



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
ENVIRONMENTAL LABORATORY

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

07 August 2015

Work Order: 1507176

Price: \$4,535.00

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:**  
 08/07/2015

**Analytical Report for Samples**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
CHTC-SD-19-0-6"	1507176-01	Soil/Sediment	07/10/2015	07/15/2015	
CHTC-SD-19-1-3'	1507176-02	Soil/Sediment	07/10/2015	07/15/2015	
CHTC-SD-19-3-4.75'	1507176-03	Soil/Sediment	07/10/2015	07/15/2015	
CHTC-SD-15-0-6"	1507176-04	Soil/Sediment	07/10/2015	07/15/2015	
CHTC-SD-15-1-3'	1507176-05	Soil/Sediment	07/10/2015	07/15/2015	
CHTC-SD-15-3-4.33	1507176-06	Soil/Sediment	07/10/2015	07/15/2015	
CHTC-SD-11-0-6"	1507176-07	Soil/Sediment	07/10/2015	07/15/2015	
CHTC-SD-11-1-3'	1507176-08	Soil/Sediment	07/10/2015	07/15/2015	
CHTC-SD-11-3-5'	1507176-09	Soil/Sediment	07/10/2015	07/15/2015	
CHTC-SD-10-3-4.75 dup	1507176-10	Soil/Sediment	07/10/2015	07/15/2015	
CHTC-SD-10-0-6"	1507176-11	Soil/Sediment	07/10/2015	07/15/2015	
CHTC-SD-10-1-3'	1507176-12	Soil/Sediment	07/10/2015	07/15/2015	
CHTC-SD-10-3'-4.75'	1507176-13	Soil/Sediment	07/10/2015	07/15/2015	
CHTC-SD-14-0-6"	1507176-14	Soil/Sediment	07/11/2015	07/15/2015	
CHTC-SD-14-1-2.75'	1507176-15	Soil/Sediment	07/11/2015	07/15/2015	
CHTC-SD-14-1-2.75' dup	1507176-16	Soil/Sediment	07/11/2015	07/15/2015	
CHTC-SD-13-0-6"	1507176-17	Soil/Sediment	07/11/2015	07/15/2015	
CHTC-SD-13-1-3'	1507176-18	Soil/Sediment	07/11/2015	07/15/2015	
CHTC-SD-13-3-5'	1507176-19	Soil/Sediment	07/11/2015	07/15/2015	
CHTC-SD-07-0-6"	1507176-20	Soil/Sediment	07/11/2015	07/15/2015	

**Notes and Definitions**

- Y20 Reporting Limits (RL) raised due to matrix.
- X3 Spike recovery is not applicable due to large target analyte concentration in the source sample.
- A09 Result is estimated due to high recovery of batch quality control.
- A07 Result(s) and reporting limit(s) are estimated due to poor precision.
- 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-SD-19-0-6"**

**Lab ID: 1507176-01**

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-PCBs as Aroclors</b>									<b>See note Y20</b>
12674-11-2	Aroclor 1016	ND	320	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11104-28-2	Aroclor 1221	ND	320	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11141-16-5	Aroclor 1232	ND	320	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
53469-21-9	Aroclor 1242	ND	320	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
12672-29-6	Aroclor 1248	ND	320	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11097-69-1	Aroclor 1254	ND	320	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11096-82-5	Aroclor 1260	ND	320	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
37324-23-5	Aroclor 1262	ND	320	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11100-14-4	Aroclor 1268	ND	320	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			75.7 %	30-150		07/31/15	B5G2427	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			66.4 %	30-150		07/31/15	B5G2427	8081/8082	
<b>Inorganics-General Chemistry</b>									
TS	<b>% Total Solids</b>	<b>63.4</b>	0.1	%	1	07/17/15	B5G1709	2540 B	
57-12-5	Total Cyanide	ND	0.16	mg/kg dry	1	07/27/15	B5G2216	ASTM D7284	
<b>Inorganics-Metals</b>									
7429-90-5	<b>Aluminium</b>	<b>21000</b>	100	mg/kg dry	1000	07/29/15	B5G2401	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	07/23/15	B5G2111	6020/200.8	
7440-38-2	<b>Arsenic</b>	<b>4.6</b>	0.5	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-39-3	<b>Barium</b>	<b>32</b>	1.0	mg/kg dry	10	07/29/15	B5G2401	6020/200.8	
7440-41-7	<b>Beryllium</b>	<b>0.5</b>	0.2	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-47-3	<b>Chromium</b>	<b>42</b>	2.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-48-4	<b>Cobalt</b>	<b>25</b>	0.5	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-50-8	<b>Copper</b>	<b>570</b>	1.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7439-89-6	<b>Iron</b>	<b>36000</b>	5.0	mg/kg dry	10	07/28/15	B5G2401	6010/200.7	
7439-92-1	<b>Lead</b>	<b>13</b>	1.0	mg/kg dry	10	07/29/15	B5G2401	6020/200.8	
7439-93-2	<b>Lithium</b>	<b>7.6</b>	0.2	mg/kg dry	1	07/28/15	B5G2401	6010/200.7	
7439-95-4	<b>Magnesium</b>	<b>19000</b>	50	mg/kg dry	10	07/28/15	B5G2401	6010/200.7	
7439-96-5	<b>Manganese</b>	<b>440</b>	1.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7439-97-6	<b>Mercury</b>	<b>0.1</b>	0.08	mg/kg dry	1	07/30/15	B5G2905	7471/245.5	
7440-02-0	<b>Nickel</b>	<b>44</b>	1.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7782-49-2	Selenium	ND	0.2	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-22-4	<b>Silver</b>	<b>1.1</b>	0.1	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-32-6	<b>Titanium</b>	<b>4600</b>	100	mg/kg dry	1000	07/29/15	B5G2401	6020/200.8	
7440-66-6	<b>Zinc</b>	<b>96</b>	1.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	



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Client ID: CHTC-SD-19-1-3'

Lab ID: 1507176-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-PCBs as Aroclors</b>									
12674-11-2	Aroclor 1016	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	See note Y20
11104-28-2	Aroclor 1221	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11141-16-5	Aroclor 1232	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
53469-21-9	Aroclor 1242	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
12672-29-6	Aroclor 1248	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11097-69-1	Aroclor 1254	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11096-82-5	Aroclor 1260	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
37324-23-5	Aroclor 1262	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11100-14-4	Aroclor 1268	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			79.0 %	30-150		07/31/15	B5G2427	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			70.4 %	30-150		07/31/15	B5G2427	8081/8082	
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	54.6	0.1	%	1	07/17/15	B5G1709	2540 B	



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**Client ID: CHTC-SD-19-3-4.75'**

**Lab ID: 1507176-03**

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-PCBs as Aroclors</b>									
<b>See note Y20</b>									
12674-11-2	Aroclor 1016	ND	300	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11104-28-2	Aroclor 1221	ND	300	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11141-16-5	Aroclor 1232	ND	300	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
53469-21-9	Aroclor 1242	ND	300	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
12672-29-6	Aroclor 1248	ND	300	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11097-69-1	Aroclor 1254	ND	300	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11096-82-5	Aroclor 1260	ND	300	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
37324-23-5	Aroclor 1262	ND	300	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11100-14-4	Aroclor 1268	ND	300	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			73.8 %	30-150		07/31/15	B5G2427	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			66.2 %	30-150		07/31/15	B5G2427	8081/8082	
<b>Inorganics-General Chemistry</b>									
TS	<b>% Total Solids</b>	<b>66.0</b>	0.1	%	1	07/17/15	B5G1709	2540 B	



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Client ID: CHTC-SD-15-0-6"

Lab ID: 1507176-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-PCBs as Aroclors</b>									<b>See note Y20</b>
12674-11-2	Aroclor 1016	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11104-28-2	Aroclor 1221	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11141-16-5	Aroclor 1232	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
53469-21-9	Aroclor 1242	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
12672-29-6	Aroclor 1248	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11097-69-1	Aroclor 1254	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11096-82-5	Aroclor 1260	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
37324-23-5	Aroclor 1262	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11100-14-4	Aroclor 1268	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			70.6 %	30-150		08/01/15	B5G2427	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			62.0 %	30-150		08/01/15	B5G2427	8081/8082	
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	55.1	0.1	%	1	07/17/15	B5G1709	2540 B	



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**Client ID: CHTC-SD-15-1-3'**

**Lab ID: 1507176-05**

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-PCBs as Aroclors</b>									
12674-11-2	Aroclor 1016	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	See note Y20
11104-28-2	Aroclor 1221	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11141-16-5	Aroclor 1232	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
53469-21-9	Aroclor 1242	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
12672-29-6	Aroclor 1248	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11097-69-1	Aroclor 1254	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11096-82-5	Aroclor 1260	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
37324-23-5	Aroclor 1262	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
11100-14-4	Aroclor 1268	ND	370	ug/kg dry	1	07/31/15	B5G2427	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			75.4 %	30-150		07/31/15	B5G2427	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			70.0 %	30-150		07/31/15	B5G2427	8081/8082	
<b>Inorganics-General Chemistry</b>									
TS	<b>% Total Solids</b>	<b>53.4</b>	0.1	%	1	07/17/15	B5G1709	2540 B	



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**Client ID: CHTC-SD-15-3-4.33**

**Lab ID: 1507176-06**

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-PCBs as Aroclors</b>									
<b>See note Y20</b>									
12674-11-2	Aroclor 1016	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11104-28-2	Aroclor 1221	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11141-16-5	Aroclor 1232	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
53469-21-9	Aroclor 1242	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
12672-29-6	Aroclor 1248	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11097-69-1	Aroclor 1254	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11096-82-5	Aroclor 1260	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
37324-23-5	Aroclor 1262	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11100-14-4	Aroclor 1268	ND	360	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			78.5 %	30-150		08/01/15	B5G2427	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			68.8 %	30-150		08/01/15	B5G2427	8081/8082	
<b>Inorganics-General Chemistry</b>									
TS	<b>% Total Solids</b>	<b>55.1</b>	0.1	%	1	07/17/15	B5G1709	2540 B	





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**Client ID: CHTC-SD-11-0-6"**

**Lab ID: 1507176-07**

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-PCBs as Aroclors</b>									
<b>See note Y20</b>									
12674-11-2	Aroclor 1016	ND	380	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11104-28-2	Aroclor 1221	ND	380	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11141-16-5	Aroclor 1232	ND	380	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
53469-21-9	Aroclor 1242	ND	380	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
12672-29-6	Aroclor 1248	ND	380	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11097-69-1	Aroclor 1254	ND	380	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11096-82-5	Aroclor 1260	ND	380	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
37324-23-5	Aroclor 1262	ND	380	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11100-14-4	Aroclor 1268	ND	380	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			72.2 %	30-150		08/01/15	B5G2427	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			66.9 %	30-150		08/01/15	B5G2427	8081/8082	
<b>Inorganics-General Chemistry</b>									
TS	<b>% Total Solids</b>	<b>52.8</b>	0.1	%	1	07/17/15	B5G1709	2540 B	



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Client ID: CHTC-SD-11-1-3'

Lab ID: 1507176-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-PCBs as Aroclors</b>									
<b>See note Y20</b>									
12674-11-2	Aroclor 1016	ND	320	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11104-28-2	Aroclor 1221	ND	320	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11141-16-5	Aroclor 1232	ND	320	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
53469-21-9	Aroclor 1242	ND	320	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
12672-29-6	Aroclor 1248	ND	320	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11097-69-1	Aroclor 1254	ND	320	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11096-82-5	Aroclor 1260	ND	320	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
37324-23-5	Aroclor 1262	ND	320	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11100-14-4	Aroclor 1268	ND	320	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			66.6 %	30-150		08/01/15	B5G2427	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			65.0 %	30-150		08/01/15	B5G2427	8081/8082	
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	62.9	0.1	%	1	07/17/15	B5G1709	2540 B	



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Client ID: CHTC-SD-11-3-5'

Lab ID: 1507176-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-PCBs as Aroclors</b>									
<b>See note Y20</b>									
12674-11-2	Aroclor 1016	ND	330	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11104-28-2	Aroclor 1221	ND	330	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11141-16-5	Aroclor 1232	ND	330	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
53469-21-9	Aroclor 1242	ND	330	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
12672-29-6	Aroclor 1248	ND	330	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11097-69-1	Aroclor 1254	ND	330	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11096-82-5	Aroclor 1260	ND	330	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
37324-23-5	Aroclor 1262	ND	330	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11100-14-4	Aroclor 1268	ND	330	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			70.5 %	30-150		08/01/15	B5G2427	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			69.5 %	30-150		08/01/15	B5G2427	8081/8082	
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	60.0	0.1	%	1	07/17/15	B5G1710	2540 B	



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**Client ID: CHTC-SD-10-3-4.75 dup**  
**Lab ID: 1507176-10**

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-PCBs as Aroclors</b>									<b>See note Y20</b>
12674-11-2	Aroclor 1016	ND	280	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11104-28-2	Aroclor 1221	ND	280	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11141-16-5	Aroclor 1232	ND	280	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
53469-21-9	Aroclor 1242	ND	280	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
12672-29-6	Aroclor 1248	ND	280	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11097-69-1	Aroclor 1254	ND	280	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11096-82-5	Aroclor 1260	ND	280	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
37324-23-5	Aroclor 1262	ND	280	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
11100-14-4	Aroclor 1268	ND	280	ug/kg dry	1	08/01/15	B5G2427	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			72.8 %	30-150		08/01/15	B5G2427	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			70.2 %	30-150		08/01/15	B5G2427	8081/8082	
<b>Inorganics-General Chemistry</b>									
TS	<b>% Total Solids</b>	<b>71.2</b>	0.1	%	1	07/17/15	B5G1710	2540 B	



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Client ID: CHTC-SD-10-0-6"

Lab ID: 1507176-11

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-PCBs as Aroclors</b>									<b>See note Y20</b>
12674-11-2	Aroclor 1016	ND	270	ug/kg dry	1	08/04/15	B5G3028	8081/8082	
11104-28-2	Aroclor 1221	ND	270	ug/kg dry	1	08/04/15	B5G3028	8081/8082	
11141-16-5	Aroclor 1232	ND	270	ug/kg dry	1	08/04/15	B5G3028	8081/8082	
53469-21-9	Aroclor 1242	ND	270	ug/kg dry	1	08/04/15	B5G3028	8081/8082	
12672-29-6	Aroclor 1248	ND	270	ug/kg dry	1	08/04/15	B5G3028	8081/8082	
11097-69-1	Aroclor 1254	ND	270	ug/kg dry	1	08/04/15	B5G3028	8081/8082	
11096-82-5	Aroclor 1260	ND	270	ug/kg dry	1	08/04/15	B5G3028	8081/8082	
37324-23-5	Aroclor 1262	ND	270	ug/kg dry	1	08/04/15	B5G3028	8081/8082	
11100-14-4	Aroclor 1268	ND	270	ug/kg dry	1	08/04/15	B5G3028	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			84.5 %	30-150		08/04/15	B5G3028	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			77.0 %	30-150		08/04/15	B5G3028	8081/8082	
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	73.9	0.1	%	1	07/17/15	B5G1710	2540 B	
57-12-5	Total Cyanide	0.14	0.14	mg/kg dry	1	07/27/15	B5G2216	ASTM D7284	
<b>Inorganics-Metals</b>									
7429-90-5	Aluminium	8000	100	mg/kg dry	1000	07/29/15	B5G2401	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	07/23/15	B5G2111	6020/200.8	
7440-38-2	Arsenic	1.2	0.5	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-39-3	Barium	18	1.0	mg/kg dry	10	07/29/15	B5G2401	6020/200.8	
7440-41-7	Beryllium	0.4	0.2	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-47-3	Chromium	18	2.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-48-4	Cobalt	9.7	0.5	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-50-8	Copper	200	1.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7439-89-6	Iron	17000	5.0	mg/kg dry	10	07/28/15	B5G2401	6010/200.7	
7439-92-1	Lead	4.3	1.0	mg/kg dry	10	07/29/15	B5G2401	6020/200.8	
7439-93-2	Lithium	7.0	0.2	mg/kg dry	1	07/28/15	B5G2401	6010/200.7	
7439-95-4	Magnesium	6900	50	mg/kg dry	10	07/28/15	B5G2401	6010/200.7	
7439-96-5	Manganese	210	1.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7439-97-6	Mercury	ND	0.07	mg/kg dry	1	07/30/15	B5G2905	7471/245.5	
7440-02-0	Nickel	18	1.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7782-49-2	Selenium	ND	0.2	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-22-4	Silver	0.4	0.1	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-32-6	Titanium	1600	1.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-66-6	Zinc	40	1.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	



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Client ID: CHTC-SD-10-1-3'

Lab ID: 1507176-12

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Semivolatiles</b>									<b>See note Y20</b>
91-57-6	2-Methylnaphthalene	ND	1600	ug/kg dry	1	07/23/15	B5G1736	8270	
83-32-9	Acenaphthene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
208-96-8	Acenaphthylene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
120-12-7	Anthracene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
56-55-3	Benz[a]anthracene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
50-32-8	Benzo[a]pyrene	ND	1300	ug/kg dry	1	07/23/15	B5G1736	8270	
205-99-2	Benzo[b]fluoranthene	ND	1300	ug/kg dry	1	07/23/15	B5G1736	8270	
191-24-2	Benzo[g,h,i]perylene	ND	1300	ug/kg dry	1	07/23/15	B5G1736	8270	
207-08-9	Benzo[k]fluoranthene	ND	1300	ug/kg dry	1	07/23/15	B5G1736	8270	
218-01-9	Chrysene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
53-70-3	Dibenz[a,h]anthracene	ND	1300	ug/kg dry	1	07/23/15	B5G1736	8270	
206-44-0	Fluoranthene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
86-73-7	Fluorene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	1300	ug/kg dry	1	07/23/15	B5G1736	8270	
91-20-3	Naphthalene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
85-01-8	Phenanthrene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
129-00-0	Pyrene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
<i>Surrogate: 2-Fluorobiphenyl</i>			52.1 %	32.9-115		07/23/15	B5G1736	8270	
<i>Surrogate: Nitrobenzene-d5</i>			52.4 %	31.8-115		07/23/15	B5G1736	8270	
<i>Surrogate: p-Terphenyl-d14</i>			88.5 %	38.5-115		07/23/15	B5G1736	8270	
<b>Organics-PCBs as Aroclors</b>									<b>See note Y20</b>
12674-11-2	Aroclor 1016	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11104-28-2	Aroclor 1221	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11141-16-5	Aroclor 1232	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
53469-21-9	Aroclor 1242	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
12672-29-6	Aroclor 1248	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11097-69-1	Aroclor 1254	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11096-82-5	Aroclor 1260	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
37324-23-5	Aroclor 1262	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11100-14-4	Aroclor 1268	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			75.4 %	30-150		08/05/15	B5G3028	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			60.2 %	30-150		08/05/15	B5G3028	8081/8082	



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Client ID: CHTC-SD-10-1-3'

Lab ID: 1507176-12

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	79.9	0.1	%	1	07/17/15	B5G1710	2540 B	



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Client ID: CHTC-SD-10-3'-4.75'

Lab ID: 1507176-13

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-PCBs as Aroclors</b>									<b>See note Y20</b>
12674-11-2	Aroclor 1016	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11104-28-2	Aroclor 1221	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11141-16-5	Aroclor 1232	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
53469-21-9	Aroclor 1242	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
12672-29-6	Aroclor 1248	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11097-69-1	Aroclor 1254	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11096-82-5	Aroclor 1260	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
37324-23-5	Aroclor 1262	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11100-14-4	Aroclor 1268	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			79.4 %	30-150		08/05/15	B5G3028	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			68.9 %	30-150		08/05/15	B5G3028	8081/8082	
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	71.3	0.1	%	1	07/17/15	B5G1710	2540 B	
57-12-5	Total Cyanide	ND	0.14	mg/kg dry	1	07/27/15	B5G2216	ASTM D7284	
<b>Inorganics-Metals</b>									
7429-90-5	Aluminium	16000	100	mg/kg dry	1000	07/29/15	B5G2401	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	07/23/15	B5G2111	6020/200.8	
7440-38-2	Arsenic	3.0	0.5	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-39-3	Barium	33	1.0	mg/kg dry	10	07/29/15	B5G2401	6020/200.8	
7440-41-7	Beryllium	0.5	0.2	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-47-3	Chromium	34	2.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-48-4	Cobalt	19	0.5	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-50-8	Copper	960	1.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7439-89-6	Iron	27000	5.0	mg/kg dry	10	07/28/15	B5G2401	6010/200.7	
7439-92-1	Lead	3.0	1.0	mg/kg dry	10	07/29/15	B5G2401	6020/200.8	
7439-93-2	Lithium	4.6	0.2	mg/kg dry	1	07/28/15	B5G2401	6010/200.7	
7439-95-4	Magnesium	14000	50	mg/kg dry	10	07/28/15	B5G2401	6010/200.7	
7439-96-5	Manganese	340	1.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7439-97-6	Mercury	ND	0.07	mg/kg dry	1	07/30/15	B5G2905	7471/245.5	
7440-02-0	Nickel	34	1.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7782-49-2	Selenium	ND	0.2	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-22-4	Silver	1.2	0.1	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-32-6	Titanium	3700	100	mg/kg dry	1000	07/29/15	B5G2401	6020/200.8	
7440-66-6	Zinc	68	1.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	





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Client ID: CHTC-SD-14-0-6"

Lab ID: 1507176-14

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-PCBs as Aroclors</b>									
<b>See note Y20</b>									
12674-11-2	Aroclor 1016	ND	330	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11104-28-2	Aroclor 1221	ND	330	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11141-16-5	Aroclor 1232	ND	330	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
53469-21-9	Aroclor 1242	ND	330	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
12672-29-6	Aroclor 1248	ND	330	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11097-69-1	Aroclor 1254	ND	330	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11096-82-5	Aroclor 1260	ND	330	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
37324-23-5	Aroclor 1262	ND	330	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11100-14-4	Aroclor 1268	ND	330	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			84.0 %	30-150		08/05/15	B5G3028	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			79.5 %	30-150		08/05/15	B5G3028	8081/8082	
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	60.9	0.1	%	1	07/17/15	B5G1710	2540 B	
57-12-5	Total Cyanide	ND	0.16	mg/kg dry	1	07/27/15	B5G2216	ASTM D7284	
<b>Inorganics-Metals</b>									
7429-90-5	Aluminium	15000	100	mg/kg dry	1000	07/29/15	B5G2401	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	07/23/15	B5G2111	6020/200.8	
7440-38-2	Arsenic	3.6	0.5	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-39-3	Barium	25	1.0	mg/kg dry	10	07/29/15	B5G2401	6020/200.8	
7440-41-7	Beryllium	0.5	0.2	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-47-3	Chromium	34	2.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-48-4	Cobalt	19	0.5	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-50-8	Copper	830	1.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7439-89-6	Iron	27000	5.0	mg/kg dry	10	07/28/15	B5G2401	6010/200.7	
7439-92-1	Lead	11	1.0	mg/kg dry	10	07/29/15	B5G2401	6020/200.8	
7439-93-2	Lithium	6.2	0.2	mg/kg dry	1	07/28/15	B5G2401	6010/200.7	
7439-95-4	Magnesium	15000	50	mg/kg dry	10	07/28/15	B5G2401	6010/200.7	
7439-96-5	Manganese	350	1.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7439-97-6	Mercury	ND	0.08	mg/kg dry	1	07/30/15	B5G2905	7471/245.5	
7440-02-0	Nickel	31	1.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7782-49-2	Selenium	ND	0.2	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-22-4	Silver	1.4	0.1	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	
7440-32-6	Titanium	3800	100	mg/kg dry	1000	07/29/15	B5G2401	6020/200.8	
7440-66-6	Zinc	84	1.0	mg/kg dry	10	07/28/15	B5G2401	6020/200.8	



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 FAX: (517) 335-9600

Client ID: CHTC-SD-14-1-2.75'

Lab ID: 1507176-15

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Semivolatiles</b>									
									<b>See note Y20</b>
91-57-6	2-Methylnaphthalene	ND	1600	ug/kg dry	1	07/23/15	B5G1736	8270	
83-32-9	Acenaphthene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
208-96-8	Acenaphthylene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
120-12-7	Anthracene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
56-55-3	Benz[a]anthracene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
50-32-8	Benzo[a]pyrene	ND	1300	ug/kg dry	1	07/23/15	B5G1736	8270	
205-99-2	Benzo[b]fluoranthene	ND	1300	ug/kg dry	1	07/23/15	B5G1736	8270	
191-24-2	Benzo[g,h,i]perylene	ND	1300	ug/kg dry	1	07/23/15	B5G1736	8270	
207-08-9	Benzo[k]fluoranthene	ND	1300	ug/kg dry	1	07/23/15	B5G1736	8270	
218-01-9	Chrysene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
53-70-3	Dibenz[a,h]anthracene	ND	1300	ug/kg dry	1	07/23/15	B5G1736	8270	
206-44-0	Fluoranthene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
86-73-7	Fluorene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	1300	ug/kg dry	1	07/23/15	B5G1736	8270	
91-20-3	Naphthalene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
85-01-8	Phenanthrene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
129-00-0	Pyrene	ND	630	ug/kg dry	1	07/23/15	B5G1736	8270	
<i>Surrogate: 2-Fluorobiphenyl</i>			52.7 %	32.9-115		07/23/15	B5G1736	8270	
<i>Surrogate: Nitrobenzene-d5</i>			50.4 %	31.8-115		07/23/15	B5G1736	8270	
<i>Surrogate: p-Terphenyl-d14</i>			81.1 %	38.5-115		07/23/15	B5G1736	8270	
<b>Organics-PCBs as Aroclors</b>									
									<b>See note Y20</b>
12674-11-2	Aroclor 1016	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11104-28-2	Aroclor 1221	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11141-16-5	Aroclor 1232	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
53469-21-9	Aroclor 1242	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
12672-29-6	Aroclor 1248	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11097-69-1	Aroclor 1254	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11096-82-5	Aroclor 1260	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
37324-23-5	Aroclor 1262	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11100-14-4	Aroclor 1268	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			82.9 %	30-150		08/05/15	B5G3028	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			69.8 %	30-150		08/05/15	B5G3028	8081/8082	



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**Client ID: CHTC-SD-14-1-2.75'**

**Lab ID: 1507176-15**

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	78.9	0.1	%	1	07/17/15	B5G1710	2540 B	



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Client ID: CHTC-SD-14-1-2.75' dup

Lab ID: 1507176-16

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-Semivolatiles</b>									
<b>See note Y20</b>									
91-57-6	2-Methylnaphthalene	ND	1500	ug/kg dry	1	07/23/15	B5G1736	8270	
83-32-9	Acenaphthene	ND	620	ug/kg dry	1	07/23/15	B5G1736	8270	
208-96-8	Acenaphthylene	ND	620	ug/kg dry	1	07/23/15	B5G1736	8270	
120-12-7	Anthracene	ND	620	ug/kg dry	1	07/23/15	B5G1736	8270	
56-55-3	Benz[a]anthracene	ND	620	ug/kg dry	1	07/23/15	B5G1736	8270	
50-32-8	Benzo[a]pyrene	ND	1200	ug/kg dry	1	07/23/15	B5G1736	8270	
205-99-2	Benzo[b]fluoranthene	ND	1200	ug/kg dry	1	07/23/15	B5G1736	8270	
191-24-2	Benzo[g,h,i]perylene	ND	1200	ug/kg dry	1	07/23/15	B5G1736	8270	
207-08-9	Benzo[k]fluoranthene	ND	1200	ug/kg dry	1	07/23/15	B5G1736	8270	
218-01-9	Chrysene	ND	620	ug/kg dry	1	07/23/15	B5G1736	8270	
53-70-3	Dibenz[a,h]anthracene	ND	1200	ug/kg dry	1	07/23/15	B5G1736	8270	
206-44-0	Fluoranthene	ND	620	ug/kg dry	1	07/23/15	B5G1736	8270	
86-73-7	Fluorene	ND	620	ug/kg dry	1	07/23/15	B5G1736	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	1200	ug/kg dry	1	07/23/15	B5G1736	8270	
91-20-3	Naphthalene	ND	620	ug/kg dry	1	07/23/15	B5G1736	8270	
85-01-8	Phenanthrene	ND	620	ug/kg dry	1	07/23/15	B5G1736	8270	
129-00-0	Pyrene	ND	620	ug/kg dry	1	07/23/15	B5G1736	8270	
<i>Surrogate: 2-Fluorobiphenyl</i>			52.3 %	32.9-115		07/23/15	B5G1736	8270	
<i>Surrogate: Nitrobenzene-d5</i>			45.0 %	31.8-115		07/23/15	B5G1736	8270	
<i>Surrogate: p-Terphenyl-d14</i>			87.7 %	38.5-115		07/23/15	B5G1736	8270	
<b>Organics-PCBs as Aroclors</b>									
<b>See note Y20</b>									
12674-11-2	Aroclor 1016	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11104-28-2	Aroclor 1221	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11141-16-5	Aroclor 1232	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
53469-21-9	Aroclor 1242	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
12672-29-6	Aroclor 1248	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11097-69-1	Aroclor 1254	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11096-82-5	Aroclor 1260	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
37324-23-5	Aroclor 1262	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11100-14-4	Aroclor 1268	ND	250	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			86.0 %	30-150		08/05/15	B5G3028	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			73.7 %	30-150		08/05/15	B5G3028	8081/8082	



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FAX: (517) 335-9600

**Client ID: CHTC-SD-14-1-2.75' dup**

**Lab ID: 1507176-16**

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	81.2	0.1	%	1	07/17/15	B5G1710	2540 B	



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**Client ID: CHTC-SD-13-0-6"**

**Lab ID: 1507176-17**

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-PCBs as Aroclors</b>									<b>See note Y20</b>
12674-11-2	Aroclor 1016	ND	340	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11104-28-2	Aroclor 1221	ND	340	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11141-16-5	Aroclor 1232	ND	340	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
53469-21-9	Aroclor 1242	ND	340	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
12672-29-6	Aroclor 1248	ND	340	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11097-69-1	Aroclor 1254	ND	340	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11096-82-5	Aroclor 1260	ND	340	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
37324-23-5	Aroclor 1262	ND	340	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11100-14-4	Aroclor 1268	ND	340	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			87.4 %	30-150		08/05/15	B5G3028	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			73.3 %	30-150		08/05/15	B5G3028	8081/8082	
<b>Inorganics-General Chemistry</b>									
TS	<b>% Total Solids</b>	<b>59.4</b>	0.1	%	1	07/17/15	B5G1710	2540 B	



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Client ID: CHTC-SD-13-1-3'

Lab ID: 1507176-18

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-PCBs as Aroclors</b>									<b>See note Y20</b>
12674-11-2	Aroclor 1016	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11104-28-2	Aroclor 1221	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11141-16-5	Aroclor 1232	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
53469-21-9	Aroclor 1242	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
12672-29-6	Aroclor 1248	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11097-69-1	Aroclor 1254	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11096-82-5	Aroclor 1260	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
37324-23-5	Aroclor 1262	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11100-14-4	Aroclor 1268	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			82.1 %	30-150		08/05/15	B5G3028	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			71.1 %	30-150		08/05/15	B5G3028	8081/8082	
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	72.3	0.1	%	1	07/17/15	B5G1710	2540 B	



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**Client ID: CHTC-SD-13-3-5'**

**Lab ID: 1507176-19**

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-PCBs as Aroclors</b>									<b>See note Y20</b>
12674-11-2	Aroclor 1016	ND	270	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11104-28-2	Aroclor 1221	ND	270	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11141-16-5	Aroclor 1232	ND	270	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
53469-21-9	Aroclor 1242	ND	270	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
12672-29-6	Aroclor 1248	ND	270	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11097-69-1	Aroclor 1254	ND	270	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11096-82-5	Aroclor 1260	ND	270	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
37324-23-5	Aroclor 1262	ND	270	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11100-14-4	Aroclor 1268	ND	270	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			84.8 %	30-150		08/05/15	B5G3028	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			73.0 %	30-150		08/05/15	B5G3028	8081/8082	
<b>Inorganics-General Chemistry</b>									
TS	<b>% Total Solids</b>	<b>73.3</b>	0.1	%	1	07/17/15	B5G1710	2540 B	





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Client ID: CHTC-SD-07-0-6"

Lab ID: 1507176-20

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
<b>Organics-PCBs as Aroclors</b>									<b>See note Y20</b>
12674-11-2	Aroclor 1016	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11104-28-2	Aroclor 1221	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11141-16-5	Aroclor 1232	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
53469-21-9	Aroclor 1242	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
12672-29-6	Aroclor 1248	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11097-69-1	Aroclor 1254	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11096-82-5	Aroclor 1260	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
37324-23-5	Aroclor 1262	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
11100-14-4	Aroclor 1268	ND	280	ug/kg dry	1	08/05/15	B5G3028	8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>			82.3 %	30-150		08/05/15	B5G3028	8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>			67.0 %	30-150		08/05/15	B5G3028	8081/8082	
<b>Inorganics-General Chemistry</b>									
TS	% Total Solids	70.3	0.1	%	1	07/17/15	B5G1710	2540 B	



# Analysis Request Sheet

Lab Work Order Number <b>1507176</b>	Project Name <b>Abandoned Mining Wastes - Torch Lake PCB C&amp;H Tamarack City Ops</b>	Matrix <b>SEDIMENT</b>
Site Code/Project Number <b>31000098</b>	AT <b>13</b>	CC Email 1 <b>j.binkley@westonsolutions.com</b>
Dept-Division-District <b>DEQ-RRD-UP District</b>	Index <b>44251</b>	CC Email 2 <b>daniel.liebau@westonsolutions.com</b>
State Project Manager <b>Amy Keranen</b>	PCA <b>30872</b>	CC Email 3 <b>plncumbel@michigan.gov</b>
State Project Manager Email <b>keranena@michigan.gov</b>	Project <b>456990</b>	Overflow Lab Choice 1 <b>no</b>
State Project Manager Phone <b>906-337-0389</b>	Phase <b>00</b>	Overflow Lab Choice 2
		Project IAT Days
		Project Due Date
		Sample Collector <b>AK/JP/AB-DEQ-RRD</b> <b>(DP)</b>
		Sample Collector Phone <b>906-337-0389</b>
		Contract Firm <b>Weston Solutions</b>
		Contract Firm Primary Contact <b>Jeff Binkley</b>
		Primary Contact Phone <b>906-523-5457</b>
		Accept Analysis hold time codes

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
01	CHTC-SD19-0-6"	7/10/15	0945	1	
02	CHTC-SD19-1-3'	↓	0950	1	
03	CHTC-SD19-3-4.75'		0955	1	
04	CHTC-SD15-0-6"		1210	1	
05	CHTC-SD15-1-3'		1215	1	
06	CHTC-SD15-3-4.75' 4.33' dc		1220	1	
07	CHTC-SD11-0-6"		1430	1	
08	CHTC-SD11-1-3'		1435	1	
09	CHTC-SD11-3-5'		1435	1	
10	CHTC-SD10-3-4.75 dup		1600	1	

ORGANIC CHEMISTRY	METALS CHEMISTRY PACKAGES	MS - TOTAL METALS	GENERAL CHEMISTRY
<b>VOA - Volatile Organic Acidic</b> Volatiles - Full List 1 2 3 4 5 6 7 8 9 10 BTEX/MTBE/TMB only 1 2 3 4 5 6 7 8 9 10 Chlorinated only 1 2 3 4 5 6 7 8 9 10 GRO 1 2 3 4 5 6 7 8 9 10 1,4 Dioxane 1 2 3 4 5 6 7 8 9 10  <b>OS - Pesticides, PCBs</b> Pesticides & PCBs 1 2 3 4 5 6 7 8 9 10 Pesticides only 1 2 3 4 5 6 7 8 9 10 PCBs only 1 2 3 4 5 6 7 8 9 10 Toxaphene 1 2 3 4 5 6 7 8 9 10  <b>BNA - Base Neutral Acids</b> BNAs 1 2 3 4 5 6 7 8 9 10 PNAs only 1 2 3 4 5 6 7 8 9 10 BNs only 1 2 3 4 5 6 7 8 9 10  <b>Organic Specialty Requests</b> Library search - Volatiles 1 2 3 4 5 6 7 8 9 10 Library search - SemiVols 1 2 3 4 5 6 7 8 9 10 Finger Print 1 2 3 4 5 6 7 8 9 10 DRO /ORO 1 2 3 4 5 6 7 8 9 10	<b>OpMemo2 - Total</b> 1 2 3 4 5 6 7 8 9 10 (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn) <b>Michigan10 - Total</b> 1 2 3 4 5 6 7 8 9 10 (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	<b>Silver - Ag</b> 1 2 3 4 5 6 7 8 9 10 <b>Aluminum - Al</b> 1 2 3 4 5 6 7 8 9 10 <b>Arsenic - As</b> 1 2 3 4 5 6 7 8 9 10 <b>Barium - Ba</b> 1 2 3 4 5 6 7 8 9 10 <b>Beryllium - Be</b> 1 2 3 4 5 6 7 8 9 10 <b>Cadmium - Cd</b> 1 2 3 4 5 6 7 8 9 10 <b>Cobalt - Co</b> 1 2 3 4 5 6 7 8 9 10 <b>Chromium - Cr</b> 1 2 3 4 5 6 7 8 9 10 <b>Copper - Cu</b> 1 2 3 4 5 6 7 8 9 10 <b>Iron - Fe</b> 1 2 3 4 5 6 7 8 9 10 <b>Mercury - Hg</b> 1 2 3 4 5 6 7 8 9 10 <b>Lithium - Li</b> 1 2 3 4 5 6 7 8 9 10 <b>Manganese - Mn</b> 1 2 3 4 5 6 7 8 9 10 <b>Molybdenum - Mo</b> 1 2 3 4 5 6 7 8 9 10 <b>Nickel - Ni</b> 1 2 3 4 5 6 7 8 9 10 <b>Lead - Pb</b> 1 2 3 4 5 6 7 8 9 10 <b>Antimony - Sb</b> 1 2 3 4 5 6 7 8 9 10 <b>Selenium - Se</b> 1 2 3 4 5 6 7 8 9 10 <b>Strontium - Sr</b> 1 2 3 4 5 6 7 8 9 10 <b>Titanium - Ti</b> 1 2 3 4 5 6 7 8 9 10 <b>Thallium - Tl</b> 1 2 3 4 5 6 7 8 9 10 <b>Uranium - U</b> 1 2 3 4 5 6 7 8 9 10 <b>Vanadium - V</b> 1 2 3 4 5 6 7 8 9 10 <b>Zinc - Zn</b> 1 2 3 4 5 6 7 8 9 10 <b>Calcium - Ca</b> 1 2 3 4 5 6 7 8 9 10 <b>Potassium - K</b> 1 2 3 4 5 6 7 8 9 10 <b>Magnesium - Mg</b> 1 2 3 4 5 6 7 8 9 10 <b>Sodium - Na</b> 1 2 3 4 5 6 7 8 9 10	<b>GS - General Chemistry</b> 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
Chain of Custody	Print Name & Org: <b>Dan Peabody</b>	<b>JES CHRISTENSEN, WESTON SOLUTIONS</b>	7/14/15
	Signature: <i>[Signature]</i>	<i>[Signature]</i>	0915
	Print Name & Org: <b>JES CHRISTENSEN, WESTON SOLUTIONS</b>	<b>UPS</b>	7/14/15
	Signature: <i>[Signature]</i>		12:45
	Print Name & Org: <b>UPS</b>	<b>Melissa Smith</b>	7/15/15 1200
	Signature: <i>[Signature]</i>	<i>[Signature]</i>	



# Analysis Request Sheet

Lab Work Order Number <b>1507176</b>	Project Name <b>Abandoned Mining Wastes - Torch Lake PCB C&amp;H Tamarack City Ops</b>	Matrix <b>SEDIMENT</b>
Site Code/Project Number <b>31000098</b>	AY <b>13</b>	CC Email 1 <b>lbinkley@westonsolutions.com</b>
Dept-Division-District <b>DEQ-RRD-UP District</b>	Index <b>44251</b>	CC Email 2 <b>daniel.hebau@westonsolutions.com</b>
State Project Manager <b>Amy Keranen</b>	PLA <b>30872</b>	CC Email 3 <b>plncumbel@michigan.gov</b>
State Project Manager Email <b>keranena@michigan.gov</b>	Project <b>456990</b>	Overflow Lab Choice 1 <b>no</b>
State Project Manager Phone <b>906-337-0389</b>	Phase <b>00</b>	Overflow Lab Choice 2 <b></b>
		Project IAT Days <b></b>
		Sample Collector <b>AK/JP/AB-DEQ-RRD DP</b>
		Sample Collector Phone <b>906-337-0389</b>
		Contract Firm <b>Weston Solutions</b>
		Contract Firm Primary Contact <b>Jeff Binkley</b>
		Primary Contact Phone <b>906-523-5457</b>

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	CHTC-SD10-0-6"	7/10/15	1545	1	
2	CHTC-SD10-1'-3'	7/10/15	1550	1	
3	CHTC-SD10-3'-4.75'	7/10/15	1600 BA 1555	1	
4	CHTC-SD14-0-6"	7/11/15	1720	1	
5	CHTC-SD14-1'-2.75'	}	1725	1	
6	CHTC-SD14-1-2.75' dup		1725	1	
7	CHTC-SD13-0-6"		1820	1	
8	CHTC-SD13-1'-3'		1825	1	
9	CHTC-SD13-3'-5'		1830	1	
10	CHTC-SD07-0-6"		1140	1	

ORGANIC CHEMISTRY	METALS CHEMISTRY PACKAGES	MS - TOTAL METALS	GENERAL CHEMISTRY
VOA - Volatile Organic Acidic Volatiles - Full List 1 2 3 4 5 6 7 8 9 10 BTEX/MTBE/TMB only 1 2 3 4 5 6 7 8 9 10 Chlorinated only 1 2 3 4 5 6 7 8 9 10 GRO 1 2 3 4 5 6 7 8 9 10 1,4 Dioxane 1 2 3 4 5 6 7 8 9 10  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 <b>1 2 3 4 5 6 7 8 9 10</b> 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 <b>1 2 3 4 5 6 7 8 9 10</b> 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 /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,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn) Michigan10 - Total 1 2 3 4 5 6 7 8 9 10 (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 <b>1 2 3 4 5 6 7 8 9 10</b> 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. <b>Dan Peabody</b>	<b>JED CHRISTENSEN, WESTON SOLUTIONS</b>	<b>7/14/15</b>
	Signature: <i>[Signature]</i>	<i>[Signature]</i>	<b>09:15</b>
	Print Name & Org. <b>JED CHRISTENSEN, WESTON SOLUTIONS</b>	<b>UPS</b>	<b>7/14/15</b>
Signature: <i>[Signature]</i>		<b>12:45</b>	
Print Name & Org. <b>UPS</b>	<b>Michelle Smith</b>	<b>7/15/15/200</b>	
Signature: <i>[Signature]</i>			