dry	1	09/04/15	B5H2706	8270	
129-00-0	Pyrene	ND	2400	ug/kg dry	1	09/04/15	B5H2706	8270	
<i>Surrogate: 2-Fluorobiphenyl</i>			67.1 %	32.9-115		09/04/15	B5H2706	8270	
<i>Surrogate: Nitrobenzene-d5</i>			62.1 %	31.8-115		09/04/15	B5H2706	8270	
<i>Surrogate: p-Terphenyl-d14</i>			74.8 %	38.5-115		09/04/15	B5H2706	8270	
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
11104-28-2	Aroclor 1221	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
11141-16-5	Aroclor 1232	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
53469-21-9	Aroclor 1242	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
12672-29-6	Aroclor 1248	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
11097-69-1	Aroclor 1254	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
11096-82-5	Aroclor 1260	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
37324-23-5	Aroclor 1262	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
11100-14-4	Aroclor 1268	ND	120	ug/kg dry	1	09/12/15	B5I0209	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			76.0 %	30-150		09/12/15	B5I0209	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			66.7 %	30-150		09/12/15	B5I0209	8081/8082	



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Client ID: CHTC - SS - 11 - 0-6"

Lab ID: 1508212-18

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Inorganics-General Chemistry									
TS	% Total Solids	85.1	0.1	%	1	08/26/15	B5H2607	2540 B	N
57-12-5	Total Cyanide	0.17	0.12	mg/kg dry	1	08/27/15	B5H2406	ASTM D7284	
Inorganics-Metals									
7429-90-5	Aluminium	14000	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-36-0	Antimony	0.6	0.3	mg/kg dry	10	09/02/15	B5H2702	6020/200.8	
7440-38-2	Arsenic	ND	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-39-3	Barium	65	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	A09
7440-41-7	Beryllium	ND	2.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-43-9	Cadmium	0.3	0.2	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-47-3	Chromium	36	20	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-48-4	Cobalt	16	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-50-8	Copper	560	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-89-6	Iron	24000	5.0	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	A09
7439-92-1	Lead	66	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-93-2	Lithium	11	0.2	mg/kg dry	1	09/11/15	B5H2801	6010/200.7	
7439-95-4	Magnesium	10000	50	mg/kg dry	10	09/11/15	B5H2801	6010/200.7	
7439-96-5	Manganese	470	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7439-97-6	Mercury	0.3	0.06	mg/kg dry	1	09/03/15	B5I0203	7471/245.5	
7440-02-0	Nickel	33	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7782-49-2	Selenium	ND	2.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-22-4	Silver	0.5	0.1	mg/kg dry	10	09/01/15	B5H2801	6020/200.8	
7440-28-0	Thallium	ND	5.0	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	
7440-66-6	Zinc	150	10	mg/kg dry	100	09/02/15	B5H2801	6020/200.8	



Analysis Request Sheet

Lab Work Order Number 1508212	Project Name Abandoned Mining Wastes - Torch Lake PCB C&H Tamarack City Ops	MATRIX SOIL
Site Code/Project Number 31000098	AY 13	CC Email 1 jblinkley@westonsolutions.com
Dept./Division/District DEQ-RRD-UP District	Index 44251	CC Email 2 denise.lisette@westonsolutions.com
State Project Manager Amy Keranen	PCA 30872	CC Email 3 plncumbel@michigan.gov
State Project Manager Email keranena@michigan.gov	Project 456990	Overflow Lab Choice 1
State Project Manager Phone 906-337-0389	Phase 00	Overflow Lab Choice 2
		Accept Analysis hold time codes no
		Sample Collector AK(JP)AB-DEQ-RRD
		Sample Collector Phone 906-337-0389 517 335 6412
		Contract Firm Weston Solutions
		Contract Firm Primary Contact Jeff Binkley
		Primary Contact Phone 906-523-5457

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1 01	CHTC-SB42-1'-7'	8/21/15	1310		
2 02	CHTC-SB40-6"-12"	8/22/15	0830		
3 03	CHTC-SB40-1'-13'	8/22/15	0835		
4 04	CHTC-SB41-6"-12"	8/22/15	0930		
5 05	CHTC-SB41-1'-17'	8/22/15	0935		
6 06	CHTC-SB41-1'-17' DUP	8/22/15	0935		
7 07	CHTC-SB38-6"-12"	8/22/15	1020		
8 08	CHTC-SB38-1'-17'	}	1025		
9 09	CHTC-SB-36-12"-18"		1105		
10 10	CHTC-SB-36-18"-4'	}	1110		

ORGANIC CHEMISTRY	METALS CHEMISTRY PACKAGES	MS - TOTAL METALS	GENERAL CHEMISTRY
VOA - Volatile Organic Acids 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 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/ORO 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) Michlgan10 - 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 Chem Oxyg Dem - COD 1 2 3 4 5 6 7 8 9 10 Total Org Carbon - TOC 1 2 3 4 5 6 7 8 9 10 Kjeldahl Nitrogen - KN 1 2 3 4 5 6 7 8 9 10 Total Phosphorus - TP 1 2 3 4 5 6 7 8 9 10

Chain of Custody	Relinquished by	Received By	Date / Time
	Print Name & Org. Amy Keranen, DEQ Signature: <i>Amy Keranen</i>	JEFF PINCUMBE MDEQ <i>Jeff Pincumbe</i>	8-23-15 7:20 am
	Print Name & Org. JEFF PINCUMBE MDEQ Signature: <i>Jeff Pincumbe</i>	Joshua Pung MDEQ <i>Joshua R Pung</i>	8/25/15 1213



Analysis Request Sheet

Lab Work Order Number 1508212	Project Name Abandoned Mining Wastes - Torch Lake PCB C&H Tamarack City Ops	Matrix SOIL
Site Code/Project Number 31000098	AY 13	CC Email 1 j.binkley@westonsolutions.com
Dept-Division-District DEQ-RRD-UP District	Index 44251	CC Email 2 danal.lisbay@westonsolutions.com
State Project Manager Amy Keranen	PCA 30872	CC Email 3 plncumbel@michigan.gov
State Project Manager Email keranena@michigan.gov	Project 456990	Overflow Lab Choice 1
State Project Manager Phone 906-337-0389	Phase 00	Overflow Lab Choice 2
		Project IAI Days
		Project Due Date
		Sample Collector AK/JP/AB-DEQ-RRD
		Sample Collector Phone 906-337-0389
		Contract Firm Weston Solutions
		Contract Firm Primary Contact Jeff Binkley
		Primary Contact Phone 906-523-5457
		Accept Analysis hold time codes no

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	11 CHTC-SB39-6"-12"	8/22/15	1155		
2	12 CHTC-SB37-6"-12"		1355		
3	13 CHTC-SB45-15"-21"		1430		
4	14 CHTC-SB45-21"-8'		1440		
5	15 CHTC-SB35-0-6"		1515		
6	16 CHTC-SB47-0-6"		1600		
7	17 CHTC-SB47-6"-5'		1605		
8	18 CHTC-SB511-0-6"		1635		
9	CHTC-SB-				
10	CHTC-SB-				

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/TM8 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 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 - SemVolts 1 2 3 4 5 6 7 8 9 10 Finger Print 1 2 3 4 5 6 7 8 9 10 DRO / ORC 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 - Bb 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 Chem Oxyg Dem - COD 1 2 3 4 5 6 7 8 9 10 Total Org Carbon - TOC 1 2 3 4 5 6 7 8 9 10 Kjeldahl Nitrogen - XN 1 2 3 4 5 6 7 8 9 10 Total Phosphorus - TP 1 2 3 4 5 6 7 8 9 10

Chain of Custody	Relinquished by	Received By	Date / Time
	Print Name & Org. Amy Keranen, MDEQ	JEFF PINCUMBE MDEQ	8-23-15
	Signature: <i>Amy Keranen</i>	<i>Jeff Pincumb</i>	7:00 AM
	Print Name & Org. JEFF PINCUMBE MDEQ	Joshua Pung MDEQ	8/25/15
Signature: <i>Jeff Pincumb</i>	<i>Joshua R Pung</i>	1213	
Print Name & Org.			
Signature:			