

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
ENVIRONMENTAL LABORATORY**

P.O. Box 302700  
Lansing, MI 489090  
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06 November 2014O

Work Order: 1410132O

Price: \$3,380.50O

Amy KeranenO  
MDEQ-RRD-UPO  
1504 W. Washington St.O  
Marquette, MI 49855O

RE: ABANDONED MINING WASTES-TORCH LAKE NSO

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

Sincerely, O

George KrisztianO  
Laboratory DirectorO



MDEQ-RRD-UPb  
 1500 W. Washington St.b  
 Marquette MI, 49855b

Project:bABANDONED MINING WASTES-TORCH LAKE NSb  
 Site Code:b31000098b  
 Project Manager:bAmy Keranenb

**Reported:**  
 11/06/2014b

### Analytical Report for Samplesp

Sample IDp	Laboratory IDp	Matrixp	Date Sampledp	Date Receivedp	Qualiferp
CHLL-SS01-101514b	1410132-01b	Soil/Sedimentb	10/15/2014b	10/17/2014b	
CHLL-SS02-101514b	1410132-02b	Soil/Sedimentb	10/15/2014b	10/17/2014b	
CHLL-SS03-101514b	1410132-03	Soil/Sedimentb	10/15/2014b	10/17/2014b	
CHLL-SS04-101514b	1410132-04b	Soil/Sedimentb	10/15/2014b	10/17/2014b	
CHLL-SS05-101514b	1410132-05b	Soil/Sedimentb	10/15/2014b	10/17/2014b	
CHLL-SS06-101514b	1410132-06b	Soil/Sedimentb	10/15/2014b	10/17/2014b	
CHLL-SS07-101514b	1410132-07b	Soil/Sedimentb	10/15/2014b	10/17/2014b	
CHLL-WP01-101514b	1410132-08b	Soil/Sedimentb	10/15/2014b	10/17/2014b	
CHLL-WP02-101514b	1410132-09b	Soil/Sedimentb	10/15/2014b	10/17/2014b	
CHLL-WP03-101514b	1410132-10b	Soil/Sedimentb	10/15/2014b	10/17/2014b	
CHLL-RPM04-101514b	1410132-11b	Soil/Sedimentb	10/15/2014b	10/17/2014b	

### Notes and Definitions p

- Gb Result and reporting limit are estimated due to initial calibration standard criteria failure. b
- A02b Result is estimated due to high surrogate recovery. b
- A04b Result is estimated due to high matrix spike recovery. b
- A05b Result and reporting limit are estimated due to low continuing calibration standard criteria failure. b
- A06b Result is estimated due to high continuing calibration standard criteria failure. b
- A07b Result(s) and reporting limit(s) are estimated due to poor precision. b
- 100b Result is high due to Arochlor 1268 present in sample. b
- A11b Result is estimated due to high initial verification standard criteria failure. b
- Y21b Reporting Limits (RL) raised due to matrix interference. b
- JAb Result is estimated due to multiple Aroclors present. b
- Tb Reported value is less than the reporting limit (RL). Result is estimated.b
- Xb Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200 °C. 2-Methylnaphthalene & naphthalene b have boiling points above 200 °C and are better suited to analysis by methods 8270 & 625 as semivolatile organics.b
- X3 Spike recovery is not applicable due to large target analyte concentration in the source sample.b
- Y17b Probable petroleum product(s) present.b
- Y20b Reporting Limits (RL) raised due to matrix.b
- A09b Result is estimated due to high recovery of batch quality control.b
- NDb Indicates compound analyzed for but not detected b
- RLb Reporting Limit b
- NAb Not Applicable b
- dry Sample results reported on a dry weight basis b



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**Client ID: CHLL-SS01-101514p**

**Lab ID: 1410132-01p**

CAS # <sup>b</sup>	Analyte <sup>b</sup>	Result <sup>b</sup>	RL <sup>b</sup>	Units <sup>b</sup>	Dilution <sup>b</sup>	Analyzed b Date <sup>b</sup>	QC Batch <sup>b</sup>	Method <sup>b</sup>	Qualifier <sup>b</sup>
<b>Organics-PCBs as Aroclors<sup>p</sup></b>									
12674-11-2b	Aroclor 1016b	ND <sup>b</sup>	1400b	ug/kg dry <sup>b</sup>	10b	10/29/14b	B4J2014b	8081/8082b	Y21b
11104-28-2b	Aroclor 1221b	ND <sup>b</sup>	1400b	ug/kg dry <sup>b</sup>	10b	10/29/14b	B4J2014b	8081/8082b	Y21b
11141-16-5b	Aroclor 1232b	ND <sup>b</sup>	1400b	ug/kg dry <sup>b</sup>	10b	10/29/14b	B4J2014b	8081/8082b	Y21b
53469-21-9b	Aroclor 1242b	ND <sup>b</sup>	1400b	ug/kg dry <sup>b</sup>	10b	10/29/14b	B4J2014b	8081/8082b	Y21b
12672-29-6b	Aroclor 1248b	ND <sup>b</sup>	1400b	ug/kg dry <sup>b</sup>	10b	10/29/14b	B4J2014b	8081/8082b	Y21b
11097-69-1b	<b>Aroclor 1254p</b>	<b>2200p</b>	1300b	ug/kg dry <sup>b</sup>	10b	10/29/14b	B4J2014b	8081/8082b	JAb
11096-82-5b	<b>Aroclor 1260p</b>	<b>4300p</b>	1300b	ug/kg dry <sup>b</sup>	10b	10/29/14b	B4J2014b	8081/8082b	JAb
37324-23-5b	Aroclor 1262b	ND <sup>b</sup>	4400b	ug/kg dry <sup>b</sup>	10b	10/29/14b	B4J2014b	8081/8082b	Y21b
11100-14-4b	<b>Aroclor 1268p</b>	<b>2600p</b>	1300b	ug/kg dry <sup>b</sup>	10b	10/29/14b	B4J2014b	8081/8082b	JAb
<i>Surrogate: Decachlorobiphenyl3</i>		187 % <sup>3</sup>	<i>0-1503</i>		10/29/143	B4J2014	8081/80823	100	
<i>Surrogate: Tetrachloro-m-xylene3</i>		86.8 % <sup>3</sup>	<i>0-1503</i>		10/29/143	B4J2014b	8081/80823		
<b>Inorganics-General Chemistry<sup>p</sup></b>									
TS <sup>b</sup>	% Total Solid <sup>dsp</sup>	<b>78.9p</b>	0.1b	% <sup>b</sup>	1b	10/17/14b	B4J1714b	2540 Bb	



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Client ID: CHLL-SS02-101514p

Lab ID: 1410132-02p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
<b>Organics-PCBs as Aroclors</b>									
12674-11-2b	Aroclor 1016b	NDb	260b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	Y21b
11104-28-2b	Aroclor 1221b	NDb	260b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	Y21b
11141-16-5b	Aroclor 1232b	NDb	260b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	Y21b
53469-21-9b	Aroclor 1242b	NDb	260b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	Y21b
12672-29-6b	Aroclor 1248b	NDb	260b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	Y21b
11097-69-1b	<b>Aroclor 1254p</b>	<b>270p</b>	110b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	JAb
11096-82-5b	<b>Aroclor 1260p</b>	<b>300p</b>	110b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	JAb
37324-23-5b	Aroclor 1262b	NDb	310b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	Y21b
11100-14-4b	Aroclor 1268b	NDb	260b	ug/kg dryb	1b	10/24/14b	B4J2014	8081/8082b	Y21b
<i>Surrogate: Decachlorobiphenyl3</i>		90.7 %3	<i>0-1503</i>		10/24/143	B4J2014	8081/80823		
<i>Surrogate: Tetrachloro-m-xylene3</i>		67.3 %3	<i>0-1503</i>		10/24/143	B4J2014b	8081/80823		
<b>Inorganics-General Chemistryp</b>									
TSb	% Total Solidsp	90.8p	0.1b	%b	1b	10/17/14b	B4J1715b	2540 Bb	



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**Client ID: CHLL-SS03-101514p**

**Lab ID: 1410132-03p**

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
<b>Organics-PCBs as Aroclorsp</b>									
12674-11-2b	Aroclor 1016b	NDb	220b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	Y21b
11104-28-2b	Aroclor 1221b	NDb	220b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	Y21b
11141-16-5b	Aroclor 1232b	NDb	220b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	Y21b
53469-21-9b	Aroclor 1242b	NDb	220b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	Y21b
12672-29-6b	Aroclor 1248b	NDb	220b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	Y21b
11097-69-1b	<b>Aroclor 1254p</b>	<b>210p</b>	120b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	JAb
11096-82-5b	<b>Aroclor 1260p</b>	<b>260p</b>	120b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	JAb
37324-23-5b	Aroclor 1262b	NDb	270b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	Y21b
11100-14-4b	Aroclor 1268b	NDb	180b	ug/kg dryb	1b	10/24/14b	B4J2014	8081/8082b	Y21b
<i>Surrogate: Decachlorobiphenyl3</i>		90.3 %3		0-1503		10/24/143	B4J2014	8081/80823	
<i>Surrogate: Tetrachloro-m-xylene3</i>		71.2 %3		0-1503		10/24/143	B4J2014b	8081/80823	
<b>Inorganics-General Chemistryp</b>									
TSb	<b>% Total Solidsp</b>	<b>86.6p</b>	0.1b	%b	1b	10/17/14b	B4J1715b	2540 Bb	



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**Client ID: CHLL-SS04-101514p**

**Lab ID: 1410132-04p**

CAS # <sup>b</sup>	Analyte <sup>b</sup>	Result <sup>b</sup>	RL <sup>b</sup>	Units <sup>b</sup>	Dilution <sup>b</sup>	Analyzed <sup>b</sup> Date <sup>b</sup>	QC Batch <sup>b</sup>	Method <sup>b</sup>	Qualifier <sup>b</sup>
<b>Organics-Volatiles<sup>p</sup></b>									
630-20-6b	1,1,1,2-Tetrachloroethane <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
71-55-6b	1,1,1-Trichloroethane <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
79-34-5b	1,1,2,2-Tetrachloroethane <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
79-00-5b	1,1,2-Trichloroethane <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
75-34-3	1,1-Dichloroethane <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
75-35-4b	1,1-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
87-61-6b	1,2,3-Trichlorobenzene <sup>b</sup>	ND <sup>b</sup>	370 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
96-18-4b	1,2,3-Trichloropropane <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
526-73-8b	1,2,3-Trimethylbenzene <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
120-82-1b	1,2,4-Trichlorobenzene <sup>b</sup>	ND <sup>b</sup>	370 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
95-63-6b	1,2,4-Trimethylbenzene <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
96-12-8b	1,2-Dibromo-3-chloropropane <sup>b</sup>	ND <sup>b</sup>	370 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
106-93-4b	1,2-Dibromoethane <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
95-50-1b	1,2-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
107-06-2b	1,2-Dichloroethane <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
78-87-5b	1,2-Dichloropropane <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
108-67-8b	<b>1,3,5-Trimethylbenzenep</b>	<b>70p</b>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	A02, Tb
541-73-1b	1,3-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
106-46-7b	1,4-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
78-93-3	2-Butanone (MEK) <sup>b</sup>	ND <sup>b</sup>	370 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
591-78-6b	2-Hexanone <sup>b</sup>	ND <sup>b</sup>	370 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
91-57-6b	2-Methylnaphthalene <sup>b</sup>	ND <sup>b</sup>	370 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	Xb
67-64-1b	2-Propanone (acetone) <sup>b</sup>	ND <sup>b</sup>	1500 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	Gb
108-10-1b	4-Methyl-2-pentanone (MIBK) <sup>b</sup>	ND <sup>b</sup>	370 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
107-13-1b	Acrylonitrile <sup>b</sup>	ND <sup>b</sup>	370 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
71-43-2b	Benzene <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
108-86-1b	Bromobenzene <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
74-97-5b	Bromochloromethane <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
75-27-4b	Bromodichloromethane <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
75-25-2b	Bromoform <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
74-83-9b	Bromomethane <sup>b</sup>	ND <sup>b</sup>	370 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
75-15-0b	Carbon disulfide <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
56-23-5b	Carbon tetrachloride <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
108-90-7b	Chlorobenzene <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
75-00-3	Chloroethane <sup>b</sup>	ND <sup>b</sup>	370 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
67-66-3	Chloroform <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
74-87-3	Chloromethane <sup>b</sup>	ND <sup>b</sup>	370 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
156-59-2b	cis-1,2-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
10061-01-5b	cis-1,3-Dichloropropylene <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
110-82-7b	Cyclohexane <sup>b</sup>	ND <sup>b</sup>	370 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
124-48-1b	Dibromochloromethane <sup>b</sup>	ND <sup>b</sup>	74 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	



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ENVIRONMENTAL LABORATORYC**

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**Client ID: CHLL-SS04-101514p**

**Lab ID: 1410132-04p**

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
<b>Organics-Volatilesp</b>									
74-95-3	Dibromomethaneb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	370b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
60-29-7b	Diethyl etherb	NDb	370b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
108-20-3	Diisopropyl Etherb	NDb	370b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
100-41-4b	Ethylbenzeneb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
637-92-3	Ethyltertiarybutyletherb	NDb	370b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
67-72-1b	Hexachloroethaneb	NDb	370b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
98-82-8b	<b>Isopropylbenzenep</b>	<b>200p</b>	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	A02b
1330-20-7b	m & p - Xyleneb	NDb	150b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
74-88-4b	Methyl iodideb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-09-2b	Methylene chlorideb	NDb	370b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
91-20-3	Naphthaleneb	NDb	370b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
95-47-6b	o-Xyleneb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
99-87-6b	p-Isopropyl tolueneb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
100-42-5b	Styreneb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
98-06-6b	tert-Butylbenzeneb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	3700b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	370b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	370b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
108-88-3	Tolueneb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	A05b
10061-02-6b	trans-1,3-Dichloropropyleneb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
110-57-6b	trans-1,4-Dichloro-2-buteneb	NDb	370b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
79-01-6b	Trichloroethyleneb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-01-4b	Vinyl chlorideb	NDb	74b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
<i>Surrogate: Bromofluorobenzene3</i>		176 %3	40.3-1943		10/21/143	B4J2206b	82603		
<i>Surrogate: Dibromofluoromethane3</i>		254 %3	52.1-2173		10/21/143	B4J2206b	82603		
<i>Surrogate: Toluene-d83</i>		231 %3	55.4-1963		10/21/143	B4J2206b	82603		



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**Lab ID: 1410132-04p**

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
<b>Organics-PCBs as Aroclors</b>									
12674-11-2b	Aroclor 1016b	NDb	120b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	120b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	120b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	120b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	
12672-29-6b	Aroclor 1248b	NDb	120b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	120b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	120b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	120b	ug/kg dryb	1b	10/24/14b	B4J2014b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	120b	ug/kg dryb	1b	10/24/14b	B4J2014	8081/8082b	
<i>Surrogate: Decachlorobiphenyl3</i>		106 %3	<i>0-1503</i>		10/24/143	B4J2014	8081/80823		
<i>Surrogate: Tetrachloro-m-xylene3</i>		77.2 %3	<i>0-1503</i>		10/24/143	B4J2014b	8081/80823		
<b>Inorganics-General Chemistry</b>									
TSb	% Total Solidsp	82.6p	0.1b	%b	1b	10/17/14b	B4J1715b	2540 Bb	
<b>Inorganics-Metals</b>									
7440-38-2b	<b>Arsenicp</b>	<b>4.2p</b>	0.5b	mg/kg dryb	10b	10/28/14b	B4J2302b	6020/200.8b	
7440-39-3	<b>Bariump</b>	<b>37p</b>	1.0b	mg/kg dryb	10b	10/28/14b	B4J2302b	6020/200.8b	
7440-50-8b	<b>Copperp</b>	<b>850p</b>	1.0b	mg/kg dryb	10b	10/28/14b	B4J2302b	6020/200.8b	
7439-92-1b	<b>Leadp</b>	<b>22p</b>	1.0b	mg/kg dryb	10b	10/28/14b	B4J2302b	6020/200.8b	
7439-96-5b	<b>Manganese</b>	<b>72p</b>	10b	mg/kg dryb	100b	10/29/14b	B4J2302b	6020/200.8b	

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CAS # <sup>b</sup>	Analyte <sup>b</sup>	Result <sup>b</sup>	RL <sup>b</sup>	Units <sup>b</sup>	Dilution <sup>b</sup>	Analyzed Date <sup>b</sup>	QC Batch <sup>b</sup>	Method <sup>b</sup>	Qualifier <sup>b</sup>
<b>Organics-Volatiles<sup>p</sup></b>									
630-20-6b	1,1,1,2-Tetrachloroethane <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
71-55-6b	1,1,1-Trichloroethane <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
79-34-5b	1,1,2,2-Tetrachloroethane <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
79-00-5b	1,1,2-Trichloroethane <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
75-34-3	1,1-Dichloroethane <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
75-35-4b	1,1-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
87-61-6b	1,2,3-Trichlorobenzene <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
96-18-4b	1,2,3-Trichloropropane <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
526-73-8b	1,2,3-Trimethylbenzene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
120-82-1b	1,2,4-Trichlorobenzene <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
95-63-6b	<b>1,2,4-Trimethylbenzene<sup>p</sup></b>	<b>88p</b>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	A02, Tb
96-12-8b	1,2-Dibromo-3-chloropropane <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
106-93-4b	1,2-Dibromoethane <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
95-50-1b	1,2-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
107-06-2b	1,2-Dichloroethane <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
78-87-5b	1,2-Dichloropropane <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
108-67-8b	1,3,5-Trimethylbenzene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
541-73-1b	1,3-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
106-46-7b	1,4-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
78-93-3	2-Butanone (MEK) <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
591-78-6b	2-Hexanone <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
91-57-6b	2-Methylnaphthalene <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	Xb
67-64-1b	2-Propanone (acetone) <sup>b</sup>	ND <sup>b</sup>	1800 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	Gb
108-10-1b	4-Methyl-2-pentanone (MIBK) <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
107-13-1b	Acrylonitrile <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
71-43-2b	Benzene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
108-86-1b	Bromobenzene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
74-97-5b	Bromochloromethane <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
75-27-4b	Bromodichloromethane <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
75-25-2b	Bromoform <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
74-83-9b	Bromomethane <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
75-15-0b	Carbon disulfide <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
56-23-5b	Carbon tetrachloride <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
108-90-7b	Chlorobenzene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
75-00-3	Chloroethane <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
67-66-3	Chloroform <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
74-87-3	Chloromethane <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
156-59-2b	cis-1,2-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
10061-01-5b	cis-1,3-Dichloropropylene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
110-82-7b	Cyclohexane <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	
124-48-1b	Dibromochloromethane <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260 <sup>b</sup>	



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**Lab ID: 1410132-05p**

CAS # <sup>b</sup>	Analyte <sup>b</sup>	Result <sup>b</sup>	RL <sup>b</sup>	Units <sup>b</sup>	Dilution <sup>b</sup>	Analyzed <sup>b</sup> Date <sup>b</sup>	QC Batch <sup>b</sup>	Method <sup>b</sup>	Qualifier <sup>b</sup>
<b>Organics-Volatiles<sup>p</sup></b>									
74-95-3	Dibromomethane <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
75-71-8b	Dichlorodifluoromethane <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
60-29-7b	Diethyl ether <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
108-20-3	Diisopropyl Ether <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
100-41-4b	Ethylbenzene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
637-92-3	Ethyltertiarybutylether <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
67-72-1b	Hexachloroethane <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
98-82-8b	Isopropylbenzene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
1330-20-7b	m & p - Xylene <sup>b</sup>	ND <sup>b</sup>	180 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
74-88-4b	Methyl iodide <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
75-09-2b	Methylene chloride <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
1634-04-4b	Methyltertiarybutylether <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
91-20-3	Naphthalene <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	X <sup>b</sup>
104-51-8b	n-Butylbenzene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
103-65-1b	n-Propylbenzene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
95-47-6b	o-Xylene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
99-87-6b	p-Isopropyl toluene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
135-98-8b	sec-Butylbenzene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
100-42-5b	Styrene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
98-06-6b	tert-Butylbenzene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
75-65-0b	tertiary Butyl Alcohol <sup>b</sup>	ND <sup>b</sup>	4500 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
994-05-8b	tertiaryAmylmethylether <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
127-18-4b	Tetrachloroethylene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
109-99-9b	Tetrahydrofuran <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
108-88-3	Toluene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
156-60-5b	trans-1,2-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	A05b
10061-02-6b	trans-1,3-Dichloropropylene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
110-57-6b	trans-1,4-Dichloro-2-butene <sup>b</sup>	ND <sup>b</sup>	450 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
79-01-6b	Trichloroethylene <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
75-69-4b	Trichlorofluoromethane <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
75-01-4b	Vinyl chloride <sup>b</sup>	ND <sup>b</sup>	90 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
<i>Surrogate: Bromofluorobenzene3</i>			156 %3	40.3-1943		10/21/143	B4J2206 <sup>b</sup>	82603	
<i>Surrogate: Dibromofluoromethane3</i>			222 %3	52.1-2173		10/21/143	B4J2206 <sup>b</sup>	82603	
<i>Surrogate: Toluene-d83</i>			204 %3	55.4-1963		10/21/143	B4J2206 <sup>b</sup>	82603	



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**Client ID: CHLL-SS05-101514p**

**Lab ID: 1410132-05p**

CAS # <sup>b</sup>	Analyte <sup>b</sup>	Result <sup>b</sup>	RL <sup>b</sup>	Units <sup>b</sup>	Dilution <sup>b</sup>	Analyzed <sup>b</sup> Date <sup>b</sup>	QC Batch <sup>b</sup>	Method <sup>b</sup>	Qualifier <sup>b</sup>
<b>Organics-PCBs as Aroclors<sup>p</sup></b>									
12674-11-2b	Aroclor 1016b	ND <sup>b</sup>	110b	ug/kg dry <sup>b</sup>	1b	10/24/14b	B4J2014b	8081/8082b	
11104-28-2b	Aroclor 1221b	ND <sup>b</sup>	110b	ug/kg dry <sup>b</sup>	1b	10/24/14b	B4J2014b	8081/8082b	
11141-16-5b	Aroclor 1232b	ND <sup>b</sup>	110b	ug/kg dry <sup>b</sup>	1b	10/24/14b	B4J2014b	8081/8082b	
53469-21-9b	Aroclor 1242b	ND <sup>b</sup>	110b	ug/kg dry <sup>b</sup>	1b	10/24/14b	B4J2014b	8081/8082b	
12672-29-6b	Aroclor 1248b	ND <sup>b</sup>	110b	ug/kg dry <sup>b</sup>	1b	10/24/14b	B4J2014b	8081/8082b	
11097-69-1b	Aroclor 1254b	ND <sup>b</sup>	110b	ug/kg dry <sup>b</sup>	1b	10/24/14b	B4J2014b	8081/8082b	
11096-82-5b	Aroclor 1260b	ND <sup>b</sup>	110b	ug/kg dry <sup>b</sup>	1b	10/24/14b	B4J2014b	8081/8082b	
37324-23-5b	Aroclor 1262b	ND <sup>b</sup>	110b	ug/kg dry <sup>b</sup>	1b	10/24/14b	B4J2014b	8081/8082b	
11100-14-4b	Aroclor 1268b	ND <sup>b</sup>	110b	ug/kg dry <sup>b</sup>	1b	10/24/14b	B4J2014	8081/8082b	
<i>Surrogate: Decachlorobiphenyl3</i>		97.6 % <sup>3</sup>	<i>0-1503</i>		10/24/14	B4J2014	8081/80823		
<i>Surrogate: Tetrachloro-m-xylene3</i>		77.6 % <sup>3</sup>	<i>0-1503</i>		10/24/14	B4J2014b	8081/80823		
<b>Inorganics-General Chemistry<sup>p</sup></b>									
TS <sup>b</sup>	% Total Solid <sup>p</sup>	87.3p	0.1b	% <sup>b</sup>	1b	10/17/14b	B4J1715b	2540 Bb	
<b>Inorganics-Metals<sup>p</sup></b>									
7440-38-2b	<b>Arsenic<sup>p</sup></b>	<b>2.7p</b>	0.5b	mg/kg dry <sup>b</sup>	10b	10/28/14b	B4J2302b	6020/200.8b	
7440-39-3	<b>Barium<sup>p</sup></b>	<b>26p</b>	1.0b	mg/kg dry <sup>b</sup>	10b	10/28/14b	B4J2302b	6020/200.8b	
7440-50-8b	<b>Copper<sup>p</sup></b>	<b>180p</b>	10b	mg/kg dry <sup>b</sup>	100b	10/29/14b	B4J2302b	6020/200.8b	
7439-92-1b	<b>Lead<sup>p</sup></b>	<b>7.3p</b>	1.0b	mg/kg dry <sup>b</sup>	10b	10/28/14b	B4J2302b	6020/200.8b	
7439-96-5b	<b>Manganese<sup>p</sup></b>	<b>87p</b>	10b	mg/kg dry <sup>b</sup>	100b	10/29/14b	B4J2302b	6020/200.8b	



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**Client ID: CHLL-SS06-101514p**

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<b>Organics-Volatiles<sup>p</sup></b>									
630-20-6b	1,1,1,2-Tetrachloroethane <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
71-55-6b	1,1,1-Trichloroethane <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethane <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
79-00-5b	1,1,2-Trichloroethane <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
75-34-3	1,1-Dichloroethane <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
75-35-4b	1,1-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
87-61-6b	1,2,3-Trichlorobenzene <sup>b</sup>	ND <sup>b</sup>	470 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
96-18-4b	1,2,3-Trichloropropane <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
526-73-8b	1,2,3-Trimethylbenzene <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
120-82-1b	1,2,4-Trichlorobenzene <sup>b</sup>	ND <sup>b</sup>	470 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
95-63-6b	1,2,4-Trimethylbenzene <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropane <sup>b</sup>	ND <sup>b</sup>	470 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
106-93-4b	1,2-Dibromoethane <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
95-50-1b	1,2-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
107-06-2b	1,2-Dichloroethane <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
78-87-5b	1,2-Dichloropropane <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
108-67-8b	1,3,5-Trimethylbenzene <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
541-73-1b	1,3-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
106-46-7b	1,4-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
78-93-3	2-Butanone (MEK) <sup>b</sup>	ND <sup>b</sup>	470 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
591-78-6b	2-Hexanone <sup>b</sup>	ND <sup>b</sup>	470 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
91-57-6b	2-Methylnaphthalene <sup>b</sup>	ND <sup>b</sup>	470 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	Xb
67-64-1b	2-Propanone (acetone) <sup>b</sup>	ND <sup>b</sup>	1900 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	Gb
108-10-1b	4-Methyl-2-pentanone (MIBK) <sup>b</sup>	ND <sup>b</sup>	470 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
107-13-1b	Acrylonitrile <sup>b</sup>	ND <sup>b</sup>	470 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
71-43-2b	Benzene <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
108-86-1b	Bromobenzene <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
74-97-5b	Bromochloromethane <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
75-27-4b	Bromodichloromethane <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
75-25-2b	Bromoform <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
74-83-9b	Bromomethane <sup>b</sup>	ND <sup>b</sup>	470 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
75-15-0b	Carbon disulfide <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
56-23-5b	Carbon tetrachloride <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
108-90-7b	Chlorobenzene <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
75-00-3	Chloroethane <sup>b</sup>	ND <sup>b</sup>	470 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
67-66-3	Chloroform <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
74-87-3	Chloromethane <sup>b</sup>	ND <sup>b</sup>	470 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
156-59-2b	cis-1,2-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
10061-01-5b	cis-1,3-Dichloropropylene <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
110-82-7b	Cyclohexane <sup>b</sup>	ND <sup>b</sup>	470 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	
124-48-1b	Dibromochloromethane <sup>b</sup>	ND <sup>b</sup>	95 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206b	8260b	



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<b>Organics-Volatiles<sup>p</sup></b>									
74-95-3	Dibromomethane <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-71-8b	Dichlorodifluoromethane <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
60-29-7b	Diethyl ether <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
108-20-3	Diisopropyl Ether <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
100-41-4b	Ethylbenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
637-92-3	Ethyltertiarybutylether <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
67-72-1b	Hexachloroethane <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
98-82-8b	Isopropylbenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
1330-20-7b	m & p - Xylene <sup>b</sup>	ND <sup>b</sup>	190b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
74-88-4b	Methyl iodide <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-09-2b	Methylene chloride <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
1634-04-4b	Methyltertiarybutylether <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
91-20-3	Naphthalene <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	Xb
104-51-8b	n-Butylbenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
103-65-1b	n-Propylbenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
95-47-6b	o-Xylene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
99-87-6b	p-Isopropyl toluene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
135-98-8b	sec-Butylbenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
100-42-5b	Styrene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
98-06-6b	tert-Butylbenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-65-0b	tertiary Butyl Alcohol <sup>b</sup>	ND <sup>b</sup>	4700b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
994-05-8b	tertiaryAmylmethylether <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
127-18-4b	Tetrachloroethylene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
109-99-9b	Tetrahydrofuran <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
108-88-3	Toluene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
156-60-5b	trans-1,2-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	A05b
10061-02-6b	trans-1,3-Dichloropropylene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
110-57-6b	trans-1,4-Dichloro-2-butene <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
79-01-6b	Trichloroethylene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-69-4b	Trichlorofluoromethane <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-01-4b	Vinyl chloride <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
<i>Surrogate: Bromofluorobenzene<sup>3</sup></i>		139 % <sup>3</sup>	40.3-1943		10/21/143	B4J2206b	82603		
<i>Surrogate: Dibromofluoromethane<sup>3</sup></i>		198 % <sup>3</sup>	52.1-2173		10/21/143	B4J2206b	82603		
<i>Surrogate: Toluene-d8<sup>3</sup></i>		179 % <sup>3</sup>	55.4-1963		10/21/143	B4J2206b	82603		



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**Client ID: CHLL-SS06-101514p**

**Lab ID: 1410132-06p**

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
<b>Organics-PCBs as Aroclorsp</b>									
12674-11-2b	Aroclor 1016b	NDb	130b	ug/kg dryb	1b	10/24/14b	B4J2115b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	130b	ug/kg dryb	1b	10/24/14b	B4J2115b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	130b	ug/kg dryb	1b	10/24/14b	B4J2115b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	130b	ug/kg dryb	1b	10/24/14b	B4J2115b	8081/8082b	
12672-29-6b	Aroclor 1248b	NDb	130b	ug/kg dryb	1b	10/24/14b	B4J2115b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	130b	ug/kg dryb	1b	10/24/14b	B4J2115b	8081/8082b	
11096-82-5b	<b>Aroclor 1260p</b>	<b>120p</b>	130b	ug/kg dryb	1b	10/24/14b	B4J2115b	8081/8082b	Tb
37324-23-5b	Aroclor 1262b	NDb	130b	ug/kg dryb	1b	10/24/14b	B4J2115b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	130b	ug/kg dryb	1b	10/24/14b	B4J2115	8081/8082b	
<i>Surrogate: Decachlorobiphenyl3</i>		77.2 %3	<i>0-1503</i>		10/24/143	B4J2115	8081/80823		
<i>Surrogate: Tetrachloro-m-xylene3</i>		79.3 %3	<i>0-1503</i>		10/24/143	B4J2115b	8081/80823		
<b>Inorganics-General Chemistryp</b>									
TSb	<b>% Total Solidsp</b>	<b>78.1p</b>	0.1b	%b	1b	10/17/14b	B4J1715b	2540 Bb	
<b>Inorganics-Metalsp</b>									
7440-38-2b	<b>Arsenicp</b>	<b>15p</b>	0.5b	mg/kg dryb	10b	10/28/14b	B4J2302b	6020/200.8b	
7440-39-3	<b>Bariump</b>	<b>130p</b>	10b	mg/kg dryb	100b	10/29/14b	B4J2302b	6020/200.8b	
7440-50-8b	<b>Copperp</b>	<b>1500p</b>	1.0b	mg/kg dryb	10b	10/28/14b	B4J2302b	6020/200.8b	
7439-92-1b	<b>Leadp</b>	<b>87p</b>	10b	mg/kg dryb	100b	10/29/14b	B4J2302b	6020/200.8b	
7439-96-5b	<b>Manganesep</b>	<b>150p</b>	10b	mg/kg dryb	100b	10/29/14b	B4J2302b	6020/200.8b	



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**Client ID: CHLL-SS07-101514p**

**Lab ID: 1410132-07p**

CAS # <sup>b</sup>	Analyte <sup>b</sup>	Result <sup>b</sup>	RLb	Units <sup>b</sup>	Dilution <sup>b</sup>	Analyzed Date <sup>b</sup>	QC Batch <sup>b</sup>	Method <sup>b</sup>	Qualifier <sup>b</sup>
<b>Organics-Volatiles<sup>p</sup></b>									
630-20-6b	1,1,1,2-Tetrachloroethane <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
71-55-6b	1,1,1-Trichloroethane <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethane <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
79-00-5b	1,1,2-Trichloroethane <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-34-3	1,1-Dichloroethane <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-35-4b	1,1-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
87-61-6b	1,2,3-Trichlorobenzene <sup>b</sup>	ND <sup>b</sup>	730b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
96-18-4b	1,2,3-Trichloropropane <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
526-73-8b	1,2,3-Trimethylbenzene <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
120-82-1b	1,2,4-Trichlorobenzene <sup>b</sup>	ND <sup>b</sup>	730b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
95-63-6b	1,2,4-Trimethylbenzene <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropane <sup>b</sup>	ND <sup>b</sup>	730b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
106-93-4b	1,2-Dibromoethane <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
95-50-1b	1,2-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
107-06-2b	1,2-Dichloroethane <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
78-87-5b	1,2-Dichloropropane <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
108-67-8b	1,3,5-Trimethylbenzene <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
541-73-1b	1,3-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
106-46-7b	1,4-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
78-93-3	2-Butanone (MEK) <sup>b</sup>	ND <sup>b</sup>	730b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
591-78-6b	2-Hexanone <sup>b</sup>	ND <sup>b</sup>	730b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
91-57-6b	2-Methylnaphthalene <sup>b</sup>	ND <sup>b</sup>	730b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	Xb
67-64-1b	2-Propanone (acetone) <sup>b</sup>	ND <sup>b</sup>	2900b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	Gb
108-10-1b	4-Methyl-2-pentanone (MIBK) <sup>b</sup>	ND <sup>b</sup>	730b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
107-13-1b	Acrylonitrile <sup>b</sup>	ND <sup>b</sup>	730b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
71-43-2b	Benzene <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
108-86-1b	Bromobenzene <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
74-97-5b	Bromochloromethane <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-27-4b	Bromodichloromethane <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-25-2b	Bromoform <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
74-83-9b	Bromomethane <sup>b</sup>	ND <sup>b</sup>	730b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-15-0b	Carbon disulfide <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
56-23-5b	Carbon tetrachloride <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
108-90-7b	Chlorobenzene <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-00-3	Chloroethane <sup>b</sup>	ND <sup>b</sup>	730b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
67-66-3	Chloroform <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
74-87-3	Chloromethane <sup>b</sup>	ND <sup>b</sup>	730b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
156-59-2b	cis-1,2-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
10061-01-5b	cis-1,3-Dichloropropylene <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
110-82-7b	Cyclohexane <sup>b</sup>	ND <sup>b</sup>	730b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
124-48-1b	Dibromochloromethane <sup>b</sup>	ND <sup>b</sup>	150b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	



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**Lab ID: 1410132-07p**

CAS # <sup>b</sup>	Analyte <sup>b</sup>	Result <sup>b</sup>	RL <sup>b</sup>	Units <sup>b</sup>	Dilution <sup>b</sup>	Analyzed <sup>b</sup> Date <sup>b</sup>	QC Batch <sup>b</sup>	Method <sup>b</sup>	Qualifier <sup>b</sup>
<b>Organics-Volatiles<sup>p</sup></b>									
74-95-3	Dibromomethane <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
75-71-8b	Dichlorodifluoromethane <sup>b</sup>	ND <sup>b</sup>	730 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
60-29-7b	Diethyl ether <sup>b</sup>	ND <sup>b</sup>	730 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
108-20-3	Diisopropyl Ether <sup>b</sup>	ND <sup>b</sup>	730 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
100-41-4b	Ethylbenzene <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
637-92-3	Ethyltertiarybutylether <sup>b</sup>	ND <sup>b</sup>	730 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
67-72-1b	Hexachloroethane <sup>b</sup>	ND <sup>b</sup>	730 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
98-82-8b	Isopropylbenzene <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
1330-20-7b	m & p - Xylene <sup>b</sup>	ND <sup>b</sup>	290 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
74-88-4b	Methyl iodide <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
75-09-2b	Methylene chloride <sup>b</sup>	ND <sup>b</sup>	730 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
1634-04-4b	Methyltertiarybutylether <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
91-20-3	Naphthalene <sup>b</sup>	ND <sup>b</sup>	730 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	X <sup>b</sup>
104-51-8b	n-Butylbenzene <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
103-65-1b	n-Propylbenzene <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
95-47-6b	o-Xylene <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
99-87-6b	p-Isopropyl toluene <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
135-98-8b	sec-Butylbenzene <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
100-42-5b	Styrene <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
98-06-6b	tert-Butylbenzene <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
75-65-0b	tertiary Butyl Alcohol <sup>b</sup>	ND <sup>b</sup>	7300 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
994-05-8b	tertiaryAmylmethylether <sup>b</sup>	ND <sup>b</sup>	730 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
127-18-4b	Tetrachloroethylene <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
109-99-9b	Tetrahydrofuran <sup>b</sup>	ND <sup>b</sup>	730 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
108-88-3	Toluene <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
156-60-5b	trans-1,2-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	A05b
10061-02-6b	trans-1,3-Dichloropropylene <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
110-57-6b	trans-1,4-Dichloro-2-butene <sup>b</sup>	ND <sup>b</sup>	730 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
79-01-6b	Trichloroethylene <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
75-69-4b	Trichlorofluoromethane <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
75-01-4b	Vinyl chloride <sup>b</sup>	ND <sup>b</sup>	150 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/21/14 <sup>b</sup>	B4J2206 <sup>b</sup>	8260 <sup>b</sup>	
<i>Surrogate: Bromofluorobenzene3</i>		138 %3	40.3-1943		10/21/143	B4J2206 <sup>b</sup>	82603		
<i>Surrogate: Dibromofluoromethane3</i>		217 %3	52.1-2173		10/21/143	B4J2206 <sup>b</sup>	82603		
<i>Surrogate: Toluene-d83</i>		178 %3	55.4-1963		10/21/143	B4J2206 <sup>b</sup>	82603		



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**Client ID: CHLL-SS07-101514p**

**Lab ID: 1410132-07p**

CAS # <sup>b</sup>	Analyte <sup>b</sup>	Result <sup>b</sup>	RL <sup>b</sup>	Units <sup>b</sup>	Dilution <sup>b</sup>	Analyzed <sup>b</sup> Date <sup>b</sup>	QC Batch <sup>b</sup>	Method <sup>b</sup>	Qualifier <sup>b</sup>
<b>Organics-PCBs as Aroclors<sup>p</sup></b>									
12674-11-2b	Aroclor 1016b	ND <sup>b</sup>	340b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
11104-28-2b	Aroclor 1221b	ND <sup>b</sup>	340b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
11141-16-5b	Aroclor 1232b	ND <sup>b</sup>	340b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
53469-21-9b	Aroclor 1242b	ND <sup>b</sup>	340b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
12672-29-6b	Aroclor 1248b	ND <sup>b</sup>	340b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
11097-69-1b	<b>Aroclor 1254p</b>	<b>150p</b>	180b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115b	8081/8082b	JA, Tb
11096-82-5b	<b>Aroclor 1260p</b>	<b>210p</b>	180b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115b	8081/8082b	JAb
37324-23-5b	Aroclor 1262b	ND <sup>b</sup>	210b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
11100-14-4b	Aroclor 1268b	ND <sup>b</sup>	180b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115	8081/8082b	
<i>Surrogate: Decachlorobiphenyl3</i>		98.5 % <sup>3</sup>	<i>0-1503</i>		10/25/143	B4J2115	8081/80823		
<i>Surrogate: Tetrachloro-m-xylene3</i>		73.4 % <sup>3</sup>	<i>0-1503</i>		10/25/143	B4J2115b	8081/80823		

**Inorganics-General Chemistry<sup>p</sup>**

TS <sup>b</sup>	% Total Solid <sup>p</sup>	55.9p	0.1b	% <sup>b</sup>	1b	10/17/14b	B4J1715b	2540 Bb
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**Inorganics-Metals<sup>p</sup>**

7440-38-2b	<b>Arsenic<sup>p</sup></b>	<b>22p</b>	5.0b	mg/kg dry <sup>b</sup>	100b	10/29/14b	B4J2302b	6020/200.8b
7440-39-3	<b>Barium<sup>p</sup></b>	<b>610p</b>	1.0b	mg/kg dry <sup>b</sup>	10b	10/28/14b	B4J2302b	6020/200.8b
7440-50-8b	<b>Copper<sup>p</sup></b>	<b>2200p</b>	10b	mg/kg dry <sup>b</sup>	100b	10/29/14b	B4J2302b	6020/200.8b
7439-92-1b	<b>Lead<sup>p</sup></b>	<b>410p</b>	10b	mg/kg dry <sup>b</sup>	100b	10/29/14b	B4J2302b	6020/200.8b
7439-96-5b	<b>Manganese<sup>p</sup></b>	<b>340p</b>	10b	mg/kg dry <sup>b</sup>	100b	10/29/14b	B4J2302b	6020/200.8b



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**Client ID: CHLL-WP01-101514p**

**Lab ID: 1410132-08p**

CAS # <sup>b</sup>	Analyte <sup>b</sup>	Result <sup>b</sup>	RLb	Units <sup>b</sup>	Dilution <sup>b</sup>	Analyzed Date <sup>b</sup>	QC Batch <sup>b</sup>	Method <sup>b</sup>	Qualifier <sup>b</sup>
<b>Organics-Volatiles<sup>p</sup></b>									
630-20-6b	1,1,1,2-Tetrachloroethane <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
71-55-6b	1,1,1-Trichloroethane <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethane <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
79-00-5b	1,1,2-Trichloroethane <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-34-3	1,1-Dichloroethane <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-35-4b	1,1-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
87-61-6b	1,2,3-Trichlorobenzene <sup>b</sup>	ND <sup>b</sup>	310b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
96-18-4b	1,2,3-Trichloropropane <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
526-73-8b	1,2,3-Trimethylbenzene <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
120-82-1b	1,2,4-Trichlorobenzene <sup>b</sup>	ND <sup>b</sup>	310b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
95-63-6b	1,2,4-Trimethylbenzene <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropane <sup>b</sup>	ND <sup>b</sup>	310b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
106-93-4b	1,2-Dibromoethane <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
95-50-1b	1,2-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
107-06-2b	1,2-Dichloroethane <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
78-87-5b	1,2-Dichloropropane <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
108-67-8b	1,3,5-Trimethylbenzene <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
541-73-1b	1,3-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
106-46-7b	1,4-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
78-93-3	2-Butanone (MEK) <sup>b</sup>	ND <sup>b</sup>	310b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
591-78-6b	2-Hexanone <sup>b</sup>	ND <sup>b</sup>	310b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
91-57-6b	2-Methylnaphthalene <sup>b</sup>	ND <sup>b</sup>	310b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	Xb
67-64-1b	2-Propanone (acetone) <sup>b</sup>	ND <sup>b</sup>	1200b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	Gb
108-10-1b	4-Methyl-2-pentanone (MIBK) <sup>b</sup>	ND <sup>b</sup>	310b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
107-13-1b	Acrylonitrile <sup>b</sup>	ND <sup>b</sup>	310b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
71-43-2b	Benzene <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
108-86-1b	Bromobenzene <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
74-97-5b	Bromochloromethane <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-27-4b	Bromodichloromethane <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-25-2b	Bromoform <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
74-83-9b	Bromomethane <sup>b</sup>	ND <sup>b</sup>	310b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-15-0b	Carbon disulfide <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
56-23-5b	Carbon tetrachloride <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
108-90-7b	Chlorobenzene <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-00-3	Chloroethane <sup>b</sup>	ND <sup>b</sup>	310b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
67-66-3	Chloroform <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
74-87-3	Chloromethane <sup>b</sup>	ND <sup>b</sup>	310b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
156-59-2b	cis-1,2-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
10061-01-5b	cis-1,3-Dichloropropylene <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
110-82-7b	Cyclohexane <sup>b</sup>	ND <sup>b</sup>	310b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
124-48-1b	Dibromochloromethane <sup>b</sup>	ND <sup>b</sup>	62b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	



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**Lab ID: 1410132-08p**

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
<b>Organics-Volatilesp</b>									
74-95-3	Dibromomethaneb	NDb	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	310b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
60-29-7b	Diethyl etherb	NDb	310b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
108-20-3	Diisopropyl Etherb	NDb	310b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
100-41-4b	Ethylbenzeneb	NDb	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
637-92-3	Ethyltertiarybutyletherb	NDb	310b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
67-72-1b	Hexachloroethaneb	NDb	310b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	120b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
74-88-4b	Methyl iodideb	NDb	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-09-2b	Methylene chlorideb	NDb	310b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
91-20-3	Naphthaleneb	NDb	310b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
95-47-6b	<b>o-Xylene</b>	<b>61p</b>	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	Tb
99-87-6b	p-Isopropyl tolueneb	NDb	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
100-42-5b	Styreneb	NDb	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
98-06-6b	tert-Butylbenzeneb	NDb	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	3100b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	310b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	310b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
108-88-3	<b>Toluene</b>	<b>93p</b>	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	A05b
10061-02-6b	trans-1,3-Dichloropropyleneb	NDb	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
110-57-6b	trans-1,4-Dichloro-2-buteneb	NDb	310b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
79-01-6b	Trichloroethyleneb	NDb	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-01-4b	Vinyl chlorideb	NDb	62b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
<i>Surrogate: Bromofluorobenzene3</i>		127 %3	40.3-1943		10/21/143	B4J2206b	82603		
<i>Surrogate: Dibromofluoromethane3</i>		180 %3	52.1-2173		10/21/143	B4J2206b	82603		
<i>Surrogate: Toluene-d83</i>		167 %3	55.4-1963		10/21/143	B4J2206b	82603		



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**Client ID: CHLL-WP01-101514p**

**Lab ID: 1410132-08p**

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb	Dateb	QC Batchb	Methodb	Qualifierb
<b>Organics-Semivolatilesp</b>										
91-57-6b	2-Methylnaphthaleneb	NDb	560b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
83-32-9b	Acenaphtheneb	NDb	220b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
208-96-8b	Acenaphthyleneb	NDb	220b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
120-12-7b	Anthraceneb	NDb	220b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
56-55-3	Benz[a]anthraceneb	NDb	220b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
50-32-8b	Benzo[a]pyreneb	NDb	440b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
205-99-2b	Benzo[b]fluorantheneb	NDb	440b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	440b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
207-08-9b	Benzo[k]fluorantheneb	NDb	440b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
218-01-9b	Chryseneb	NDb	220b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
53-70-3	Dibenz[a,h]anthraceneb	NDb	440b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
206-44-0b	Fluorantheneb	NDb	220b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
86-73-7b	Fluoreneb	NDb	220b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	440b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
91-20-3	Naphthaleneb	NDb	220b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
85-01-8b	Phenanthreneb	NDb	220b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
129-00-0b	Pyreneb	NDb	220b	ug/kg dryb	1b	10/28/14b	B4J2215		8270b	
<i>Surrogate: 2-Fluorobiphenyl3</i>		55.1 %3	2.9-1153		10/28/143	B4J2215			82703	
<i>Surrogate: Nitrobenzene-d53</i>		54.9 %3	1.8-1153		10/28/143	B4J2215			82703	
<i>Surrogate: p-Terphenyl-d143</i>		73.0 %3	8.5-1153		10/28/143	B4J2215b			82703	
<b>Organics-PCBs as Aroclorsp</b>										
12674-11-2b	Aroclor 1016b	NDb	8500b	ug/kg dryb	10b	10/29/14b	B4J2115b	8081/8082b		Y21b
11104-28-2b	Aroclor 1221b	NDb	8500b	ug/kg dryb	10b	10/29/14b	B4J2115b	8081/8082b		Y21b
11141-16-5b	Aroclor 1232b	NDb	8500b	ug/kg dryb	10b	10/29/14b	B4J2115b	8081/8082b		Y21b
53469-21-9b	Aroclor 1242b	NDb	8500b	ug/kg dryb	10b	10/29/14b	B4J2115b	8081/8082b		Y21b
12672-29-6b	Aroclor 1248b	NDb	8500b	ug/kg dryb	10b	10/29/14b	B4J2115b	8081/8082b		Y21b
11097-69-1b	<b>Aroclor 1254p</b>	<b>61000p</b>	11000b	ug/kg dryb	100b	10/29/14b	B4J2115b	8081/8082b		JAb
11096-82-5b	<b>Aroclor 1260p</b>	<b>8800p</b>	1100b	ug/kg dryb	10b	10/29/14b	B4J2115b	8081/8082b		JAb
37324-23-5b	Aroclor 1262b	NDb	8900b	ug/kg dryb	10b	10/29/14b	B4J2115b	8081/8082b		Y21b
11100-14-4b	<b>Aroclor 1268p</b>	<b>2400p</b>	1100b	ug/kg dryb	10b	10/29/14b	B4J2115b	8081/8082b		JAb
<i>Surrogate: Decachlorobiphenyl3</i>		221 %3	0-1503		10/29/143	B4J2115	8081/80823		100	
<i>Surrogate: Tetrachloro-m-xylene3</i>		85.1 %3	0-1503		10/29/143	B4J2115b	8081/80823			



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CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
<b>Inorganics-General Chemistryp</b>									
TSb	<b>% Total Solidsp</b>	<b>90.1p</b>	0.1b	%b	1b	10/17/14b	B4J1715b	2540 Bb	
<b>Inorganics-Metalsp</b>									
7440-38-2b	<b>Arsenicp</b>	<b>77p</b>	5.0b	mg/kg dryb	100b	10/29/14b	B4J2302b	6020/200.8b	
7440-39-3	<b>Bariump</b>	<b>170p</b>	10b	mg/kg dryb	100b	10/29/14b	B4J2302b	6020/200.8b	
7440-50-8b	<b>Copperp</b>	<b>7800p</b>	10b	mg/kg dryb	100b	10/29/14b	B4J2302b	6020/200.8b	
7439-92-1b	<b>Leadp</b>	<b>1800p</b>	1.0b	mg/kg dryb	10b	10/28/14b	B4J2302b	6020/200.8b	
7439-96-5b	<b>Manganesep</b>	<b>430p</b>	10b	mg/kg dryb	100b	10/29/14b	B4J2302b	6020/200.8b	



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CAS # <sup>b</sup>	Analyte <sup>b</sup>	Result <sup>b</sup>	RLb	Units <sup>b</sup>	Dilution <sup>b</sup>	Analyzed Date <sup>b</sup>	QC Batch <sup>b</sup>	Method <sup>b</sup>	Qualifier <sup>b</sup>
<b>Organics-Volatiles<sup>p</sup></b>									
630-20-6b	1,1,1,2-Tetrachloroethane <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
71-55-6b	1,1,1-Trichloroethane <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethane <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
79-00-5b	1,1,2-Trichloroethane <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-34-3	1,1-Dichloroethane <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-35-4b	1,1-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
87-61-6b	1,2,3-Trichlorobenzene <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
96-18-4b	1,2,3-Trichloropropane <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
526-73-8b	1,2,3-Trimethylbenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
120-82-1b	1,2,4-Trichlorobenzene <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
95-63-6b	1,2,4-Trimethylbenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropane <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
106-93-4b	1,2-Dibromoethane <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
95-50-1b	1,2-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
107-06-2b	1,2-Dichloroethane <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
78-87-5b	1,2-Dichloropropane <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
108-67-8b	1,3,5-Trimethylbenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
541-73-1b	1,3-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
106-46-7b	1,4-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
78-93-3	2-Butanone (MEK) <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
591-78-6b	2-Hexanone <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
91-57-6b	2-Methylnaphthalene <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	Xb
67-64-1b	2-Propanone (acetone) <sup>b</sup>	ND <sup>b</sup>	1900b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	Gb
108-10-1b	4-Methyl-2-pentanone (MIBK) <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
107-13-1b	Acrylonitrile <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
71-43-2b	Benzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
108-86-1b	Bromobenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
74-97-5b	Bromochloromethane <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-27-4b	Bromodichloromethane <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-25-2b	Bromoform <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
74-83-9b	Bromomethane <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-15-0b	Carbon disulfide <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
56-23-5b	Carbon tetrachloride <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
108-90-7b	Chlorobenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
75-00-3	Chloroethane <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
67-66-3	Chloroform <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
74-87-3	Chloromethane <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
156-59-2b	cis-1,2-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
10061-01-5b	cis-1,3-Dichloropropylene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
110-82-7b	Cyclohexane <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	
124-48-1b	Dibromochloromethane <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dry <sup>b</sup>	50b	10/21/14b	B4J2206b	8260b	



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CAS # <sup>b</sup>	Analyte <sup>b</sup>	Result <sup>b</sup>	RLb	Units <sup>b</sup>	Dilution <sup>b</sup>	Analyzed Date <sup>b</sup>	QC Batch <sup>b</sup>	Method <sup>b</sup>	Qualifier <sup>b</sup>
<b>Organics-Volatiles<sup>p</sup></b>									
74-95-3	Dibromomethane <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-71-8b	Dichlorodifluoromethane <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
60-29-7b	Diethyl ether <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
108-20-3	Diisopropyl Ether <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
100-41-4b	Ethylbenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
637-92-3	Ethyltertiarybutylether <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
67-72-1b	Hexachloroethane <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
98-82-8b	Isopropylbenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
1330-20-7b	m & p - Xylene <sup>b</sup>	ND <sup>b</sup>	190b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
74-88-4b	Methyl iodide <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-09-2b	Methylene chloride <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
1634-04-4b	Methyltertiarybutylether <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
91-20-3	Naphthalene <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	Xb
104-51-8b	n-Butylbenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
103-65-1b	n-Propylbenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
95-47-6b	o-Xylene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
99-87-6b	p-Isopropyl toluene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
135-98-8b	sec-Butylbenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
100-42-5b	Styrene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
98-06-6b	tert-Butylbenzene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-65-0b	tertiary Butyl Alcohol <sup>b</sup>	ND <sup>b</sup>	4700b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
994-05-8b	tertiaryAmylmethylether <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
127-18-4b	Tetrachloroethylene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
109-99-9b	Tetrahydrofuran <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
108-88-3	Toluene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
156-60-5b	trans-1,2-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	A05b
10061-02-6b	trans-1,3-Dichloropropylene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
110-57-6b	trans-1,4-Dichloro-2-butene <sup>b</sup>	ND <sup>b</sup>	470b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
79-01-6b	Trichloroethylene <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-69-4b	Trichlorofluoromethane <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
75-01-4b	Vinyl chloride <sup>b</sup>	ND <sup>b</sup>	95b	ug/kg dryb	50b	10/21/14b	B4J2206b	8260b	
<i>Surrogate: Bromofluorobenzene<sup>3</sup></i>		161 % <sup>3</sup>	40.3-1943		10/21/143	B4J2206b	82603		
<i>Surrogate: Dibromofluoromethane<sup>3</sup></i>		236 % <sup>3</sup>	52.1-2173		10/21/143	B4J2206b	82603		
<i>Surrogate: Toluene-d8<sup>3</sup></i>		207 % <sup>3</sup>	55.4-1963		10/21/143	B4J2206b	82603		



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Client ID: CHLL-WP02-101514p

Lab ID: 1410132-09p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb	Dateb	QC Batchb	Methodb	Qualifierb
<b>Organics-Semivolatiles<sup>b</sup></b>										
91-57-6b	2-Methylnaphthaleneb	NDb	660b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
83-32-9b	Acenaphtheneb	NDb	260b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
208-96-8b	Acenaphthyleneb	NDb	260b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
120-12-7b	Anthraceneb	NDb	260b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
56-55-3	<b>Benz[a]anthracene<sup>p</sup></b>	<b>690p</b>	260b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
50-32-8b	<b>Benzo[a]pyrene<sup>p</sup></b>	<b>590p</b>	530b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
205-99-2b	<b>Benzo[b]fluoranthene<sup>p</sup></b>	<b>1100p</b>	530b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	530b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
207-08-9b	Benzo[k]fluorantheneb	NDb	530b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
218-01-9b	<b>Chrysene<sup>p</sup></b>	<b>920p</b>	260b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
53-70-3	Dibenz[a,h]anthraceneb	NDb	530b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
206-44-0b	<b>Fluoranthene<sup>p</sup></b>	<b>1800p</b>	260b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
86-73-7b	Fluoreneb	NDb	260b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	530b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
91-20-3	<b>Naphthalene<sup>p</sup></b>	<b>270p</b>	260b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
85-01-8b	<b>Phenanthrene<sup>p</sup></b>	<b>1200p</b>	260b	ug/kg dryb	1b	10/28/14b	B4J2215b		8270b	
129-00-0b	<b>Pyrene<sup>p</sup></b>	<b>1500p</b>	260b	ug/kg dryb	1b	10/28/14b	B4J2215		8270b	
Surrogate: 2-Fluorobiphenyl3		69.0 %3	2.9-1153		10/28/143	B4J2215			82703	
Surrogate: Nitrobenzene-d53		66.7 %3	1.8-1153		10/28/143	B4J2215			82703	
Surrogate: p-Terphenyl-d143		82.4 %3	8.5-1153		10/28/143	B4J2215b			82703	
<b>Organics-PCBs as Aroclors<sup>p</sup></b>										
12674-11-2b	Aroclor 1016b	NDb	280b	ug/kg dryb	1b	10/25/14b	B4J2115b	8081/8082b		Y21b
11104-28-2b	Aroclor 1221b	NDb	280b	ug/kg dryb	1b	10/25/14b	B4J2115b	8081/8082b		Y21b
11141-16-5b	Aroclor 1232b	NDb	280b	ug/kg dryb	1b	10/25/14b	B4J2115b	8081/8082b		Y21b
53469-21-9b	Aroclor 1242b	NDb	280b	ug/kg dryb	1b	10/25/14b	B4J2115b	8081/8082b		Y21b
12672-29-6b	Aroclor 1248b	NDb	280b	ug/kg dryb	1b	10/25/14b	B4J2115b	8081/8082b		Y21b
11097-69-1b	<b>Aroclor 1254p</b>	<b>460p</b>	130b	ug/kg dryb	1b	10/25/14b	B4J2115b	8081/8082b		JAb
11096-82-5b	<b>Aroclor 1260p</b>	<b>150p</b>	130b	ug/kg dryb	1b	10/25/14b	B4J2115b	8081/8082b		JAb
37324-23-5b	Aroclor 1262b	NDb	160b	ug/kg dryb	1b	10/25/14b	B4J2115b	8081/8082b		Y21b
11100-14-4b	Aroclor 1268b	NDb	130b	ug/kg dryb	1b	10/25/14b	B4J2115	8081/8082b		
Surrogate: Decachlorobiphenyl3		94.9 %3	0-1503		10/25/143	B4J2115			8081/80823	
Surrogate: Tetrachloro-m-xylene3		73.6 %3	0-1503		10/25/143	B4J2115b			8081/80823	



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**Client ID: CHLL-WP02-101514p**

**Lab ID: 1410132-09p**

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
<b>Inorganics-General Chemistryp</b>									
TSb	<b>% Total Solidsp</b>	<b>75.8p</b>	0.1b	%b	1b	10/17/14b	B4J1715b	2540 Bb	
<b>Inorganics-Metalsp</b>									
7440-38-2b	<b>Arsenicp</b>	<b>92p</b>	5.0b	mg/kg dryb	100b	10/29/14b	B4J2302b	6020/200.8b	
7440-39-3	<b>Bariump</b>	<b>110p</b>	10b	mg/kg dryb	100b	10/29/14b	B4J2302b	6020/200.8b	
7440-50-8b	<b>Copperp</b>	<b>25000p</b>	1000b	mg/kg dryb	10000b	10/29/14b	B4J2302b	6020/200.8b	
7439-92-1b	<b>Leadp</b>	<b>1100p</b>	1.0b	mg/kg dryb	10b	10/28/14b	B4J2302b	6020/200.8b	
7439-96-5b	<b>Manganesep</b>	<b>450p</b>	10b	mg/kg dryb	100b	10/29/14b	B4J2302b	6020/200.8b	



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**Client ID: CHLL-WP03-101514p**

**Lab ID: 1410132-10p**

CAS # <sup>b</sup>	Analyte <sup>b</sup>	Result <sup>b</sup>	RLb	Units <sup>b</sup>	Dilution <sup>b</sup>	Analyzed <sup>b</sup> Date <sup>b</sup>	QC Batch <sup>b</sup>	Method <sup>b</sup>	Qualifier <sup>b</sup>
<b>Organics-Volatiles<sup>p</sup></b>									
630-20-6b	1,1,1,2-Tetrachloroethane <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
71-55-6b	1,1,1-Trichloroethane <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
79-34-5b	1,1,2,2-Tetrachloroethane <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
79-00-5b	1,1,2-Trichloroethane <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
75-34-3	1,1-Dichloroethane <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
75-35-4b	1,1-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
87-61-6b	1,2,3-Trichlorobenzene <sup>b</sup>	ND <sup>b</sup>	340 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
96-18-4b	1,2,3-Trichloropropane <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
526-73-8b	<b>1,2,3-Trimethylbenzenep</b>	<b>370p</b>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
120-82-1b	1,2,4-Trichlorobenzene <sup>b</sup>	ND <sup>b</sup>	340 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
95-63-6b	<b>1,2,4-Trimethylbenzenep</b>	<b>610p</b>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
96-12-8b	1,2-Dibromo-3-chloropropane <sup>b</sup>	ND <sup>b</sup>	340 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
106-93-4b	1,2-Dibromoethane <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
95-50-1b	1,2-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
107-06-2b	1,2-Dichloroethane <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
78-87-5b	1,2-Dichloropropane <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
108-67-8b	<b>1,3,5-Trimethylbenzenep</b>	<b>110p</b>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
541-73-1b	1,3-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
106-46-7b	1,4-Dichlorobenzene <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
78-93-3	2-Butanone (MEK) <sup>b</sup>	ND <sup>b</sup>	340 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
591-78-6b	2-Hexanone <sup>b</sup>	ND <sup>b</sup>	340 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
91-57-6b	<b>2-Methylnaphthalenep</b>	<b>1400p</b>	340 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	X <sup>b</sup>
67-64-1b	2-Propanone (acetone) <sup>b</sup>	ND <sup>b</sup>	1300 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	G <sup>b</sup>
108-10-1b	4-Methyl-2-pentanone (MIBK) <sup>b</sup>	ND <sup>b</sup>	340 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
107-13-1b	Acrylonitrile <sup>b</sup>	ND <sup>b</sup>	340 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
71-43-2b	<b>Benzene<sup>p</sup></b>	<b>240p</b>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
108-86-1b	Bromobenzene <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
74-97-5b	Bromochloromethane <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
75-27-4b	Bromodichloromethane <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
75-25-2b	Bromoform <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
74-83-9b	Bromomethane <sup>b</sup>	ND <sup>b</sup>	340 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
75-15-0b	Carbon disulfide <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
56-23-5b	Carbon tetrachloride <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
108-90-7b	Chlorobenzene <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
75-00-3	Chloroethane <sup>b</sup>	ND <sup>b</sup>	340 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
67-66-3	Chloroform <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
74-87-3	Chloromethane <sup>b</sup>	ND <sup>b</sup>	340 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
156-59-2b	cis-1,2-Dichloroethylene <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
10061-01-5b	cis-1,3-Dichloropropylene <sup>b</sup>	ND <sup>b</sup>	67 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	
110-82-7b	<b>Cyclohexane<sup>p</sup></b>	<b>580p</b>	340 <sup>b</sup>	ug/kg dry <sup>b</sup>	50 <sup>b</sup>	10/22/14 <sup>b</sup>	B4J2207 <sup>b</sup>	8260 <sup>b</sup>	



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**Client ID: CHLL-WP03-101514p**

**Lab ID: 1410132-10p**

CAS # <sup>b</sup>	Analyte <sup>b</sup>	Result <sup>b</sup>	RLb	Units <sup>b</sup>	Dilution <sup>b</sup>	Analyzed Date <sup>b</sup>	QC Batch <sup>b</sup>	Method <sup>b</sup>	Qualifier <sup>b</sup>
<b>Organics-Volatiles<sup>p</sup></b>									
124-48-1b	Dibromochloromethaneb	NDb	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
74-95-3	Dibromomethaneb	NDb	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	340b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
60-29-7b	Diethyl etherb	NDb	340b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
108-20-3	Diisopropyl Etherb	NDb	340b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
100-41-4b	<b>Ethylbenzenep</b>	<b>300p</b>	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
637-92-3	Ethyltertiarybutyletherb	NDb	340b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
67-72-1b	Hexachloroethaneb	NDb	340b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
98-82-8b	<b>Isopropylbenzenep</b>	<b>75p</b>	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
1330-20-7b	<b>m &amp; p - Xylenep</b>	<b>1800p</b>	130b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
74-88-4b	Methyl iodideb	NDb	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
75-09-2b	Methylene chlorideb	NDb	340b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
91-20-3	<b>Naphthalenep</b>	<b>1500p</b>	340b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	Xb
104-51-8b	<b>n-Butylbenzenep</b>	<b>79p</b>	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
103-65-1b	<b>n-Propylbenzenep</b>	<b>110p</b>	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
95-47-6b	<b>o-Xylenep</b>	<b>970p</b>	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
99-87-6b	p-Isopropyl tolueneb	NDb	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
100-42-5b	Styreneb	NDb	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
98-06-6b	tert-Butylbenzeneb	NDb	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	3400b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	340b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	340b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
108-88-3	<b>Toluene<sup>p</sup></b>	<b>2500p</b>	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
10061-02-6b	trans-1,3-Dichloropropyleneb	NDb	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
110-57-6b	trans-1,4-Dichloro-2-buteneb	NDb	340b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
79-01-6b	Trichloroethyleneb	NDb	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
75-01-4b	Vinyl chlorideb	NDb	67b	ug/kg dryb	50b	10/22/14b	B4J2207b	8260b	
<i>Surrogate: Bromofluorobenzene3</i>		135 %3	40.3-1943		10/22/143	B4J2207b	82603		
<i>Surrogate: Dibromofluoromethane3</i>		197 %3	52.1-2173		10/22/143	B4J2207b	82603		
<i>Surrogate: Toluene-d83</i>		173 %3	55.4-1963		10/22/143	B4J2207b	82603		



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
ENVIRONMENTAL LABORATORYC**

P.O. Box 302700  
Lansing, MI 48909  
TEL: (517) 335-98000  
FAX: (517) 335-96000

Client ID: CHLL-WP03-101514p

Lab ID: 1410132-10p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
<b>Organics-Semivolatiles<sup>b</sup></b>									See note Y20, Y21p
91-57-6b	2-Methylnaphthaleneb	NDb	7200b	ug/kg dryb	1b	10/28/14b	B4J2215b	8270b	
83-32-9b	Acenaphtheneb	NDb	2900b	ug/kg dryb	1b	10/28/14b	B4J2215b	8270b	
208-96-8b	Acenaphthyleneb	NDb	2900b	ug/kg dryb	1b	10/28/14b	B4J2215b	8270b	
120-12-7b	Anthraceneb	NDb	2900b	ug/kg dryb	1b	10/28/14b	B4J2215b	8270b	
56-55-3	<b>Benz[a]anthracene<sup>p</sup></b>	<b>3600p</b>	2900b	ug/kg dryb	1b	10/28/14b	B4J2215b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	5700b	ug/kg dryb	1b	10/28/14b	B4J2215b	8270b	
205-99-2b	<b>Benzo[b]fluoranthene<sup>p</sup></b>	<b>6100p</b>	5700b	ug/kg dryb	1b	10/28/14b	B4J2215b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	5700b	ug/kg dryb	1b	10/28/14b	B4J2215b	8270b	
207-08-9b	Benzo[k]fluorantheneb	NDb	5700b	ug/kg dryb	1b	10/28/14b	B4J2215b	8270b	
218-01-9b	<b>Chrysene<sup>p</sup></b>	<b>3900p</b>	2900b	ug/kg dryb	1b	10/28/14b	B4J2215b	8270b	
53-70-3	Dibenz[a,h]anthraceneb	NDb	5700b	ug/kg dryb	1b	10/28/14b	B4J2215b	8270b	
206-44-0b	<b>Fluoranthene<sup>p</sup></b>	<b>8200p</b>	2900b	ug/kg dryb	1b	10/28/14b	B4J2215b	8270b	
86-73-7b	Fluoreneb	NDb	2900b	ug/kg dryb	1b	10/28/14b	B4J2215b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	5700b	ug/kg dryb	1b	10/28/14b	B4J2215b	8270b	
91-20-3	Naphthaleneb	NDb	2900b	ug/kg dryb	1b	10/28/14b	B4J2215b	8270b	
85-01-8b	<b>Phenanthrene<sup>p</sup></b>	<b>3100p</b>	2900b	ug/kg dryb	1b	10/28/14b	B4J2215b	8270b	
129-00-0b	<b>Pyrene<sup>p</sup></b>	<b>6500p</b>	2900b	ug/kg dryb	1b	10/28/14b	B4J2215	8270b	
Surrogate: 2-Fluorobiphenyl3		42.1 %3	2.9-1153		10/28/143	B4J2215	82703		
Surrogate: Nitrobenzene-d53		8.9 %3	1.8-115		10/28/143	B4J2215	82703		
Surrogate: p-Terphenyl-d143		68.6 %3	8.5-1153		10/28/143	B4J2215b	82703		
<b>Organics-PCBs as Aroclors<sup>p</sup></b>									
12674-11-2b	Aroclor 1016b	NDb	920b	ug/kg dryb	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
11104-28-2b	Aroclor 1221b	NDb	920b	ug/kg dryb	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
11141-16-5b	Aroclor 1232b	NDb	920b	ug/kg dryb	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
53469-21-9b	Aroclor 1242b	NDb	920b	ug/kg dryb	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
12672-29-6b	Aroclor 1248b	NDb	920b	ug/kg dryb	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
11097-69-1b	<b>Aroclor 1254p</b>	<b>730p</b>	230b	ug/kg dryb	1b	10/25/14b	B4J2115b	8081/8082b	JAb
11096-82-5b	<b>Aroclor 1260p</b>	<b>840p</b>	230b	ug/kg dryb	1b	10/25/14b	B4J2115b	8081/8082b	JAb
37324-23-5b	Aroclor 1262b	NDb	850b	ug/kg dryb	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
11100-14-4b	Aroclor 1268b	NDb	760b	ug/kg dryb	1b	10/25/14b	B4J2115	8081/8082b	Y21b
Surrogate: Decachlorobiphenyl3		134 %3	0-1503		10/25/143	B4J2115	8081/80823		
Surrogate: Tetrachloro-m-xylene3		79.3 %3	0-1503		10/25/143	B4J2115b	8081/80823		



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FAX: (517) 335-96000

**Client ID: CHLL-WP03-101514p**

**Lab ID: 1410132-10p**

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
<b>Inorganics-General Chemistryp</b>									
TSb	<b>% Total Solidsp</b>	<b>87.3p</b>	0.1b	%b	1b	10/17/14b	B4J1715b	2540 Bb	
<b>Inorganics-Metalsp</b>									
7440-38-2b	<b>Arsenicp</b>	<b>100p</b>	5.0b	mg/kg dryb	100b	10/29/14b	B4J2302b	6020/200.8b	
7440-39-3	<b>Bariump</b>	<b>1700p</b>	1.0b	mg/kg dryb	10b	10/28/14b	B4J2302b	6020/200.8b	A07b
7440-50-8b	<b>Copperp</b>	<b>22000p</b>	10b	mg/kg dryb	100b	10/29/14b	B4J2302b	6020/200.8b	
7439-92-1b	<b>Leadp</b>	<b>2200p</b>	1.0b	mg/kg dryb	10b	10/28/14b	B4J2302b	6020/200.8b	
7439-96-5b	<b>Manganesep</b>	<b>350p</b>	10b	mg/kg dryb	100b	10/29/14b	B4J2302b	6020/200.8b	



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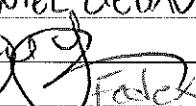
**Client ID: CHLL-RPM04-101514p  
Lab ID: 1410132-11p**

CAS # <sup>b</sup>	Analyte <sup>b</sup>	Result <sup>b</sup>	RL <sup>b</sup>	Units <sup>b</sup>	Dilution <sup>b</sup>	Analyzed <sup>b</sup> Date <sup>b</sup>	QC Batch <sup>b</sup>	Method <sup>b</sup>	Qualifier <sup>b</sup>
<b>Organics-PCBs as Aroclors<sup>p</sup></b>									
12674-11-2b	Aroclor 1016b	ND <sup>b</sup>	180b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
11104-28-2b	Aroclor 1221b	ND <sup>b</sup>	180b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
11141-16-5b	Aroclor 1232b	ND <sup>b</sup>	180b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
53469-21-9b	Aroclor 1242b	ND <sup>b</sup>	180b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
12672-29-6b	Aroclor 1248b	ND <sup>b</sup>	180b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
11097-69-1b	<b>Aroclor 1254p</b>	<b>220p</b>	140b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115b	8081/8082b	A02, JAB
11096-82-5b	<b>Aroclor 1260p</b>	<b>150p</b>	140b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115b	8081/8082b	A02, JAB
37324-23-5b	Aroclor 1262b	ND <sup>b</sup>	160b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115b	8081/8082b	Y21b
11100-14-4b	Aroclor 1268b	ND <sup>b</sup>	180b	ug/kg dry <sup>b</sup>	1b	10/25/14b	B4J2115	8081/8082b	Y21b
<i>Surrogate: Decachlorobiphenyl3</i>		191 % <sup>3</sup>	0-1503		10/25/143	B4J2115	8081/80823		
<i>Surrogate: Tetrachloro-m-xylene3</i>		83.8 % <sup>3</sup>	0-1503		10/25/143	B4J2115b	8081/80823		
<b>Inorganics-General Chemistry<sup>p</sup></b>									
TS <sup>b</sup>	% Total Solid <sup>p</sup>	70.9p	0.1b	% <sup>b</sup>	1b	10/17/14b	B4J1715b	2540 Bb	

Lab Work Order Number <b>1410132</b>	Project Name <b>ABANDONED MINING WASTES - TORCH LAKE NS SITE</b>	Matrix <b>SOIL/SEDIMENT</b>		
Site Code/Project Number <b>31000098</b>	AY <b>13</b>	CC Email 1 <b>j.binkley@WESTONSOLUTIONS.com</b>	Project TAT Days <b>STD</b>	Sample Collector <b>D.LIEBAU</b>
Dept-Division-District <b>DEQ-RRD-UP</b>	Index <b>44251</b>	CC Email 2 <b></b>	Project Due Date <b></b>	Sample Collector Phone <b>906-370-0524</b>
State Project Manager <b>AMY KERANEN</b>	<b>30872</b>	CC Email 3 <b></b>	Accept Analysis hold time codes <b>No</b>	Contract Firm <b>WESTON SOLUTIONS</b>
State Project Manager Email <b>KERANENA@</b>	Project <b>456990</b>	Overflow Lab Choice 1 <b>Test America</b>	Contract Firm Primary Contact <b>JEFF BINKLEY</b>	State Project Manager Phone <b>906-337-0389</b>
Phase <b>00</b>	Overflow Lab Choice 2 <b></b>	Primary Contact Phone <b>906-523-5457</b>		

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	CHL-SS01-101514	10/15/14	1401	1802	
2	CHL-SS02-101514		1413	1	
3	CHL-SS03-101514		1341	1	
4	CHL-SS04-101514		1430	2802 140ML	
5	CHL-SS05-101514		1445	1	
6	CHL-SS06-101514		1450	1	
7	CHL-SS07-101514		1517	1	
8	CHL-SS08-101514		DL		
9	CHL-SS09-101514		DL		
10	CHL-DRUMWC-101514		1550		WASTE CHARACTERIZATION

ORGANIC CHEMISTRY	METALS CHEMISTRY PACKAGES	MS - TOTAL METALS	GENERAL CHEMISTRY
VOA - Volatile Organic Acidic	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,Sr,Ag,Tl,V,Zn)	Silver - Ag 1 2 3 4 5 6 7 8 9 10	GS - General Chemistry 1 2 3 4 5 6 7 8 9 10
Volatiles - Full List	1 2 3 4 5 6 7 8 9 10	Aluminum - Al 1 2 3 4 5 6 7 8 9 10	Total Cyanide - CN 1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10	Arsenic - As 1 2 3 4 5 6 7 8 9 10	Available Cyanide - CN 1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10	Barium - Ba 1 2 3 4 5 6 7 8 9 10	Chem Oxy Dem - COD 1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10	Beryllium - Be 1 2 3 4 5 6 7 8 9 10	Total Org Carbon - TOC 1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10	Cadmium - Cd 1 2 3 4 5 6 7 8 9 10	Kjeldahl Nitrogen - KN 1 2 3 4 5 6 7 8 9 10
OS - Pesticides, PCBs		Cobalt - Co 1 2 3 4 5 6 7 8 9 10	Total Phosphorus - TP 1 2 3 4 5 6 7 8 9 10
Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10	Chromium - Cr 1 2 3 4 5 6 7 8 9 10	
Pesticides only	1 2 3 4 5 6 7 8 9 10	Copper - Cu 1 2 3 4 5 6 7 8 9 10	
PCBs only	1 2 3 4 5 6 7 8 9 10	Iron - Fe 1 2 3 4 5 6 7 8 9 10	
Toxaphene	1 2 3 4 5 6 7 8 9 10	Mercury - Hg 1 2 3 4 5 6 7 8 9 10	TCLP VOCs ⑩
BNA - Base Neutral Acids		Lithium - Li 1 2 3 4 5 6 7 8 9 10	TCLP METALS ⑩
BNA's	1 2 3 4 5 6 7 8 9 10	Manganese - Mn 1 2 3 4 5 6 7 8 9 10	Sulfide - reactivity
PNAs only	1 2 3 4 5 6 7 8 9 10	Molybdenum - Mo 1 2 3 4 5 6 7 8 9 10	Cyanide - reactivity
BNS only	1 2 3 4 5 6 7 8 9 10	Nickel - Ni 1 2 3 4 5 6 7 8 9 10	
Organic Specialty Requests		Lead - Pb 1 2 3 4 5 6 7 8 9 10	
Library search - Volatiles	1 2 3 4 5 6 7 8 9 10	Antimony - Sb 1 2 3 4 5 6 7 8 9 10	
Library search - SemiVols	1 2 3 4 5 6 7 8 9 10	Selenium - Se 1 2 3 4 5 6 7 8 9 10	
Finger Print	1 2 3 4 5 6 7 8 9 10	Strontium - Sr 1 2 3 4 5 6 7 8 9 10	
DRO / ORO	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	
		Vanadium - V 1 2 3 4 5 6 7 8 9 10	
		Zinc - Zn 1 2 3 4 5 6 7 8 9 10	
		Cadmium - Cd 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	

Relinquished by <b>WESTON SOLUTIONS</b>	Received By <b>FEDEX</b>	Date / Time
Print Name & Org. <b>DANIEL LIEBAU 10/16/14</b>	1500	84673845 7134
Signature: 	Jordan Hartley DEQ	1119 10/17/14
Print Name & Org. <b></b>		
Signature: 		



## Analysis Request Sheet

2 OF 3

Lab Work Order Number <b>1410132</b>	Project Name <b>A BANDONED MINING WASTES TOCH LAKE NS SITE</b>	Matrix <b>SOIL/SEDIMENT</b>					
Site Code/Project Number <b>31000098</b>	AY <b>13</b> Index <b>44251</b>	CC Email 1 <b>J.binkley@westonsolutions.com</b> CC Email 2 Project TAT Days <b>STD</b> Project Due Date Sample Collector <b>D. LIEBAN</b> Sample Collector Phone <b>906 370-0524</b>					
Dept-Division-District <b>DEQ - RRD - UP</b>	PCA <b>30872</b>	CC Email 3 Overflow Lab Choice 1 Overflow Lab Choice 2 Accept Analysis hold time codes <b>No</b>					
State Project Manager <b>AMY KERANEN</b>	Project <b>456990</b>	Contract Firm <b>WESTON SOLUTIONS</b> Contract Firm Primary Contact <b>JEFF BINKLEY</b> Primary Contact Phone <b>906 523-5457</b>					
State Project Manager Email <b>KERANEN@</b>	Phase <b>00</b>						
State Project Manager Phone <b>906-337-0389</b>							
Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments		
1 <b>08</b>	<b>CHU-WP01-101514</b>	<b>10/15/14</b>	<b>1620</b>	<b>2802</b> <b>140ML</b>			
2 <b>09</b>	<b>CHU-WP02-101514</b>		<b>1630</b>	<b>1</b>			
3 <b>10</b>	<b>CHU-WP03-101514</b>		<b>1650</b>	<b>1</b>			
4 <b>11</b>	<b>CHU-RPM04-101514</b>		<b>1630</b>	<b>1802</b>			
5							
6							
7							
8							
9							
10							
<b>ORGANIC CHEMISTRY</b>		<b>METALS CHEMISTRY PACKAGES</b>		<b>MS - TOTAL METALS</b>		<b>GENERAL CHEMISTRY</b>	
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		Op/Memo2 - 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 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	
<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>Relinquished by</b> <b>WESTON SOLUTIONS</b> Print Name & Org. <b>DANIEL LIEBAN</b> 10/14/14 Signature: 	<b>Received By</b> <b>FEDEX</b> 1500 1500 Signature: 	<b>Date / Time</b> 10/17/14
<b>Print Name &amp; Org.</b>  Signature: 	<b>Received By</b> Jordon Howell DEQ Signature: 	<b>Date / Time</b> 10/17/14
<b>Print Name &amp; Org.</b> Signature: 		

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
ENVIRONMENTAL LABORATORY**

P.O. Box 302700  
Lansing, MI 489090  
TEL: (517) 335-98000  
FAX: (517) 335-96000

13 November 2014O

Work Order: 1410133O

Price: \$395.00O

Amy KeranenO  
MDEQ-RRD-UPO  
1504 W. Washington St.O  
Marquette, MI 49855O

RE: ABANDONED MINING WASTES-TORCH LAKE NSO

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

Sincerely, O

George KrisztianO  
Laboratory DirectorO



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
ENVIRONMENTAL LABORATORYC**

P.O. Box 302700  
Lansing, MI 48909  
TEL: (517) 335-9800O  
FAX: (517) 335-96000

MDEQ-RRD-UPb  
1500 W. Washington St.b  
Marquette MI, 49855b

Project:bABANDONED MINING WASTES-TORCH LAKE NSb

Site Code:b31000098b

Project Manager:bAmy Keranenb

**Reported:**  
11/13/2014

**Analytical Report for Samplesp**

Sample IDp	Laboratory IDp	Matrixp	Date Sampled p	Date Receivedp	Qualiferp
CHLL-RPM01-101514b	1410133-01b	Otherb	10/15/2014b	10/17/2014b	
CHLL-RPM02-101514b	1410133-02b	Otherb	10/15/2014b	10/17/2014b	
CHLL-RPM03-101514b	1410133-03	Otherb	10/15/2014b	10/17/2014b	

**Notes and Definitions p**

- Y21b Reporting Limits (RL) raised due to matrix interference. b
- Vb Value not available due to dilution. b
- JAb Result is estimated due to multiple Aroclors present. b
- NDb Indicates compound analyzed for but not detected b
- RLb Reporting Limit b
- NAb Not Applicable b



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**Client ID: CHLL-RPM01-101514p  
Lab ID: 1410133-01p**

CAS # <sup>b</sup>	Analyte <sup>b</sup>	Result <sup>b</sup>	RL <sup>b</sup>	Units <sup>b</sup>	Dilution <sup>b</sup>	Analyzed b Date <sup>b</sup>	QC Batch <sup>b</sup>	Method <sup>b</sup>	Qualifier <sup>b</sup>
<b>Organics-PCBs as Aroclors<sup>p</sup></b>									
12674-11-2b	Aroclor 1016b	NDb	2000b	ug/kgb	10b	11/12/14b	B4K0308b	8081/8082b	Y21b
11104-28-2b	Aroclor 1221b	NDb	2000b	ug/kgb	10b	11/12/14b	B4K0308b	8081/8082b	Y21b
11141-16-5b	Aroclor 1232b	NDb	2000b	ug/kgb	10b	11/12/14b	B4K0308b	8081/8082b	Y21b
53469-21-9b	Aroclor 1242b	NDb	2000b	ug/kgb	10b	11/12/14b	B4K0308b	8081/8082b	Y21b
12672-29-6b	Aroclor 1248b	NDb	4000b	ug/kgb	10b	11/12/14b	B4K0308b	8081/8082b	Y21b
11097-69-1b	<b>Aroclor 1254p</b>	<b>11000p</b>	2000b	ug/kgb	10b	11/12/14b	B4K0308b	8081/8082b	JAb
11096-82-5b	Aroclor 1260b	NDb	7400b	ug/kgb	10b	11/12/14b	B4K0308b	8081/8082b	Y21b
37324-23-5b	<b>Aroclor 1262p</b>	<b>7300p</b>	2000b	ug/kgb	10b	11/12/14b	B4K0308b	8081/8082b	JAb
11100-14-4b	Aroclor 1268b	NDb	2200b	ug/kgb	10b	11/12/14b	B4K0308b	8081/8082b	Y21b
<i>Surrogate: Decachlorobiphenyl-</i>		33.2 %-	30-150-		11/10/14-	B4K0308b	8081/8082-		
<i>Surrogate: Tetrachloro-m-xylene-</i>		81.0 %-	30-150-		11/10/14-	B4K0308b	8081/8082-		



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**Client ID: CHLL-RPM02-101514p**  
**Lab ID: 1410133-02p**

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
<b>Organics-PCBs as Aroclorsp</b>									
12674-11-2b	Aroclor 1016b	NDb	200000b	ug/kgb	1000b	11/10/14b	B4K0308b	8081/8082b	Y21b
11104-28-2b	Aroclor 1221b	NDb	200000b	ug/kgb	1000b	11/10/14b	B4K0308b	8081/8082b	Y21b
11141-16-5b	Aroclor 1232b	NDb	200000b	ug/kgb	1000b	11/10/14b	B4K0308b	8081/8082b	Y21b
53469-21-9b	Aroclor 1242b	NDb	200000b	ug/kgb	1000b	11/10/14b	B4K0308b	8081/8082b	Y21b
12672-29-6b	Aroclor 1248b	NDb	200000b	ug/kgb	1000b	11/10/14b	B4K0308b	8081/8082b	Y21b
11097-69-1b	Aroclor 1254b	NDb	200000b	ug/kgb	1000b	11/10/14b	B4K0308b	8081/8082b	Y21b
11096-82-5b	Aroclor 1260b	NDb	870000b	ug/kgb	1000b	11/10/14b	B4K0308b	8081/8082b	Y21b
37324-23-5b	<b>Aroclor 1262p</b>	<b>860000p</b>	200000b	ug/kgb	1000b	11/10/14b	B4K0308b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	260000b	ug/kgb	1000b	11/10/14b	B4K0308b	8081/8082b	Y21b
Surrogate: Decachlorobiphenyl-		Not Applicable-		30-150-		11/10/14-	B4K0308b	8081/8082-	V-
Surrogate: Tetrachloro-m-xylene-		Not Applicable-		30-150-		11/10/14-	B4K0308b	8081/8082-	V-



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**Client ID: CHLL-RPM03-101514p**

**Lab ID: 1410133-03p**

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
<b>Organics-PCBs as Aroclorsp</b>									
12674-11-2b	Aroclor 1016b	NDb	20000b	ug/kgb	100b	11/10/14b	B4K0308b	8081/8082b	Y21b
11104-28-2b	Aroclor 1221b	NDb	20000b	ug/kgb	100b	11/10/14b	B4K0308b	8081/8082b	Y21b
11141-16-5b	Aroclor 1232b	NDb	20000b	ug/kgb	100b	11/10/14b	B4K0308b	8081/8082b	Y21b
53469-21-9b	Aroclor 1242b	NDb	20000b	ug/kgb	100b	11/10/14b	B4K0308b	8081/8082b	Y21b
12672-29-6b	Aroclor 1248b	NDb	58000b	ug/kgb	100b	11/10/14b	B4K0308b	8081/8082b	Y21b
11097-69-1b	<b>Aroclor 1254p</b>	<b>200000p</b>	20000b	ug/kgb	100b	11/10/14b	B4K0308b	8081/8082b	JAb
11096-82-5b	Aroclor 1260b	NDb	32000b	ug/kgb	100b	11/10/14b	B4K0308b	8081/8082b	Y21b
37324-23-5b	<b>Aroclor 1262p</b>	<b>30000p</b>	20000b	ug/kgb	100b	11/10/14b	B4K0308b	8081/8082b	JAb
11100-14-4b	Aroclor 1268b	NDb	34000b	ug/kgb	100b	11/10/14b	B4K0308b	8081/8082b	Y21b
<i>Surrogate: Decachlorobiphenyl-</i>		<i>Not Applicable-</i>		<i>30-150-</i>		<i>11/10/14-</i>	B4K0308b	8081/8082-	V-
<i>Surrogate: Tetrachloro-m-xylene-</i>		<i>Not Applicable-</i>		<i>30-150-</i>		<i>11/10/14-</i>	B4K0308b	8081/8082-	V-



## Analysis Request Sheet

3 OF 3

Other - 5th 10/17/14

Lab Work Order Number <b>1410133</b>	Project Name <b>ABANDONED MINING WASTES - TORCH LAKE NSS/SOIL/SEDIMENT</b>	Matrix <b>SOIL/SEDIMENT</b>		
Site Code/Project Number <b>31000098</b>	AY <b>13</b>	CC Email 1 <b>j.burkley@westonsolutions.com</b>	Project TAT Days <b>STD</b>	Sample Collector <b>D. LIEBAU</b>
Dept-Division-District <b>DEQ - RRD - UP</b>	Index <b>44251</b>	CC Email 2 <b></b>	Project Due Date <b></b>	Sample Collector Phone <b>906 370 0524</b>
State Project Manager <b>AMY KERANEN</b>	PCA <b>30872</b>	CC Email 3 <b></b>	Accept Analysis hold time codes <b>NO</b>	Contract Firm <b>WESTON SOLUTIONS</b>
State Project Manager Email <b>KERANEN@</b>	Project <b>456990</b>	Overflow Lab Choice 1 <b></b>	Contract Firm Primary Contact <b></b>	Primary Contact Phone <b></b>
State Project Manager Phone <b>906 337-0389</b>	Phase <b>00</b>	Overflow Lab Choice 2 <b></b>		

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	01 CUL-RPM 01-101514	10/15/14	1338		SOLID - NONSOIL MATRIX
2	02 CUL-RPM 02-101514	1	1345		1
3	03 CUL-RPM 03-101514	1	1349		1
4					
5					
6					
7					
8					
9					
10					

ORGANIC CHEMISTRY	METALS CHEMISTRY PACKAGES	MS - TOTAL METALS	GENERAL CHEMISTRY
VOA - Volatile Organic Acidic	OpMemo2 - Total (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)	Silver - Ag Aluminum - Al Arsenic - As Barium - Ba Beryllium - Be Cadmium - Cd Cobalt - Co Chromium - Cr Copper - Cu Iron - Fe Mercury - Hg Uranium - U Manganese - Mn Molybdenum - Mo Nickel - Ni Lead - Pb Antimony - Sb Selenium - Se Strontium - Sr Titanium - Ti Thallium - Tl Vanadium - V Zinc - Zn	GS - General Chemistry Total Cyanide - CN Available Cyanide - CN Chem Oxyg Dem - COD Total Org Carbon - TOC Kjeldahl Nitrogen - KN Total Phosphorus - TP
Volatiles - Full List	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
OS - Pesticides, PCBs	1 2 3 4 5 6 7 8 9 10		
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			
BNA's	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		

Chain of Custody	Relinquished by <b>WESTON SOLUTIONS</b>	Received By <b>PEDEX</b>	Date / Time <b></b>
	Print Name & Org. <b>DANIEL LIEBAU</b>	10/16/14 <b>1500</b>	
	Signature: 	<b>866-7-3845 7137</b>	
	Print Name & Org. <b>Justin Hardy DEQ</b>	<b>J. Hardy</b>	<b>1120 10/17/14</b>
Signature: 			
Print Name & Org. <b></b>			
Signature: 			